

PROP 65 WARNING FOR CALIFORNIA CONSUMERS

Cancer and Reproductive Harm www.P65Warnings.ca.gov

0140M00517-A





This manual is to be used by qualified, professionally trained HVAC technicians only. Daikin does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER INSTALLATION, ADJUSTMENT, SERVICING OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

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IMPORTANT INFORMATION

Pride and workmanship go into every product to provide our customers with quality products. It is possible, however, that during its lifetime a product may require service. Products should be serviced only by a qualified service technician who is familiar with the safety procedures required in the repair and who is equipped with the proper tools, parts, testing instruments and the appropriate service manual. **REVIEW ALL SERVICE INFORMATION IN THE APPROPRIATE SERVICE MANUAL BEFORE BEGINNING REPAIRS.**

IMPORTANT NOTICES FOR CONSUMERS AND SERVICERS RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

This unit should not be connected to, or used in conjunction with, any devices that are not design certified for use with this unit or have not been tested and approved by the manufacturer. Serious property damage or personal injury, reduced unit performance and/or hazardous conditions may result from the use of devices that have not been approved or certified by the manufacturer.



Do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance as property damage or personal injury could occur. Have your contractor point out and identify the various cut-off devices, switches, etc., that serves your comfort equipment.

🔒 WARNING -

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

To locate an authorized servicer, please consult your telephone book or the dealer from whom you purchased this product. For further assistance, please contact:

> CONSUMER INFORMATION LINE - DAIKIN BRAND PRODUCTS TOLL FREE 1-855-770-5678 (U.S. only) email us at: customerservice@daikindaikinac.com fax us at: (713) 856-1821 (Not a technical assistance line for dealers.) Outside the U.S., call 1-713-861-2500 (Not a technical assistance line for dealers.) Your telephone company will bill you for the call.

IMPORTANT INFORMATION

SAFE REFRIGERANT HANDLING

While these items will not cover every conceivable situation, they should serve as a useful guide.

Refrigerants are heavier than air. They can "push out" the oxygen in your lungs or in any enclosed space.To avoid possible difficulty in breathing or death:

- Never purge refrigerant into an enclosed room or space. By law, all refrigerants must be reclaimed.
- If an indoor leak is suspected, thoroughly ventilate the area before beginning work.
- Liquid refrigerant can be very cold. To avoid possible frostbite or blindness, avoid contact with refrigerant and wear gloves and goggles. If liquid refrigerant does contact your skin or eyes, seek medical help immediately.
- Always follow EPA regulations. Never burn refrigerant, as poisonous gas will be produced.

WARNING

To avoid possible injury, explosion or death, practice safe handling of refrigerants.

WARNING ·

The compressor POE oil for R-410A units is extremely susceptible to moisture absorption and could cause compressor failure. Do not leave system open to atmosphere any longer than necessary for installation.

To avoid possible explosion:

- Never apply flame or steam to a refrigerant cylinder. If you must heat a cylinder for faster charging, partially immerse it in warm water.
- Never fill a cylinder more than 80% full of liquid refrigerant.
- Never add anything other than R-22 to an R-22 cylinder or R-410A to an R-410A cylinder. The service equipment used must be listed or certified for the type of refrigerant used.
- Store cylinders in a cool, dry place. Never use a cylinder as a platform or a roller.

To avoid possible explosion, use only returnable (not disposable) service cylinders when removing refrigerant from a system.

- Ensure the cylinder is free of damage which could lead to a leak or explosion.
- Ensure the hydrostatic test date does not exceed 5 years.
- Ensure the pressure rating meets or exceeds 400 lbs.
- When in doubt, do not use cylinder.

WARNING -

System contaminants, improper service procedure and/or physical abuse affecting hermetic compressor electrical terminals may cause dangerous system venting.

The successful development of hermetically sealed refrigeration compressors has completely sealed the compressor's moving parts and electric motor inside a common housing, minimizing refrigerant leaks and the hazards sometimes associated with moving belts, pulleys or couplings.

Fundamental to the design of hermetic compressors is a method whereby electrical current is transmitted to the compressor motor through terminal conductors which pass through the compressor housing wall. These terminals are sealed in a dielectric material which insulates them from the housing and maintains the pressure tight integrity of the hermetic compressor. The terminals and their dielectric embedment are strongly constructed, but are vulnerable to careless compressor installation or maintenance procedures and equally vulnerable to internal electrical short circuits caused by excessive system contaminants. In either of these instances, an electrical short between the terminal and the compressor housing may result in the loss of integrity between the terminal and its dielectric embedment. This loss may cause the terminals to be expelled, thereby venting the vaporous and liquid contents of the compressor housing and system.

A venting compressor terminal normally presents no danger to anyone, providing the terminal protective cover is properly in place.

If, however, the terminal protective cover is not properly in place, a venting terminal may discharge a combination of

- (a) hot lubricating oil and refrigerant
- (b) flammable mixture (if system is contaminated with air)

in a stream of spray which may be dangerous to anyone in the vicinity. Death or serious bodily injury could occur.

Under no circumstances is a hermetic compressor to be electrically energized and/or operated without having the terminal protective cover properly in place.

See Service Section S-17 for proper servicing.

		D	С	G	300	400	3	в	*	*	*	A *
		1	2	3	4,5,6	7,8,9	10	11	12	13	14	
												Revision Levels
												Major & Minor
Brand												Factory-Installed Options
D Daikin											х	No Options
											A	Non-powered convenience outlet
Configuraton											В	Powered convenience outlet
C Standard Efficier	ncy (6 - 2	5 Tons)									С	Low-ambient kit
S Standard Efficier	ncy (3 - 5	Tons)									D	Return air smoke detector
T High Efficiency (3 - 5 Tons	5)									Е	Supply air smoke detector
											F	Non-powered convenience outlet;
Application												Low-ambient kit
C Cooling ¹											G	Non-powered convenience outlet;
G Gas Heat												Return air smoke detector
H Heat Pump ¹											Н	Non-powered convenience outlet;
	•-				_							Supply air smoke detector
Nominal Cooling Cap	-	01/ Torre	300 2	Terr							J	Non-powered convenience outlet;
036 3 Tons		3½ Tons	300 25	o ions	5						K	Return & Supply air smoke detectors
048 4 Tons 060 5 Tons		LO Tons										Non-powered convenience outlet; Low-ambient kit; Supply air smoke detecto
060 5 10hs 072 6 Tons		L2½ tons L5 Tons										
090 7½ Tons		20 Tons									L	Non-powered convenience outlet; Low-ambient kit
030 772 10113	240 2	10113										Return & Supply air smoke detectors
Nominal Heating Ca	nacity										м	Powered convenience outlet;
Bas/Electric		'P Factory-I	nstalled F	lectri	c Heat						IVI	Low-ambient kit
045 45,000 BTU/h		XX No He		liceth	encat						Ν	Powered convenience outlet;
090 90,000 BTU/h		010 10 kW		0 30) kW							Return air smoke detector
115 115,000 BTU/h		015 15 kW		1 30							0	Powered convenience outlet;
140 140,000 BTU/h		016 15 kW		5 45								Return & Supply air smoke detectors
210 210,000 BTU/h		018 18 kW		6 45							Р	Powered convenience outlet;
350 350,000 BTU/h		020 20 kW		60 60) kW							Supply air smoke detector
400 400,000 BTU/h	(025 25 kW	/								Q	Powered convenience outlet; Low-ambient
ee product specifica	tions for	heat size(s) available	e for e	ach capac	ity.						kit; Return air smoke detector
											R	Powered convenience outlet; Low-ambient
Voltage												kit; Supply air smoke detector
1 208-230/1/60		4 4	60/3/60								Т	Powered convenience outlet; Low-ambient
3 208-230/3/60		7 5	75/3/60									kit; Return & Supply air smoke detectors
											U	Non-powered convenience outlet;
Supply Fan/Drive Ty	pe/Moto											Low-ambient kit; Return air smoke detector
B Belt Drive (single					e (also des	signates (5-Ton					Low-ambient kit; Return air smoke detector
D Direct Drive (3-5	,		wo-stage									Low-ambient kit; Supply air smoke detector
W High Static (two	-speed	H High S	Static (sin	gle-sp	eed Belt [Drive)					Y	Low-ambient kit; Return & Supply
Belt Drive											_	air smoke detectors
Factory-Installed Op		_ ·									Ζ	Return & Supply air smoke detectors
A Ultra Low-Leak I		v Economi:	zer			Low-Leak	-		nomizer;			
B DDC-BACnet pro						BACnet p			1)		v	Factory-Installed Options
F Ultra Low-Leak I		v Economia	zer;			nnect Sw	•		,		X	Standard Aluminized Heat Exchanger
DDC-BACnet pro		usod)			V Low-I	.eak Dow .eak Dow					S	Stainless-Steel Heat Exchanger
H Disconnect Swite	`	,									D v	Hinged Panels
J Ultra Low-Leak I Disconnect Swit			201,		X No O	nnect Sw	nich (n	UII-TUSE(1)		К	Stainless-Steel Heat Exchanger; Hinged Panels
			ACnot pro	tocal		μισμε					в	Phase Monitor
M Disconnect Switc	1001-10	seu), DDC-B	Achet pro									
	is availat	ole for all n	roducts								J M	Stainless Steel Heat Exchanger; Phase Monito Hinged Panel; Phase Monitor
Note: Not all ontion												
Note: Not all option X= No Options in charac											L	Stainless-Steel Heat Exchanger;

Factory-Installed Options

- Stainless-Steel Heat Exchanger (Gas units only): A tubular heat exchanger made of 409-type stainless steel is installed in the unit.
- Low-Ambient Kit: Allows for cooling operation at lower outdoor temperatures. On the 3- to 6-ton units, cooling operation is extended from 60°F ambient temperature to 35°F outside air temperature. On 7½ -20 ton units, cooling operation is extended from 35°F ambient temperature to 0°F outside air temperature. For 25 ton units, cooling operation is extended from 24°F ambient temperature to 0°F outside air temperature.
- Economizers (Downflow): Based on air conditions, can provide outside air to cool the space.
- Electric Heat Kits (AC and heat pump units only): Available in all voltage options.
- Non-powered Convenience Outlet: A 120V, 15A, GFCI outlet makes it easier for technicians to service the unit once an electrician runs power to the outlet.
- Powered Convenience Outlet: A 120V, 15A, GFCI outlet powered with a transformer built into the unit. When a factory-installed powered convenience outlet is installed in the equipment, the unit MCA (Min. Circuit Ampacity) will increase by 7.2A/6.5A for 208/230V units, increase by 3.3A for 460V units, and by 2.6A for 575V units. The MOP (Max. Overcurrent Protection) device must be sized accordingly.
- Disconnect Switch (non-fused; 3-phase units only): A disconnect switch is installed in the unit and factory wiring will be complete from the switch to the unit. Please note that for air conditioning (DSC units) and heat pump models (DSH units), the appropriate electric heat kit must be ordered to be factory-installed along with the disconnect switch (non-fused) when it is ordered. Please note that for models with a powered convenience outlet option and a disconnect switch (non-fused) option, the power to the powered convenience outlet will be shut off when the disconnect switch (non-fused) is in the off position.
- Return Air and/or Supply Air Smoke Detectors: Return air and/or supply air smoke detectors are installed in the unit.
- Hinged Access Panels: Allows access to unit's major components. Combined with latches for easy access to control box, compressor, filters and blower motor. Available on all units.
- Two-speed indoor fan blower models are available on 6, 7½, 8½, 10, 12½, 15, 20 & 25 ton units. Section 6.4.3.10.b of ASHRAE Standard 90.1-2010 and Section 6.5.3.2.1.a of ASHRAE Standard 90.1-2013 require a minimum of two fan speeds. Section 140.4(m)1 of California Energy Commission Title 24 2013 contains a similar provision. When the units with the two-speed indoor fan blowers operate on a call for the first stage of cooling, the fan operates at low speed, which is 66% of full speed. When the units operate on a call for the second stage of cooling, the fan operates at full speed. In heating operation, the fan operates at full speed. During ventilation operation, the fan operates at low speed.
- Phase Monitor: Phase monitor (3 phase only), available for 3 25 ton DS, DC and DT series models. Phase monitor shall provide protection for motors and compressors against problems caused by phase loss, phase reversal and phase unbalance. Phase monitor is equipped with an LED that provides an ON or FAULT indicator.
- DDC Controller: DDC communicating controller, available for 3 25 ton DS, DC and DT series models with on-board BACnet[®] communication interface.
- High static belt drive, single and two-speed models

DCC***XXX**XXX

Daikin Commercial Multiposition Package Coolers									
Model	Description								
"DCC180XXX[3,4,7]BXXXAA DCC240XXX[3,4,7]BXXXAA"	Daikin Commercial Package Cooler, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Initial release of Daikin models with 5mm condenser coils.								
DCC240XXX[3,4,7]BXXX[AB,AC]	Daikin Commercial Package Cooler, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Release of models with new compressor.								
"DCC180XXX[3,4,7]VXXXAA DCC240XXX[3,4,7]VXXXAA DCC300XXX[3,4,7]VXXXAA"	Daikin Commercial Package Cooler, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. 2-Speed Belt Drive. Initial release of Daikin models with 2 Speed Evaporator Fan Motor (California Title 24).								
"DCC180XXX[4/7]BXXXAB DCC240XXX[4/7]BXXXAB"	Daikin Commercial Package Cooler, R-410A, 460V & 575V 3 Phase. Belt Drive. Release of models with condenser motor updates.								
"DCC180XXX[4/7]VXXXAB DCC240XXX[4/7]VXXXAB"	Daikin Commercial Package Cooler, R-410A, 460V & 575V 3 Phase. 2-Speed Belt Drive. Release of models with condenser motor updates.								
DCC240XXX3BFXXAB	Daikin Commercial Package Cooler,R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer, DDC-BACnet Protocol)								
DCC240XXX[3,4,7]VXXXBA	Daikin Commercial Package Cooler, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. 2-Speed Belt Drive. Release of models with new compressor.								
DCC300XXX[3,4,7]BXXXAA	Daikin Commercial Package Cooler, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Initial release of 25 Ton Daikin models.								
DCC300XXX[3,4,7]BXXXAB	Daikin Commercial Package Cooler, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Release of models with 1st stage of Low Ambient control as standard.								
DCC240XXX4BXXYAC	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Low-Ambient Kit. Return & Supply Air Smoke Detectors)								
DCC240XXX4BXXA[AB,AC]	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Non-Powered Convenience Outlet)								
DCC2400604BXXB[AB,AC]	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Powered Convenience Outlet)								
DCC1800317BXXCAB	Daikin Commercial Package Cooler, R-410A, 575V 3 Phase. Belt Drive. Factory Installed Options (Electric Heat, Low Ambient Kit)								
DCC300XXX4BXXDAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Return Air Smoke Detector)								
DCC240XXX3BXXQ[AA,AB]	Daikin Commercial Package Cooler, R-410A, 208/230V 3 Phase. Belt Drive. Factory Installed Options (Powered Convenience Outlet, Low Ambient Kit, Return Air Smoke Detector)								
DCC240XXX4BXXZAC	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Return & Supply Air Smoke Detector)								
DCC300XXX4VXXYAA	Daikin Commercial Package Cooler, R-410A ,460V 3 Phase. 2-Speed Belt Drive. Factory Installed Options (Low Ambient Kit, Return & Supply Smoke Detectors)								
DCC2400313BAXC[AA,AB]	Daikin Commercial Package Cooler, R-410A, 208/230V 3 Phase. Belt Drive. Factory Installed Options (Downflow Economizer, Low Ambient Kit)								
DCC3000464BAXNAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer, Powered Convenience Outlet, Return Air Smoke Detector)								
DCC240XXX[3,4,7]BBXXAA	Daikin Commercial Package Cooler, R-410A, 208-230V, 460V, 575V 3 Phase. Belt Drive. Factory Installed Options (DDC Control)								
DCC(180-240)XXX[3,4]BHXX[AA,AB,AC]	Daikin Commercial Package Cooler, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch)								
"DCC(180,240)[031,XXX][3,4]BHXA[AB,AC] DCC30000603BHXAAB"	Daikin Commercial Package Cooler, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch, Non-powered Convenience Outlet))								
DCC180XXX3BHXBAA	Daikin Commercial Package Cooler, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch, Powered Convenience Outlet))								
DCC[180,240]0604BJXF[AB,AC]	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Downflow Economizer, Disconnect Switch, Non-Powered Convenience Outlet, Low Ambient Kit)								
DCC180XXX4BJXOAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Downflow Economizer, Disconnect Switch, Powered Convenience Outlet, Return/Supply Air Smoke Detector)								
DCC3000604BJXXAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Downflow Economizer, Disconnect Switch)								
DCC2400604BHXAAC	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options. (Disconnect Switch (non-fused), Stan- dard Aluminized Heat Exchanger, Non-powered convenience outlet)								
DCC1800464BVDZAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options. (Low-Leak Downflow Economizer, Hinge Panels, Return & Supply air smoke detectors)								
DCC1800464BVDJAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options. (Low-Leak Downflow Economizer, Hinge Panels, Non-powered convenience outlet; Return & Supply air smoke detectors)								
DCC180XXX4VVDLAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Two Speed Belt Drive. Factory Installed Options. (Low-Leak Downflow Econ- omizer, Hinge Panels(3-12 1/2), Non-powered convenience outlet; Low ambient Kit; Return & Supply air smoke detectors)								
DCC3000314HXXXAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options. (Standard Aluminized Heat Exchanger)								
DCC240XXX4BXXZAC	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Return & Supply air smoke detectors)								
DCC180XXX4BBXXAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (DDC-BACnet protocol)								
DCC300XXX4BFXXAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low-Leak Downflow Economizer; DDC-BACnot protocol)								
DCC240XXX3VDXXBA	Daikin Commercial Package Cooler, R-410A, 230V 3 Phase. Two Speed Belt Drive. Factory Installed Options. (Low-Leak Downflow Econ- omizer, Hinge Panels(3-12 1/2), Non-powered convenience outlet; Low ambient Kit; Return & Supply air smoke detectors)								



Daikin Commercial Multiposition Package Coolers								
Model	Description							
"DCC180XXX3BXXXAB DCC240XXX3BXXXAC DCC300XXX3BXXXAC"	Daikin Commercial Package Cooler, R-410A, 208/230V 3 Phase. Belt Drive. Factory Installed Options (Standard Aluminized Heat Exchanger)							
"DCC180XXX4BXXXAC DCC240XXX4BXXXAD DCC300XXX4BXXXAD"	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Standard Aluminized Heat Exchanger)							
DCC300XXX4VVXCAA	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Low-Leak Downflow Economiz- er,Low-ambient kit)							
DCC240XXX4WXXXBA	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive.							
DCC240XXX3VBXXBA	Daikin Commercial Package Cooler, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (DDC-BACnet protocol)							
DCC1800464WWXYAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer; Disconnect Switch (non-fused); Low-ambient kit; Return & Supply Air Smoke Detector)							
DCC2400314VHDABA	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused); Hinged Panels; Non-powered convenience outlet)							
DCC2400463WHMLAA	Daikin Commercial Package Cooler, R-410A, 208-230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Electric Heat; Disconnect Switch (non-fused); Hinged Panels; Phase Monitor; Non-powered convenience outlet; Low-Ambient Kit; Return Air Smoke detector)							
DCC240XXX3VHBXBA	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused); Phase Monitor)							
DCC3000313WMXXAA	Daikin Commercial Package Cooler, R-410A, 208-230V 3 Phase. High Static. Factory Installed Options (Disconnect Switch (non-fused); DDC-BACnet Protocol; Standard Aluminized Heat Exchanger)							
DCC180XXX4VXXBAB DCC240XXX4VXXBBA	Daikin Commercial Package Cooler, R-410A,460V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Standard Aluminized Heat Exchanger; Powered convenience outlet)							
DCC180XXX4VXXZAB	Daikin Commercial Package Cooler, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Standard Aluminized Heat Exchanger; Return and Supply Air Smoke Detector)							
DCC1800313WHDBAA	Daikin Commercial Package Cooler, R-410A, 230V 3 Phase. Electric Heat Kit. High Static. Factory Installed Options (Disconnect Switch (non-fused); Hinged Panels; Powered Conveience Outlet)							
DCC300XXX3VHMBAA	Daikin Commercial Package Cooler, R-410A, 230V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non- fused); Hinged Panels; Phase Monitor; Powered Conveience Outlet)							
DCC1800463VWXBAA	Daikin Commercial Package Cooler, R-410A, 230V 3 Phase. Electric Heat. Twp-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Econimizer; Disconnect Switch (non-fused); Standard Aluminized Heat Exchanger; Powered Conveience Outlet)							
DCC1800313VXDPAA	Daikin Commercial Package Cooler, R-410A, 230V 3 Phase. Electric Heat. Twp-Speed Belt Drive. Factory Installed Options (Hinged Panels; Powered Conveience Outlet; Supply Air Smoke Detector)							

DCG***XXX**XXX

DC030400034 (2000) models with arm contentro classing DC0304000040XX4A Data Commercial Package Case, R-410A, 2007-200 3 Phase, 4407 3 Phase and 5707 3 Phase. Bet Drive. Factory installed optic (Unit Low Lask Dewrifton Economics) DC020400001XX7XAA Data Commercial Package Case, R-410A, 2007-200 3 Phase, 4407 3 Phase and 5707 3 Phase. Bet Drive. Factory installed optic (Unit Low Lask Dewrifton Economics) DC02040001X 7/D000A Data Commercial Package Case, R-410A, 2007-200 3 Phase, 4407 3 Phase and 5707 3 Phase. 25pect Biell Drive. Install release D000040001X 7/D000A D0001X00001X 7/D000A Data Commercial Package Case, R-410A, 4007 3 Phase. 4007 3 Phase and 5707 3 Phase. 25pect Biell Drive. Install release D0000400001X 7/D000A D0001X00001X000A Data Commercial Package Case, R-410A, 4007 3 Phase. 4007 3 Phase and 5707 3 Phase. 25pect Biell Drive. Taketage Case, R-410A, 4007 4 S707 3 Phase. 25pect Biell Drive. Taketage Case, R-410A, 4007 4 S707 3 Phase. 25pect Biell Drive. Taketage Case, R-410A, 4007 4 S707 3 Phase. 25pect Biell Drive. Release of models with consenser motor updates. D0001400001772000AB D0001X000007 Data Commercial Package Case, R-410A, 2007-200 3 Phase, 4007 3 Phase. 25pect Biell Drive. Release of models with consenser motor updates. D0001400001772000AB D0001X000007 Data Commercial Package Case, R-410A, 2007-200 3 Phase, 4007 3 Phase. Bet Drive. Factory installed optics Uncode Antioper Case, Case, Case, Case, A-410A, 2007-200 3 Phase, 4007 3 Phase and 5757 3 Phase. 25pect Biell Drive. Release of update Case, Case, Case, Case, Case, A-410A, 2007-200 3 Phase, 4007 3 Phase and 5757 3 Phase. 25pect Biel Dr		Daikin Commercial Multiposition Package Gas Units
D03844903, A. (2000) models with Some contention Plantage Case, R-4104, 2019 JPase, 4017 J Planas and 5707 J Planas. Bot Drive: Factory installed optin (Unit own Lesk Downhow Eccontention) D02634040000, A. (2000) Dealth Commercial Plantage Case, R-4104, 2019 JPase, 4007 J Planes and 5707 J Planes. Bot Drive: Factory installed optin (Unit own Lesk Downhow Ki, Restin A, Supply AI, Smack Dealtonsin). D0203404000, A. (2000) Dealth Commercial Plantage Case, R-410A, 2019 JPlane, 4007 J Planes and 5707 J Planes. Bot Drive: Factory installed optin (Unit own Lesk Downhow Ki, Restin A, Supply AI, Stratha J, 2019 JPlane, Bet Drive: Factory installed option (Low-Lesk Downhow Ki, Stratha J, 2019 JPlane). D0203404000, A. (2000) Dealth Commercial Plantage Case, R-410A, 4007 J Planes, Bet Drive: Factory installed optiona (Low-Lesk Downhow Eccontention). D0203404000, A. (2000) Dealth Commercial Plantage Case, R-410A, 4007 J Planes, Bet Drive: Factory installed optiona (Low-Lesk Downhow Eccontention). D0203404000, A. (2000) Dealth Commercial Plantage Case, R-410A, 4007 J Planes, Bet Drive: Factory installed option (Low-Lesk Downhow Eccontention). D0203404000, A. (2000) Dealth Commercial Plantage Case, R-410A, 4007 J S Planes, ADV J Planes, Bet Drive: Factory installed option (Low-Lesk Downhow Eccontention). D0203404000, A. (2000) Dealth Commercial Plantage Case, R-410A, 2004 2013 Planes, 4007 J Planes, Bet Drive: Factory installed option (Downhow Eccontention). D0203404000, A. (2000) Dealth Commercial Plantage Case, R-410A, 2004 2013 Planes, 4007 J Planes, Bet Drive: Factor	Model	Description
Uttra Low Les Dawflox Economizer) DCG2400404XXXAC Debta Communical Plackage Gas, R-110A, 289/230 3 Phase. 469/3 3 Phase and 578/3 Phase. Bet Dive, Factory Instaled optic Once-Ambient M R Repr. M Supply AI Smoke Debta, Cell 3 Phase. 469/3 3 Phase and 578/3 Phase. Bet Dive, Factory Instaled optic DCG3000003 A 7/XXXAA DCG20400003 A 7/XXXAA Daalan Communical Package Gas, R-410A, 289/230 3 Phase. 469/3 3 Phase and 578/3 Phase. 25;peot Brite Dive. Initial index DCG3000003 A 7/XXXAA DCG30400407XXAA Daalan Communical Package Gas, R-410A, 400/3 Phase. Bet Dive. Factory instaled options (Low Lesk Downflow Economizer) DCG30400407XXAAA Daalan Communical Package Gas, R-410A, 400/3 Phase. Bet Dive. Release of models with contenser modu updates. DCG30400407XXAAA Daalan Communical Package Gas, R-410A, 400/4 575/3 Phase. Bet Dive. Release of models with contenser modu updates. DCG30400407XXXAAB Daalan Communical Package Gas, R-410A, 400/4 575/3 Phase. 25;pecil Bitt Dive. Release of models with contenser modu updates. DCG30400107XXXAB Daalan Communical Package Gas, R-410A, 200/203 Phase. 400/3 Phase and 575/3 Phase. Bet Dive. Release of models with contenser modu updates. DCG30400107XXXAB Daalan Communical Package Gas, R-410A, 200/203 Phase. 400/3 Phase and 575/3 Phase. Bet Dive. Release of models with and communical Package Gas, R-410A, 200/203 Phase. 400/3 Phase and 575/3 Phase. Bet Dive. Release of models with and communical Package Gas, R-410A, 200/203 Phase. Bet Dive. Factory instaled option (Package Gas) DCG3040000104,770XXAB Daalan		Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Initial release of Daikin models with 5mm condenser coils.
Eva Antibiet N.R. Return & Supply Al-Shoke Detectors) DCG240400[14.7]BXXXAR Dakin Commercial Protage Gas. R410A. 2089/2013 Phase. 4607 3 Phase. Ret Drive. Retease of models were appressed. DCG240400[14.7]BXXXAR DCG240400[14.7]BXXXAR DCG240400[14.7]BXXXAR DCG304000[15.7]VXXXAR Dakin Commercial Protage Gas. R410A. 2089/2013 Phase. 4607 3 Phase. 2-Speed Bel Drive. Initial retease DCG304000[147]VXXAR DCG304000[147]VXXAR Dakin Commercial Protage Gas. R410A. 4097 3 Phase. Bet Drive. Retease of models with condenser motor upstate. DCG304000[147]VXXAR DCG304000[147]VXXAR Dakin Commercial Protage Gas. R410A. 4097 4 5757 3 Phase. Bet Drive. Retease of models with condenser motor upstate. DCG304000[147]VXXAR DAkin Commercial Protage Gas. R410A. 4097 4 5757 3 Phase. 4097 3 Phase and 5757 3 Phase. 5800 Phase Towns retor upstate. DCG304000[147]VXXAR Dakin Commercial Protage Gas. R410A. 2094/2013 Phase. 4007 3 Phase and 5757 3 Phase. 5800 Phase Towns retor upstate. DCG304000[147]VXXAR Dakin Commercial Protage Gas. R410A. 2094/2013 Phase. 4007 3 Phase and 5757 3 Phase. 5900 Phase Dhave Factory instaled option DCG304000[14,7]VXXAR Dakin Commercial Protage Gas. R410A. 2094/2013 Phase. 4007 3 Phase. 500 Phase Date Tork or instales of models with new compression DCG304000[14,7]VXXAR Dakin Commercial Protage Gas. R410A. 2094/2013 Phase. 4007 3 Phase. Bet Drive. Factory instaled option DCG304000[14,7]VXXAR Dakin Commercial Protage Gas. R410A. 2094/2013 Phase. 4007 3 Phase. Bet Drive. Factory instaled option DCG304000[14,7]VXXAR Dakin Commercial Protage Gas. R410A. 2092/2013 Phase. 4007 3 Phase. Bet Drive. Factory instaled options DCG304000[14,7]VXXAR Dakin Commercial Protage Gas. R410A. 2092/2013 Phase. Bet Drive. Factory instaled options DCG304000[14,7]VXXAR Dakin Commercial Protage Gas. R410A. 2092/2013 Phase. Bet Drive. Factory instaled options (Dave Phase). Bet Drive Factory instaled options (Dave Phas	DCG1803503VAXXAA	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Factory installed options (Ultra Low Leak Downflow Economizer)
compresso: Dockin Commercial Package Cas., R.410A, 200V-2013 Phase, 440V 3 Phase and 57EV 3 Phase. 2-Speed Bell Drive. Initial release DCC204000014, 71/XXXXAR DDCS10040014570/XXXAR Dakin Commercial Package Cas., R.410A, 400V 3 Phase. Bell Drive. Factory installed options (Low-Lask Downflow Economizer) DCC204000017/XXXAR DDCS10040014570/XXXAR Dakin Commercial Package Cas., R.410A, 400V & 7573 3 Phase. Bell Drive. Release of models with condenser motor update. DCC204000017/XXXAR DDCS10040014570/XXXAR Dakin Commercial Package Cas., R.410A, 400V & 6753 3 Phase. AB Drive. Release of models with condenser motor update. DCC204000018/EXAR Dakin Commercial Package Cas., R.410A, 200V 2013 Phase. AD 27V3 Phase Set Drive Factory installed DCC204000018/EXAR Dakin Commercial Package Cas., R.410A, 200V 2013 Phase. 400Y 3 Phase and 57V3 Phase. Set Drive Factory installed options (Dakin Accommercial Package Cas., R.410A, 200V 2013 Phase, 400Y 3 Phase and 57V3 Phase. Set Drive Factory installed options (Dakin Accommercial Package Cas., R.410A, 200V 2013 Phase, 400Y 3 Phase. Bet Drive. Factory installed options (Dakin Accommercial Package Cas., R.410A, 200V-2013 Phase, 400Y 3 Phase. Bet Drive. Factory installed options (Dakin Accommercial Package Cas., R.410A, 200V-2013 Phase, 400Y 3 Phase. Bet Drive. Eatory installed options (Dakin Accommercial Package Cas., R.410A, 200V-2013 Phase, 400Y 3 Phase. Bet Drive. Bet Drive. Release of models with new compression (DCC3004000134, 7)BXXXAA DDC3004000134, 7)BXXXAA Dakin Commercial Package Cas., R.410A, 2002 307 3 Phase. Bet Drive. Factory installed options (Downlead Cos menine OD CC200400013A/ACAB DDC3004000134, 7)BXXXAA Dakin Commercial Package Cas., R.41	DCG2404004BXXYAC	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Factory installed options (Low-Ambient Kit, Return & Supply Air Smoke Detectors)
DCC220000L7_T/XXXAA Dakin modes with 2 Specif Eveporator Fram Motor (California Title 24). DCC320040018/XXAB Dakin Commercial Package Gas. R-410A, 4607 3 Phase. Bet Drive. Release of models with condensem motor updates. DCC320040018/TXXXAB Dakin Commercial Package Gas. R-410A, 4607 4 S787 3 Phase. Bet Drive. Release of models with condensem motor updates. DCC320040018/TXXXAB Dakin Commercial Package Gas. R-410A, 4607 4 S787 3 Phase, 4607 3 Phase and 5787 3 Phase. Bet Drive. Release of models with condensem motor updates. DCC320040028X2AB Dakin Commercial Package Gas. R-410A, 2087-230 3 Phase, 4607 3 Phase and 5787 3 Phase. Bet Drive. Factory installed optics DCC320040028X5XAB Dakin Commercial Package Gas. R-410A, 2087-230 3 Phase, 4607 3 Phase and 5787 3 Phase. Bet Drive. Factory installed optic DCC3004007BX5XAB Dakin Commercial Package Gas. R-410A, 2087-230 3 Phase, 4607 3 Phase and 5787 3 Phase. Bet Drive. Release of models with comference package Gas. R-410A, 2087-230 3 Phase. 4607 3 Phase and 5787 3 Phase. Bet Drive. Release of models with accompression. DCC3004007BX5XAB Dakin Commercial Package Gas. R-410A, 2087-230 3 Phase. 46073 3 Phase. Bet Drive. Release of models with accompression. DCC3004007BX5XAB Dakin Commercial Package Gas. R-410A, 2087-230 3 Phase. Bet Drive. Factory installed options (Powered Convenience Dicc3004007BX50AA DCC3004007BX5XAB Dakin Commercial Package Gas. R-410A, 2087-230 3 Phase. Bet Drive. Factory installed options (Powered Convenience Dicc30040008X50AAAB)	DCG240400[3,4,7]BXXXAB	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Release of models with new compressor.
"DCG180350[47]BXXXAB Dakin Commercial Package Gas, R.410A, 460V & 572V 3 Phase, Bell Drive, Release of models with condenser motor updates. "DCG180350[47]BXXXAB Dakin Commercial Package Gas, R.410A, 460V & 572V 3 Phase, 450V 3 Phase, Bell Drive, Release of models with condenser motor updates. DCG240400[47]BXXAB Dakin Commercial Package Gas, R.410A, 460V & 572V 3 Phase, 460V 3 Phase, Bell Drive, Release of models with condenser motor updates. DCG240400[3,47]VXXXBA Dakin Commercial Package Gas, R.410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bell Drive, Release of models with new compressor. DCG300400[3,47]VXXXBA Dakin Commercial Package Gas, R.410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bell Drive, Release of models. DCG300400[3,47]BXXXAA Dakin Commercial Package Gas, R.410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bell Drive, Release of models. DCG300400[3,47]BXXXAA Dakin Commercial Package Gas, R.410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bell Drive, Release of models. TCG18036030XXBA Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bell Drive, Factory installed options (Non-Powered Convenience Dices/4400/4400/45030XXBA DCG304003BXXDAB Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bell Drive, Factory installed options (Non-Powered Convenience Disputy) All Smite Detector) DCG304003BXXDAB Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bell Drive, Factory installed options (Non-Powered Convenience Disputy) All Smite Detector)	DCG240400[3,4,7]VXXXAA	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. 2-Speed Belt Drive. Initial release of Daikin models with 2 Speed Evaporator Fan Motor (California Title 24).
DCG32440047H3XXXA8 Dakin Commercial Package Gas, R-410A, 400V & 575V 3 Phase, 2-Speed Belt Drive, Release of models with condenser motor up DCG3244003BXZA8 DCG324400314/YVXXA8 Dakin Commercial Package Gas, R-410A, 200V-200 3 Phase, 400V 3 Phase, and 577V 3 Phase. Belt Drive, Factory installed optic Low-Laak Downflow Economizer, Dasonnest Switch (non-fused), Stainless Steel Heat Exchanger, Return & Supply Air Smoke Del Commercial Package Gas, R-410A, 200V-200 3 Phase, 400V 3 Phase and 577V 3 Phase. Belt Drive, Retease of in win, new compresson. DCG3004007EXISXA8 Dakin Commercial Package Gas, R-410A, 200V-200 3 Phase, 400V 3 Phase and 575V 3 Phase. Belt Drive, Retease of in win, new compresson. DCG3004007EXISXA8 Dakin Commercial Package Gas, R-410A, 200V-200 3 Phase, 400V 3 Phase and 575V 3 Phase. Belt Drive, Retease of models validated optic (Sammercial Package Gas, R-410A, 200V-200 3 Phase, 400V 3 Phase and 575V 3 Phase. Belt Drive, Retease of models validated optic (Sammercial Package Gas, R-410A, 200V-200 3 Phase, 400V 3 Phase and 575V 3 Phase. Belt Drive, Retease of models validated optic (Sammercial Package Gas, R-410A, 200-230V 3 Phase. Belt Drive, Factory installed options (Powered Convenience DCG240400498XX6AC DCG30040015X,174 Dakin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive, Factory installed options (Norwered Convenience Outperced) DCG30400045XX6AC Dakin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive, Factory installed options (Suppl AI Smoke Delector) DCG3040049XX6AA Dakin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive, Factory installed options (Low Anthiert KIR, Return A Smoke Delector)	DCG3004004BVXXAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low-Leak Downflow Economizer)
DCC23404064/T/00SCM6 ⁴¹ Delatin Commercial Package Gas, R-410A. 208/200 3 Phase, 460V 3 Phase and 57EV 3 Phase. Bet Drive. Factory installed optic Low-Leak Downford Economics. Disconnect Switch (nor-lucad), Stainless Steel Heat Exchanger, Return & Suppl Art Smoke Det Drive. Factory installed optic With new compressor. DCG24040034.JT/JSXXAB Dakin Commercial Package Gas, R-410A, 208/200 3 Phase, 460V 3 Phase and 57EV 3 Phase. Bet Drive. Factory installed optic (Stainless Steel Heat Exchanger) DCG300400[64.7]BXXAB Dakin Commercial Package Gas, R-410A, 208/2303 3 Phase, 460V 3 Phase and 57EV 3 Phase. Bet Drive. Factory installed optic (Stainless Steel Heat Exchanger) DCG300400[54.7]BXXAB Dakin Commercial Package Gas, R-410A, 208/2303 3 Phase, 460V 3 Phase and 57EV 3 Phase. Bet Drive. Factory installed optics (Stainless Steel Heat Exchanger) DCG300400[54.7]BXXAB Dakin Commercial Package Gas, R-410A, 208/2303 3 Phase, 460V 3 Phase and 57EV 3 Phase. Bet Drive. Factory installed options (Powered Convenience DCG24040048XXB4A) DCG300400[54.7]BXXAB Dakin Commercial Package Gas, R-410A, 208/230V 3 Phase. Bet Drive. Factory installed options (Rourn Alr Smoke Detector) DCG30404095XXAA Dakin Commercial Package Gas, R-410A, 208/230V 3 Phase. Bet Drive. Factory installed options (Suppl Alr Smoke Detector) DCG30404095XXAA Dakin Commercial Package Gas, R-410A, 208/230V 3 Phase. Bet Drive. Factory installed options (Suppl Alr Smoke Detector) DCG30404095XXAA Dakin Commercial Package Gas, R-410A, 208/230V 3 Phase. Bet Drive. Factory installed options (Low Antient KiR, Return A		Daikin Commercial Package Gas, R-410A, 460V & 575V 3 Phase. Belt Drive. Release of models with condenser motor updates.
Low-Lack Downlow Economizer, Disconnect Switch (non-funder), Stainless Steel Heat Exchanger, Return & Supply Art Smoke Det DCG20400[3,4,7]0X0XBA Data Commorcial Package Gas, R410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bet Drive, Factory installed optic Galaritess Steel Heat Exchanger) DCG300400[3,4,7]BXXXAA Data Commorcial Package Gas, R410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bet Drive, Factory installed optic Galaritess Steel Heat Exchanger) DCG300400[3,4,7]BXXXAA Data Commorcial Package Gas, R410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bet Drive, Retease of models staged of Low Arbited control as stainadra. DCG300400[3,4,7]BXXXAA Data Commorcial Package Gas, R410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bet Drive, Retease of models staged of Low Arbited control as stainadra. DCG1003503BXXE[AA AB] Data Commorcial Package Gas, R410A, 208-230V 3 Phase. Bet Drive, Factory installed options (Return Ar Smoke Detector) DCG1003503BXXE[AA Data Commorcial Package Gas, R410A, 208-230V 3 Phase. Bet Drive, Factory installed options (Non-Powered Convenience O Biophy Ar Smoke Detector) DCG1003503BXXE[AA Data Commorcial Package Gas, R410A, 208-230V 3 Phase. Bet Drive, Factory installed options (Non-Powered Convenience O Biophy Ar Smoke Detector) DCG1003003BXXE[AA AB] Data Commorcial Package Gas, R410A, 208-230V 3 Phase. Bet Drive, Factory installed options (Non-Powered Convenience O Biophy Ar Smoke Detector) DCG2040003BXSDAB Data Commorcial Package Gas, R410A, 208-230V 3 Phase. Bet Drive, Factory installed options (Non-Pow		Daikin Commercial Package Gas, R-410A, 460V & 575V 3 Phase. 2-Speed Belt Drive. Release of models with condenser motor updates.
with new compressor. DCG3004007BXSXAB Dakin Commercial Package Gas, R.410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bet Drive. Factory installed optic (stainless Steel Heat Exchanger) DCG300400[3.4.7]BXXXAA Dakin Commercial Package Gas, R.410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bet Drive. Initial release of 25 T Dakin models. DCG300400[3.4.7]BXXXAA Dakin Commercial Package Gas, R.410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Bet Drive. Release of models v asian or DCG24040048XXE(A.AB) DCG1803503BXXE(A.AB) Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bet Drive. Factory installed options (Powered Convenience DCG24040048XXE) DCG1803503BXXEAA Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bet Drive. Factory installed options (Non-Powered Convenience DCG24040048XXAB DCG1803503BXXEAA Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bet Drive. Factory installed options (Non-Powered Convenience OL Supply Air Smoke Detector) DCG2404004BXXQAB Dakin Commercial Package Gas, R.410A, 400V 3 Phase. Bet Drive. Factory installed options (Non-Powered Convenience OL Supply Air Smoke Detector) DCG3004004VXXYAA Dakin Commercial Package Gas, R.410A, 400V 3 Phase. Bet Drive. Factory installed options (Clow Ambient KII, Return & Smoke Detector) DCG2404004BXXQAB Dakin Commercial Package Gas, R.410A, 208-230V 460V 3 Phase. Bet Drive. Factory installed options (Low Ambient KII, Return & Smoke Detector) DCG3404004BXXQAB Dakin Commercial	DCG2404003BJSZAB	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Factory installed options (Ultra Low-Leak Downflow Economizer, Disconnect Switch (non-fused), Stainless Steel Heat Exchanger, Return & Supply Air Smoke Det
(Stainless Steel Heat Exchanger) DCG300400(3,4,7]BXXXAA Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Initial release of 25 T Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Release of models visual explored on the standard. TDCG1003503BXXX[AA,AB] Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience DCG2404004BXXDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience DCG2404004BXXDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience DCG2404004BXXDAB DCG1003503BXXEAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience OCG2404004BXXDAB DCG2404004BXXDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience OCG2404004BXXDAB DCG3004004VXXYAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Sett Drive. Factory installed options (Low Ambient Kit, Return AI Smoke Detector) DCG2404003BXSDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Low Ambient Kit, Return AI Smoke Detector) DCG2404003BXSDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Low Law Low Ambient Kit, Return AI Smoke Detector) DCG240400034X7J	DCG240400[3,4,7]VXXXBA	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. 2-Speed Belt Drive. Release of models with new compressor.
Dakin models. Dakin Commercial Package Gas, R.410A, 208-230V & 460V 3 Phase and 575V 3 Phase. Bell Drive. Release of models v stage of Low Ambient control as standard. "DCG3004003,4,7]BXCKAA Dakin Commercial Package Gas, R.410A, 208-230V & 460V 3 Phase. Bell Drive. Factory Installed options (Return Air Smoke Detector) DCG24040008XXBIAA Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bell Drive. Factory Installed options (Return Air Smoke Detector) DCG1803503BXXHAA Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bell Drive. Factory Installed options (Non-Powered Convenience OL Supply Air Smoke Detector) DCG1803503BXXHAA Dakin Commercial Package Gas, R.410A, 208-230V 3 Phase. Bell Drive. Factory Installed options (Non-Powered Convenience OL Supply Air Smoke Detector) DCG3004004VXXYAA Dakin Commercial Package Gas, R.410A, 460V 3 Phase. Bell Drive. Factory Installed options (Non-Powered Convenience OL Supply Air Smoke Detector) DCG2404003BXSDAB Dakin Commercial Package Gas, R.410A, 460V 3 Phase. Bell Drive. Factory Installed options (Non-Powered Convenience OL Suppl Air Smoke Detector) DCG2404003BXSDAB Dakin Commercial Package Gas, R.410A, 460V 3 Phase. Bell Drive. Factory Installed options (Stainless Steel Haet Exchange Air Smoke Detector) DCG2404003BXSDAB Dakin Commercial Package Gas, R.410A, 208-230V, 460V & 575V 3 Phase. Bell Drive. Factory Installed options (Stainless Steel Haet Exchange Air Smoke Detector) DCG2404003BXSDAB Dakin Commercial Package Gas, R.410A, 208-230V, 460V & 575V 3 Ph	DCG3004007BXSXAB	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchanger)
stage of Low Ambient control as standard. "DCC1803505EXXB[AAAB] DCC240400[SXXBAC" Daikin Commercial Package Gas, R-410A, 206-230V & 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience DCC2404003EXXDAB DCC18003505EXXEAA Daikin Commercial Package Gas, R-410A, 206-230V 3 Phase. Belt Drive. Factory installed options (Rourn Air Smoke Detector) DCC18003503EXXEAA Daikin Commercial Package Gas, R-410A, 206-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience O Supply Air Smoke Detector) DCG2404004BXXQAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience O Supply Air Smoke Detector) DCG2404004BXXQAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Ambient Kit, Return Air Smoke Detector) DCG2404003BXSDAB Daikin Commercial Package Gas, R-410A, 206-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Air Smoke Detector) DCG2404003BXSDAB Daikin Commercial Package Gas, R-410A, 206-230V, 460V 3 S7SV 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Air Smoke Detector) DCG180350[3,7]BAXX[AA, AB] Daikin Commercial Package Gas, R-410A, 206-230V, 460V 3 S7SV 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, DCG180350[3,7]BAXX[AA, AB] Daikin Commercial Package Gas, R-410A, 206-230V, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, NCG180350[3,7]BAXX[AA, AB, C)* Daikin Commercial Package Gas, R-41	DCG300400[3,4,7]BXXXAA	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Initial release of 25 Ton Daikin models.
DCG2404004EXXBAC* Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Return Air Smoke Detector) DCG1803503EXXEAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Supply Air Smoke Detector) DCG1803503EXXEAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Outlet, Low Kit, Return Air Smoke Detector) DCG204004DXXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Jest Drive. Factory installed options (Low Ambient Kit, Return Air Smoke Detector) DCG304004VXXYAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Jest Drive. Factory installed options (Low Ambient Kit, Return Air Smoke Detector) DCG2404003EXSDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Low Ambient Kit, Return Air Smoke Detector) DCG18035013,4.7IBXXAA Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Het Exchanger) DCG18035012,7IBAXIAA ABJ Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, Devered Convenience outlet) DCG18035012,7IBAXIAA ABJ, COmmercial Package Gas, R-410A, 208-230V, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Powered Convenience outlet) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 400V 3 Phase. Belt Drive. Factory	DCG300400[3,4,7]BXXXAA	Daikin Commercial Package Gas, R-410A, 208V-230 3 Phase, 460V 3 Phase and 575V 3 Phase. Belt Drive. Release of models with 1st stage of Low Ambient control as standard.
DCG1803503BXXEAA Dalkin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Outsupply Air Smoke Detector) DCG1803503BXXIAA Dalkin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Outlet, Low Kit, Return Air Smoke Detector) DCG3004004VXXYAA Dalkin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience Outlet, Low Kit, Return Air Smoke Detector) DCG3004004VXXYAA Dalkin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Ambient Kit, Return & Smoke Detector) DCG18035013,4.7[BXSXAA Dalkin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Air Smoke Detector) *DCG18035013,7[BXSXAA Dalkin Commercial Package Gas, R-410A, 208-230V, 460V 8 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchanger) *DCG18035013,7[BXXXIAA, BB] Dalkin Commercial Package Gas, R-410A, 208-230V, 460V 8 575V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Econom ***********************************		Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience Outlet)
DCG1803503BXXHAA Dalkin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Ou Supply Air Smoke Detector) DCG304004BXXQAB Dalkin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Outlet, Low kit, Return Air Smoke Detector) DCG3004004VXXYAA Dalkin Commercial Package Gas, R-410A, 460V 3 Phase. Set Drive. Factory installed options (Low Ambient Kit, Return Air Smoke Detector) DCG2404003BXSDAB Dalkin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Air Smoke Detector) *DCG180350[3,4,7]BXSXAA Dalkin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Air Smoke Detector) *DCG180350[3,4,7]BXSXAA Dalkin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Econ "DCG180350J3,TJBAXX[AA, AB,C]" DCG1803504WXXAB Dalkin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Powered Convenience outlet) DCG1803503BAXCAA Dalkin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Powered Convenience outlet) DCG1803503BAXCAA Dalkin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Powered Convenience outlet) DCG1803503BAXCAA D	DCG2404003BXXDAB	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Return Air Smoke Detector)
Supply Air Smoke Detector) DCG2404004BXXQAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience Outlet, Low KIT, Return Mr Smoke Detector) DCG3004004VXXYAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Ambient KIT, Return & Smoke Detector) DCG24040038XSDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Ar Smoke Detector) "DCG180350[3,4,7]BXXAA Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange) "DCG180350[3,4,7]BXXAA Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economic) "DCG180350[3,7]BAXX[AA,AB] Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, DCG240400(3)3,X]BAXX[AA,ABA,C]" DCG1803503BAXAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An KII) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An KII) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An KII) DCG2404000[3,4,7]BBXXAA Da	DCG1803503BXXEAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Supply Air Smoke Detector)
Kit, Return Air Smoke Detector) DCG3004004VXXYAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Ambient Kit, Return & Smoke Detector) DCG2404003BXSDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Air Smoke Detector) "DCG180350[3,4,7]BXSXAA Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Hexchanger) DCG2404003BXSIAA Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Econ "DCG180350[3,7]BAXX[AA,AB] Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Econ DCG240400]3,4,7]BAXX[AA,AB,C]" Daikin Commercial Package Gas, R-410A, 208-230V, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Econ DCG240400]3,4,7]BAXX[AA,AB,C]" "DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Smoke Detector) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Doc Control) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Doc Control) </td <td>DCG1803503BXXHAA</td> <td>Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Outlet, Supply Air Smoke Detector)</td>	DCG1803503BXXHAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Outlet, Supply Air Smoke Detector)
Smoke Detector) DCG2404003BXSDAB Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchange Ar Smoke Detector) "DCG180350[3,4,7]BXSXAA DCG2404003BXSX[AA,AB]" Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel H Exchanger) DCG180350[3,7]BAXX[AA,AB] Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Leak Downflow Econ "DCG18035013,7]BAXX[AA,AB,AC]" DCG240400[3,7]BAXX[AA,AB,AC]" Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Econ "DCG1803503BAXCAA, AB,AC]" DCG240400[3,4]BAXX[AA,AB,AC]" Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Powered Convenience outlet) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Doc Control) "DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Ph	DCG2404004BXXQAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience Outlet, Low Ambient Kit, Return Air Smoke Detector)
Air Smoke Detector) Air Smoke Detector) "DCG180350[3.4.7]BXSXAA DCG2404003BXSX[AA.AB]" Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel H Exchanger) DCG180350304VVXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Leak Downflow Econ "DCG1803503(3,7]BAXX[AA,AB.AC]" Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Econ "DCG1803503BAXXAB DCG240400[3,4]BAXA[AA,AB,AC]" Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, DCG240400[3,4]BAXA[AA,B,AC]" Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Smoke Detector) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered Convenience Outlet) DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Econo	DCG3004004VXXYAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Ambient Kit, Return & Supply Smoke Detector)
DCG2404003BXSX[AA,AB]" Exchanger) DCG1803504VVXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Leak Downflow Econ "DCG180350[3,7]BAXX[AA,AB] Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, DCG240400[3,4,7]BAXX[AA,AB,C]" "DCG1803504BXXAB Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, DCG240400[3,4]BAXA[AA,AB,AC]" DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Smoke Detector) DCG2400400[3,4,7]BBXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803503ABHXAAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Non-Powered Convenience Outlet) "DCG1803503ABHXAAB Daikin Commercial Package Gas, R-410A, 46	DCG2404003BXSDAB	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchanger, Return Air Smoke Detector)
"DCG180350[3,7]BAXX[AA,AB] Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Downflow Economizer, Powered Convenience outlet) "DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Powered Convenience outlet) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Smoke Detector) DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803504BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Deconduct) "DCG1803503BHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) "DCG1803503BHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, DecG2404004BJXFAC <th< td=""><td></td><td>Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchanger)</td></th<>		Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchanger)
DCG240400[3,4,7]BAXX[AA,AB,AC]" ""DCG1803504BAXAAB DCG240400[3,4]BAXA[AA,AB,AC]" Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Powered Convenience outlet) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Smoke Detector) DCG2400400[3,4,7]BBXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803504BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Non-Powered Convenience Outlet) DCG1803503BHXXAB Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, D nect Switch, Non-Powered Convenience Outlet) DCG1803503BHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase	DCG1803504VVXXAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Leak Downflow Economizer)
DCG240400[3,4]BAXA[AA,AB,AC]" Powered Convenience outlet) DCG1803503BAXCAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low An Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Smoke Detector) DCG2400400[3,4,7]BBXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803504BHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered Cnience Outlet) DCG1803504BHXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Non-Powered Cnience Outlet) "DCG180350[3,4]BJXBAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Powered Convenience Outlet) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, Dec2404004BJXFAC DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Ph		Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer)
Kit) DCG1803503BAXDAA Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Smoke Detector) DCG2400400[3,4,7]BBXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) "DCG1803503BHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803504BHXAAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered C nience Outlet) "DCG180350[3,4]BJXBAB Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Powered Convenience Outlet) DCG2404004BJXFAC Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, nect Switch, Powered Convenience Outlet, Low Ambient Kit) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, Detection) DCG2404004BJXFAC Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (not nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit.) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 4		Daikin Commercial Package Gas, R-410A,208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Non Powered Convenience outlet)
Smoke Detector) DCG2400400[3,4,7]BBXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control) "DCG1803503BHXXAA DCG[240,300]4004BHXX[AB,AC]" Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803504BHXAAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803504BHXAAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered Convenience Outlet) "DCG180350[3,4]BJXBAB DCG2404004BJXBAC" Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Powered Convenience Outlet) DCG2404004BJXFAC Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (non Non-Powered Convenience Outlet, Low Ambient Kit.)	DCG1803503BAXCAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low Ambient Kit)
"DCG1803503BHXXAA DCG[240,300]4004BHXX[AB,AC]" Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch) DCG1803504BHXAAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered C nience Outlet) "DCG180350[3,4]BJXBAB DCG2404004BJXBAC" Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Powered Convenience Outlet) DCG2404004BJXFAC Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, D nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, D nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (non Non-Powered Convenience Outlet, Low Ambient Kit.)	DCG1803503BAXDAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Air Smoke Detector)
DCG[240,300]4004BHXX[AB,AC]" DCG[240,300]4004BHXX[AB,AC]" DCG1803504BHXAAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered Convenience Outlet) "DCG180350[3,4]BJXBAB DCG2404004BJXBAC" Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Powered Convenience Outlet) DCG2404004BJXFAC Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, D nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (non Powered Convenience Outlet, Low Ambient Kit.)	DCG2400400[3,4,7]BBXXAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control)
nience Outlet) "DCG180350[3,4]BJXBAB DCG2404004BJXBAC" Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Powered Convenience Outlet) DCG2404004BJXFAC Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, D nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (non Non-Powered Convenience Outlet, Low Ambient Kit.)		Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch)
DCG2404004BJXBAC" nect Switch, Powered Convenience Outlet) DCG2404004BJXFAC Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, D nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit) DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (non Non-Powered Convenience Outlet, Low Ambient Kit.)	DCG1803504BHXAAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered Convenience Outlet)
DCG1803503BHXFAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (not Non-Powered Convenience Outlet, Low Ambient Kit.)		Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Switch, Powered Convenience Outlet)
Non-Powered Convenience Outlet, Low Ambient Kit.)	DCG2404004BJXFAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, Discon- nect Switch, Non-Powered Convenience Outlet, Low Ambient Kit)
	DCG1803503BHXFAA	Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch (non fused), Non-Powered Convenience Outlet, Low Ambient Kit.)
"DCG180350[3,4]BJXGAA Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, nect Switch, Non-Powered Convenience Outlet, Return Air Smoke Detector)	"DCG180350[3,4]BJXGAA DCG2404004BJXG[AB,AC]"	Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Discon- nect Switch, Non-Powered Convenience Outlet, Return Air Smoke Detector)
"DCG1803504BJXOAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Powered Convenience Outlet, Return/Supply Air Smoke Detector)		Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Switch, Powered Convenience Outlet, Return/Supply Air Smoke Detector)
DCG2404004BJXR[AB,AC] Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Powered Convenience Outlet, Low Ambient Kit, Supply Air Smoke Detector)	DCG2404004BJXR[AB,AC]	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Switch, Powered Convenience Outlet, Low Ambient Kit, Supply Air Smoke Detector)



	Daikin Commercial Multiposition Package Gas Units
Model	Description
"DCG180350[3,4]BJXNAA DCG2404003BJXN[AA,AB]"	Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Switch, Powered Convenience Outlet, Return Air Smoke Detector)
DCG1803504BXXDAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Return Air Smoke Detector)
DCG1803503VVXDAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Leak Downflow Econo- mizer, Return Air Smoke Detector)
"DCG1803504BVXXAC DCG2404004BVXXAC"	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer)
"DCG1803503BXXB[AA,AB] DCG2404004BXXBAC"	Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience Outlet)
DCG2404003BXXDAB	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Return Air Smoke Detector)
DCG1803503BXXEAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Supply Air Smoke Detector)
DCG1803503BXXHAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Non-Powered Convenience Outlet, Supply Air Smoke Detector)
DCG2404004BXXDAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options Return Air Smoke Detector)
DCG2404004BXXQAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Powered Convenience Outlet, Low Ambier Kit, Return Air Smoke Detector)
DCG3004004VXXYAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Ambient Kit, Return & Supply Smoke Detector)
DCG2404003BJXUAB	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Ultra Low Leak Downflow Economized Disconnect Switch (Non Fused), Non Powered Convenience Outlet, Low Ambient Kit, Return Air Smoke Detector)
DCG2404003BXSDAB	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchanger, Retu Air Smoke Detector)
"DCG180350[3,4,7]BXSXAA DCG2404003BXSX[AA,AB]"	Daikin Commercial Package Gas, R-410A, 208-230V,460V & 575V 3 Phase. Belt Drive. Factory installed options (Stainless Steel Heat Exchanger)
DCG1803504VVXXAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Leak Downflow Economizer
"DCG180350[3,7]BAXX[AA,AB] DCG240400[3,4,7]BAXX[AA,AB,AC]"	Daikin Commercial Package Gas, R-410A, 208-230V, 460V & 575V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer)
"DCG1803504BAXAAB DCG240400[3,4]BAXA[AA,AB,AC]"	Daikin Commercial Package Gas, R-410A,208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Non Powered Convenience outlet)
DCG1803503BAXCAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Low Ambient Kit)
DCG1803503BAXDAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Return Air Smoke Detector)
DCG2400400[3,4,7]BBXXAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (DDC Control)
"DCG1803503BHXXAA DCG[240,300]4004BHXX[AB,AC]"	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch)
DCG1803504BHXAAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Non-Powered Convenience Outlet)
DCG2404007VHXA[AB,BA]	Daikin Commercial Package Gas, R-410A, 575V 3 Phase. 2-Speed Belt Drive. Factory installed options (Disconnect Switch, Non-powered Convenience Outlet)
DCG2404003BHXB[AA,AB]	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Powered Convenience Outlet)
DCG1803504VHXEAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. 2-Speed Belt Drive. Factory installed options (Disconnect Switch, Supply Air Smoke Detector)
"DCG1803504BHXNAB DCG2404004BHXNAB"	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Disconnect Switch, Powered Convenience Outlet, Return Air Smoke Detector)
DCG2404003BJXAAB	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Switch, Non-Powered Convenience Outlet)
"DCG180350[3,4]BJXBAB DCG2404004BJXBAC"	Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disco nect Switch, Powered Convenience Outlet)
DCG2404004BJXFAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer, Disconnect Switch, Non-Powered Convenience Outlet, Low Ambient Kit)
"DCG180350[3,4]BJXGAA DCG2404004BJXG[AB,AC]"	Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disco nect Switch, Non-Powered Convenience Outlet, Return Air Smoke Detector)
"DCG1803504BJXOAB DCG2404004BJXOAB"	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Switch Powered Convenience Outlet, Return/Supply Air Smoke Detector)
DCG2404004BJXR[AB,AC]	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disconnect Switch Powered Convenience Outlet, Low Ambient Kit, Supply Air Smoke Detector)
"DCG180350[3,4]BJXNAA DCG2404003BJXN[AA,AB]"	Daikin Commercial Package Gas, R-410A, 208-230V & 460V 3 Phase. Belt Drive. Factory installed options (Downflow Economizer, Disco nect Switch, Powered Convenience Outlet, Return Air Smoke Detector)
	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. 2-Speed Belt Drive. Factory installed options (Low Leak Downflow Econo-
DCG1803503VVXDAA	mizer, Return Air Smoke Detector)

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Model	Description
"DCG1803504BVXXAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory installed options (Low Leak Downflow Economizer)
DCG2404004BVXXAC"	Deilin Commercial Declare Cos D 4404-202 2201/2 Dhose Del Drive Fester Jackelled Ostions // litre Law Lask Develous Festeration
DCG2404003BAXXAB DCG[240,300]4003BJXGAB	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer
DCG1803504BHXOAB	Disconnect Switch (Non-Fused), Non-Powered Convenience Outlet, Return Air Smoke Detector Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused) Standard
	Aluminized Heat Exchanger, Powered convenience outlet; Return & Supply air smoke detectors)
DCG2404004BXXZAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Standard Aluminized Heat Exchanger, return & Supply air smoke detectors)
DCG1803504BJXDAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low-Leak Downflow Economizer; Disconnect switch (non-fused), Standard Aluminized Heat Exchanger, Return air smoke detector)
DCG2404004BHSAAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Stainless Steel Heat Exchanger, Non-powered convenience outlet)
DCG1803503BWXDAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer: Disconnect Switch (non-fused), Standard Aluminized Heat Exchanger, Return air smoke detector)
DCG3004004BJJXAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low-Leak Downflow Economizer; Disconnect switch (non-fused), Stainless Steel Gas Heat Exchanger; Phase Monitor)
DCG2404004BWXHAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer; Discon nect Switch (non-fused), Standard Aluminized Heat Exchanger, Non-powered convenience outlet; Supply air smoke detector)
DCG2404004BVSXAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Stainless Steel Heat Exchanger)
DCG3004004BHDXAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect switch (non-fused), Hinge Panels (3-12 1/2)
DCG1803503BWDGAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Low-leak Downflow Economizer; Disconnect Switch (non-fused), Hinge Panels (3-12 1/2 Tons), Non-powered convenience outlet; Return air smoke detector)
DCG1803503HXXXAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Blower Belt Assembly)
"DCG1803503HHKBAA DCG2404003HHKBAB"	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Hing Panels (3-12 1/2 Tons), Powered convenience outlet)
DCG3004004BVDBAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options Low-Leak Downflow Economizer, Hinge
DCG1803503BHDDAA	Panels (3-12 1/2 Tons), Powered convenience outlet) Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Hing Darab (2.444/0 Tana)
DCG1803504BFXXAB	Panels (3-12 1/2 Tons), Return air smoke detector) Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low-Leak Downflow Economizer)
DCG2404004BHDGAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Hinge
DCG1803504BXXCAB	Panels (3-12 1/2), Non-powered convenience outlet; Return air smoke detector) Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Low Ambient Kit)
DCG2404004BHDJAC	Daikin Commercial Package Gas, R-410A, 400V 3 Phase. Belt Drive. Factory Installed Options (Low Antibient Rtr) Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Hinge
DOCENTIONEDIDORO	Panels (3-12 1/2),Non-powered convenience outlet; Return & Supply air smoke detectors)
DCG1803503BHXJAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused),Non-pow ered convenience outlet; Return & Supply air smoke detectors)
DCG1803503BHXGAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-pow ered convenience outlet; Return & Supply air smoke detectors)
DCG1803503BHSGAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Stainless Steel Heat Exchanger, Non-powered convenience outlet; Return & Supply air smoke detectors)
DCG2404004VFDDBA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two Speed Belt Drive. Factory Installed Options (Ultra Low-Leak Downflow Economizer, DDC-BACnet protocol, Hinge Panels (3-12 1/2), Return air smoke detector)
DCG2404004BRXDAC	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect switch (nonfused); DDC- BACnet protocol, Return air smoke detector)
DCG2404003VRXXBA	Daikin Commercial Package Gas, R-410A, 230V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect switch (nonfused); DDC- BACnet protocol)
"DCG2404004BFXXAC DCG3004004BFXXAB"	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Ultra Low-Leak Downflow Economizer; DDC-BACnet protocol)
DCG1803504BVXZAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer; Return air supply smoke detector)
DCG1803503VHXAAA	Daikin Commercial Package Gas, R-410A, 230V 3 Phase. Two Speed Belt Drive. Factory Installed Options (Disconnect Switch(Non- fused), Non-powered Convenience outlet)
DCG1803504BBXXAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (DDC-BACnet protocol)
DCG1803503VHDDAA	Daikin Commercial Package Gas, R-410A, 230V 3 Phase. Two Speed Belt Drive. Factory Installed Options (Disconnect Switch(Non-
DCG1803503V1DDAA	fused),Hinge Panels (3-12 1/2 Tons), Return air smoke detector) Daikin Commercial Package Gas, R-410A, 230V 3 Phase. Two Speed Belt Drive. Factory Installed Options (HGRH DDC Controls, Hinge
D002404002DV///40	Panels (3 12 1/2 Tons), Return air smoke detector) Deilvin Commercial Declares Cas. B 4104, 4001/2 Phase. Belt Drive. Factory Installed Options, (Standard Aluminized Liest Evaluation)
DCG2404003BXXXAC DCG2404004BXXXAD	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Standard Aluminized Heat Exchanger) Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Belt Drive. Factory Installed Options (Standard Aluminized Heat Exchanger)
DCG2404004VFMCBA	Daikin Commercial Package Gas, R-410A, 400V 3 Phase. Beit Drive. Factory Installed Options (Standard Aluminized Reat Exchanger) Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two Speed Belt Drive. Factory Installed Options (Ultra-Low-Leak Downflow
	Economizer; DDC-BACnet protocol, Hinge Panels (3-12 1/2 Tons), Low Ambient kit)



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(Non-Face) Basiness Bield Hall Exchange, Prevented Coherence curuley DC51030351/VXXAA Dahl Commercial Package Gas, R-10A, 2073 PhaseTro Speed Bell Dive, Factory Installed Options (Low Leak Down Row Coherenles) DC51030351/VXXAA Dahls Commercial Package Gas, R-10A, 2073 PhaseTro Speed Bell Dive, Factory Installed Options (Low Leak Down Row Coherenles) DC51030351/VXXAA Dahls Commercial Package Gas, R-10A, 2073 PhaseTrow Speed Bell Dive, Factory Installed Options (Low Leak Down Row Coherenles) DC51030351/VXXBA Dahls Commercial Package Gas, R-410A, 2073 Phase Bell, Factory Installed Options (Low Leak DownRow Economize, Hings Dawls Coherenles) DC51003047/VXDA Dahls Commercial Package Gas, R-410A, 4073 Phase Bell Dive, Factory Installed Options (Low Leak DownRow Economize, Hings Dawls Coherenles), Hings Dawls Coherence (Low Leak DownRow Economize, Hings Dawls Coherence (Low Leak DownRow Economize, Hings Dawls Coherence), Hings Dawls Coherence (Low Leak DownRow Economize, Hings Dawls Coherence), DC5100307/VXDAA DC5100307/VXDAA Dahls Commercial Package Gas, R-410A, 4073 Phase High State Bit Dive, Factory Installed Options (Low-Leak DownRow Economize), Hings Dawls Coherence (Low Leak DownRow Economize), Hings Dawls Daw	DCG1803504VHSNAB	
Economics Economics DC52484064VHEXIA Deskin Commission Package Case, R-410A. 460V 3 Preser Too Speed Bet Dive. Factory Installed Options (Low Leak Down Row Economics, Disconnet Studiet, Institute, Institu	DCG2404004WHSNBA	
Phase Monitori Phase Monitori DCG180050VW0RA Data Commercial Package Gas, R-410A, 2007 3 PhaseTax Sport Ret Drive. Factory Installed Options (Low Leak Downflow Economicer, Statistics Solid) (mn/steel), Powered Convenience Outlei) DCG180050VW0RA Data Commercial Package Gas, R-410A, 4007 3 Phase Bit Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels, Statistica National Convenience Outlei) DCG180050VW0RA Data Commercial Package Gas, R-410A, 4007 3 Phase Bit Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels, Statistica National Package Gas, R-410A, 4007 3 Phase Bit Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels, Statistica National Package Gas, R-410A, 4007 3 Phase Bit Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels). DCG1800504W00XAB Data Commercial Package Gas, R-410A, 4007 3 Phase High Statis Bet Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels). DCG1800504W00XAB Data Commercial Package Gas, R-410A, 4007 3 Phase High Statis Bet Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels). DCG1800504W00XAB Data Commercial Package Gas, R-410A, 4007 3 Phase High Statis Bet Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels). DCG1800504W00XBA Data Commercial Package Gas, R-410A, 4007 3 Phase High Statis Cent Drive. Factory Installed Options (Low Leak Downflow Economicer, Hinge Panels). DCG2800504W00XBA Data Commercial Package Gas, R-410A, 4007 3 Phase High Statis Cent Drive. Facto	DCG1803503VVXXAA	
Economics Decommics Decommics Decommics DCG1800304/VKR48 Data Commercial Phasiga Cas, 4410, 4402 Phase, Beach Trues, Status Biol Trues, Status Statu	DCG2404004VHBXBA	
Baintics Stell Heat Exhanger, Hingd Panels, Powerd Commence Outiol Dealit Commercial Passage Cap, 41-40, 4097 Strass, Bet Dite, Factory Installed Options (Low-Leak Downflow Economizer, Hinge Panels, Staturd Alminized Heat Exchanger, Return Al-Sincke Deeledo) DCG2604004VXXDRA Dealit Commercial Passage Cap, 81-410A, 4007 Strass, Edit Dite, Factory Installed Options (Low-Leak Downflow Economizer, Hinge Panels, Staturd Alminized Heat Exchanger, Return Al-Sincke Deeledo) DCG16035604VVXARB Dealit Commercial Passage Cap, 81-410A, 4007 Strass, High Status Bet Dirke, Factory Installed Options (Low-Leak Downflow Economizer, Hinger Panels) DCG16035604VVXARB Dealit Commercial Passage Cap, 81-410A, 4007 Strass, High Status Bet Dirke, Factory Installed Options (Low-Leak Downflow Economizer, Hinger Panels) DCG16035604VVXARB Dealit Commercial Passage Cap, 81-410A, 4007 Strass, High Status Bet Dirke, Factory Installed Options (Low-Leak Downflow Economizer, Hinger Panels) DCG2604004VVXABBA Dealiti Commercial Passage Cap, 81-410A, 4007 Strass, High Status Bet Dirke, Factory Installed Options (Low-Leak Downflow Economizer, Hinger Panels) DCG2604004VVXBBA Dealiti Commercial Passage Cap, 81-410A, 4007 Strass, High Status Bet Dirke, Factory Installed Options (Low-Leak Downflow Economizer, Hinger Panels) DCG204004VVXBBA Dealiti Commercial Passage Cap, 81-410A, 4007 Strass, High Status (Nach David) DCG204004VVXBAA Dealiti Commercial Passage Cap, 81-410A, 4007 Strass, High Status (Nach David) DCG204004VVXBAA Dealitin Commercial P	DCG1803503VWXBAA	
Printle, Statistical Manifester Media Constraints Printle, Statistical Manifester Media Constraints DCG2040004VXDBA Dakin Commercial Practage Gas, R-1406, 460V 3 Phase. High Statis Bell Drive. Factory Installed Options (Low-Leak Downflow Economizer, Hinge Phanels, Statistic Al-100, 460V 3 Phase. High Statis Bell Drive. Factory Installed Options (Low-Leak Downflow Economizer, Hinge Phanels). DCG1803504VVDXAB Dakin Commercial Practage Gas, R-1410A, 460V 3 Phase. High Statis Bell Drive. Factory Installed Options (Low-Leak Downflow Economizer, Hinge Phanels). DCG1803504VVDXAB Dakin Commercial Practage Gas, R-410A, 460V 3 Phase. High Statis Bell Drive. Factory Installed Options (Low-Leak Downflow Economizer, Perinder) Analyzage Gas, R-410A, 460V 3 Phase. High Statis Bell Drive. Factory Installed Options (Low-Leak Downflow Economizer, Perinder) Commercial Practage Gas, R-410A, 460V 3 Phase. High Statis Bell Drive. Factory Installed Options (Low-Leak Downflow Economizer, Perinder) Commercial Practage Gas, R-410A, 460V 3 Phase. High Statis Drive Drive. Teatory Installed Options (Low-Leak Downflow Economizer, Powerd Ommerciane Outlet) DCG2404064VVXBBA Dakin Commercial Practage Gas, R-410A, 460V 3 Phase. High Statis Two-Speed Bell Drive. Teatory Installed Options (Low-Leak Downflow Economizer). Powerd Ommerciane Outlet) DCG2404064VVXBAA Dakin Commercial Practage Gas, R-410A, 460V 3 Phase. High Statis Two-Speed Bell Drive. Eactory Installed Options (Low-Leak Downflow Economizer). Powerd Ommerciane Outlet) DCG2404064VVXBAA Dakin Commercial Practage Gas, R-410A, 460V 3 Phase. High Statis Two-Speed Bell Drive. Factory Installet Options (Discomeet). South Inon-LeownFlow Econ	DCG1803504VVKFAB	
Panels. Stadard Aluminazed Hael Exchanger. Return A's Smake Detectory DCG1803503WDXAA Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Bell Drive. Factory Installed Options (Low-Leak Downflow Economics): Higher Panels) DCG1803504WDXAB Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Bell Drive. Factory Installed Options (Low-Leak Downflow Economics): Register Panels) DCG1803504WV0BBA Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Bell Drive. Factory Installed Options (Low-Leak Downflow Economics): Register Panels) DCG2404060WVXBBA Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Bell Drive. Factory Installed Options (Low-Leak Downflow Economics): Revised Sortance, Towered Conventiona Juliania DCG2404060WVXBBA Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Bell Drive. Factory Installed Options (Low-Leak Downflow Economics): Revised Sortance, Towered Conventiona Juliania DCG3404060WVXBBA Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Two-Speed Bell Drive. Factory Installed Options (Low-Leak Downflow Economics): Revised Conventiona Juliania DCG3404004VVXBA Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Two-Speed Bell Drive. Factory Installed Options (Low-Leak Downflow Economics): Revised Conventiona Juliania DCG3404004VVXBA Dakin Commercial Pakage Gas, R-410A, 400V 3 Phase. High Static Two-Speed Bell Drive. Factory Installed Options (Low-Leak Downflow Economics) DCG3404004VVXDAA Dakin Commercial Pakage Gas, R-410A, 400V	DCG1803504VVXDAB	
Economizer, Hinged Panels) Economizer, Hinged Panels) DCG1803504WVDXBB Datikin Commercial Patiage Gas, R-410A, 460V 3 Phase High Static Bet Drive. Factory Installed Options (Low-Leak Downflow Economizer, Fourered convenience outer) DCG1803504WV2BBA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase High Static Bet Drive. Factory Installed Options (Low-Leak Downflow Economizer, Higod Panels) DCG2404004WVXBBA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase High Static Bet Drive. Factory Installed Options (Low-Leak Downflow Economizer, Higod Panels) DCG2404004WVXBBA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase High Static Bet Drive. Factory Installed Options (Low-Leak Downflow Economizer, Rowered Convenience Culter) DCG3404004WVXBBA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase. High Static Two-Speed Bet Drive. Factory Installed Options (Low-Leak Downflow Economizer, Rowered Convenience Culter) DCG3404004WVXBAA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase. High Static Two-Speed Bet Drive. DCG3404004WVXABA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase. High Static Two-Speed Bet Drive. DCG3404004WVXABA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase. High Static Two-Speed Bet Drive. DCG3404004WVXABA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase. High Static Two-Speed Bet Drive. Factory Installed Options (Disconnet Switch (non-Leak)) DCG3404004WVXABA Datikin Commercial Pakage Gas, R-410A, 460V 3 Phase. High Static Two	DCG2404004VVXDBA	
Economizer, Hinged Panels) Economizer, Linged Panels) DCG1803504WVXBBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Powerd convenience outlet) DCG2404004WVXBBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Powerd convenience outlet) DCG3204004WVXBBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Powerd convenience outlet) DCG3204004WVXBBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG2404004WVXBBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3204004WVXCRA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG2404004WVXCRA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3204004WVXCRA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3204004WVXCRA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG3204004WVXCRA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG3204000	DCG1803503WVDXAA	
Economizer, Powered convenience outlet) DCG2404004WVXBBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Powered Convenience outlet) DCG2404004WVXBBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Powered Convenience outlet) DCG2404004WVXBAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Det Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience outlet) DCG2404004VVXBAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3004004WVXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3004004WVXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3004004WVXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3004004WVXXAA Daikin Commercial Package Gas, R-410A, 475V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG3004004WXXAA Daikin Commercial Package Gas, R-410A, 275V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1204003WXXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) <td>DCG1803504WVDXAB</td> <td></td>	DCG1803504WVDXAB	
Economizer, Hinged Panels) DCG2404004WVXBBA Dakin Commercial Package Gas, R-410A, 460V 3 Phase-High Static Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Powerled convenience outlet) DCG2404004WVXBAA Dakin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG2404004VHXABA Dakin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG2404004VHXXAA Dakin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG2404004VHXXAA Dakin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG2404004VHXXAA Dakin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404007VVXXBA Dakin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizar) DCG1803507WDXXBA Dakin Commercial Package Gas, R-410A, 260V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Dakin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Dakin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive	DCG1803504WVXBBA	
Economizer, Powered convenience outlet) DCG3004004WVXBAA Dakin Commercial Package Gas, R-140A, 4607 3 Phase. High Static Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer, Powered convenience outlet) DCG2404004VVXBAA Dakin Commercial Package Gas, R-140A, 4607 3 Phase. High Static Two-Speed Belt Drive. DCG3004004WXXXAA Dakin Commercial Package Gas, R-140A, 4607 3 Phase. High Static Two-Speed Belt Drive. DCG2404004WXXXAA Dakin Commercial Package Gas, R-140A, 4607 3 Phase. High Static Two-Speed Belt Drive. DCG3004004WHXXAA Dakin Commercial Package Gas, R-140A, 4607 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404007V/XXAA Dakin Commercial Package Gas, R-140A, 2607 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG2404003WXXDKAA Dakin Commercial Package Gas, R-140A, 2607 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)). DCG1803503WXDXAA Dakin Commercial Package Gas, R-140A, 2807 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)). Non-powered Convenience Outlet) DCG1803503WXDXAA Dakin Commercial Package Gas, R-140A, 2807 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)). Non-powered Convenience Outlet) DCG1803504WHXDAB Dakin Commercial Package Gas, R-140A, 2807 3 Phase. High Static Two-Speed Bel	DCG2404004WVXBBA	
Economizer, Powered convenience outlet) DCG2404004/VHXABA Daikin Commercial Package Gas, R-410A, 480V 3 Phase. Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG3004004/WXXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG2404004/WXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404007/WXXBA Daikin Commercial Package Gas, R-410A, 575V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG2404007/WXXBA Daikin Commercial Package Gas, R-410A, 575V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panels) DCG1803507/WXXXAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powerd Convenience Outlet) DCG1803503/WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504/WHXABA Daikin Commercial Package Gas, R-410A, 480V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-vereed Onvenience Outlet) DCG1803504/WHXABA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Nonvered Onvenience Outlet	DCG2404004WVXBBA	
powered Convenience Outlet) DCG3004004WXXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG32040004WXXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404007WXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG2404007WXXAA Daikin Commercial Package Gas, R-410A, 575V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panels) DCG1803507WXXXAB Daikin Commercial Package Gas, R-410A, 26V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 28V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG2404003WXXCBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG2404003WXMCBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) <	DCG3004004WVXBAA	
DCG240404W/XXXBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. DCG3004004WHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG2404007VVXXBA Daikin Commercial Package Gas, R-410A, 575V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panels) DCG1803507WXXXAB Daikin Commercial Package Gas, R-410A, 200V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powerd Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 200V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powerd Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Powered Convenience Outlet) DCG1803504WHXBAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)), Powered Convenience Outlet) DCG1803504WHXABB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXABB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXABB Daikin Com	DCG2404004VHXABA	
DCG3004004WHXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG2404007VVXXBA Daikin Commercial Package Gas, R-410A, 575V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG2404003WXXAB Daikin Commercial Package Gas, R-410A, 260V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504VHXBAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504VHXBAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Gonvenience Outlet) DCG1803504VHXBAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Gonvenience Outlet) DCG1803504WHXABB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXABB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options	DCG3004004WXXXAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive.
Switch (non-fused)) DCG2404007VVXXBA Daikin Commercial Package Gas, R-410A, 575V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Low-Leak Downflow Economizer) DCG1803507WXXXAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504WHXABB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG2404003WXMCBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Ins	DCG2404004WXXXBA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive.
Economizer) DCG1803507WXXXAB Daikin Commercial Package Gas, R-410A, 575V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panels) DCG2404003WXXXAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504VHXBAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch)non-fused); Powered Convenience Outlet) DCG2404003WXMCBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panel; Phase Monifor, Low Ambinet Kit) DCG1803504WHXAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404003WXKABA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404003WXKABA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger	DCG3004004WHXXAA	
DCG2404003WXDXBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504VHXBAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Powered Convenience Outlet) DCG2404003WXMCBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panel; Phase Monitor, Low Ambient KI) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused); Non-powered convenience outlet) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused); Non-powered convenience outlet) DCG2404003WXXXBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer) DCG2404003WXXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options	DCG2404007VVXXBA	
International (non-fused), Non-powered Convenience Outlet) DCG1803503WXDXAA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused), Non-powered Convenience Outlet) DCG1803504VHXBAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch)non-fused); Powered Convenience Outlet) DCG2404003WXMCBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panel; Phase Monitor, Low Ambient Kit) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXAAB Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404003VVXXBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer) DCG2404003VVXXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WXXKABA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed	DCG1803507WXXXAB	Daikin Commercial Package Gas, R-410A, 575V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Hinged Panels)
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fused); Powered Convenience Outlet) DCG2404003WXMCBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG2404003VVXXBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow (non-fused)) DCG2404003VVXXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer) DCG2404003WXKABA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG1803503WXKAAA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory I	DCG1803503WXDXAA	
Phase Monitor, Low Ambient Kit) DCG1803504WHXXAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused)) DCG1803504WHXAAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused); Non-powered convenience outlet) DCG2404003VVXXBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer) DCG2404003WXKABA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG1803503WXKAAA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVXDBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Hinged Panels; Non-powered Convenience Outlet) <td>DCG1803504VHXBAB</td> <td></td>	DCG1803504VHXBAB	
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(non-fused); Non-powered convenience outlet) DCG2404003VVXXBA Daikin Commercial Package Gas, R-410A, 280V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer) DCG2404003WXKABA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG1803503WXKAAA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG1803503WXKAAA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch	DCG1803504WHXXAB	
Economizer) DCG2404003WXKABA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG1803503WXKAAA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG1803503WXKAAA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels) DCG2404004WRXXBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused)) DCG2404004WJXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector)	DCG1803504WHXAAB	
Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG1803503WXKAAA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Stainless-Steel Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels) DCG2404004WRXXBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused)) DCG2404004WJXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector)	DCG2404003VVXXBA	
Heat Exchanger; Hinged Panels; Non-powered Convenience Outlet) DCG2404003WVDXBA Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Low Leak Downflow Economizer; Hinged Panels) DCG2404004WRXXBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector) DCG2404004WJXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector)	DCG2404003WXKABA	
Downflow Economizer, Hinged Panels) DCG2404004WRXXBA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer, DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector) DCG2404004WJXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector)	DCG1803503WXKAAA	
Downflow Economizer; DDC-BACnet protocol; Disconnect Switch (non-fused)) DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector) DCG2404004WJXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector)	DCG2404003WVDXBA	
DCG1803504WJDDAB Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector) DCG2404004WJXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Return Air Smoke Detector)	DCG2404004WRXXBA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak
DCG2404004WJXXAA Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak	DCG1803504WJDDAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory Installed Options (Ultra Low Leak
Downflow Economizer: Disconnect Switch (non-fused))	DCG2404004WJXXAA	

These units have R410A refrigerant

DCG***XXX**XXX

	Daikin Commercial Multiposition Package Gas Units
Model	Description
DCG2404004VHXXBA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory Installed Options (Disconnect Switch (non-fused))
DCG1803504VRDBAB	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory installed options (Ultra Low Leak Downflow Economizer, DDC-BACnet Protocol; Disconnect Switch (non-fused); Hinged Panels; Powered Convenience Outlet)
DCG1803503WRXXAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. High Static Two-Speed Belt Drive. Factory installed options (Ultra Low Leak Downflow Economizer, DDC-BACnet Protocol; Disconnect Switch (non-fused))
DCG2404004VHXCAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory installed options (Disconnect Switch (non-fused) Low-Ambient Kit)
DCG1803504WXXXAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. High Static Two-Speed Belt Drive.
DCG2404003WXXXAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive.
DCG1803504WXBAAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static Two-Speed Belt Drive. Factory installed options (Phase Monitor; Non-Powered Convenience Outlet)
DCG2404004VFXXBAAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory installed options (Ultra Low Leak Downflow Economizer, DDC-BACnet Protocol)
DCG240XXX3VHBXBAAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-Speed Belt Drive. Factory installed options (Ultra Low Leak Downflow Economizer, DDC-BACnet Protocol)
DCG1803504WXBBABAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. High Static Two-Speed Belt Drive. Factory installed options (Phase Monitor; Powered Convenience Outlet)
DCG3004004WXLQAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static. Factory installed options (Stainless-steel Heat Exchanger; Hinged Panels; Phase Monitor; Powered Convenience Outlet; Low-ambient Kit; Return Air Smoke Detector)
DCG1803503VHDBAA	Daikin Commercial Package Gas, R-410A, 230V 3 Phase. Two-Speed Belt Drive. Factory installed options (Disconnect Switch (non-fused); Hinged Panels; Powered Convenience Outlet)
"DCG2404007WVXXBA DCG3004007WVXXAA"	Daikin Commercial Package Gas, R-410A, 575V 3 Phase, High Static. Factory installed options. (Low-Leak Downflow Economizer; Standard Aluminized Heat Exchanger)
DCG2404003VWDVBA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Two-Speed Belt Drive. Factory installed options (Low-Leak Downflow Economizer, Disconnect Switch (non-fused); Hinged Panels; Low-ambient Kit; Return Air Smoke Detector)
DCG1803503VXXAAA	Daikin Commercial Package Gas, R-410A, 208-230V 3 Phase. Two-Speed Belt Drive. Factory installed options (Standard Aluminized Heat Exchanger; Non-Powered Convenience Outlet)
DCG3004004WAXCAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static. Factory installed options (Ultra Low-Leak Downflow Econimizer; Standard Aluminized Heat Exchanger; Low-Ambient Kit)
DCG1803503VVXZAA	Daikin Commercial Package Gas, R-410A, 230V 3 Phase. Two-speed Belt Drive. Factory installed options (Low-Leak Downflow Econimizer; Standard Aluminized Heat Exchanger; Return and Supply Air Smoke Detectors)
DCG1803507WRSAAB DCG2404007WRSABA	Daikin Commercial Package Gas, R-410A, 575V 3 Phase, High Static. Factory installed options. (Ultra Low-Leak Downflow Economizer; DDCBACnet Protocol; Disconnect Switch (non-fused); Stainless-Steel Heat Exchanger;Non-powered Convenience Outlet)
DCG2404004VHXNBA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. Two-speed Belt Drive. Factory installed options (Disconnect Switch (non-fused); Standard Aluminized Heat Exchanger; Powered Convenience outlet; Return Air Smoke Detector)
DCG3004004WWDGAA	Daikin Commercial Package Gas, R-410A, 460V 3 Phase. High Static. Factory installed options (Low-Leak Downflow Economizer; Disconnect Switch (non-fused); Hinged Panels; Non-Powered Convenience outlet; Return Air Smoke Detector)
DCG3004004WWKGAA	Daikin Commercial Package Gas, R-410A, 4600V 3 Phase. High Static. Factory installed options (Low-Leak Downflow Economizer, Disconnect Switch (non-fused); Stainless-Steel Heat Exchanger; Hinged Panels; Non-Powered Convenience Outlet; Return Air Smoke Detector)
DCG1803503WHXAAA	Daikin Commercial Package Gas, R-410A, 230V 3 Phase. High Static. Factory installed options (Disconnect Switch (non-fused); Standard Aluminized Heat Exchanger; Non-Powered Convenience outlet)
DCG1803503WVBXAA DCG2404003WVBXBA	Daikin Commercial Package Gas, R-410A, 230V 3 Phase, High Static. Factory installed options. (Low-Leak Downflow Economizer; Phase Monitor)
DCG2404007VVXCBA	Daikin Commercial Package Gas, R-410A, 575V 3 Phase. Two-speed Belt Drive. Factory installed options (Low-Leak Downflow Econimizer; Disconnect Switch (non-fused); Standard Aluminized Heat Exchanger; Low-ambient Kit)

UNIT LOCATION



TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.

ALL INSTALLATIONS:

IMPORTANT NOTE: Unit should be energized 24 hours prior to compressor start up to ensure crankcase heater has sufficiently warmed the compressors. Compressor damage may occur if this step is not followed.

NOTE: This appliance is a dedicated downflow design.

Proper installation of the unit ensures trouble-free operation. Improper installation can result in problems ranging from noisy operation to property or equipment damages, dangerous conditions that could result in injury or personal property damage and that are not covered by the warranty. Give this booklet to the user and explain it's provisions. The user should retain these instructions for future reference.

- For proper flame pattern within the heat exchanger and proper condensate drainage, the unit must be mounted level.
- The flue outlet must be at least 12 inches from any opening through which flue gases could enter a building, and at least three feet above any forced air inlet located within ten feet. The economizer/manual fresh air intake/motorized fresh air intake and combustion air inlet mounted on the unit are not affected by this restriction.
- Do not locate the unit in an area where the outdoor air (i.e. combustion air for the unit) will be frequently contaminated by compounds containing chlorine or fluorine. Common sources of such compounds include swimming pool chemicals and chlorine bleaches, paint stripper, adhesives, paints, varnishes, sealers, waxes (which are not yet dried) and solvents used during construction and remodeling. Various commercial and industrial processes may also be sources of chlorine/ fluorine compounds.
- To avoid possible illness or death of the building occupants, do NOT locate outside air intake device (economizer, manual fresh air intake, motorized fresh air intake) too close to an exhaust outlet, gas vent termination, or plumbing vent outlet. For specific distances required, consult local codes.
- Allow minimum clearances from the enclosure for fire protection, proper operation, and service access (see unit clearances). These clearances must be permanently maintained.
- The combustion air inlet and flue outlet on the unit must never be obstructed. If used, do not allow the economizer/ manual fresh air damper/ motorized fresh air damper to become blocked by snow or debris. In some climates or locations, it may be necessary to elevate the unit to avoid these problems.

 When the unit is heating, the temperature of the return air entering the unit must be between 50° F and 100° F.

GROUND LEVEL INSTALLATIONS ONLY:

- When the unit is installed on the ground adjacent to the building, a level concrete (or equal) base is recommended. Prepare a base that is 3" larger than the package unit footprint and a minimum of 3" thick.
- The base should also be located where no runoff of water from higher ground can collect in the unit.

ROOF TOP INSTALLATIONS ONLY:

- To avoid possible property damage or personal injury, the roof must have sufficient structural strength to carry the weight of the unit(s) and snow or water loads as required by local codes. Consult a structural engineer to determine the weight capabilities of the roof.
- The unit may be installed directly on wood floors or on Class A, Class B, or Class C roof covering material.
- To avoid possible personal injury, a safe, flat surface for service personnel should be provided.
- As indicated on the unit data plate, a minimum clearance of 36" to any combustible material is required on the furnace access side of the unit. All combustible materials must be kept out of this area.
- This 36" clearance must also be maintained to insure proper combustion air and flue gas flow. The combustion air intake and furnace flue discharge must not be blocked for any reason, including blockage by snow.
- Adequate clearances from the furnace flue discharge to any adjacent public walkways, adjacent buildings, building openings or openable windows must be maintained in accordance with the latest edition of the National Fuel Gas Code (ANSI Z223.1)
- Minimum horizontal clearance of 48" from the furnace flue discharge to any electric meters, gas meters, regulators and relief equipment is required.

UNIT PRECAUTIONS

- Do not stand or walk on the unit.
- Do not drill holes anywhere in panels or in the base frame of the unit(except where indicated). Unit access panels provide structural support.
- Do not remove any access panels until unit has been installed on roof curb or field supplied structure.
- Do not roll unit across finished roof without prior approval of owner or architect.
- Do not skid or slide on any surface as this may damage unit base. The unit must be stored on a flat, level surface. Protect the condenser coil because it is easily damaged.

ROOF CURB INSTALLATIONS ONLY:

Curb installations must comply with local codes and should be done in accordance with the established guidelines of the National Roofing Contractors Association.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. Field assembly, squaring, leveling and mounting on the roof structure are the responsibility of the installing contractor. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory.



TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.

- Sufficient structural support must be determined prior to locating and mounting the curb and package unit.
- Ductwork must be constructed using industry guidelines. The duct work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered type curbs are not available from the factory.
- Curb insulation, cant strips, flashing and general roofing material are furnished by the contractor.

The curbs must be supported on parallel sides by roof members. The roof members must not penetrate supply and return duct opening areas as damage to the unit might occur.

NOTE: The unit and curb accessories are designed to allow vertical duct installation <u>before</u> unit placement. Duct installation <u>after</u> unit placement is not recommended.



ALL CURBS LOOK SIMILAR. TO AVOID INCORRECT CURB POSITIONING, CHECK JOB PLANS CAREFULLY AND VERIFY MARKINGS ON CURB ASSEMBLY. INSTRUCTIONS MAY VARY IN CURB STYLES AND SUPERCEDE INFORMATION SHOWN.

See the manual shipped with the roof curb for assembly and installation instructions.

CLEARANCES



*In situations that have multiple units, a 48" minimum clearance is required between the condenser coils.

UNIT CLEARANCES

Adequate clearance around the unit should be kept for safety, service, maintenance, and proper unit operation. A clearance of 75" on the service side of the unit is required to facilitate possible blower assembly, shaft, wheel replacement, coil, heat exchanger, electric heat and gas furnace removal. This unit must not be installed beneath any obstruction. This unit should be installed remote from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh air intake.

PROTRUSION

Inspect curb to ensure that none of the utility services (electric) routed through the curb protrude above the curb.



IF PROTRUSIONS EXIST, DO NOT ATTEMPT TO SET UNIT ON CURB. INFORMATION SHOWN.

ELECTRICAL WIRING

WARNING

HIGH VOLTAGE !

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



HIGH VOLTAGE !

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DO NOT TAMPER WITH FACTORY WIRING. THE INTERNAL POWER AND CONTROL WIRING OF THESE UNITS ARE FACTORY-INSTALLED AND HAVE BEEN THOROUGHLY TESTED PRIOR TO SHIPMENT. CONTACT YOUR LOCAL REPRESENTATIVE IF ASSISTANCE IS REQUIRED.





TO PREVENT DAMAGE TO THE WIRING, PROTECT WIRING FROM SHARP EDGES. FOLLOW NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND ORDINANCES. DO NOT ROUTE WIRES THROUGH REMOVABLE ACCESS PANELS.



CONDUIT AND FITTINGS MUST BE WEATHER-TIGHT TO PREVENT WATER ENTRY INTO THE BUILDING.

For unit protection, use a fuse or HACR circuit breaker that is in excess of the circuit ampacity, but less than or equal to the maximum overcurrent protection device. DO NOT EXCEED THE MAXIMUM OVERCURRENT DEVICE SIZE SHOWN ON UNIT DATA PLATE.

All line voltage connections must be made through weatherproof fittings. All exterior power supply and ground wiring must be in approved weatherproof conduit.

The main power supply wiring to the unit and low voltage wiring to accessory controls must be done in accordance with these instructions, the latest edition of the National Electrical Code (ANSI/NFPA 70), and all local codes and ordinances. All field wiring shall conform with the temperature limitations for Type T wire $(63^{\circ}F/35^{\circ}C \text{ rise})$.

The main power supply shall be three-phase, three wire. The unit is factory wired for the voltage shown on the unit's data plate.

NOTE: If supply voltage is 208V, all leads on primary of transformer TRANS1 must be moved from the 230V to the 208V tap.

Main power wiring should be sized for the minimum wire ampacity shown on the unit's database. Size wires in accordance with the ampacity tables in Article 310 of the National Electrical Code. If long wires are required, it may be necessary to increase the wire size to prevent excessive voltage drop. Wires should be sized for a maximum of 3% voltage drop.



TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY DUE TO FIRE, USE ONLY COPPER CONDUCTORS.

TO PREVENT IMPROPER AND DANGEROUS OPERATION DUE TO WIRING ERRORS, LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. VERIFY PROPER OPERATION AFTER SERVICING.

NOTE: A weather-tight disconnect switch, properly sized for the unit total load, must be field or factory installed. An external field supplied disconnect may be mounted on the exterior panel.

Ensure the data plate is not covered by the field-supplied disconnect switch.

- Some disconnect switches are not fused. Protect the power leads at the point of distribution in accordance with the unit data plate.
- The unit must be electrically grounded in accordance with local codes or, in the absence of local codes, with the latest edition of the National Electrical Code (ANSI-NFPA 70). A ground lug is provided for this purpose. Size grounding conductor in accordance with Table 250-95 of the National Electrical Code. Do not use the ground lug for connecting a neutral conductor.
- Connect power wiring to the electrical middle contactor within the main control box of power block, if equipped.



POWER AND LOW VOLTAGE BLOCK LOCATIONS



25 TON POWER AND LOW VOLTAGE BLOCK LOCATIONS



FAILURE OF UNIT DUE TO OPERATION ON IMPROPER LINE VOLTAGE OR WITH EXCESSIVE PHASE UNBALANCE CONSTITUTES PRODUCT ABUSE MAY CAUSE SEVERE DAMAGE TO THE UNIT ELECTRICAL COMPONENTS.

AREAS WITHOUT CONVENIENCE OUTLET

It is recommended that an independent 115V power source be brought to the vicinity of the roof top unit for portable lights and tools used by the service mechanic.

NOTE: Refer to local codes for requirements. These outlets can also be factory installed.

UNITS INSTALLED ON ROOF TOPS

Main power and low voltage wiring may enter the unit through the side or through the roof curb. Install conduit connectors at the desired entrance locations. External connectors must be weatherproof. All holes in the unit base must be sealed (including those around conduit nuts) to prevent water leakage into building. All required conduit and fittings are to be field supplied.

Supply voltage to roof top unit must not vary by more than 10% of the value indicated on the unit data plate. Phase voltage unbalance must not exceed 2%. Contact your local power company for correction of improper voltage or phase unbalance.



ELECTRICAL ENTRANCE LOCATIONS

Unit is equipped with a Low Voltage Terminal Block and has Single Point wiring to the contactor.

LOW VOLTAGE CONTROL WIRING

- 1. A 24V thermostat must be installed for unit operation. It may be purchased with the unit or field -supplied. Thermostats may be programmable or electromechanical as required.
- Locate thermostat or remote sensor in the conditioned space where it will sense average temperature. Do not locate the device where it may be directly exposed to supply air, sunlight or other sources of heat. Follow installation instructions packaged with the thermostat.
- 3. Use #18 AWG wire for 24V control wiring runs not exceeding 75 feet. Use #16 AWG wire for 24V control wiring runs not exceeding 125 feet. Use #14 AWG wire for 24V control wiring runs not exceeding 200 feet. Low voltage wiring may be National Electrical Code (NEC) Class 2 where permitted by local codes.
- 4. Route thermostat wires from sub-base terminals to the unit. Control wiring should enter through the duct panel (dimple marks entrance location). Connect thermostat and any accessory wiring to low voltage terminal block TB1 in the main control box.

NOTE: Field-supplied conduit may need to be installed depending on unit/curb configuration. Use #18 AWG solid conductor wire whenever connecting thermostat wires to terminals on sub-base. DO NOT use larger than #18 AWG wire. A transition to #18 AWG wire may be required before entering thermostat sub-base.

NOTE: Refer to unit wiring diagrams for thermostat hookups.

DCG***XXX**XXX

WARNING: Improper installation, adjustment,

alteration, service or

maintenance can

cause injury or property damage.

Refer to the user's

provided with this

consult a qualified

or the gas supplier.

information manual

furnace. For assistance

or additional information

installer, service agency

This furnace must be

installed in accordance

with the manufacturers

instructions and local

of local codes, follow

Code, ANSI Z223.1.

For outdoor

installation only.

WARNING: If not

installed, operated

accordance with the

product could expose

you to substances in fuel combustion

which can cause

death or serious illness and which

are known to the

State of California to

and maintained in

manufacturer's

instructions, this

the National Fuel Gas

codes. In the absence

FOR YOUR SAFETY READ BEFORE OPERATING



try to light the burners by hand.

floor.

building

A. This appliance does not have a pilot. It

is equipped with an ignition device which

automatically lights the burners. Do not

B. BEFORE OPERATING smell around

smell next to the floor because some gas

is heavier than air and will settle on the

WHAT TO DO IF YOU SMELL GAS Do not try to light any appliance.

Do not touch any electric switch;

Immediately call your supplier

the gas suppliers instructions.

do not use any telephone in your

from a neighbor's phone. Follow

the appliance area for gas. Be sure to



 If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to move the gas control switch or knob. Never use tools. If the gas control switch or knob will not operate, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

OPERATING INSTRUCTIONS

1. STOP! Read the safety information above on this label.

Set the thermostat to lowest setting.

3. Turn off all electric power to the appliance.

4. This appliance is equipped with an automatic ignition system which automatically lights the burners. Do not try to light the burners by hand.

Remove control access panel.

6. Move the gas control switch or knob to "OFF".

GAS CONTROL SWITCH SHOWN IN "ON" POSITION 11



7. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.

8. Move the gas control switch or knob to "ON".

Replace control access panel.

10. Turn on all electric power to the appliance.

11. Set the thermostat to the desired setting.

12. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to its lowest setting.

or any other appliance.

- 2. Turn off all electric power to the
- appliance if service is to be performed.
- 3. Remove control access panel.
- Move the gas control switch or knob to "OFF". Do not force.
- Replace control access panel.

cause cancer, birth defects or other reproductive harm. This product contains fiberglass insulation. Fiberglass insulation contains a chemical known by the State of California to cause cancer. FOR YOUR SAFETY Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this

B14933-239

Typical Package Cooling or Package Gas



Either a thermostatic expansion valve or restrictor orifice assembly may be used depending on model, refer to the parts catalog for the model being serviced.

Restrictor Orifice Assembly in Cooling Operation



In the cooling mode the orifice is pushed into its seat forcing refrigerant to flow through the metered hole in the center of the orifice.

Direct Spark Ignition (DSI) Systems

DCG units are equipped with a direct spark ignition system. Ignition is provided by 22,000 volt electronic spark. A flame sensor then monitors for the presence of flame and closes the gas valve if flame is lost.

The system may be controlled by most good heating and cooling thermostats with an adjustable heat anticipator.

NOTE: Some night setback thermostats that do not have a common terminal use a power robbing circuit in the off cycle to maintain the batteries. This type of thermostat may interfere with the operation of the ignition control module and should not be used.

WARNING —

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



GAS SUPPLY PIPING



TO PREVENT PERSONAL INJURY OR DEATH DUE TO IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE, REFER TO THIS MANUAL. FOR ADDITIONAL ASSISTANCE OR INFORMATION, CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.

IMPORTANT NOTE: This unit is factory set to operate on natural gas at the altitudes shown on the rating plate.



TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY OR DEATH WHEN EITHER USING PROPANE GAS ALONE OR AT HIGHER ALTITUDES, OBTAIN AND INSTALL THE PROPER CONVERSION KIT(S). FAILURE TO DO SO CAN RESULT IN UNSATISFACTORY OPERATION AND/OR EQUIPMENT DAMAGE. HIGH ALTITUDE KITS ARE FOR U.S. INSTALLATIONS ONLY AND ARE NOT APPROVED FOR USE IN CANADA.

The rating plate is stamped with the model number, type of gas and gas input rating. Make sure the unit is equipped to operate on the type of gas available. Conversion to propane (LP) gas is permitted with the use of the factory authorized conversion kit (see the unit Spec Sheet Manual for the appropriate kit). For High Altitude derates, refer to the latest edition of the National Fuel Gas Code NFPA 54/ ANSI Z223.1.

INLET GAS PRESSURE								
NATURAL	Min. 5.0" W.C., Max. 10.0" W.C.							
PROPANE	Min. 11.0" W.C., Max. 14.0" W.C.							

Inlet Gas Pressure Must Not Exceed the Maximum Value Shown in Table Above.

The minimum supply pressure should not vary from that shown in the table above because this could prevent the unit from having dependable ignition. In addition, gas input to the burners must not exceed the rated input shown on the rating plate. Overfiring of the unit could result in premature heat exchanger failure.

PIPING

IMPORTANT NOTE: To avoid possible unsatisfactory operation or equipment damage due to under firing of equipment, do not undersize the natural/propane gas piping from the meter/tank to the unit. When sizing a trunk line, include all appliances on that line that could be operated simultaneously.

The rating plate is stamped with the model number, type of gas and gas input rating. Make sure the unit is equipped to operate on the type of gas available. The gas line installation must comply with local codes, or in the absence of local codes, with the latest edition of the National Fuel Gas Code NFPA 54/ANSI Z223.1.

Natural Gas Capacity of Pipe in Cubic Feet of Gas Per Hour (CFH) Length of Nominal Black Pipe Size (inches) Pipe in Feet 1/2 3/4 1 1/4 1 1/210 132 278 520 1050 1600 20 92 190 350 730 1100 30 73 152 285 590 980 40 245 500 760 63 130 50 440 56 115 215 670 400 60 50 105 195 610 70 46 96 180 370 560 80 43 90 170 350 530 90 40 84 160 320 490 100 38 79 150 305 460

Pressure= .50 PSIG or less and Pressure Drop of 0.3" W.C. (Based on 0.60 Specific Gravity Gas)



Heating Value of Gas (BTU/Cubic Foot

Refer to the Proper Piping Practice drawing for the general layout at the unit. The following rules apply:

- 1. Use black iron pipe and fittings for the supply piping. The use of a flex connector and/or copper piping is permitted as long as it is in agreement with local codes.
- 2. Use pipe joint compound on male threads only. Pipe joint compound must be resistant to the action of the fuel used.
- 3. Use ground joint unions.

Natural Gas Connection

- 4. Install a drip leg to trap dirt and moisture before it can enter the gas valve. The drip leg must be a minimum of three inches long.
- 5. Use two pipe wrenches when making connection to the gas valve to keep it from turning.
- 6. Install a manual shut-off valve in a convenient location (within six feet of unit) between the meter and the unit.
- 7. Tighten all joints securely.
- 8. The unit must be connected to the building piping by one of the following methods:
- · Rigid metallic pipe and fittings
- Semirigid metallic tubing and metallic fittings (Aluminum alloy tubing must not be used in exterior locations)
- Listed gas appliance connectors used in accordance with the terms of their listing that are completely in the same room as the equipment
- In the prior two methods above the connector or tubing must be protected from physical and thermal damage. Aluminum alloy tubing and connectors must be coated to protect against external corrosion when in contact with masonry, plaster or insulation or are subject to repeated wettings by liquids (water - not rain water, detergents or sewage).



Proper Piping Practice

NOTE: The unit gas supply entrance is factory sealed with plugs. Keep plugs in place until gas supply is ready to be installed. Once ready, replace the plugs with the supplied grommets and install gas supply line.

GAS PIPING CHECKS



TO PREVENT PROPERTY DAMAGE OR PERSONAL INJURY DUE TO FIRE, THE FOLLOWING INSTRUCTIONS MUST BE PERFORMED REGARDING GAS CONNECTIONS AND PRESSURE TESTING:

- THE UNIT AND ITS GAS CONNECTIONS MUST BE LEAK TESTED BEFORE PLACING IN OPERATION. BECAUSE OF THE DANGER OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS. NEVER EXCEED SPECIFIED PRESSURES FOR TESTING. HIGHER PRESSURE MAY DAMAGE GAS VALVE AND CAUSE OVERFIRING WHICH MAY RESULT IN PREMATURE HEAT EXCHANGE FAILURE.
- THIS UNIT AND ITS SHUT-OFF VALVE MUST BE DISCONNECTED FROM THE GAS SUPPLY DURING ANY PRESSURE TESTING OF THAT SYSTEM AT TEST PRESSURES IN EXCESS OF 1/2 PSIG (3.48 kPA).
- THIS UNIT MUST BE ISOLATED FROM THE GAS SUPPLY SYSTEM BY CLOSING ITS MANUAL SHUT-OFF VALVE DURING ANY PRESSURE TESTING OF THE GAS SUPPLY PIPING SYSTEM AT TEST PRESSURES EQUAL TO OR LESS THAN 1/2 PSIG (3.48 KPA).



TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY, BE SURE THERE IS <u>NO OPEN FLAME</u> IN THE VICINITY DURING AIR BLEEDING.

There will be air in the gas supply line after testing for leaks on a new installation. Therefore, the air must be bled from the line by loosening the ground joint union until pure gas is expelled. Tighten union and wait for five minutes until all gas has been dissipated in the air. Be certain there is no open flame in the vicinity during air bleeding procedure. The unit is placed in operation by closing the main electrical disconnect switch for the unit.

PROPANE GAS INSTALLATIONS



TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH DUE TO FIRE OR EXPLOSION CAUSED BY A PROPANE GAS LEAK, INSTALL A GAS DETECTING WARNING DEVICE. SINCE RUST CAN REDUCE THE LEVEL OF ODORANT IN PROPANE GAS, A GAS DETECTING WARNING DEVICE IS THE ONLY RELIABLE WAY TO DETECT A PROPANE GAS LEAK. CONTACT A LOCAL PROPANE GAS SUPPLIER ABOUT INSTALLING A GAS DETECTING WARNING DEVICE.

IMPORTANT NOTE: Propane gas conversion kits must be installed to convert units to propane gas.

All propane gas equipment must conform to the safety standards of the National Board of Fire Underwriters (See NBFU Manual 58). Line pressure 11.3 - 14" w.c.

For satisfactory operation, propane gas manifold pressure must be within 9.7 - 10.3 inches w.c. for high fire and within 6.7 - 7.3 inches w.c. low fire at the manifold with all gas appliances in operation. Maintaining proper gas pressure depends on three main factors:

- Vaporization rate, which depends on (a) temperature of the liquid, and (b) wetted surface area of the container or containers.
- 2. Proper pressure regulation.
- 3. Pressure drop in lines between regulators, and between second stage regulator and the appliance. Pipe size required will depend on length of pipe run and total load of all appliances.

PROPANE TANK SIZING (MINIMUM)											
	TANK SIZE REQUIRED IF LOWEST OUTDOOR										
MAXIMUM GAS	UM GAS TEMPERATURE (AVG. FOR 24 HOURS) REACHES										
NEEDED TO VAPORIZE*	32°F	20°F	10°F	0°F	-10°F	-20°F	-30°F				
125K BTU/HR	115	115	115	250	250	400	600				
(50 CFH)	GAL	GAL	GAL	GAL	GAL	GAL	GAL				
250K BTU/HR	250	250	250	400	500	1000	1500				
(100 CFH)	GAL	GAL	GAL	GAL	GAL	GAL	GAL				
375K BTU/HR	300	400	500	500	1000	1500	2500				
(150 CFH)	GAL	GAL	GAL	GAL	GAL	GAL	GAL				
500K BTU/HR	400	500	750	1000	1500	2000	3500				
(200 CFH)	GAL	GAL	GAL	GAL	GAL	GAL	GAL				
750K BTU/HR	750	1000	1500	2000	2500	4000	5000				
(300 CFH)	GAL	GAL	GAL	GAL	GAL	GAL	GAL				

DODANE TANK SIZING (MINIMUM)

* AVERAGE RATE/HOUR WITHDRAWL IN 8 HOUR PERIOD

TYPICAL PROPANE PIPING



WARNING -

Although the unit itself cannot be installed in an excavated or confined space, the gas piping may be routed through such areas and we strongly recommend that you contact your propane supplier about installing a gas detecting warning device that would alert you to a gas leak.

- Propane gas is heavier than air and any leaking gas can settle in any low areas or confined spaces.
- Propane gas odorant may fade, making the gas undetectable except with a warning device.

An undetected gas leak will create a danger of explosion or fire. If you suspect the presence of gas, follow the instructions on page 9. Failure to do so could result in serious personal injury or death.

PROPANE GAS PIPING CHARTS

Sizing Between First and Second Stage Regulator

Maximum Propane Capacities listed are based on 1 PSIG Pressure Drop at 10 PSIG Setting. Capacities in 1,000 BTU/HR

PIPE OR TUBING LENGTH, FEET		TUBING	NOMINAL PIPE SIZE, SCHEDULE 40				
FEET	3/8"	1/2"	5/8"	3/4"	7/8"	1/2"	3/4"
30	309	700	1,303	2,205	3,394	1,843	3,854
40	265	599	1,115	1,887	2,904	1,577	3,298
50	235	531	988	1,672	2,574	1,398	2,923
60	213	481	896	1,515	2,332	1,267	2,649
70	196	446	824	1,394	2,146	1,165	2,437
80	182	412	767	1,297	1,996	1,084	2,267
90	171	386	719	1,217	1,873	1,017	2,127
100	161	365	679	1,149	1,769	961	2,009
150	130	293	546	923	1,421	772	1,613
200	111	251	467	790	1,216	660	1,381
250	90	222	414	700	1,078	585	1,224
300	89	201	378	634	976	530	1,109
350	82	185	345	584	898	488	1,020
400	76	172	321	543	836	454	949

To convert to Capacities at 15 PSIG Settings -- Multiply by 1.130 To convert to Capacities at 5 PSIG Settings -- Multiply by 0.879

Sizing Between Single or Second Stage Regulator and Appliance* Maximum Propane Capacities Listed are Based on 1/2" W.C. Pressure Drop at 11" W.C. Setting. Capacities in 1,000 BTU/HR

PIPE OR TUBING LENGTH,	ти	IBING S	ize, o.i	D., TYPI	NOMINAL PIPE SIZE, SCHEDULE 40							
FEET	3/8"	1/2"	5/8" 3/4"		7/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"		
10	49	110	206	348	539	291	608	1,146	2,353	3,525		
20	34	76	141	239	368	200	418	788	1,617	2,423		
30	27	61	114	192	296	161	336	632	1,299	1,946		
40	23	52	97	164	253	137	284	541	1,111	1,665		
50	20	46	86	146	224	122	255	480	985	1,476		
60	19	42	78	132	203	110	231	436	892	1,337		
80	16	36	67	113	174	94	198	372	764	1,144		
100	14	32	59	100	154	84	175	330	677	1,014		
125	12	28	52	89	137	74	155	292	600	899		
150	11	26	48	80	124	67	141	265	544	815		
200	10	22	41	69	106	58	120	227	465	697		
250	9	19	36	61	94	51	107	201	412	618		
300	8	18	33	55	85	46	97	182	374	560		
350	7	16	30	51	78	43	89	167	344	515		
400	7	15	28	47	73	40	83	156	320	479		

*DATA IN ACCORDANCE WITH NFPA PAMPHLET NO. 54

ROOF TOP LOCATION AND INSTALLATION

The gas supply piping location and installation for roof top units must be in accordance with local codes or, in the absence of locals codes, with ordinances of the latest edition of the National Fuel Gas Code (ANSI Z223.1).

A manual gas shut off valve must be field installed external to the roof top unit. In addition, a drip leg must be installed near the inlet connection. A ground joint union connection is required between the external shut off valve and the unit connection to the gas valve to permit removal of the burner assembly for servicing.

- 1. Route gas piping to unit so that it does not interfere with the removal of access panels. Support and align piping to prevent strains or misalignment of the manifold assembly.
- 2. All units are furnished with standard female NPT pipe connections. Connection pipe size is 3/4" NPT. The size of the gas supply piping to the unit must be based on length of run, number of units on the system, gas characteristics, BTU requirement and available supply pressure. All piping must be done in accordance with local codes or, in the absence of local codes, with the latest edition of the National Fuel Gas Code (ANSI Z223.1). NOTE: The gas connection size at the unit does NOT establish the size of the supply line.
- 3. These units are designed for either natural or propane (LP) gas and are specifically constructed at the factory for only one of these fuels. The fuels are NOT interchangeable. However, the furnace can be converted in the field from natural gas to LP gas with the appropriate factory kit (see unit Spec Sheet Manual for the appropriate kit). Only a qualified contractor, experienced with natural and propane gas systems, should attempt conversion. Kit instructions must be followed closely to assure safe and reliable unit operation.
- 4. With all units on a common line operating under full fire, natural gas main supply pressure should be adjusted to approximately 7.0" w.c., measured at the unit gas valve. If the gas pressure at the unit is greater than 10.5" w.c., the contractor must furnish and install an external type positive shut off service pressure regulator. The unit will not function satisfactorily if supply gas pressure is less than 5.5" w.c. or greater than 10.5" w.c.. **NOTE:** A minimum horizontal distance of 48" between the regulator and the furnace flue discharge is required.
- 5. With all units on a common line operating under full LP gas main supply pressure should be at least 11.0" w.c. and must be no greater than 14.0" w.c., measured at the unit gas valve. Unit will not function satisfactorily if supply gas pressure is less than 11.0" w.c. or greater than 14.0" w.c..

6. All pipe connections should be sealed with a pipe thread compound, which is resistant to the fuel used with the furnace. A soapy water solution should be used to check all joints for leaks. A 1/8" NPT plugged tap is located on the entering side of the gas valve for test gauge connection to measure supply (main) gas pressure. Another 1/8" tap is provided on the side of the manifold for checking manifold pressure.

WARNING

This unit and its individual shutoff valve must be DISCONNECTED FROM THE GAS SUPPLY SYSTEM DURING ANY PRESSURE TESTING OF THAT SYSTEM AT TEST PRESSURES IN EXCESS OF 1/2 PSIG (13.8" w.c.).



THIS UNIT MUST BE **ISOLATED** FROM THE GAS SUPPLY PIPING SYSTEM BY CLOSING ITS INDIVIDUAL MANUAL SHUTOFF VALVE DURING ANY PRESSURE TESTING EQUAL TO OR LESS THAN **1/2 PSIG**.

7. There must be no obstruction to prevent the flow of combustion and ventilating air. A vent stack is not required and must never be used. The power ventor will supply an adequate amount of combustion air as long as the air passageways are kept free of any obstructions and the recommended external unit clearances are maintained.

CIRCULATING AIR AND FILTERS

DUCTWORK

The supply duct should be provided with an access panel large enough to inspect the air chamber downstream of the heat exchanger. A cover should be tightly attached to prevent air leaks.

Ductwork dimensions are shown in the roof curb installation manual.

If desired, supply and return duct connections to the unit may be made with flexible connections to reduce possible unit operating sound transmission.

VENTING

NOTE: Venting is self-contained.

CONDENSATE DRAIN CONNECTION

CONDENSATE DRAIN CONNECTION

A 1" female NPT drain connection is supplied on the side of the unit and a 1" male NPT on the bottom of the drain pan for condensate piping. An external trap must be installed for proper condensate drainage.



NOTE: Trap should be deep enough to offset maximum unit static difference. A minimum 4" trap is recommended.

Drain Connection

Install condensate drain trap as shown. Use 1" drain line and fittings or larger. Do not operate without trap.

HORIZONTAL DRAIN

Drainage of condensate directly onto the roof may be acceptable; refer to local code. It is recommended that a small drip pad of either stone, mortar, wood or metal be provided to prevent any possible damage to the roof.

CLEANING

Due to the fact that drain pans in any air conditioning unit will have some moisture in them, algae and fungus will grow due to airborne bacteria and spores. Periodic cleaning is necessary to prevent this build-up from plugging the drain.

STARTUP, ADJUSTMENTS, AND CHECKS



THE BUILDING ELECTRICAL GROUND BY USE OF THE GROUNDING TERMINAL PROVIDED OR OTHER ACCEPTABLE MEANS. DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT.



TO PREVENT PROPERTY DAMAGE OR PERSONAL INJURY, DO NOT START THE UNIT UNTIL ALL NECESSARY PRE-CHECKS AND TEST HAVE BEEN PERFORMED.

MOVING MACHINERY HAZARD!

TO PREVENT POSSIBLE PERSONAL INJURY OR DEATH, DISCONNECT POWER TO THE UNIT AND PADLOCK IN THE **"OFF"** POSITION BEFORE SERVICING FANS.

CONTRACTOR RESPONSIBILITY

The installing contractor must be certain that:

- All supply and return air ductwork is in place, properly sealed, and corresponds with installation instructions.
- All thermostats are mounted and wired in accordance with installation instructions.
- All electric power, all gas, hot water or steam line connections, and the condensate drain installation have been made to each unit on the job. These main supply lines must be functional and capable of operating all units simultaneously.
- Requirements are met for venting and combution air.
- Air filters are in place.
- Input rate and temperature rise are adjusted per rating plate.
- Return air temperature is maintained between 55°F (13°C) and 80°F (27°C).

ROOF CURB INSTALLATION CHECK

Inspect the roof curb for correct installation. The unit and curb assembly should be level. Inspect the flashing of the roof mounting curb to the roof, especially at the corners, for good workmanship. Also check for leaks around gaskets. Note any deficiencies in a separate report and forward to the contractor.

OBSTRUCTIONS, FAN CLEARANCE AND WIRING

Remove any extraneous construction and shipping materials that may be found during this procedure. Rotate all fans manually to check for proper clearances and that they rotate freely. Check for bolts and screws that may have jarred loose during shipment to the job site. Retighten if necessary. Re-tighten all electrical connections.

FIELD DUCT CONNECTIONS

Verify that all duct connections are tight and that there is no air bypass between supply and return.

FILTER SECTION CHECK

Remove filter section access panels and check that filters are properly installed. Note airflow arrows on filter frames.

PRE-STARTUP PRECAUTIONS

TRANSFORMER AND INDUCED DRAFT MOTOR

NOTE: On the 208/230 volt units only.

Ensure the transformer and induced draft motor are set on the appropriate voltage taps. Both the transformer tap and induced draft motor are set on 230v from the factory. To change transformer and induced draft motor voltage to 208V, move the black wire on the transformer from the 230V tap to the 208V tap.

It is important to your safety that the unit has been properly grounded during installation. Check ground lug connection in main control box for tightness prior to closing circuit breaker or disconnect switch. Verify that supply voltage on line side of disconnect agrees with voltage on unit identification plate.

System Voltage - That nominal voltage value assigned to a circuit or system for the purpose of designating its voltage class.

Nameplate Voltage - That voltage assigned to a piece of equipment for the purpose of designating its voltage class and for the purpose of defining the minimum and maximum voltage at which the equipment will operate.

AIR FLOW ADJUSTMENTS

When the final adjustments are complete, the current draw of the motor should be checked and compared to the full load current rating of the motor. The amperage must not exceed the service factor stamped on the motor nameplate. The total airflow must not be less than that required for operation of the electric heaters or the furnace.

If an economizer is installed, check the unit operating balance with the economizer at full outside air and at minimum outside air.

NOTE:Airflow setting below 300 CFM/Ton is not recommended, as evaporator freezing or poor unit performance is possible.Start-up Procedure and Checklist for 2 Speed Models.

SET EVAPORATOR FAN RPM

Actual RPM's must be set and verified with a tachometer or strobe light. With disconnect switch open, disconnect thermostat wires from terminals Y and W. This will prevent heating and mechanical cooling from coming on. Place a jumper wire across terminals R and G at TB1 terminal block. Close disconnect switch; evaporator fan motor will operate so RPM can be checked.

For gas heat units, the airflow must be adjusted so that the air temperature rise falls within the ranges given stated on Data Plate.

ELECTRICAL INPUT CHECK

Make preliminary check of evaporator fan ampere draw and verify that motor nameplate amps are not exceeded. A final check of amp draw should be made upon completion of air balancing of the duct system.

2 SPEED MODELS

NOTE: For 2 Speed Models, airflow adjustments must be made with the evaporator motor operating at high speed, i.e, 2nd stage cooling or in heat mode.

BELT DRIVE MODELS ONLY

The drive on the supply fan is typically set in the middle of the RPM range. The drive motor sheave pitch diameter is field adjustable for the required airflow.

Upon completion of the air flow balancing, we recommend replacing the variable pitched motor sheave with a properly-sized fixed sheave. A matching fixed sheave will provide longer belt and bearing life and vibration free operation. Initially, it is best to have a variable pitched motor sheave for the purpose of airflow balancing, but once the balance has been achieved, fixed sheaves maintain alignment and minimize vibration more effectively. For direct drive units, move fan speed wire.

START-UP PROCEDURE AND CHECKLIST FOR 2 SPEED MODELS:

Models with a V in the 11th position of the model number.

For 2 speed models, the indoor blower will operate on low speed when in "Fan Only" mode or while in first stage "Cooling" mode. Unit will operate on high speed in "Heating" mode and while in second stage "Cooling" mode.

The start-up procedure is the same as for "Air Conditioning Start-up Procedure" with the understanding that in Step 6, the indoor blower will run at low speed (~1175 motor rpm) and in Step 7, the indoor blower will operate at high speed (~1775 motor rpm).

NOTE: While in the Cooling Mode, to prevent frost from forming on the evaporator while the unit is operating in outdoor temperatures of 65°F or lower, it is recommended that a low ambient kit (LAKT-**) is used. This is strongly recommended for 2 Speed models due to the lower airflow while in the first stage cooling. To further protect the compressor from damage during low ambient conditions, a Freezestat Kit (FSK***) can be added that turns the compressor off when the evaporator temperature drops too low.

BEARING CHECK

Prior to energizing any fans, check and make sure that all setscrews are tight so that bearings are properly secured to shafts.

GAS SYSTEM



MAXIMUM	NUMBER	MAXIMUM	GAS ORIFICES					
INPUT (BTUH)	of BURNERS	BTUH/BURNER	NATURAL	PROPANE (LP)				
350,000	7	50,000	#30	#48				
400,000	8	50,000	#30	#48				

HEAT EXCHANGER AND BURNER ORIFICE SPECIFICATIONS

NOTE: Gas appliances located more than 2000 feet above sea level must be derated 4% per 1000 feet of total elevation and that variance in gas heating value and specific gravity require change in manifold pressure to obtain rating, it is mandatory that the input be adjusted at the installation site. All installations should be made as outlined in the latest edition of the National Fuel Gas Code ANSI Z223.1, section "Procedures To Be Followed To Place An Appliance in Operation". Refer also to the "User's Information Manual" supplied with the unit for additional information on the gas furnace.

NORMAL SEQUENCE OF OPERATION

NOTE: The ignition control board blower off delay is factory set at 150 seconds. This factory setting can also be set to 120 or 135 seconds by placing the jumper on the desired setting.

HEATING

This unit has one (RS) Manual Reset Limit Control Switch. Check the limit to make sure it has not tripped. The limit may arrive at the job site tripped as a result of shipping shock.

If the ventor motor comes on, but the unit does not attempt ignition, check if the ALS (Automatic Reset High Limit Control Switch) requires resetting.

1. With electricity and gas turned on, the system switch in the "HEAT" or "AUTO" position and the fan switch in the "AUTO" position, the thermostat will close the circuit between unit terminals R and W (R-W) when the temperature falls below the thermostat setting.

- 2. D1 on IIC energizes relay IDMR.
- 3. Relay IDMR energizes the ventor motor IDM.
- 4. Operation of the vent motor closes the pressure switch PS located in the burner compartment. the control then initiates a 15-second pre-purge time delay. During this period, the ventor motor will clear the combustion chamber of any residual gas.
- 5. After the pre-purge period, the ignition control energizes the WI-C gas valve and simultaneously initiates a "three (3)-try" spark ignition sequence.
- 6. When the burners are ignited, a minimum four (4) micro-amp DC current will flow through the flame between the sensor electrode and the grounded burner.
- 7. When the controller proves that the flame has been established, it will keep the gas valve energized and discontinue the ignition spark. First stage manifold pressure will be approximately 2.0" w.c. for natural gas and 7.0" w.c. for propane (LP).
- 8. If the control is unable to ignite the burners after its initial attempt, it will initiate another purge and spark sequence. A third purge and spark sequence will be initiated if the second attempt is unsuccessful. If the third attempt is unsuccessful, the controller will close the gas valve and lock itself out. It may be reset by momentarily interrupting power. This may be accomplished by briefly lowering the room thermostat set-point below room temperature, or by shutting off the main power to the unit. (See TP-105 for more details.)
- 9. Integrated ignition control will close its normally open contacts after a delay of approximately 30 seconds. This action energizes contactor BC and starts the supply fan motor. Operation of the supply fan circulates air across the heat exchanger and delivers heated air to the conditioned space.
- 10. When the space temperature rises, the thermostat will open R-W. Opening R-W will cause the gas valve to close, and the furnace to shut down.
- 11. The furnace has three high temperature limit controls, which can shut down the burner. They do not shut down the ventor motor.

Unit Shutdown

- 1. Set the thermostat to lowest setting.
- 2. Turn off the electrical power supply to the unit.
- 3. Remove the heat exchanger door on the side of the unit by removing screws.
- 4. Move the gas control valve switch to the OFF position. Do not force.
- 5. Close manual gas shut off valve external to the unit.
- 6. Replace the heat exchanger door on the unit.
- 7. If cooling and/or air circulation will be desired, turn ON the electrical power.

AUTOMATIC RESET HIGH LIMIT CONTROL (LS)

Located in the burner compartment on the heat exchanger, its sensing element projects through the blower section bulkhead and senses the temperature at the rear of the furnace. It will cycle the furnace off if the temperature exceeds 100°F plus maximum rise.

AUXILIARY RESET HIGH LIMIT CONTROL (ALS)

Located in the blower compartment on the blower housing, it senses air temperature within the blower compartment and protects the filters from excessive temperature. It will shut down the furnace if it senses excessive temperatures.

Elevated temperatures at the control are normally caused by blower failure. The reason for the opening should be determined and repaired prior to resetting.

MANUAL RESET FLAME ROLLOUT CONTROL (RS)

Located in the burner compartment at the top of the burner assembly, it senses high temperature that could occur if the heat exchanger tubes were plugged and the flame was rolling out instead of entering the tubes. It has a manual push-button reset that cannot be actuated until the limit control has cooled.

The reason for elevated temperatures at the control should be determined and repaired prior to resetting this manual reset control.



TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH DUE TO FIRE OR EXPLOSION, A QUALIFIED SERVICER MUST INVESTIGATE THE REASON FOR THE ROLLOUT PROTECTION DEVICE TO OPEN BEFORE MANUALLY RESETTING THE ROLLOUT PROTECTION DEVICE.

NORMAL SEQUENCE OF OPERATION

COOLING

Begin with power turned off at all disconnects.

- 1. Turn thermostat system switch to "Cool," and fan switch to "Auto" and turn temperature setting as high as it will go.
- 2. Inspect all registers and set them to the normal open position.
- 3. Turn on the electrical supply at the disconnect.
- 4. Turn the fan switch to the "ON" position. The blower should operate after a 7-second delay.
- 5. Turn the fan switch to "Auto" position. The blower should stop after a 65 second delay.
- 6. Slowly lower the cooling temperature until first stage COOL (LOW COOL) starts. The blower, both fans, and first stage compressor should now be operating. Allow the unit to run 10 minutes, make sure cool air is being supplied by the unit.

- 7. Lower the cooling temperature further until second stage COOL (HIGH COOL) starts. The blower, both fans, and <u>both</u> compressors should now be operating. Allow the unit to run 10 minutes, make sure cool air is being supplied by the unit.
- 8. Turn the temperature setting to the highest position, stopping the unit. The indoor blower will continue to run for 65 seconds.
- 9. Turn the thermostat system switch to "OFF" and disconnect all power when servicing the unit.



HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



REFRIGERATION CHECK

The unit is equipped with a thermal expansion valve as a metering device.

Ensure the hold-down bolts on the compressor are secure and have not vibrated loose during shipment. Check that vibration grommets have been installed. Visually check all piping for damage and leaks; repair if necessary. The entire system has been factory charged and tested, making it unnecessary to field charge. Factory charges are shown on the unit's nameplate. To confirm charge levels or, if a leak occurs and charge needs to be added to the system, it is recommended to evacuate the system and recharge refrigerate to unit nameplate specifications. This unit has been rated in the cooling mode at the AHRI rated conditions of: Indoor (80° db / 67° wb) and outdoor (95° db). While operating at this condition, the subcooling should range from 12° to 15° F for each refrigeration circuit, for 15 and 20 ton models. Sucooling for 25 ton models should be from 16° to 19° F for circuit 1, and from 12° to 15° F for circuit 2.

FINAL SYSTEM CHECKS

- 1. Check to see if all supply and return air grilles are adjusted and the air distribution system is balanced for the best compromise between heating and cooling.
- 2. Check for air leaks in the ductwork. See Sections on Air Flow Adjustments.
- 3. Make sure the unit is free of "rattles", and the tubing in the unit is free from excessive vibration. Also make sure tubes or lines are not rubbing against each other or sheet metal surfaces or edges. If so, correct the trouble.
- 4. Set the thermostat at the appropriate setting for cooling and heating or automatic change over for normal use.
- 5. Be sure the Owner is instructed on the unit operation, filter, servicing, correct thermostat operation, etc.

SCHEDULED MAINTENANCE

MAINTENANCE

HIGH VOLTAGE !

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

TO PREVENT PERSONAL INJURY OR DEATH DUE TO IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE, REFER TO THIS MANUAL. FOR ADDITIONAL ASSISTANCE OR INFORMATION, CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.



SHEET METAL PARTS, SCREWS, CLIPS AND SIMILAR ITEMS INHERENTLY HAVE SHARP EDGES, AND IT IS NECESSARY THAT THE INSTALLER AND SERVICE PERSONNEL EXERCISE CAUTION.

Preventive maintenance is the best way to avoid unnecessary expense and inconvenience. Have this system inspected at regular intervals by qualified service personnel, at least twice a year. Routine maintenance should cover the following items:

- 1. Tighten all belts, set screws, and wire connections.
- Clean evaporator and condenser coils mechanically or with cold water, if necessary. Usually any fouling is only matted on the entering air face of the coil and can be removed by brushing.
- 3. Lubricate motor bearings.
- 4. Align or replace belts as needed.
- 5. Replace filters as needed (see below).
- 6. Check for blockage of condensate drain.
- 7. Check power and control voltages.
- 8. Check running amperage.
- 9. Check operating temperatures and pressures.
- 10. Check and adjust temperature and pressure controls.
- 11. Check and adjust damper linkages.
- 12. Check operation of all safety controls.
- 13. Examine gas furnaces (see below and the User's Information Manual).
- 14. Check condenser fans and tighten set screws.

FILTERS

TO PREVENT PROPERTY DAMAGE DUE TO FIRE AND LOSS OF EQUIPMENT EFFICIENCY OR EQUIPMENT DAMAGE DUE TO DUST AND LINT BUILD UP ON INTERNAL PARTS, NEVER OPERATE UNIT WITHOUT AN AIR FILTER INSTALLED IN THE RETURN AIR SYSTEM.

Every application may require a different frequency of replacement of dirty filters. Filters must be replaced at least every three (3) months during operating seasons.

Dirty filters are the most common cause of inadequate heating or cooling performance. Filter inspection should be made at least every two months; more often if necessary because of local conditions and usage.

Dirty throwaway filters should be discarded and replaced with a new, clean filter.

Disposable return air filters are supplied with this unit. See the unit Specification Sheet for the correct size and part number. To remove the filters, remove the filter access panel on return side of the unit.

CABINET FINISH MAINTENANCE

Use a fine grade automotive wax on the cabinet finish to maintain the finish's original high luster. This is especially important in installations with extended periods of direct sunlight.

CONDENSER AND INDUCED DRAFT MOTORS

Bearings on the condenser fan motors and the combustion fan motor are permanently lubricated. No additional oiling is required.

LUBRICATION

The fan shaft bearings and the supply fan motor have grease fittings that should be lubricated during normal maintenance checks.

CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)

The coil with the outside air flowing over it should be inspected annually and cleaned as frequently as necessary to keep the finned areas free of lint, hair and debris.

FLAME SENSOR (QUALIFIED SERVICER ONLY)

Adrop in the flame current can be caused by a nearly invisible coating on the flame sensor. This coating, created by the fuel or combustion air supply, can be removed by carefully cleaning the flame sensor with steel wool.

NOTE: After cleaning, the microamp signal should be stable and in the range of 4 - 6 microamps DC.

FLUE PASSAGES (QUALIFIED SERVICER ONLY)

At the start of each heating season, inspect and, if necessary, clean the unit flue passage.

SCHEDULED MAINTENANCE

INSPECTION & CLEANING

All flue product carrying areas of the furnace, its vent system, and main burners should be examined by a qualified service agency before the start of each heating season. This examination is necessary for continued safe operation. Particular attention should be given to deterioration from corrosion or other sources. This examination is accomplished in the following manner.

- 1. Disconnect power to the unit and remove furnace section access panel.
- 2. Remove burner assembly:
 - a. Disconnect the three wires from the gas valve after noting which wires are connected to each terminal.
 - b. Disconnect wires from the flame rod and ignition electrode.
 - c. Disconnect the gas piping at the union.
 - d. The entire burner assembly can now be removed from the unit.

NOTE: Use all screws that were removed; they are necessary for safe and proper operation of the unit.

3. Inspect and periodically clean the vent outlet (bird screen) on the access panel.

NOTE: Periodic observation of the flame and a log of $C0_2$ measurements are recommended. This will aid in determining whether the furnace is operating efficiently or if the furnace requires cleaning.

Flames should be stable, soft and blue (dust may cause orange tips but must not be yellow). The flames must extend directly outward from the burner without curling, floating or lifting off.



Burner Flame



TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRIC SHOCK, DO NOT REMOVE ANY INTERNAL COMPARTMENT COVERS OR ATTEMPT ANY ADJUSTMENT. CONTACT A QUALIFIED SERVICER AT ONCE IF AN ABNORMAL FLAME SHOULD DEVELOP.

At least once a year, prior to or during the heating season, make a visual check of the burner flames.

NOTE: This will involve removing and reinstalling the heat exchanger door on the unit, which is held by two screws. If you are uncertain about your ability to do this, contact a qualified servicer.

If a strong wind is blowing, it may alter the airflow pattern within the unit enough that an inspection of the burner flames is not possible.

FUNCTIONAL PARTS

Refer to the unit Parts Catalog for a list of functional parts. Parts are available from your distributor.

DCC***XXX**XXX

COOLING ANALYSIS CHART

Complaint		No Cooling			Unsatisfactory System Cooling Pressures						erat	ing						
POSSIBLE CAUSE DOTS IN ANALYSIS GUIDE INDICATE "POSSIBLE CAUSE"	SYMPTOM	System will not start	Compressor will not start - fan runs	Comp. and Cond. Fan will not start	Evaporator fan will not start	Condenser fan will not start	Compressor runs - goes off on overload	Compressor cycles on overload	System runs continuously - little cooling	Too cool and then too warm	Not cool enough on warm days	Certain areas too cool, others too warm	Compressor is noisy	Low suction pressure	High suction pressure	High head pressure	Test Method Remedy	See Service Procedure Ref.
Power Failure		•															Test Voltage	S-1
Blown Fuse		•		•	•												Inspect Fuse Size & Type	S-1
Unbalanced Power, 3PH			•				•	•									Test Voltage	S-1
Loose Connection		•			•		•										Inspect Connection - Tighten	S-2, S-3
Shorted or Broken Wires	╡	•	•	•	•	•	•										Test Circuits With Ohmmeter	S-2, S-3
Open Fan Overload	╡				•	•											Test Continuity of Overload	S-17A
Faulty Thermostat	1	•		•	•					•							Test Continuity of Thermostat & Wiring	S-3
Faulty Transformer	1	•		•													Check Control Circuit with Voltmeter	S-4
Shorted or Open Capacitor			•		•	•	•	•									Test Capacitor	S-15
Internal Compressor Overload Open			•														Test Continuity of Overload	S-17A
Shorted or Grounded Compressor			•				•										Test Motor Windings	S-17B
Compressor Stuck			•				•	•									Use Test Cord	S-17D
Faulty Compressor Contactor	+			•		•	•										Test Continuity of Coil & Contacts	S-7, S-8
Faulty Fan Relay	+			-	•	-	-										Test Continuity of Coil And Contacts	S-7
Open Control Circuit	+				•												Test Control Circuit with Voltmeter	S-4
Low Voltage	+		•				•	•									Test Voltage	S-1
Faulty Evap. Fan Motor					•									•			Repair or Replace	S-16
Shorted or Grounded Fan Motor	+					•										•	Test Motor Windings	S-16
Improper Cooling Anticipator	+							•		•							Check Resistance of Anticipator	S-3B
Shortage of Refrigerant	+							•	•					•			Test For Leaks, Add Refrigerant	S-101.103
Restricted Liquid Line	+							•	•					•		•	Remove Restriction, Replace Restricted Part	S-112
Dirty Air Filter	+							•	•		•	•		•		-	Inspect Filter-Clean or Replace	0.112
Dirty Indoor Coil	+								•		•	•		•			Inspect Coil - Clean	
Insufficient air across Indoor Coil	+								•		•	•		•			Check Blower Speed and Rotation, Belt, Pulleys,	S-200,205,
Too much air across Indoor Coil	+								•		-	•		•	•		Duct Static. Filter Reduce Blower Speed, Check Pulley Adjustment	206. 207 S-205, 207
Overcharge of Refrigerant							•	•					•		•	•	Recover Part of Charge	S-113
Dirty Outdoor Coil	+						•	•	•		•		-		-		Inspect Coil - Clean	3-113
Noncondensibles	+						-	•	•		•					•	Recover Charge, Evacuate, Recharge	S-114
Recirculation of Condensing Air	+		-	-	-	-	-	•	•	-	•	-	-	-	-		Remove Obstruction to Air Flow	3-114
Infiltration of Outdoor Air	+			-				•	•		•	•		-			Check Windows, Doors, Vent Fans, Etc.	
Improperly Located Thermostat	+								•		-	-					Relocate Thermostat	
Air Flow Unbalanced	+			-	-	-	•			•		•		-			Readjust Air Volume Dampers	+
System Undersized	+			-					•	-	•	-		-			Refigure Cooling Load	+
Broken Internal Parts	+			-	-	-			-			-	•	-			Replace Compressor	S-115
Broken Valves	+		-	-	-	-	-		•	-	-	-	•	-	•		Test Compressor Efficiency	
	+			-		-							-	-	•			S-104 S-104
Inefficient Compressor	+		-	-	-	-	-	-	•	-	-	-		-	•		Test Compressor Efficiency	
Expansion Device Restricted	+		-	-	-	-	•	•	•	-	•	-	-	•	-	•	Remove Restriction, Replace Expansion Device	111
Loose Hold-down Bolts	+			-	-	-			-			-	•	-			Tighten Bolts	0.411
Flowrator Not Seating Properly									٠						٠		Check Flowrator & Seat or Replace Flowrator	S-111

Cooling Cycle

DCG***XXX**XXX

GAS HEATING ANALYSIS CHART

Complaint		No Heat Unsatisfactory Heat										
POSSIBLE CAUSE DOTS IN ANALYSIS GUIDE INDICATE "POSSIBLE CAUSE"	System Will Not Start	Burner Won't Ignite	Burner Ignites-Locks Out	Burner Lights - Little or No Air Through Vents	Burner Shuts Off prior to T'Stat being Satasfied	Short Cycles	Long Cycles	Soot and /or Fumes	To Much Heat	Not Enough Heat	Test Method Remedy Service Brown	
Power Failure	•										Test Voltage	S-1
Blown Fuse	•										Test Voltage	S-1
Loose Connection	•										Check Wiring	S-2, S-3
Shorted or Broken Wires	•							-		-	Check Wiring	S-2, S-3
No Low Voltage	•										Check Transformer	S-4
Faulty Thermostat	•					•	•		•		Check Thermostat	S-3
Faulty Transformer	•										Check Transformer	S-4
Poor or High Resistance Ground			٠								Measure Ground Resistance	S-313
Improper Heat Anticipator Setting						٠	٠		٠	٠	Adjust Heat Anticipator Setting S-3	
Improper Thermostat Location						٠	٠		٠	٠		
Faulty Limit or Roll Out Switch		٠			٠						Test Control S-300-302	
Faulty Flame Sensor			٠								Test Flame Sensor	S-314
Faulty Ignition Control	•	٠	٠	•							Test Control	S-313
Gas Valve or Gas Supply Shut Off		•									Turn Valves to On Position	S-304
Faulty Induced Draft Blower	•	٠						•			Test Blower	S-303
Dirty Flame Sensor, Low uA			•								Clean Flame Sensor	S-314
Flame Sensor not in Flame, Low uA			٠								Test/Adjust Position of Flame Sensor	S-314
Faulty Gas Valve		٠						•		•	Replace Gas Valve	S-304
Open Auxillary Limit		•		•	٠						Check Blower Speed, Rotation, Belt, Pulleys, Duct Static, Filter	S16A,16D,200, 201,205,206,207
Improper Air Flow or Distribution				•	•					•	Check Blower Speed, Rotation, Belt, Pulleys, Duct Static, Filter	S16A,16D,200, 201,205,206,207
Faulty Blower Motor, Belt, or Pulley				•							Check Blower Speed, Rotation, Belt, Pulleys, Duct Static, Filter	S16A,16D,200, 201,205,206,207
Locking out on Main Limit			•		•					•	Check Limit, Gas Press., Temp. Rise, Blower Rotation, Belt, Pulleys, Duct Static, Filter	S-300, 307, 201
Delayed Ignition								٠			Test for Delayed Ignition	S-308
Flashback								•			Test for Flashback	S-309
Orifice Size								•	•		Check Orifices	S-306
Gas Pressure		•						٠	٠	٠	Check Gas Pressure	S-307
Cracked Heat Exchanger								٠			Check Burner Flames	S-302
Stuck Gas Valve		•						•	•		Replace Gas Valve	S-304
Furnace Undersized										٠	Replace with Proper Size Furnace	
Faulty Pressure Switch	_	•	•		٠						Test Pressure Switch	S-310
Blocked or Restricted Flue								٠			Check Flue/Drawdown Pressure	S-310
Open Roll Out Switch		•	٠								Test Control	S-302
Bouncing On Pressure Switch			٠								Test Negative Pressure, Flue Blockage	S-310

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HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



S-1 CHECKING VOLTAGE

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

1. Remove doors, control panel cover, etc. from unit being tested.

With power ON:



- 2. Using a voltmeter, measure the voltage across terminals L1 and L2 of the contactor for single phase units, and L3, for 3 phase units.
- 3. No reading indicates open wiring, open fuse(s) no power or etc. from unit to fused disconnect service. Repair as needed.
- 4. With ample voltage at line voltage connectors, energize the unit.
- 5. Measure the voltage with the unit starting and operating, and determine the unit <u>Locked Rotor Voltage</u>.

Locked Rotor Voltage is the actual voltage available at the compressor during starting, locked rotor, or a stalled condition. Measured voltage should be above minimum listed in chart below.

To measure Locked Rotor Voltage attach a voltmeter to the run "R" and common "C" terminals of the compressor, or to the T_1 and T_2 terminals of the contactor. Start the unit and allow the compressor to run for several seconds, then shut down the unit. Immediately attempt to restart the unit while measuring the Locked Rotor Voltage.

 Voltmeter should read within the voltage tabulation as shown. If the voltage falls below the minimum voltage, check the line wire size. Long runs of undersized wire can cause low voltage. If wire size is adequate, notify the local power company in regards to either low or high voltage.

Unit Supply Voltage										
Voltage	Min.	Max.								
208/230	198	253								
460	437	506								
575	546	604								

Three phase units require a balanced 3 phase power supply to operate. If the percentage of voltage imbalance exceeds 3% the unit must not be operated until the voltage condition is corrected.

Max. Voltage Deviation% Voltage =From Average VoltageX 100ImbalanceAverage Voltage

To find the percentage of imbalance, measure the incoming power supply.

L1 - L2 = 240V L1 - L3 = 232V L2 - L3 = 238VTotal 710V To find Max. deviation: 240 - 236.7 = +3.3 232 - 236.7 = -4.7 238 - 236.7 = +1.3

Max deviation was 4.7V

If the percentage of imbalance had exceeded 3%, it must be determined if the imbalance is in the incoming power supply or the equipment. To do this rotate the legs of the incoming power and retest voltage as shown below.



By the voltage readings we see that the imbalance rotated or traveled with the switching of the incoming legs. Therefore the imbalance lies within the incoming power supply.

If the imbalance had not changed then the problem would lie within the equipment. Check for current leakage, shorted motors, etc.

S-2 CHECKING WIRING



HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

- 1. Check wiring visually for signs of overheating, damaged insulation and loose connections.
- 2. Use an ohmmeter to check continuity of any suspected open wires.
- 3. If any wires must be replaced, replace with comparable gauge and insulation thickness.

S-3 CHECKING THERMOSTAT, WIRING, AND ANTICIPATOR

THERMOSTAT WIRE SIZING CHART								
LENGTH OF RUN	MIN. COPPER WIRE GAUGE (AWG)							
25 feet	18							
50 feet	16							
75 feet	14							
100 feet	14							
125 feet	12							
150 feet	12							

S-3A THERMOSTAT AND WIRING



With power ON, thermostat calling for cooling

- 1. Use a voltmeter to check for 24 volts at thermostat wires C and Y in the unit control panel.
- 2. No voltage indicates trouble in the thermostat or wiring.
- 3. Check the continuity of the thermostat and wiring. Repair or replace as necessary.

Indoor Blower Motor

With power ON:

WARNING

Line Voltage now present.

- 1. Set fan selector switch at thermostat to "ON" position.
- 2. With voltmeter, check for 24 volts at wires C and G. $% \left({{{\rm{C}}}_{{{\rm{C}}}}} \right)$
- 3. No voltage indicates the trouble is in the thermostat or wiring.

4. Check the continuity of the thermostat and wiring. Repair or replace as necessary.

S-3B COOLING ANTICIPATOR

The cooling anticipator is a small heater (resistor) in the thermostat. During the "off" cycle, it heats the bimetal element helping the thermostat call for the next cooling cycle. This prevents the room temperature from rising too high before the system is restarted. A properly sized anticipator should maintain room temperature within 1 1/2 to 2 degree range.

The anticipator is supplied in the thermostat and is not to be replaced. If the anticipator should fail for any reason, the thermostat must be changed.

S-3C HEATING ANTICIPATOR

The heating anticipator is a wire-wound adjustable heater, which is energized during the "ON" cycle to help prevent overheating of the conditioned space.

The anticipator is a part of the thermostat and if it should fail for any reason, the thermostat must be replaced. See the following for recommended heater anticipator setting.

To determine the proper setting, use an ammeter to measure the current on the "W" wire going to the thermostat.

Use an amprobe as shown below. Wrap 10 turns of thermostat wire around the stationary jaw of the amprobe and divide the reading by 10.



Checking Heat Anticipator Amp Draw

S-4 CHECKING TRANSFORMER AND CONTROL CIRCUIT

WARNING ·

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

A step-down transformer (either 208-240, 460 or 575 volt primary to 24 volt secondary) is provided with each unit. This allows ample capacity for use with resistance heaters.



Disconnect ALL power before servicing.

1. Remove control panel cover to gain access to transformer.

With power ON:



- 2. Using a voltmeter, check voltage across secondary voltage side of transformer (R to C).
- 3. No voltage indicates faulty transformer, bad wiring, or bad splices.
- 4. Check transformer primary voltage at incoming line voltage connections and/or splices.
- 5 If line voltage available at primary voltage side of transformer and wiring and splices good, transformer is inoperative. Replace.

S-7 CHECKING CONTACTOR AND/OR RELAYS

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

The compressor contactor and other relay holding coils are wired into the low or line voltage circuits. When the control circuit is energized, the coil pulls in the normally open contacts or opens the normally closed contacts. When the coil is de-energized, springs return the contacts to their normal position. **NOTE**: Most single phase contactors break only one side of the line (L1), leaving 115 volts to ground present at most internal components.

- 1. Remove the leads from the holding coil.
- 2. Using an ohmmeter, test across the coil terminals.

If the coil does not test continuous, replace the relay or contactor.

S-8 CHECKING CONTACTOR CONTACTS

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

- 1. Disconnect the wire leads from the terminal (T) side of the contactor.
- 2. With power ON, energize the contactor.



- 3. Using a voltmeter, test across terminals.
 - A. L1-L2, L1-L3, and L2-L3 If voltage is present, proceed to B. If voltage is not present, check breaker or fuses on main power supply..
 - B. T1-T2, T1-T3, and T2-T3 If voltage readings are not the same as in "A", replace contactor.



TESTING COMPRESSOR CONTACTOR (ThreePhase)

S-9 CHECKING FAN RELAY CONTACTS DCG:

The fan relays are incorporated into the control board. See section S-313 for checking control board for single phase gas models.

For 3 phase and belt drive models, the procedure for testing the fan relay contacts will be the same as checking the compressor contactor contacts (See section S-8).

DCC:

The <u>E</u>lectronic <u>B</u>lower <u>Time</u> <u>D</u>elay <u>R</u>elay is used on PSC and belt driven models.

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

Checking EBTDR High Voltage Contacts

- 1. With power off, remove wires from terminals NC, COM, and NO.
- 2. Using a VOM, check for resistance from NO to COM. Should read open. Next, check for resistance from NC to COM. Should read closed.
- 3. If not as above, replace EBTDR.

Checking EBTDR Contact Operation

With power on:

Line Voltage now present.

- 1. Set the thermostat to the fan "on" position.
- 2. Check for 24 volts at the C and G terminals of the EBTDR.
- 3. If no voltage present, check fan circuit from thermostat. If 24 volts present, proceed to step 4.
- 4. Using AVOM check for 24 volts between the NO terminal on the on the EBTDR and C on the EBTDR board. If voltage is present go to step 5.
- 5. With a call for continuous fan from the thermostat using a VOM check for 24 volts between the COM terminal EBTDR and C on the EBTDR board. If voltage is present go to step 6 if not replace the EBTDR.
- 6. Using a VOM check for 24 volts between the green wire connection and the blue wire connect ion at the Blower contactor. If 24 volts is present Replace the contactor.

-A WARNING -

Disconnect ALL power before servicing.

Turn power off.

Testing relay holding coil

- Remove the leads from the holding coil terminals 1 and 3.
- Using an ohmmeter, test across the coil terminals 1 and
 If the coil does not test continuous, replace the relay.

Testing relay contacts



Turn power off.

- 1. Using a VOM, test resistance across relay terminals 2 and 4. Should read open.
- 2. Turn power on.



Line Voltage now present.

- 3. Apply 240 volts to coil terminals 1 and 3.
- 4. Using a VOM, check for 240 volts from terminals 3 and 1 of relay. Should read 240 volts. In no voltage, check wiring from heater kit to relay. If voltage present, proceed to step 5.
- Using a VOM, check for 240 volts from L1 at contactor to terminal 4 of relay. Should read 240 volts. Next check from L1 at contactor to terminal 2 of relay. Should read 240 volts.

If not as above, replace relay.

Line Voltage now present.

- 3. Apply 24 volts to coil terminals 1 and 3.
- 4. Using a VOM, check for 24 volts from terminals 3 and 2 of relay. Should read 24 volts. If no voltage, check low voltage wiring from transformer to relay. If voltage present, proceed to step 5.
- 5. Using a VOM, check for 24 volts from terminals 3 and 4 of relay. Should read 24 volts.

If not as above, replace relay.

S-11 CHECKING LOSS OF CHARGE PROTEC-TOR

(Heat Pump Models)

The loss of charge protector senses the pressure in the liquid line and will open its contacts on a drop in pressure. The low pressure control will automatically reset itself with a rise in pressure.

The low pressure control is designed to cut-out (open) at approximately 22 PSIG. It will automatically cut-in (close) at approximately 50 PSIG.

Test for continuity using a VOM and if not as above, replace the control.

S-12 CHECKING HIGH PRESSURE CONTROL

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury

The high pressure control senses the pressure in the discharge line. If abnormally high discharge pressures develop, the contacts of the control open, breaking the control circuit before the compressor motor overloads. This control is automatically reset.

- 1. Using an ohmmeter, check across terminals of high pressure control, with wire removed. If not continuous, the contacts are open.
- 3. Attach a gauge to the access fitting on the liquid line.

Line Voltage now present.

- 4. Start the system and place a piece of cardboard in front of the condenser coil, raising the condensing pressure.
- 5. Check pressure at which the high pressure control cuts-out.



If it cuts-out at 660 PSIG \pm 10 PSIG, it is operating normally (See causes for high head pressure in Service Problem Analysis Guide). If it cuts out below this pressure range, replace the control. The control should reset at 420 PSIG \pm 25 PSIG.

S-13 CHECKING LOW PRESSURE CONTROL

The low pressure control senses the pressure in the suction line and will open its contacts on a drop in pressure. The low pressure control will automatically reset itself with a rise in pressure.

The low pressure control is designed to cut-out (open) at approximately $22 PSIG \pm 7 PSIG$. It will automatically cut-in (close) at approximately 50 PSIG $\pm 7 PSIG$.

Test for continuity using a VOM and if not as above, replace the control.

S-15 CHECKING CAPACITOR CAPACITOR, RUN

A run capacitor is wired across the auxiliary and main windings of a single phase permanent split capacitor motor. The capacitors primary function is to reduce the line current while greatly improving the torque characteristics of a motor. This is accomplished by using the 90° phase relationship between the capacitor current and voltage in conjunction with the motor windings so that the motor will give two phase operation when connected to a single phase circuit. The capacitor also reduces the line current to the motor by improving the power factor.

CAPACITOR, START

SCROLL COMPRESSOR MODELS

Hard start components are not required on Scroll compressor equipped units due to a non-replaceable check valve located in the discharge line of the compressor. However hard start kits are available and may improve low voltage starting characteristics.

With power ON:

or death.

This check valve closes off high side pressure to the compressor after shut down allowing equalization through the scroll flanks. Equalization requires only about one or two seconds during which time the compressor may turn backwards.

Your unit comes with a 180-second anti-short cycle to prevent the compressor from starting and running backwards.

MODELS EQUIPPED WITH A HARD START DEVICE

A start capacitor is wired in parallel with the run capacitor to increase the starting torque. The start capacitor is of the electrolytic type, rather than metallized polypropylene as used in the run capacitor.

A switching device must be wired in series with the capacitor to remove it from the electrical circuit after the compressor starts to run. Not removing the start capacitor will overheat the capacitor and burn out the compressor windings.

These capacitors have a 15,000 ohm, 2 watt resistor wired across its terminals. The object of the resistor is to discharge the capacitor under certain operating conditions, rather than having it discharge across the closing of the contacts within the switching device such as the Start Relay, and to reduce the chance of shock to the servicer. See the Servicing Section for specific information concerning capacitors.

RELAY, START

A potential or voltage type relay is used to take the start capacitor out of the circuit once the motor comes up to speed. This type of relay is position sensitive. The normally closed contacts are wired in series with the start capacitor and the relay holding coil is wired parallel with the start winding. As the motor starts and comes up to speed, the increase in voltage across the start winding will energize the start relay holding coil and open the contacts to the start capacitor.

Two quick ways to test a capacitor are a resistance and a capacitance check.

S-15A RESISTANCE CHECK



1. Discharge capacitor and remove wire leads.

Discharge capacitor through a 20 to 30 OHM resistor before handling.



TESTING CAPACITOR RESISTANCE

- 2. Set an ohmmeter on its highest ohm scale and connect the leads to the capacitor
 - a. Good Condition indicator swings to zero and slowly returns to infinity. (Start capacitor with bleed resistor will not return to infinity. It will still read the resistance of the resistor).
 - b. Shorted indicator swings to zero and stops there -replace.
 - c. Open no reading replace. (Start capacitor would read resistor resistance.)

S-15B CAPACITANCE CHECK

Using a hookup as shown below, take the amperage and voltage readings and use them in the formula:



TESTING CAPACITANCE

-A WARNING -

Discharge capacitor through a 20 to 30 OHM resistor before handling.

Capacitance (MFD) = <u>2650 X Amperage</u> Voltage

S-16 CHECKING MOTORS

S-16A CHECKING FAN MOTOR WINDINGS (PSC MOTORS)

Applies only to the condenser fan motors

The auto reset fan motor overload is designed to protect the motor against high temperature and high amperage conditions by breaking the common circuit within the motor, similar to the compressor internal overload. However, heat generated within the motor is faster to dissipate than the compressor, allow at least 45 minutes for the overload to reset, then retest.



- 1. Remove the motor leads from its respective connection points and capacitor (if applicable).
- 2. Check the continuity between each of the motor leads.
- 3. Touch one probe of the ohmmeter to the motor frame (ground) and the other probe in turn to each lead.

If the windings do not test continuous or a reading is obtained from lead to ground, replace the motor.

S-17 CHECKING COMPRESSOR WINDINGS

Hermetic compressor electrical terminal venting can be dangerous. When insulating material which supports a hermetic compressor or electrical terminal suddenly disintegrates due to physical abuse or as a result of an electrical short between the terminal and the compressor housing, the terminal may be expelled, venting the vapor and liquid contents of the compressor housing and system.

If the compressor terminal PROTECTIVE COVER and gasket (if required) are not properly in place and secured, there is a remote possibility if a terminal vents, that the vaporous and liquid discharge can be ignited, spouting flames several feet, causing potentially severe or fatal injury to anyone in its path.

This discharge can be ignited external to the compressor if the terminal cover is not properly in place and if the discharge impinges on a sufficient heat source.

Ignition of the discharge can also occur at the venting terminal or inside the compressor, if there is sufficient contaminant air present in the system and an electrical arc occurs as the terminal vents.

Ignition cannot occur at the venting terminal without the presence of contaminant air, and cannot occur externally from the venting terminal without the presence of an external ignition source.

Therefore, proper evacuation of a hermetic system is essential at the time of manufacture and during servicing.

To reduce the possibility of external ignition, all open flame, electrical power, and other heat sources should be extinguished or turned off prior to servicing a system.

S-17A RESISTANCE TEST

Each compressor is equipped with an internal overload.

The line break internal overload senses both motor amperage and winding temperature. High motor temperature or amperage heats the disc causing it to open, breaking the common circuit within the compressor on single phase units.

Heat generated within the compressor shell, usually due to recycling of the motor, high amperage or insufficient gas to cool the motor, is slow to dissipate. Allow at least three to four hours for it to cool and reset, then retest.



1. Remove the leads from the compressor terminals.

WARNING

See warnings S-17 before removing compressor terminal cover.

2. Using an ohmmeter, test continuity between terminals S-R, C-R, and C-S, on single phase units or terminals T1, T2 and T3, on 3 phase units.



TESTING COMPRESSOR WINDINGS

If either winding does not test continuous, replace the compressor.

NOTE: If an open compressor is indicated, allow ample time for the internal overload to reset before replacing compressor.

S-17B GROUND TEST

If fuse, circuit breaker, ground fault protective device, etc., has tripped, this is a strong indication that an electrical problem exists and must be found and corrected. The circuit protective device rating must be checked, and its maximum rating should coincide with that marked on the equipment nameplate. With the terminal protective cover in place, it is acceptable to replace the fuse or reset the circuit breaker <u>ONE TIME</u> <u>ONLY</u> to see if it was just a nuisance opening. If it opens again, <u>DO NOT</u> continue to reset.

Disconnect ALL power before servicing.

Disconnect all power to unit, making sure that <u>all</u> power legs are open.

- 1. DO NOT remove protective terminal cover. Disconnect the three leads going to the compressor terminals at the nearest point to the compressor.
- 2. Identify the leads and using a Megger, Hi-Potential Ground Tester, or other suitable instrument which puts out a voltage between 300 and 1500 volts, check for a ground separately between each of the three leads and ground (such as an unpainted tube on the compressor). Do not use a low voltage output instrument such as a volt-ohmmeter.



COMPRESSOR GROUND TEST

- 3. If a ground is indicated, then carefully remove the compressor terminal protective cover and inspect for loose leads or insulation breaks in the lead wires.
- 4. If no visual problems indicated, carefully remove the leads at the compressor terminals.

WARNING -

Damage can occur to the glass embedded terminals if the leads are not properly removed. This can result in terminal and hot oil discharging.

Carefully retest for ground, directly between compressor terminals and ground.

5. If ground is indicated, replace the compressor.

S-17D OPERATION TEST

If the voltage, capacitor, overload and motor winding test fail to show the cause for failure:

- WARNING ·

HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

1. Remove unit wiring from disconnect switch and wire a test cord to the disconnect switch.

NOTE: The wire size of the test cord must equal the line wire size and the fuse must be of the proper size and type.

- 2. With the protective terminal cover in place, use the three leads to the compressor terminals that were disconnected at the nearest point to the compressor and connect the common, start and run clips to the respective leads.
- 3. Connect good capacitors of the right MFD and voltage rating into the circuit as shown.
- 4. With power ON, close the switch.

-A WARNING

Line Voltage now present.

- A. If the compressor starts and continues to run, the cause for failure is somewhere else in the system.
- B. If the compressor fails to start replace.

S-18 TESTING CRANKCASE HEATER (OPTION-AL ITEM)

The crankcase heater must be energized a minimum of four (4) hours before the condensing unit is operated.

Crankcase heaters are used to prevent migration or accumulation of refrigerant in the compressor crankcase during the off cycles and prevents liquid slugging or oil pumping on start up.

A crankcase heater will not prevent compressor damage due to a floodback or over charge condition.

Disconnect ALL power before servicing.

- 1. Disconnect the heater lead in wires.
- 2. Using an ohmmeter, check heater continuity should test continuous. If not, replace.

The condition of the scroll flanks is checked in the following manner.

1. Attach gauges to the high and low side of the system.

2. Start the system and run a "Cooling Performance Test.

If the test shows:

- a. <u>Below</u> normal high side pressure.
- b. <u>Above</u> normal low side pressure.
- c. Low temperature difference across coil.
- d. <u>Low</u> amp draw at compressor.

And the charge is correct. The compressor is faulty - replace the compressor.

S-50 CHECKING HEATER LIMIT CONTROL(S)

(OPTIONAL ELECTRIC HEATERS)

Each individual heater element is protected with an automatic rest limit control connected in series with each element to prevent overheating of components in case of low airflow. This limit control will open its circuit at approximately 150°F. to 160°F and close at approximately 110°F.

Disconnect ALL power before servicing.

- 1. Remove the wiring from the control terminals.
- 2. Using an ohmmeter test for continuity across the normally closed contacts. No reading indicates the control is open - replace if necessary. Make sure the limits are cool before testing.

IF FOUND OPEN - REPLACE - DO NOT WIRE AROUND.

S-52 CHECKING HEATER ELEMENTS

Optional electric heaters may be added, in the quantities shown in the spec sheet for each model unit, to provide electric resistance heating. Under no condition shall more heaters than the quantity shown be installed.

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

- 1. Disassemble and remove the heating element(s).
- 2. Visually inspect the heater assembly for any breaks in the wire or broken insulators.
- 3. Using an ohmmeter, test the element for continuity no reading indicates the element is open. Replace as necessary.

S-100 REFRIGERATION REPAIR PRACTICE

Always remove the refrigerant charge in a proper manner before applying heat to the system.

When repairing the refrigeration system:

- A WARNING -

Disconnect ALL power before servicing.

- 1. Never open a system that is under vacuum. Air and moisture will be drawn in.
- 2. Plug or cap all openings.
- 3. Remove all burrs and clean the brazing surfaces of the tubing with sand cloth or paper. Brazing materials do not flow well on oxidized or oily surfaces.
- 4. Clean the inside of all new tubing to remove oils and pipe chips.
- 5. When brazing, sweep the tubing with dry nitrogen to prevent the formation of oxides on the inside surfaces.
- 6. Complete any repair by replacing the liquid line drier in the system, evacuate and charge.

BRAZING MATERIALS

Copper to Copper Joints - Sil-Fos used without flux (alloy of 15% silver, 80% copper, and 5% phosphorous). Recommended heat 1400°F.

Copper to Steel Joints - Silver Solder used without a flux (alloy of 30% silver, 38% copper, 32% zinc). Recommended heat - 1200° F.

S-101 LEAK TESTING

(NITROGEN OR NITROGEN-TRACED)



To avoid the risk of fire or explosion, never use oxygen, high pressure air or flammable gases for leak testing of a refrigeration system.

To avoid possible explosion, the line from the nitrogen cylinder must include a pressure regulator and a pressure relief valve. The pressure relief valve must be set to open at no more than 150 psig.

Pressure test the system using dry nitrogen and soapy water to locate leaks. If you wish to use a leak detector, charge the system to 10 psi using the appropriate refrigerant then use nitrogen to finish charging the system to working pressure, then apply the detector to suspect areas. If leaks are found, repair them. After repair, repeat the pressure test. If no leaks exist, proceed to system evacuation.

S-102 EVACUATION



REFRIGERANT UNDER PRESSURE! Failure to follow proper procedures may cause property damage, personal injury or death.

This is the most important part of the entire service procedure. The life and efficiency of the equipment is dependent upon the thoroughness exercised by the serviceman when evacuating air (non-condensables) and moisture from the system.

Air in a system causes high condensing temperature and pressure, resulting in increased power input and reduced performance.

Moisture chemically reacts with the refrigerant oil to form corrosive acids. These acids attack motor windings and parts, causing breakdown.

The equipment required to thoroughly evacuate the system is a high vacuum pump, capable of producing a vacuum equivalent to 25 microns absolute and a thermocouple vacuum gauge to give a true reading of the vacuum in the system

NOTE: Never use the system compressor as a vacuum pump or run when under a high vacuum. Motor damage could occur.

Do not front seat the service valve(s) with the compressor open, with the suction line of the compressor closed or severely restricted.

- 1. Connect the vacuum pump, vacuum tight manifold set with high vacuum hoses, thermocouple vacuum gauge and charging cylinder as shown.
- 2. Start the vacuum pump and open the shut off valve to the high vacuum gauge manifold only. After the compound gauge (low side) has dropped to approximately 29 inches of vacuum, open the valve to the vacuum thermocouple gauge. See that the vacuum pump will blank-off to a maximum of 25 microns. A high vacuum pump can only produce a good vacuum if its oil is non-contaminated.



EVACUATION

- If the vacuum pump is working properly, close the valve to the vacuum thermocouple gauge and open the high and low side valves to the high vacuum manifold set. With the valve on the charging cylinder closed, open the manifold valve to the cylinder.
- 4. Evacuate the system to at least 29 inches gauge before opening valve to thermocouple vacuum gauge.
- Continue to evacuate to a maximum of 250 microns. Close valve to vacuum pump and watch rate of rise. If vacuum does not rise above 1500 microns in three to five minutes, system can be considered properly evacuated.
- 6. If thermocouple vacuum gauge continues to rise and levels off at about 5000 microns, moisture and non-condensables are still present. If gauge continues to rise a leak is present. Repair and re-evacuate.
- 7. Close valve to thermocouple vacuum gauge and vacuum pump. Shut off pump and prepare to charge.

S-103 CHARGING

🛕 WARNING -

- REFRIGERANT UNDER PRESSURE!
- * Do not overcharge system with refrigerant. * Do not operate unit in a vacuum or at negative

pressure. Failure to follow proper procedures may cause property damage, personal injury or death.

Only use refrigerant certified to AHRI standards. Used refrigerant may cause compressor damage. The manufacturer is not responsible for damage or the need for repairs resulting from the use of unapproved refrigerant types or used or recycled refrigerant. Most portable machines cannot clean used refrigerant to meet AHRI standards.

Charge the system with the exact amount of refrigerant.

Refer to the specification section or check the unit nameplates for the correct refrigerant charge.

An inaccurately charged system will cause future problems.

- 1. Using a quality set of charging scales, weigh the proper amount of refrigerant for the system. Allow liquid refrigerant only to enter the high side.
- 2. After the system will take all it will take, close the valve on the high side of the charging manifold.
- 3. Start the system and charge the balance of the refrigerant through the low side.

NOTE: R410A should be drawn out of the storage container or drum in liquid form due to its fractionation properties, but should be "Flashed" to its gas state before entering the system. There are commercially available restriction devices that fit into the system charging hose set to accomplish this. **DO NOT** charge liquid R410A into the compressor.

4. With the system still running, close the valve on the charging cylinder. At this time, you may still have some liquid refrigerant in the charging cylinder hose and will definitely have liquid in the liquid hose. Reseat the liquid line core. Slowly open the high side manifold valve and transfer the liquid refrigerant from the liquid line hose and charging cylinder hose into the suction service valve port. CAREFUL: Watch so that liquid refrigerant does not enter the compressor.

Final Charge Adjustment

The outdoor temperature must be 60°F or higher. Set the room thermostat to COOL, fan switch to AUTO, and set the temperature control well below room temperature.

After system has stabilized per startup instructions, compare the operating pressures and outdoor unit amp draw to the numbers listed in the spec sheet manual. If pressures and amp draw are too low, add charge. If pressures and amp draw are too high, remove charge. Check subcooling and superheat as detailed in the following section.

- 5. With the system still running, remove hose and reinstall both valve caps.
- 6. Check system for leaks.

Due to their design, Scroll compressors are inherently more tolerant of liquid refrigerant.

NOTE: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.S-104 CHECKING COMPRESSOR EFFICIENCY

The reason for compressor inefficiency is broken or damaged suction and/or discharge valves, or scroll flanks on Scroll compressors, reducing the ability of the compressor to pump refrigerant vapor.

The condition of the valves or scroll flanks is checked in the following manner.

- 1. Attach gauges to the high and low side of the system.
- 2. Start the system and run a Cooling Performance Test.

If the test shows-

- \Rightarrow <u>Below</u> normal high side pressure.
- \Rightarrow <u>Above</u> normal low side pressure.
- \Rightarrow <u>Low</u> temperature difference across coil.
- \Rightarrow <u>Low</u> amp draw at compressor.

-and the charge is correct. The compressor is faulty - replace the compressor.

S-104 CHECKING COMPRESSOR EFFICIENCY

The reason for compressor inefficiency is broken or damaged

scroll flanks on Scroll compressors, reducing the ability of the compressor to pump refrigerant vapor.

During the "OFF" cycle, the high side pressure bleeds to the low side through the fixed orifice restriction device. Check equalization time as follows:

- 1. Attach a gauge manifold to the suction and liquid line dill valves.
- 2. Start the system and allow the pressures to stabilize.
- 3. Stop the system and check the time it takes for the high and low pressure gauge readings to equalize.

If it takes more than seven (7) minutes to equalize, the restrictor device is inoperative. Replace, install a liquid line drier, evacuate and recharge.

S-106 OVERFEEDING

Overfeeding by the expansion valve results in high suction pressure, cold suction line, and possible liquid slugging of the compressor.

If these symptoms are observed:

- 1. Check for an overcharged unit by referring to the cooling performance charts in the spec sheet manual.
- 2. Check the operation of the power element in the valve as explained in S-110 Checking Expansion Valve Operation.
- 3. Check for restricted or plugged equalizer tube.

S-108 CHECKING SUPERHEAT

Refrigerant gas is considered superheated when its temperature is higher than the saturation temperature corresponding to its pressure. The degree of superheat equals the degrees of temperature increase above the saturation temperature at existing pressure. See Temperature - Pressure Chart.

To prevent personal injury, carefully connect and disconnect manifold gauge hoses. Escaping liquid refrigerant can cause burns. Do not vent refrigerant to atmosphere. Recover during system repair or final unit disposal.

- 1. Run system at least 10 minutes to allow pressure to stabilize.
- 2. Temporarily install thermometer on suction (large) line near compressor with adequate contact and insulate for best possible reading.
- 3. Refer to the superheat table provided for proper system superheat. Add charge to lower superheat or recover charge to raise superheat.

Superheat Formula = Suct. Line Temp. - Sat. Suct. Temp.

Ambient Condenser Inlet Temp	R	eturn Air	Temp. ('	'F Drybu	lb)
(°F Drybulb)	65	70	75	80	85
100				10	10
95			10	10	10
90			12	15	18
85		10	13	17	20
80		10	15	21	26
75	10	13	17	25	29
70	10	17	20	28	32
65	13	19	26	32	35
60	17	25	30	33	37

System Superheat

EXAMPLE:

- a. Suction Pressure = 143
- b. Corresponding Temp. °F. = 50
- c. Thermometer on Suction Line = 59°F.

To obtain the degrees temperature of superheat, subtract 50.0 from 59.0 $^{\circ}\text{F}.$

The difference is 9° Superheat. The 9° Superheat would fall in the \pm range of allowable superheat.

S-109 CHECKING SUBCOOLING

Refrigerant liquid is considered subcooled when its temperature is lower than the saturation temperature corresponding to its pressure. The degree of subcooling equals the degrees of temperature decrease below the saturation temperature at the existing pressure.

- 1. Attach an accurate thermometer or preferably a thermocouple type temperature tester to the liquid line close to the pressure switch.
- 2. Install a high side pressure gauge on the high side (liquid) service valve at the front of the unit.
- 3. Record the gauge pressure and the temperature of the line.
- 4. Compare the hi-pressure reading to the "Required Liquid Line Temperature" chart on the preceding page. Find the hi-pressure value on the left column. Follow that line right to the column under the design subcooling value. Where the two intersect is the required liquid line temperature.

Alternately you can convert the liquid line pressure gauge reading to temperature by finding the gauge reading in Temperature - Pressure Chart and reading to the left, find the temperature in the °F. Column.

5. The difference between the thermometer reading and pressure to temperature conversion is the amount of subcooling.

Add charge to raise subcooling. Recover charge to lower subcooling.

Subcooling Formula = Sat. Liquid Temp. - Liquid Line Temp.

EXAMPLE:

- a. Liquid Line Pressure = 417
- b. Corresponding Temp. °F. = 120°
- c. Thermometer on Liquid line = 109°F.

To obtain the amount of subcooling, subtract 109°F from 120°F.

The difference is 11° subcooling. See the specification sheet for the design subcooling range for your unit.

See R410A Pressure vs. Temperature chart.

S-110 CHECKING EXPANSION VALVE

OPERATION

- 1. Remove the remote bulb of the expansion valve from the suction line.
- 2. Start the system and cool the bulb in a container of ice water, closing the valve. As you cool the bulb, the suction pressure should fall and the suction temperature will rise.
- 3. Next warm the bulb in your hand. As you warm the bulb, the suction pressure should rise and the suction temperature will fall.

- 4. If a temperature or pressure change is noticed, the expansion valve is operating. If no change is noticed, the valve is restricted, the power element is faulty, or the equalizer tube is plugged.
- 5. Capture the charge, replace the valve and drier, evacuate and recharge.

S-112 CHECKING RESTRICTED LIQUID LINE

When the system is operating, the liquid line is warm to the touch. If the liquid line is restricted, a definite temperature drop will be noticed at the point of restriction. In severe cases, frost will form at the restriction and extend down the line in the direction of the flow.

Discharge and suction pressures will be low, giving the appearance of an undercharged unit. However, the unit will have normal to high subcooling.

Locate the restriction, replace the restricted part, replace drier, evacuate and recharge.

S-113 OVERCHARGE OF REFRIGERANT

An overcharge of refrigerant is normally indicated by an excessively high head pressure.

An evaporator coil, using an expansion valve metering device, will basically modulate and control a flooded evaporator and prevent liquid refrigerant return to the compressor.

An evaporator coil, using a fixed orifice restrictor device (flowrator) metering device, could allow liquid refrigerant to return to the compressor under extreme overcharge conditions.

Also with a fixed orifice restrictor device (flowrator) metering device, extreme cases of insufficient indoor air can cause icing of the indoor coil and liquid refrigerant return to the compressor, but the head pressure would be lower.

There are other causes for high head pressure which may be found in the "Service Problem Analysis Guide."

If other causes check out normal, an overcharge or a system containing non-condensables would be indicated.

If this system is observed:

- 1. Start the system.
- 2. Remove and capture small quantities of refrigerant as from the suction line access fitting until the head pressure is reduced to normal.
- 3. Observe the system while running a cooling performance test. If a shortage of refrigerant is indicated, then the system contains non-condensables.

	Pressure vs. Temperature Chart											
					R-4	10	A					
PSIG	°F	PSIG	°F	PSIG	°F	F	PSIG	°F	PSIG	°F	PSIG	°F
12	-37.7	114.0	37.8	216.0	74.3	3	18.0	100.2	420.0	120.7	522.0	137.6
14	-34.7	116.0	38.7	218.0	74.9	3	20.0	100.7	422.0	121.0	524.0	137.9
16	-32.0	118.0	39.5	220.0	75.5	3	22.0	101.1	424.0	121.4	526.0	138.3
18	-29.4	120.0	40.5	222.0	76.1	3	24.0	101.6	426.0	121.7	528.0	138.6
20	-36.9	122.0	41.3	224.0	76.7		26.0	102.0	428.0	122.1	530.0	138.9
22	-24.5	124.0	42.2	226.0	77.2		28.0	102.4	430.0	122.5	532.0	139.2
24	-22.2	126.0	43.0	228.0	77.8		30.0	102.9	432.0	122.8	534.0	139.5
26	-20.0	128.0	43.8	230.0	78.4		32.0	103.3	434.0	123.2	536.0	139.8
28	-17.9	130.0	44.7	232.0	78.9		34.0	103.7	436.0	123.5	538.0	140.1
30	-15.8	132.0	45.5	234.0	79.5		36.0	104.2	438.0	123.9	540.0	140.4
32	-13.8	134.0	46.3	236.0	80.0		38.0	104.6	440.0	124.2	544.0	141.0
34	-11.9	136.0	47.1	238.0	80.6		40.0	105.1	442.0	124.6	548.0	141.6
36 38	-10.1	138.0	47.9	240.0	81.1		42.0	105.4	444.0	124.9	552.0	142.1
40	-8.3 -6.5	140.0	48.7 49.5	242.0	81.6 82.2		44.0	105.8 106.3	446.0	125.3 125.6	556.0 560.0	142.7 143.3
40	-0.5	142.0 144.0	49.5 50.3	244.0 246.0	82.7		46.0	106.5	448.0 450.0	125.0	564.0	143.9
42	-4.5	144.0	50.5	248.0	83.3		40.0 50.0	100.0	450.0	126.3	568.0	143.9
46	-1.6	148.0	51.1	250.0	83.8		52.0	107.5	454.0	126.6	572.0	145.0
48	0.0	150.0	52.5	252.0	84.3		54.0	107.9	456.0	120.0	576.0	145.6
50	1.5	152.0	53.3	254.0	84.8		56.0	108.3	458.0	127.3	580.0	146.2
52	3.0	154.0	54.0	256.0	85.4		58.0	108.8	460.0	127.7	584.0	146.7
54	4.5	156.0	54.8	258.0	85.9		60.0	109.2	462.0	128.0	588.0	147.3
56	5.9	158.0	55.5	260.0	86.4		62.0	109.6	464.0	128.3	592.0	147.9
58	7.3	160.0	56.2	262.0	86.9		64.0	110.0	466.0	128.7	596.0	148.4
60	8.6	162.0	57.0	264.0	87.4		66.0	110.4	468.0	129.0	600.0	149.0
62	10.0	164.0	57.7	266.0	87.9	3	68.0	110.8	470.0	129.3	604.0	149.5
64	11.3	166.0	58.4	268.0	88.4	3	70.0	111.2	472.0	129.7	608.0	150.1
66	12.6	168.0	59.0	270.0	88.9	3	72.0	111.6	474.0	130.0	612.0	150.6
68	13.8	170.0	59.8	272.0	89.4		74.0	112.0	476.0	130.3	616.0	151.2
70	15.1	172.0	60.5	274.0	89.9		76.0	112.4	478.0	130.7	620.0	151.7
72	16.3	174.0	61.1	276.0	90.4		78.0	112.6	480.0	131.0	624.0	152.3
74	17.5	176.0	61.8	278.0	90.9		80.0	113.1	482.0	131.3	628.0	152.8
76	18.7	178.0	62.5	280.0	91.4		82.0	113.5	484.0	131.6	632.0	153.4
78	19.8	180.0	63.1	282.0	91.9		84.0	113.9	486.0	132.0	636.0	153.9
80	21.0	182.0	63.8	284.0	92.4		86.0	114.3	488.0	132.3	640.0	154.5
82	22.1	184.0	64.5	286.0	92.8		88.0	114.7	490.0	132.6	644.0	155.0
84	23.2 24.3	186.0	65.1	288.0	93.3		90.0	115.0	492.0	132.9	648.0	155.5
86 88	24.3	188.0 190.0	65.8 66.4	290.0 292.0	93.8 94.3		92.0 94.0	115.5 115.8	494.0 496.0	133.3 133.6	652.0 656.0	156.1 156.6
90	25.4	190.0	67.0	292.0	94.3 94.8		94.0	116.2	496.0	133.9	660.0	150.0
90 92	20.4	192.0	67.0	294.0	94.0 95.2		98.0	116.6	498.0 500.0	133.9	664.0	157.1
92 94	27.4	194.0	68.3	296.0	95.2 95.7		00.0	117.0	500.0	134.0	668.0	158.2
94 96	20.5	198.0	68.9	300.0	96.2		02.0	117.3	502.0	134.8	672.0	158.7
98	30.5	200.0	69.5	302.0	96.6		04.0	117.7	506.0	135.2	676.0	159.2
100	31.2	202.0	70.1	304.0	97.1		06.0	118.1	508.0	135.5	680.0	159.8
100	32.2	204.0	70.7	306.0	97.5		08.0	118.5	510.0	135.8	684.0	160.3
104	33.2	206.0	71.4	308.0	98.0		10.0	118.8	512.0	136.1	688.0	160.8
106	34.1	208.0	72.0	310.0	98.4		12.0	119.2	514.0	136.4	692.0	161.3
108	35.1	210.0	72.6	312.0	98.9		14.0	119.6	516.0	136.7	696.0	161.8
110	35.5	212.0	73.2	314.0	99.3		16.0	119.9	518.0	137.0		
112	36.9	214.0	73.8	316.0	99.7		18.0	120.3	520.0	137.3		

*Based on ALLIED SIGNAL Data

SUBCOOLING

REQUIRE	REQUIRED LIQUID LINE TEMPERATURE								
LIQUID PRESSURE	R	EQUIRED S	SUBCOOLII	NG TEMPE	RATURE (°	F)			
AT ACCESS FITTING (PSIG)	8	10	12	14	16	18			
189	58	56	54	52	50	48			
195	60	58	56	54	52	50			
202	62	60	58	56	54	52			
208	64	62	60	58	56	54			
215	66	64	62	60	58	56			
222	68	66	64	62	60	58			
229	70	68	66	64	62	60			
236	72	70	68	66	64	62			
243	74	72	70	68	66	64			
251	76	74	72	70	68	66			
259	78	76	74	72	70	68			
266	80	78	76	74	72	70			
274	82	80	78	76	74	72			
283	84	82	80	78	76	74			
291	86	84	82	80	78	76			
299	88	86	84	82	80	78			
308	90	88	86	84	82	80			
317	92	90	88	86	84	82			
326	94	92	90	88	86	84			
335	96	94	92	90	88	86			
345	98	96	94	92	90	88			
354	100	98	96	94	92	90			
364	102	100	98	96	94	92			
374	104	102	100	98	96	94			
384	106	104	102	100	98	96			
395	108	106	104	102	100	98			
406	110	108	106	104	102	100			
416	112	110	108	106	104	102			
427	114	112	110	108	106	104			
439	116	114	112	110	108	106			
450	118	116	114	112	110	108			
462	120	118	116	114	112	110			
474	122	120	118	116	114	112			
486	124	122	120	118	116	114			
499	126	124	122	120	118	116			
511	128	126	124	122	120	118			

S-114 NON-CONDENSABLES

If non-condensables are suspected, shut down the system and allow the pressures to equalize. Wait at least 15 minutes. Compare the pressure to the temperature of the coldest coil since this is where most of the refrigerant will be. If the pressure indicates a higher temperature than that of the coil temperature, non-condensables are present.

Non-condensables are removed from the system by first removing the refrigerant charge, replacing and/or installing liquid line drier, evacuating and recharging.

S-115 COMPRESSOR BURNOUT

When a compressor burns out, high temperature develops causing the refrigerant, oil and motor insulation to decompose forming acids and sludge.

If a compressor is suspected of being burned-out, attach a refrigerant hose to the liquid line dill valve and properly remove and dispose of the refrigerant.

Violation of EPA regulations may result in fines or other penalties.

Now determine if a burn out has actually occurred. Confirm by analyzing an oil sample using a Sporlan Acid Test Kit, AK-3 or its equivalent.

Remove the compressor and obtain an oil sample from the suction stub. If the oil is not acidic, either a burnout has not occurred or the burnout is so mild that a complete clean-up is not necessary.

If acid level is unacceptable, the system must be cleaned by using the clean-up drier method.

Do not allow the sludge or oil to contact the skin. Severe burns may result.

NOTE: Daikin does **NOT** approve the flushing method using R-11 refrigerant.

Suction Line Drier Clean-Up Method

The POE oils used with R410A refrigerant is an excellent solvent. In the case of a burnout, the POE oils will remove any burnout residue left in the system. If not captured by the refrigerant filter, they will collect in the compressor or other system components, causing a failure of the replacement compressor and/or spread contaminants throughout the system, damaging additional components.

The suction line filter drier should be installed as close to the compressor suction fitting as possible. The filter must be accessible and be rechecked for a pressure drop after the system has operated for a time. It may be necessary to use new tubing and form as required. **NOTE:** At least twelve (12) inches of the suction line immediately out of the compressor stub must be discarded due to burned residue and contaminates.

- 1. Remove the liquid line drier and expansion valve.
- 2. Purge all remaining components with dry nitrogen or carbon dioxide until clean.
- 3 Install new components **including** liquid line drier.
- Braze all joints, leak test, evacuate, and recharge system.
- 5. Start up the unit and record the pressure drop across the drier.
- 6. Continue to run the system for a minimum of twelve (12) hours and recheck the pressure drop across the drier. Pressure drop should not exceed 6 PSIG.
- Continue to run the system for several days, repeatedly checking pressure drop across the suction line drier. If the pressure drop never exceeds the 6 PSIG, the drier has trapped the contaminants. Remove the suction line drier from the system.
- 8. If the pressure drop becomes greater, then it must be replaced and steps 5 through 9 repeated until it does not exceed 6 PSIG.

NOTICE: Regardless, the cause for burnout must be determined and corrected before the new compressor is started.

S-200 CHECKING EXTERNAL STATIC PRESSURE

The minimum and maximum allowable duct static pressure is found in the Specifications Sheet Manual.

Too great of an external static pressure will result in insufficient air that can cause icing of the coil, whereas too much air can cause poor humidity control, and condensate to be pulled off the evaporator coil causing condensate leakage. Too much air can cause motor overloading and in many cases this constitutes a poorly designed system. To determine proper air movement, proceed as follows:

- 1. Using a draft gauge (inclined manometer) measure the static pressure of the return duct at the inlet of the unit, (Negative Pressure).
- 2. Measure the static pressure of the supply duct, (Positive Pressure).
- 3. Add the two readings together.

NOTE: Both readings may be taken simultaneously and read directly on the manometer if so desired.

4. Consult proper table for quantity of air.

If the external static pressure exceeds the minimum or maximum allowable statics, check for closed dampers, dirty filters, undersized or poorly laid out ductwork.

S-201 CHECKING TEMPERATURE RISE

Temperature rise is related to the BTUH output of the unit and the amount of air (CFM) circulated over the heat exchanger.

All units are designed for a given range of temperature increase. This is the temperature of the air leaving the unit minus the temperature of the air entering the unit.

The more air (CFM) being delivered through a given unit the less the rise will be; so the less air (CFM) being delivered, the greater the rise. The temperature rise should be adjusted in accordance to a given unit specifications and its external static pressure.

- 1. Check BTUH input to unit do not exceed input rating stamped on rating plate.
- 2. Take entering and leaving air temperatures.
- 3. Select the proper speed tap or dip switch setting for direct drive units.
- 4. For gas heat units, the airflow must be adjusted so that the air temperature rise falls within the ranges given stated on Data Plate by adjusting the variable pitch sheave on the motor (see Blower Performance section in appropriate Specifications Sheet Manual for correct pulley adjustment).
- 5. Take motor amperage draw to determine that the motor is not overloaded during adjustments.

S-205 CHECKING BELT TENSION

NOTE: Section on high static tables may require a field motor change.

BELT DRIVE

TENSION AND ALIGNMENT ADJUSTMENT

Check drive for adequate run-in belt tension. Correct belt tension is very important. A belt that is loose will have a substantially shorter life, and a belt that is too tight may cause premature motor and bearing failure. Correct belt tension on these units can be checked by measuring the force required to deflect the belt 1/8" at the midpoint of the span length (Figure 21). Belt tension force can be measured using a belt tension checker, available through most belt manufacturers. The correct deflection force is 5 lbs. for a new belt and 3.5 lbs. for a belt that has been run in. New belt tension includes initial belt stretch. When new V-belts are installed on a drive the initial tension will drop rapidly during the first few hours. Check tension frequently during the first 24 hours of operation. Subsequent retensioning should fall between the minimum and maximum force. To determine the deflection distance from the normal position, use a straightedge or stretch a cord from sheave to sheave to use as a reference line. On multiple belt drives, an adjacent undeflected belt can be used as a reference.



*Apply force to the center of the span.

t = Span length, inches

C = Center distance, inches

D = Larger sheave diameter, inches

d = Smaller sheave diameter, inches

h = Deflection height, inches

DRIVE BELT TENSION ADJUSTMENT

15&20 TON MODELS

MODEL		ТҮРЕ	SHEAVE DIAMETER (in)	DEFLE FORC	CTION E (Ibs)	DEFLECTION (in)
	BELT	DRIVE		Used	New	
15 Ton	B, BA	Standard	4.3 to 5.5	5.5 <u>+</u> .5	8.2 <u>+</u> .5	$1/4 \pm 1/16$
20 Ton 25 Ton	B, BA	Standard	4.3 to 5.5	5.5 <u>+</u> .5	8.2 <u>+</u> .5	$1/4 \pm 1/16$

RECOMMENDED POUNDS OF FORCE PER BELT

S-206 INDOOR FAN ROTATION CHECK

Evaporator Fan Rotation Check (Three Phase Models Only)

Check that fan rotates clockwise when viewed from the drive side of unit and in accordance with rotation arrow shown on blower housing. If it does not, reverse any two incoming power cables at Single Point Power Block. In this case, repeat bearing check.

Do not attempt to change load side wiring. Internal wiring assures all motors and compressors will rotate in correct direction once evaporator fan motor rotation check has been made.

S-207 MOTOR SHEAVE ADJUSTMENTS

VL, VM & 2VP VARIABLE PITCH KEY TYPE MOTOR SHEAVES

The driving and driven motor sheaves should be in alignment with each other and the shafts parallel.

VL & VM SHEAVES ADJUSTMENT

- 1. Loosen set screw "B" using a 5/32" Allen key.
- 2. Making half or full turns from closed position, adjust sheave pitch diameter for desired speed. DO NOT OPEN MORE THAN SIX FULL TURNS.
- 3. Tighten set screw "B" securely over flat.
- 4. Carefully put on belts and adjust belt tension. DO NOT FORCE BELTS OVER GROOVES.
- 5. Ensure all keys are in place and the set screws tight before starting drive. Recheck set screws and belt tension after 24 hours service.

NOTE: Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.



NOTE: Do not operate sheave with flange projecting beyond the hub end.

S-300 TESTING PRIMARY LIMIT CONTROL

DCG units use a snap-disk type primary limit device. Sometimes referred to as "stat on a stick". The limit setting is fixed and must not be readjusted in the field.



TESTING PRIMARY LIMIT CONTROL

Refer to the specification section to determine the proper limit cutout temperature for the model being serviced.

In all instances the limit control is wired in series with the ignition control.

If the temperature within the furnace should exceed this setting, the control will open, de-energizing the ignition control which in turn will open the electrical circuit to the gas valve.

The control will automatically reset when the temperature within the combustion chamber is sufficiently lowered.

WARNING **HIGH VOLTAGE!**

or death.

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury

- 1. Remove electrical power to unit. Some units may have more than one source of power.
- 2. Remove the wires from the limit control terminals.
- 3. Using an ohmmeter, test for continuity across the two terminals.
- 4. If limit test open allow unit to cool and retest.
- 5. If still open, replace the control.

S-301 TESTING AUXILIARY LIMIT

The auxiliary limit control is a preset nonadjustable control mounted in the blower compartment area.

It is connected in series with the rollout switch wiring to the gas valve. If its temperature should be exceeded, it will open, interrupting the voltage to the gas valve causing it to open.

An additional limit (primary limit) control is required for safety control of high temperature within the furnace or ductwork.



- 1. Remove the wires from the auxiliary limit control terminals.
- 2. Using an ohmmeter, test for continuity across the two terminals. No reading indicates the control is open. Push the red reset button, test again - if still open, replace the control.
- 3. If limit tests open, allow unit to cool and retest.
- 4. If still open, replace the control.



TESTING AUXILIARY LIMIT CONTROL

S-302 CHECKING FLAME ROLLOUT SWITCH

DCG units are equipped with a temperature-activated manual reset control. This control is mounted to the manifold assembly and is wired in series with the auxiliary limit and gas valve. The control is designed to open should a flame roll out occur. An over firing condition or flame impingement on the heat shield can also cause the control to open.

If the rollout control has opened, the circuit between the ignition control and gas valve will be interrupted and the ignition control module will go into lockout. The servicer should reset the ignition control by opening and closing the thermostat circuit. The servicer should look for the ignitor glowing which indicates there is power to the ignition control. The servicer should measure the voltage between each side of the rollout control and ground while the ignition control is try to power the gas valve.



CHECKING FLAME ROLLOUT SWITCH Limit Switch Operation (Applies to Primary, Auxiliary, and Roll Out Limits) DSI systems.

If a limit switch opens, the indoor blower is energized on heat speed and the induced draft blower is energized. The LED on the control flashes "4" to indicate an open limit switch. The blower and inducer remain on while the limit switch is open. The gas valve is de-energized. Power to

the thermostat "R" is removed while the limit switch is open.

When the limit switch re-closes, the induced draft motor runs through its post purge and the indoor blower goes through the heat off delay.

If a call for heat exists when the limit switch re-closes, the control goes through a pre-purge period and then makes an ignition attempt. The indoor blower remains on (for the delay off time) during the re-ignition attempt.

- 1. If no voltage is measured on either side of control it indicates ignition control or wiring to control problem.
- 2. If voltage is measured on one side of the control and not the other, it indicates the control is open.
- 3. If voltage is measured on both sides of the control the wiring to gas valve or valve is at fault.

Servicing procedure with furnace not firing.

- 1. Confirm that the outer door was in place and all screws tightened. (No leaks under the door.)
- 2. Check to see if any damage was done to the furnace especially the wiring.
- 3. Confirm that heat exchanger is not obstructed by feeling for discharge air from the flue hood when the combustion blower is running but the unit is not firing.

If the above steps do not suggest the reason the control has tripped the furnace should be fired.

- 1. Remove the heating compartment door.
- 2. Turn of the power or open the thermostat circuit.
- 3. Reset the rollout control.
- 4. Turn power on and put the unit into a call for heating.

Flame rollout could occur. Keep face and hands a safe distance from burner area.

- 5. Look under the heat shield as the unit is running. Flames should be drawn into firing tubes.
 - a. If only one burners flame is not drawn into the tube, that tube is restricted.
 - b. If, without the air circulation blower running, all flames are not drawn into the tubes either the collector box, combustion blower, or flue outlet is obstructed. If the combustion blower or flue outlet is obstructed, the pressure switch should have opened preventing the unit from firing, also inspect the unit pressure switch and wiring.
 - c. If the burner flame is not drawn into the tube only when the air circulation blower is running, then a cracked heat exchanger tube is present.

S-303 TESTING INDUCER MOTOR

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

- 1. Disconnect the motor wire leads from its connection point at integrated ignition control module.
- 2. Using and ohmmeter, test for continuity between each of the motor leads.
- 3. Touch one probe of the ohmmeter to the motor frame (ground) and the other probe in turn to each lead.

If the windings do not test continuous or a reading is obtained to ground, replace the motor.

- 4. After completing check and/or replacement of induced draft blower motor.
- 5. Turn on electrical power and verify proper unit operation.

S-304 TESTING GAS VALVE

Direct Spark Ignition (DSI) Systems

TWO STAGE MODELS ONLY: A two-stage combination redundant operator type gas valve which provides all manual and automatic control functions required for gas fired heating equipment is used.

The valve provides control of main burner gas flow, pressure regulation, and 100 percent safety shut-off.

- 🗛 WARNING 🛛

HIGH VOLTAGE! Disconnect ALL power before servicing

or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

- 1. Ensure gas valve and main gas supply are on.
- 2. Using a voltmeter, check from C and M on gas valve for 24 volts to gas valve.
- 3. If 24 volts are present and no gas flows through the valve, replace valve.



WHITE-RODGERS 36H54 PRESSURE ADJUSTMENTS



HONEYWELL 0151M00015 PRESSURE ADJUSTMENTS

S-305 CHECKING MAIN BURNERS

The main burners are used to provide complete combustion of various fuels in a limited space, and transfer this heat of the burning process to the heat exchanger.

Proper ignition, combustion, and extinction are primarily due to burner design, orifice sizing, gas pressure, primary and secondary air, vent and proper seating of burners.



BECKETT BURNER



In checking main burners, look for signs of rust, oversized and undersized carry-over ports restricted with foreign material, etc.

S-306 CHECKING ORIFICES

A predetermined fixed gas orifice is used in all of these furnaces. That is an orifice which has a fixed bore and position.



The length of Dimension "A" determines the angle of Gas Stream Defraction, "B".

A dent or burr will cause severe deflection of gas stream.

No resizing should be attempted until all factors are taken into consideration such as inlet manifold gas pressure, alignment, and positioning, specific gravity and BTU content of the gas being consumed.

The only time resizing is required is when a reduction in firing rate is required for an increase in altitude.

Orifices should be treated with care in order to prevent damage. They should be removed and installed with a box-end wrench in order to prevent distortion. In no instance should an orifice be peened over and redrilled. This will change the angle or deflection of the vacuum effect or entraining of primary air, which will make it difficult to adjust the flame properly. This same problem can occur if an orifice spud of a different length is substituted.



- 1. Check orifice visually for distortion and/or burrs.
- 2. Check orifice size with orifice sizing drills.
- 3. If resizing is required, a new orifice of the same physical size and angle with proper drill size opening should be installed.

S-307 CHECKING GAS PRESSURE

Gas inlet and manifold pressures should be checked and adjusted in accordance to the type of fuel being consumed.

-A WARNING

Disconnect gas and electrical power supply.

- 1. Connect a water manometer or adequate gauge to the inlet pressure fitting of the gas valve.
- 2. Remove the pressure tap fitting at the manifold if provided or check at the gas valve outlet fitting and connect another manometer or gauge.



TWO-STAGE H VALVE MEASURING INLET AND MANIFOLD GAS PRESSURE



HONEYWELL 2 STAGE GAS VALVE

With Power ON:



3. Put unit into heating cycle and turn on all other gas consuming appliances.

For NATURAL GAS:

- a. Inlet pressure should be a nominal 7" w.c.
- b. (2 stage heat models only) Manifold pressure on low stage should be 2.0" w.c. <u>+</u> 3" w.c.
- c. Manifold pressure for single stage heat models and 2 stage heat models on high stage should be 3.5" ± .3"w.c.

For PROPANE GAS:

- a. Inlet pressure should be a nominal 11" w.c.
- b. (2 stage heat modles only) Manifold pressure for 2 stage heating models on low stage should be 6" w.c.
- c. Manifold pressure for single stage heat models and 2 stage heat models on high stage should be 10" w.c.

MANIFOLD GAS PRESSURE 2 Stage Heat Models

Gas		Range	Nominal					
Natural	Low Stage	1.6 - 2.2" w.c.	2.0" w.c.					
Inatural	High Stage	3.2 - 3.8" w.c.	3.5" w.c.					
Dronono	Low Stage	5.7 - 6.3" w.c.	6.0" w.c.					
Propane	High Stage	9.7 - 10.3" w.c.	10.0" w.c.					

If operating pressures differ from chart, make necessary pressure regulator adjustments, check piping size, etc., and/or consult with local utility.

S-308 CHECKING FOR DELAYED IGNITION

Delayed ignition is a delay in lighting a combustible mixture of gas and air which has accumulated in the combustion chamber.

When the mixture does ignite, it may explode and/or rollout causing burning in the burner venturi.

If delayed ignition should occur, the following should be checked:

- 1. Improper gas pressure adjust to proper pressure. (See S-307)
- 2. Improper burner positioning burners should be in locating slots, level front to rear and left to right.
- 3. Carry over (lighter tube or cross lighter) obstructed clean.
- 4. Main burner orifice(s) deformed, or out of alignment to burner replace.

S-309 CHECKING FOR FLASHBACK

Flashback will also cause burning in the burner venturi, but is caused by the burning speed being greater than the gas-air flow velocity coming from a burner port.

Flashback may occur at the moment of ignition, after a burner heats up or when the burner turns off. The latter is known as extinction pop.

Since the end results of flashback and delayed ignition can be the same (burning in the burner venturi) a definite attempt should be made to determine which has occurred.

If flashback should occur, check for the following:

- 1. Improper gas pressure adjust to proper pressure. See S-307.
- 2. Check burner for proper alignment and/or replace burner.
- 3. Improper orifice size check orifice for obstruction.

S-310 CHECKING PRESSURE CONTROL

A pressure control device is used to measure negative pressure at the induced draft blower motor inlet to detect a partial or blocked flue.

Pressure Switch Operation (DSI Direct Spark System)

The pressure switch is ignored unless there is a call for heat. When the control receives a call for heat, the control checks to see that the pressure switch is open. If the control sees that the pressure switch is closed before the induced draft blower is energized, the LED will flash a code of "2" (to indicate the pressure switch is stuck closed) and the inducer will remain off until the pressure switch opens.

If the pressure switch opens before the ignition period, the induced draft blower will remain on and the control will stay in pre-purge until the pressure switch is closed for an entire 15 second pre-purge period. The LED will flash a code of "3" to indicate open pressure switch.

If the pressure switch opens after the gas valve has been energized, the control will de-energize the gas valve and run the indoor blower through the heat off delay. The inducer stays on until the pressure switch re-closes. Then the control makes another ignition attempt.

WARNING

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

- 1. Remove wires from the electrical terminals.
- Using a VOM check from Common to NO (Normally Open) - should read open.

If switch reads as noted proceed to Step 3, otherwise replace control.

3. Remove the pressure control hose from the control and interconnect with an inclined manometer as shown:



Reconnect wires to the Common and NO terminals.

With Power ON:



- Energize furnace for heating cycle. The induced draft blower motor will begin to run. The inclined manometer should read approximately -1.2" ± 0.3" W.C with no combustion.
- 5. Remove and check the two electrical wires and using the VOM check from Common to NO (Normally Open), it should read closed (with I.D. motor running). If not as above, replace pressure control.
- 6. Reconnect all wires to the control and place in heating cycle.
- 7. As the unit fires on high stage, the inclined manometer negative pressure will drop to $-0.9" \pm 0.3"$ W.C.
- 8. If not as listed, replace control.

Note: the pressure switch **must** be mounted with the diaphragm in a vertical position.

S-311 HIGH ALTITUDE APPLICATION

IMPORTANT NOTE: The gas/electric units naturally derate with altitude. Do not attempt to increase the firing rate by changing orifices or increasing the manifold pressure. This can cause poor combustion and equipment failure. At all altitudes, the manifold pressure must be within 0.3 inches W.C. of that listed on the nameplate for the fuel used. At all altitudes and with either fuel, the air temperature rise must be within the range listed on the unit nameplate. Refer to the Installation Manual provided with the LP kit for conversion from natural gas to propane gas and for altitude adjustments.

When this package unit is installed at high altitude, the appropriate High Altitude orifice kit must be installed. As altitude increases, there is a natural reduction in the density of both the gas fuel and combustion air. This kit will provide the proper design certified input rate within the specified altitude range. High altitude kits are not approved for

use in Canada. For installations above 2,000 feet, use kit HAKT36300. The HAKT36300 kit is used for both Natural and LP gas at high altitudes.

Use LPKT180300A propane conversion kit for propane conversions at altitudes below 2000 feet. Natural gas installations below 2000 feet do not require a kit.

For propane conversions above 2000 feet, high altitude kit HAKT36300 is required in addition to LPKT180300A propane conversion kit.

NATURAL GAS AND LP GAS INSTALLATIONS AT ALTITUDES > 2000 FT.

	HIGH	HIGH 35,000 BTUH NAT/33,000 BTUH/L.P.								
INPUT/BURNER	ALTITUDE		ELEV	ATION	ABOVE	SEA-L	EVEL (I	FEET)		
	КІТ	2000	3000	4000	4500	5000	6000	7000	8000	
U.S. BURNER ORIFICE	HAKT36300	35/53	36/53	36/53	-	37/53	37/53	38/53	39/54	
CANADA BURNER ORIFICE	HAKT36300	35/53	-	-	39/54	-	-	-	-	

	HIGH	HIGH 50,000 BTUH NAT/45,000 BTUH/L.P.									
INPUT/BURNER	ALTITUDE		ELEV	ATION	ABOVE	SEA-L	EVEL (I	FEET)			
	КІТ		3000	4000	4500	5000	6000	7000	8000		
U.S. BURNER ORIFICE	HAKT36300	29/48	30/48	30/49	-	30/49	30/49	31/50	31/50		
CANADA BURNER ORIFICE	HAKT36300	29/48	-	-	31/50	-	-	-	-		

S-313 TESTING IGNITION CONTROL MODULE

NOTE: Failure to earth ground the unit, reversing the neutral and hot wire connection to the line (polarity), or a high resistance connection in the ground or neutral lines may cause the control to lockout due to failure to detect flame.

HIGH VOLTAGE

Wiring to this unit must be properly polarized and grounded. Disconnect ALL power before installing or servicing this unit. Multiple power sources may be present.



The ground wire must run from the unit all the way back to the electrical panel. Proper grounding can be confirmed by disconnecting the electrical power and measuring resistance between the neutral (white) connection and the burner closest to the flame sensor. Resistance should be less than 10 ohms.

DSI Direct Spark Ignition Systems

NORMAL SEQUENCE OF OPERATION (DSI Direct Spark Ignition System)

- 1. Thermostat calls for heat by energizing "W". The control checks the pressure switch for open condition. If the pressure switch is closed the control will flash code "3" and wait for the pressure switch to open.
- 2. The induced draft motor is energized and the control flashes code "2" and waits for the pressure switch to close. Once the pressure switch is closed, the LED stops flashing and the control begins timing the 15 second pre-purge.



DSI Control Board

- 3. The control energizes the spark igniter and gas valve for 7 seconds. If flame is established, the control goes into a 30 second heat on delay.
- 4. The indoor blower is energized at the heat speed after a 30 second on delay.
- 5. The control monitors the safety circuit inputs, flame, and thermostat during operation.
- 6. When the thermostat is satisfied, the gas valve is de-energized and the induced draft blower remains on for a 29 second post purge. The indoor blower remains on for the selected heat blower off delay (90, 120, or 150 seconds). Indoor blower off timing begins when thermostat call for heat ends.

Testing Direct Spark Ignition (DSI) systems

Thermostat calling for heat (15 second prepurge time and 7 second trial for ignition).

- Check for 230 VAC from L1 terminal of control module to L2. No voltage - check wire connections, continuity, etc.
- 2. Check for 24 VAC at "R" to "C" thermostat terminals.
 - a. No voltage check 3 amp automotive type fuse on control board. A blown fuse would indicate a short in the 24 VAC circuit (thermostat or limit circuit).
 - b. Voltage Present check limit, auxiliary limit and rollout (S-300, S-301 and S-302). If limit, auxiliary limit and rollout are closed, then check for 24 VAC at the gas valve terminals.

No 24 VAC at gas valve - replace Control board.

TROUBLESHOOTING

IGNITION CONTROL ERROR CODES

The following presents probable causes of questionable unit operation. Refer to *Diagnostic Indicator Chart* for an interpretation of the signal and to this section for an explanation.

Remove the control box access panel and note the number of diagnostic LED flashes. Refer to *Diagnostic Indicator Chart* for an interpretation of the signal and to this section for an explanation.

Internal Control Failure

If the integrated ignition control in this unit encounters an internal fault, it will go into a "hard" lockout and turn off the diagnostic LED. If diagnostic LED indicates an internal fault, check power supply to unit for proper voltage, check all fuses, circuit breakers and wiring. Disconnect electric power for five seconds. If LED remains off after restoring power, replace control.

ABNORMAL OPERATION - HEATING CODES

External Lockout (1 FLASH CODE)

An external lockout occurs if the integrated ignition control determines that a measurable combustion cannot be established within three (3) consecutive ignition attempts. If flame is not established within the seven (7) second trial for ignition, the gas valve is deenergized, 15 second inter-purge cycle is completed, and ignition is reattempted. The control will repeat this routine three times if a measurable combustion is not established. The control will then shut off the induced draft blower and go into a lockout state.

If flame is established but lost, the control will energize the circulator blower at the heat speed and then begin a new ignition sequence. If flame is established then lost on subsequent attempts, the control will recycle for four (4) consecutive ignition attempts (five attempts total) before locking out.

The diagnostic fault code is 1 flash for a lockout due to failed ignition attempts or flame dropouts. The integrated control will automatically reset after one hour, or it can be reset by removing the thermostat signal or disconnecting the electrical power supply for over five seconds. If the diagnostic LED indicates an external lockout, perform the following checks:

- · Check the supply and manifold pressures
- Check the gas orifices for debris
- Check gas valve for proper operation
- Check secondary limit

Adirty filter, excessive duct static, insufficient air flow, a faulty limit, or a failed circulator blower can cause this limit to open. Check filters, total external duct static, circulator blower motor, blower motor speed tap (see wiring diagram), and limit. An interruption in electrical power during a heating cycle may also cause the auxiliary limit to open. The automatic reset secondary limit is located on top of the circulator blower assembly. · Check rollout limit

If the burner flames are not properly drawn into the heat exchanger, the flame rollout protection device will open. Possible causes are restricted or blocked flue passages, blocked or cracked heat exchanger, a failed induced draft blower, or insufficient combustion air. The rollout protection device is a manual reset limit located on the burner bracket. The cause of the flame rollout must be determined and corrected before resetting the limit.

· Check flame sensor

A drop in flame signal can be caused by nearly invisible coating on the sensor. Remove the sensor and carefully clean with steel wool.

Check wiring

Check wiring for opens/shorts and miswiring.

IMPORTANT: If you have to frequently reset your gas/ electric package unit, it means that a problem exists that should be corrected. Contact a qualified servicer for further information.

Pressure Switch Stuck Open (2 FLASH CODE)

A pressure switch stuck open can be caused by a faulty pressure switch, faulty wiring, a disconnected or damaged hose, a blocked or restricted flue, or a faulty induced draft blower.

If the control senses an open pressure switch during the pre-purge cycle, the induced draft blower only will be energized. If the pressure switch opens after ignition has begun the gas valve is deenergized, the circulator blower heat off cycle begins, and the induced draft blower remains on. The diagnostic fault code is two flashes.

Pressure Switch Stuck Closed (3 FLASH CODE)

A stuck closed pressure switch can be caused by a faulty pressure switch or faulty wiring. If the control encounters a pressure switch stuck closed, the induced draft blower remains off. The diagnostic LED code for this fault is three (3) flashes.

Open Thermal Protection Device (4 FLASH CODE)

If the primary limit switch opens, the gas valve is immediately deenergized, the induced draft and air circulating blowers are energized. The induced draft and air circulator blowers remain energized until the limit switch recloses. The diagnostic fault code for an open limit is four (4) flashes.

A primary limit will open due to excessive supply air temperatures. This can be caused by a dirty filter, excessive duct static, insufficient air flow, or a faulty limit. Check filters, total external duct static, blower motor, blower motor speed tap (see wiring diagram), and limit. This limit will automatically reset once the temperature falls below a preset level.

Flame Detected with Gas Valve Closed (5 FLASH CODE)

If flame is detected with the gas valve deenergized, the combustion and air circulator blowers are energized. The diagnostic fault code is five (5) flashes for this condition. The control can be reset by removing the power supply to

the unit or it will automatically reset after one hour. Miswiring is the probable cause for this fault.

ABNORMAL OPERATION - COOLING CODES

Short Cycle Compressor Delay (6 FLASH CODE)

The automatic ignition control has a built-in feature that prevents damage to the compressor in short cycling situations. In the event of intermittent power losses or intermittent thermostat operation, the ignition control will delay output to the compressor contactor for three minutes from the time power is restored. (Compressor is off a total of three minutes). The diagnostic LED will flash six (6) times to indicate the compressor contactor output is being delayed.

NOTE: Some electronic thermostats also have a builtin compressor short cycle timer that may be longer than the three minute delay given above. If you are using an electronic thermostat and the compressor has not started after three minutes, wait an additional five minutes to allow the thermostat to complete its short cycle delay time.

NOTE: The flash rate is 0.25 seconds on, 0.25 seconds off, with a 2-second pause between codes.

S-314 CHECKING FLAME SENSOR

Aflame sensing device is used in conjunction with the ignition control module to prove combustion. If a microamp signal is not present the control will de-energize the gas valve and "retry" for ignition or lockout.

DSI Direct Spark Ignition Systems



HIGH VOLTAGE! Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. 1. Disconnect the flame sensor wire from terminal FS of the ignition control module.



Flame Sensor

- 2. Connect a microamp meter in series with this wire and terminal FS.
- 3. Be sure the negative side of the meter is to the wire and the positive of the meter is to terminal FS.
- 4. Turn on Power.



- 5. With Power ON, Place the unit into a heating cycle.
- 6. As soon as flame is established a microamp reading should be evident once proof of flame (microamp reading) is established, the hot surface ignitor will be de-energized.
- 7. The microamp reading should be 4 6 microamps.
- 8. If the microamp current is less than 0.5 microamp the control will lockout and flash a code of 1 flash after attempting to reestablish flame sense.
- 9. If the microamp reading is less than the minimum specified, check for high resistance wiring connections, the distance (3/16") between the sensor and burner, flame sensor connections, dirty flame sensor or poor grounding.
- 10. If no reading, check for continuity on all components and if good replace ignition control module.
- NOTE: Contaminated fuel or combustion air can create a nearly invisible coating on the flame sensor. This coating works as an insulator causing a loss in the flame sense signal. If this situation occurs the flame sensor must be cleaned with steel wool. Do not use sand paper, the silicone in sand paper will further contaminate the sensor.

ACCESSORIES

DAIKIN COMMERCIAL PACKAGE UNIT ACCESSORIES						
Accessory Number	Description	Model Size				
***HSKT180*	High Static Kit	15 Ton				
***HSKT240*	High Static Kit	20 Ton				
***HSKT300*	High Static Kit	25 Ton				
***HSKTW180*	High Static Kit - 2 Speed	15 Ton				
***HSKTW240*	High Static Kit - 2 Speed	20 Ton				
***HSKTW300*	High Static Kit - 2 Speed	25 Ton				
**EHK*	Heater Kit	15-25 Ton				
14CURB180300	Roof Curb 14" Tall	15-25 Ton				
CDK180	Concentric Duct Kit	15 Ton				
CDK240	Concentric Duct Kit	20 Ton				
CDK300	Concentric Duct Kit	25 Ton				
D25FD180300	25% Manual Fresh Air Damper	15-25 Ton				
D25MFD180300	25% Motorized Fresh Air Damper	15-25 Ton				
DBRD3672	Daikin Barometric Relief Damper	All Models				
DDNECNJ180300B ¹	Downflow Jade Economizer All Fuels (MCDANIEL METALS)	15-25 Ton				
1036611B ²	Downflow Economizer (ROOFTOP SYSTEMS)	15-25 Ton				
10366D11B ²	Downflow Economizer (for models with DDC Control) (ROOFTOP SYSTEMS)	15-20 Ton				
DNBBS180240	Burglar Bar Sleeves Includes Supply and Return	All Models				
DPE1803002	Power Exhaust (208/230v)	15-25 Ton				
DPE1803004	Power Exhaust (460v)	15-25 Ton				
DPE1803007	Power Exhaust (575v)	15-25 Ton				
3PMK01	3-Phase Monitor (for models with DDC Control)	15-20 Ton				
3PMNDK01	3-Phase Monitor (Non-DDC Control models)	15-25 Ton				
DFSKT02	Dirty Filter Kit (for models with DDC Control)	15-20 Ton				
FSK01A	Freeze Stat Kit	15 -20 Ton				
FSK02A	Freeze Stat Kit	25 Ton				
GHRC-1	Hurricane Restraint Clip	All Models				
HAKT36300	High Altitude Kit	All Models				
HZCURB180240ED	Horizontal Roof Curb End Discharge	15-25 Ton				
HZCURB180240SDN	Horizontal Roof Curb Side Discharge Non-Service Side	15-25 Ton				
HZCURB180240SDS	Horizontal Roof Curb Side Discharge Service Side	15-25 Ton				
LAKT03	Low Ambient Kit	15-20 Ton				
LAKT05	Low Ambient Kit	25 Ton				
DLAKT03	Low Ambient Kit (for models with DDC Control)	15-20 Ton				
LPKT180300A	LP Conversion Kit	15-25 Ton				
220-GX-03	Flue Extension Kit	15-20 Ton				

** Complete listing of EHK kits listed on electrical data page in DCC manuals

***NOTE: High static airflow requires installation of high static kit (HSKT180 or 240 or 300)

¹ If this economizer is used for factory or field installed and pow er exhaust is also required, please use appropriate pow er exhaust: DPE36722, DPE36724, DPE36727.

² If this economizer is used for factory or field installed and pow er exhaust is also required, please contact RRS Rooftop Systems directly for more information and ordering accessories.

DAIKIN COMMERCIAL PACKAGE UNIT DDC CONTROLS					
WATTMASTER / DAIKIN PART NUMBER	DESCRIPTION				
OE377-26B-00001 / PCBCG100	DDC Controller				
OE255 / 0130L00110	CO ₂ Sensor				
OE361-13 / 0130L00126	CommLink 5 Communications Interface				
EBC-3-F / 0130L00114 EBC-10-F / 0130L00115 EBC-50-F / 0130L00116 EBC-150-F / 0130L00117	EBC E-BUS Cable Assembly E-BUS Power & Comm 3 Ft, 10 Ft, 50 Ft,150 Ft				
MS000248	E-BUS Adapter Hub				
HZ-EBC-248	E-BUS Adapter Hub with 1.5 Ft. EBC Cable				
OE365-15-EBA	E-BUS Adapter Board				
OE256-07 / 0130L00131	E-BUS CO ₂ Sensor with Remote Pickup - Duct Mounted				
OE256-05 / 0130L00128	E-BUS CO ₂ Sensor - Space				
OE217-02 / 0130L00118	E-BUS Digital Room Sensor - LCD Display - Temp. Only				
OE217-03 / 0130L00119	E-BUS Digital Room Sensor - LCD Display - Temp & RH				
OE217-04 / 0130L00127	E-BUS Digital Room Sensor - No LCD Display - Temp & RH				
OE265-15 / 0130L00132	E-BUS Horizontal Outside Air Temperature & RH Sensor				
OE265-16 / 0130L00133	E-BUS Vertical Outside Air Temperature & RH Sensor				
OE415-02 / 0130L00122	IP Module Kit				
OE364-23 / 0130L00125	MiniLink 5				
OE265-13 / 0130L00106	Outdoor Air Humidity Sensor				
OE250 / 0130L00108	Outdoor Air Temperature Sensor				
OE368-23-LON3-G / 0130L00124	PT-Link II LON-3-G				
OE265-11 / 0130L00129	Space Humidity Sensor				
OE213 / 0130L00107	Standard Room Sensor - W/ Override & Slide Adjust				
OE230 / 0130L00112 OE231 / 0130L00113	Supply Air Temperature Sensor				
OE437-03 / 0130L00130	Surge Protector				
OE392-10-G / 0130L00121	System Manager Touch Screen II-G				

For complete information and installation instructions for models with DDC controls, see manual DK-DDC-TGD-01*.

ACCESSORIES



D14CURB180300								
Models	Models A B C							
15 - 25 Ton								

Measurement in inches.

MOTORIZED FRESH AIR DAMPERS

25% FRESH AIR DAMPER							
MODELS	MOTORIZED	MANUAL					
15 - 25 Tons	D25MFD180300	D25FD180300					



ACCESSORIES

POWER EXHAUST FOR USE WITH DC* MODELS



POWER EXHAUST								
MODEL	USED WITH							
DPE1803002	208-230V	15 - 25 Ton						
DPE1803004	460V	15 - 25 Ton						
DPE1803007	575V	15 - 25 Ton						

FLUE EXTENSION KIT



ECONOMIZER



G HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



POWERED CONV. OUTLET



FOR UNITS WITH SERIALS BEFORE 1607

15 - 25 TON UNITS





HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH



FOR UNITS WITH SERIALS 1607 AND NEWER

15 - 25 TON UNITS







HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

POWER EXHAUST 15 - 25 TON



POWER EXHAUST		
MODEL	VOLTAGE	USED WITH
DPE1802404	460V	20 Ton



OT18-60A OUTDOOR THERMOSTAT



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



FOR UNITS WITH SERIALS BEFORE 1409



NOTICE: The cut out speed & hard start settings are factory preset. Changing those settings may cause early motor failure.

LOW AMBIENT DCC/DCG 180 & 240

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



FOR UNITS WITH SERIALS 1409 AND NEWER

NOTICE: The cut out speed & hard start settings are factory preset. Changing those settings may cause early motor failure.

LOW AMBIENT FOR DCC/DCG 180 & 240



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.







SMOKE DETECTOR



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.





3 PHASE MONITOR


HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



3 PHASE MONITOR

DDC CONTROL



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



3 PHASE MONITOR

DDC CONTROL



LOW AMBIENT

DDC CONTROL



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



SMOKE DETECTOR

HEATER KITS

ELECTRIC HEAT KITS

UNIT	HEATER KIT MODEL NUMBER	MINIMUM CFM Downshot	HEATER KIT MODEL NUMBER	MINIMUM CFM Downshot	HEATER KIT MODEL NUMBER	MINIMUM CFM Downshot
	EHK3-31	5250	EHK4-31	5250	EHK7-31	5250
15 TON	EHK3-46	5250	EHK4-46	5250	EHK7-46	5250
	EHK3-60	5250	EHK4-60	5250	EHK7-60	5250
	EHK3-31	7000	EHK4-31	7000	EHK7-31	7000
20 TON	EHK3-46	7000	EHK4-46	7000	EHK7-46	7000
25 TON	EHK3-60	7000	EHK4-60	7000	EHK7-60	7000
	EHK3-75	7000	EHK4-75	7000	EHK7-75	7000



Use only the heater kit specified for each model as dictated by the table above.

When using electric heat kit, use of the single point kit installed in the unit is required to meet UL requirements

EHK3-31



HIGH VOLTAGE! DISCONNECT ALL

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



FOR UNITS WITH SERIALS BEFORE 1409



EHK3-46



DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



FOR UNITS WITH SERIALS BEFORE 1409



EHK3-46



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK3-46 with Time Delay



EHK3-46



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK3-60



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH



FOR UNITS WITH SERIALS BEFORE 1409



EHK3-60



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.







HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK3-75



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



FOR UNITS WITH SERIALS BEFORE 1409





HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH



EHK4-31 / EHK7-31



EHK4-31 / EHK7-31



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

FOR UNITS WITH SERIALS BEFORE 1409



EHK4-46 / EHK7-46



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH



FOR UNITS WITH SERIALS BEFORE 1409



EHK4-46 / EHK7-46



G HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK4-46 / EHK7-46 with Time Delay



EHK4-46 / EHK7-46



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK4-60 / EHK7-60



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH



FOR UNITS WITH SERIALS BEFORE 1409



EHK4-60 / EHK7-60



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK4-60 / EHK7-60 with Time Delay

EHK4-60 / EHK7-60



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK4-75 / EHK7-75



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



FOR UNITS WITH SERIALS BEFORE 1409



EHK4-75 / EHK7-75



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



EHK3-31



DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH



EHK3-46



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH





EHK3-60



DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.





EHK3-75



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.





EHK4-31 / EHK7-31



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH

FOR UNITS WITH SERIALS 1409 AND NEWER



EHK4-46 / EHK7-46



DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH





EHK4-60 / EHK7-60



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

FOR UNITS WITH SERIALS 1409 AND NEWER



EHK4-75 / EHK7-75



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH





DCC COMMERCIAL 15 - 25 Ton Packaged Air Conditioner Unit WIRING DIAGRAMS

For units with DDC control see manual RSD6412018* for wiring diagrams



UNIT WIRING DIAGRAMS

DCC180-240XXX(3,4,7)B***A*

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

UNIT WIRING DIAGRAMS

DCC180-240XXX(3,4,7)B***A*



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WARNING

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.
DCC180-240XXX(3,4,7)B***A*



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH

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DCC180-240XXX(3,4,7)V***A*

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING



DCC180-240XXX(3,4,7)V***A*



DCC300XXX(3,4,7)B***AA



DCC300XXX(3,4,7)B***AA



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. WARNING

DCC300XXX(3,4,7)B***AB DCC300XXX(3,4,7)V***A*



DCC300XXX(3,4,7)B***AB

UNIT WIRING DIAGRAMS





DCC300XXX(3,4,7)V***A*



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

DCG COMMERCIAL 15 - 25 Ton Packaged Gas/Electric Unit WIRING DIAGRAMS

For units with DDC control see manual RSD6412018* for wiring diagrams





HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING



DCG180-240XXX3B***A*





HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. WARNING

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

UNIT WIRING DIAGRAMS

DCG180-240XXX(4,7)B***A*

DCG180-240XXX(4,7)B***A*



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

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DCG180-240XXX3V***A*



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

DCG180-240XXX3V***A*



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH WARNING

DCG180-240XXX(4,7)V***AA



MARNING UNIT: MULTIPLE POWER BEFORE SERVICING OR INSTALLING THIS UNIT: MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

DCG180-240XXX(4,7)V***AA



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. WARNING

DCG180-240XXX(4,7)V***AB



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. WARNING

DCG180-240XXX(4,7)V***AB



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH

WARNING

DCG300XXX(4,7)B***AA

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING





HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. WARNING

DCG300XXX3(B,V)***AB



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. WARNING

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

DCG300XXX(4,7)(B,V)****AB



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING

DCG300XXX(3,4,7)B***AB



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. WARNING

DCG300XXX(3,4,7)V***AB





CUSTOMER FEEDBACK Daikin is very interested in all product comments. Please fill out the feedback form on the following link: <u>https://daikincomfort.com/contact-us</u> You can also scan the QR code on the right to be directed to the feedback page.

