

1. VRVIII Wind Hood Accessories for the Heat Recovery Extended Cooling Feature

- The VRVIII wind hood accessories are designed to be used in conjunction with an outdoor unit field setting and applicable branch selector unit dip switch settings to engage the low ambient cooling feature for heat recovery units only. Please refer to pages 8-10 below.
- The wind hood accessories are also suitable for use as hail guards in hail prone locations.
- This accessory is currently available for all 36-5/8" and 51-3/16" width heat recovery units.
- This document contains information to ensure proper installation only. Please read carefully all of the information provided in this document. Consult local code for any wind load tie down requirements. Please refer to Sales Bulletin VRV053 for additional application and selection information.

2. Important Notes

- Condensing units must be mounted at least 10" off the ground or 10" higher than the average snowfall amount for the location.
- Service space requirements for the back and sides of the condensing unit must be at least 22" greater than the service space requirements provided in the condensing unit installation manual and engineering guide.
- To ensure adequate coil protection, multiple unit installations must be between 0.75" and 3" max. between units (see **Multiple Unit Installations** information below).
- **Warning: Use only the screws provided or screws of an equivalent length.**

3. DACA-WH36_51F/P Kit Summary

Full kits consist of 4 total hood sections for the back, left, right and top portions of the condensing unit.

Partial kits for multiple unit installations (see additional info below) consist of 2 total hood sections for the back and top portions of the condensing unit only.

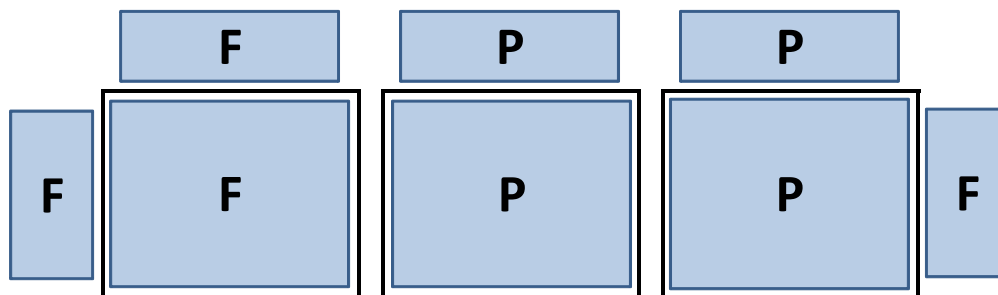
Multiple Unit Installations

These kits extend 22" beyond the sides and back of the condensing unit when installed. Please keep this in mind when planning new installations or considering these accessories as a system upgrade.

If the condensing units are installed between 0.75" and 3" max. between units then partial wind hood kits (top and back sections only) may be used.

- Substitute one (1) full wind hood kit in the total number of condensing units in the installation series.

Example: 3 total wind hoods = 2 partial kits + 1 full kit



F = Full Kit Component
P = Partial Kit Component

Full kit part numbers and applicable condensing units:

| Part Number | Description | Applicable VRVIII PB Outdoor Units | Qty. Req. | |
|-----------------|---|------------------------------------|------------------|-------------|
| Full Kit | Left, Right, Back and Top Sections | | | |
| DACA-WH36F | (36-5/8") | REYQ144PBYD | 12 Ton (460V) HR | 2 |
| | | REYQ168PBYD / TJ | 14-28 Ton HR | 2 |
| | | REYQ192PBYD / TJ | | 2 |
| | | REYQ216PBYD / TJ | | 2 |
| | | REYQ240PBYD / TJ | | 2 |
| | | REYQ264PBYD / TJ | | 3 |
| | | REYQ288PBYD / TJ | | 3 |
| | | REYQ312PBYD / TJ | | 3 |
| | | REYQ336PBYD / TJ | | 3 |
| DACA-WH51F | (51-3/16") | REYQ72PBYD / TJ | | 6-10 Ton HR |
| | | REYQ96PBYD / TJ | 1 | |
| | | REYQ120PBYD / TJ | 1 | |
| | | REYQ144PBTJ | 12 Ton (230V) HR | 1 |

Partial kit part numbers and applicable condensing units:

| Part Number | Description | Applicable VRVIII PB Outdoor Units | Qty. Req. | |
|--------------------|-----------------------------------|------------------------------------|------------------|-------------|
| Partial Kit | Back and Top Sections Only | | | |
| DACA-WH36P | (36-5/8") | REYQ144PBYD | 12 Ton (460V) HR | 2 |
| | | REYQ168PBYD / TJ | 14-28 Ton HR | 2 |
| | | REYQ192PBYD / TJ | | 2 |
| | | REYQ216PBYD / TJ | | 2 |
| | | REYQ240PBYD / TJ | | 2 |
| | | REYQ264PBYD / TJ | | 3 |
| | | REYQ288PBYD / TJ | | 3 |
| | | REYQ312PBYD / TJ | | 3 |
| | | REYQ336PBYD / TJ | | 3 |
| DACA-WH51P | (51-3/16") | REYQ72PBYD / TJ | | 6-10 Ton HR |
| | | REYQ96PBYD / TJ | 1 | |
| | | REYQ120PBYD / TJ | 1 | |
| | | REYQ144PBTJ | 12 Ton (230V) HR | 1 |

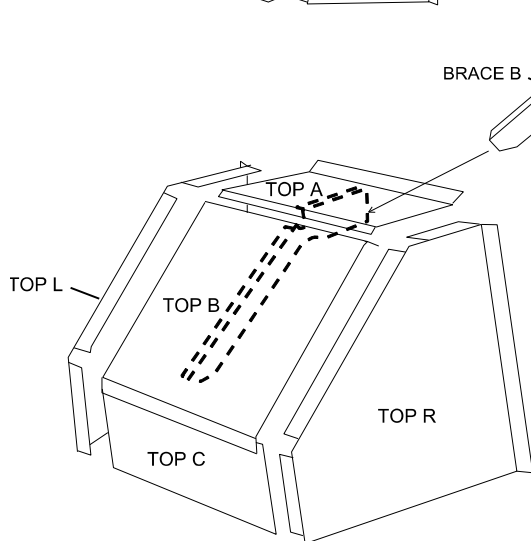
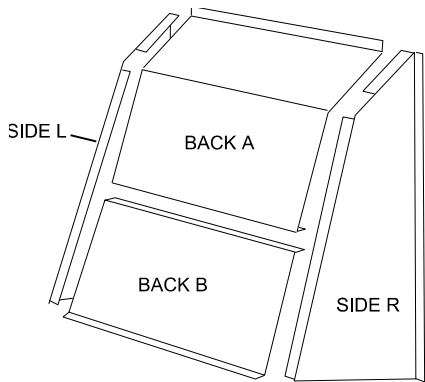
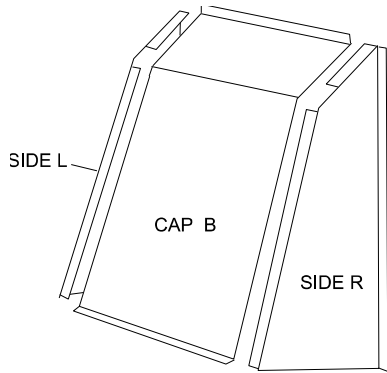
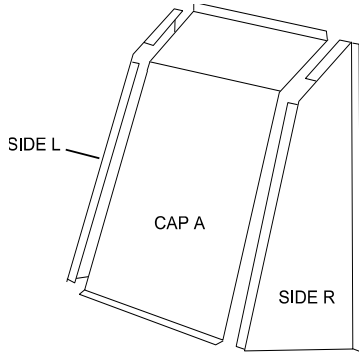
4. Installation

Each wind hood kit includes the following components:

- Hardware for assembling each individual wind hood
- Hardware for attaching the wind hoods to the condensing unit
- Alignment tool
- Liquid thread locker

| Kit Part Number | Description | Component Part Number | |
|-----------------|-------------|------------------------------------|------------------|
| DACA-WH36F | Full Kit | Left, Right, Back and Top Sections | SIDE R (3 PCS) |
| | | | SIDE L (3 PCS) |
| | | | CAP A |
| | | | CAP B |
| | | | BACK A |
| | | | BACK B |
| | | | TOP R |
| | | | TOP L |
| | | | TOP A |
| | | | TOP B |
| | | | TOP C |
| | | | BRACE A |
| | | | BRACE B |
| | | | INSTALLATION KIT |
| DACA-WH51F | Full Kit | Left, Right, Back and Top Sections | SIDE R (3 PCS) |
| | | | SIDE L (3 PCS) |
| | | | CAP A |
| | | | CAP B |
| | | | BACK A1 |
| | | | BACK B1 |
| | | | TOP R |
| | | | TOP L |
| | | | TOP A1 |
| | | | TOP B1 |
| | | | TOP C1 |
| | | | BRACE A |
| | | | DIVIDER |
| | | | INSTALLATION KIT |

| Kit Part Number | Description | Component Part Number | |
|-----------------|-------------|-----------------------|------------------|
| DACA-WH36P | Partial Kit | Top and Back Sections | SIDE R |
| | | | SIDE L |
| | | | BACK A |
| | | | BACK B |
| | | | TOP R |
| | | | TOP L |
| | | | TOP A |
| | | | TOP B |
| | | | TOP C |
| | | | BRACE A |
| | | | BRACE B |
| | | | INSTALLATION KIT |
| DACA-WH51P | Partial Kit | Top and Back Sections | SIDE R |
| | | | SIDE L |
| | | | BACK A |
| | | | BACK B |
| | | | TOP R |
| | | | TOP L |
| | | | TOP A1 |
| | | | TOP B1 |
| | | | TOP C1 |
| | | | BRACE A |
| | | | DIVIDER |
| | | | INSTALLATION KIT |

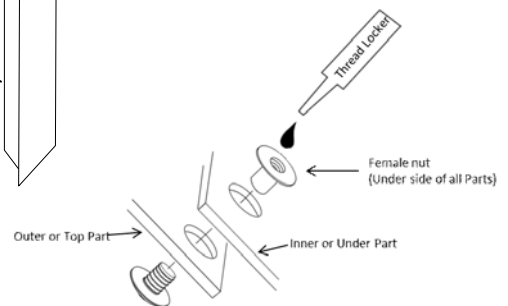
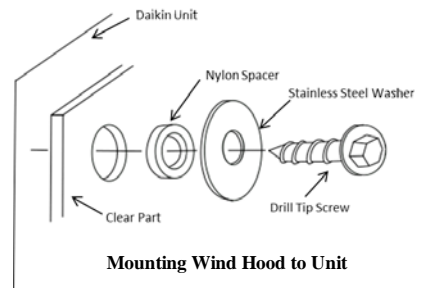


| Kit Part Number | | | Component Part Number |
|-----------------|----------|--------------|-----------------------|
| DACA-WH36F | FULL KIT | SIDE R | 3 PC |
| | | SIDE L | 3 PC |
| | | CAP A | |
| | | CAP B | |
| | | BACK A | |
| | | BACK B | |
| | | TOP R | |
| | | TOP L | |
| | | TOP A | |
| | | TOP B | |
| | | TOP C | |
| | | BRACE A | |
| | | BRACE B | |
| | | Mounting Kit | |

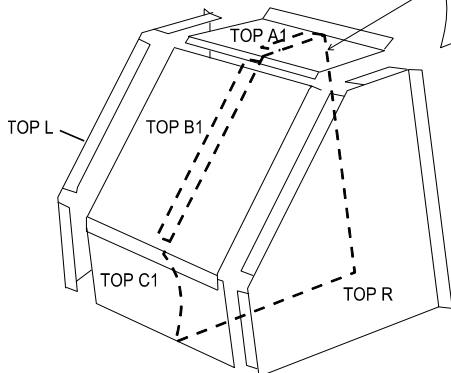
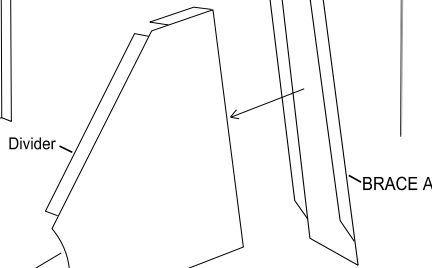
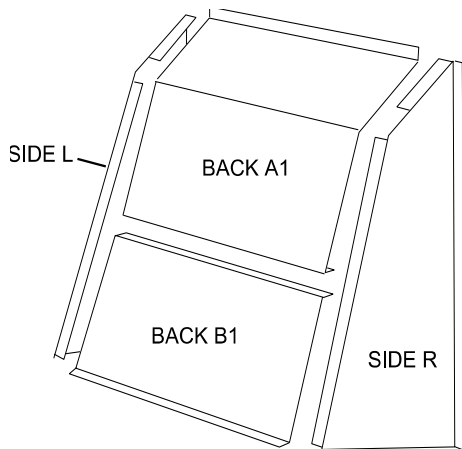
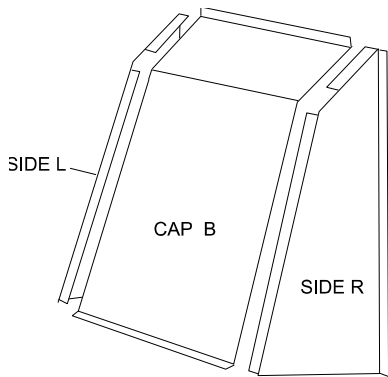
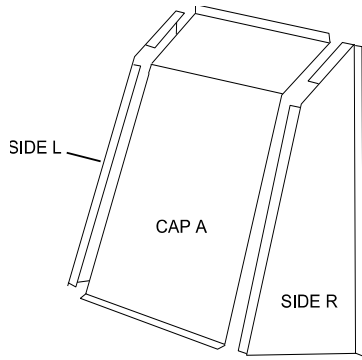
Mounting Kit = (screws, washers, bolts, alignment tool, thread locker)

| Kit Part Number | | | Component Part Number |
|-----------------|--------------|--------------|-----------------------|
| DACA-WH36P | PARTIAL KIT | SIDE R | |
| | (TOP & BACK) | SIDE L | |
| | | BACK A | |
| | | BACK B | |
| | | TOP R | |
| | | TOP L | |
| | | TOP A | |
| | | TOP B | |
| | | TOP C | |
| | | BRACE A | |
| | | BRACE B | |
| | | Mounting Kit | |

Mounting Kit = (screws, washers, bolts, alignment tool, thread locker)



Note: Pre assemble all parts and turn or rotate the assembled part up-side down and then add 1 drop of thread locker to the female nut. Wipe away any excess thread locker before turning over.

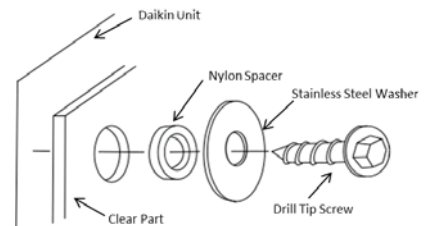


| Kit Part Number | | | Component Part Number |
|-----------------|----------|--------------|-----------------------|
| DACA-WH51F | FULL KIT | SIDE R | 3 PC |
| | | SIDE L | 3 PC |
| | | CAP A | |
| | | CAP B | |
| | | BACK A1 | |
| | | BACK B1 | |
| | | TOP R | |
| | | TOP L | |
| | | TOP A1 | |
| | | TOP B1 | |
| | | TOP C1 | |
| | | BRACE A | |
| | | Divider | |
| | | Mounting Kit | |

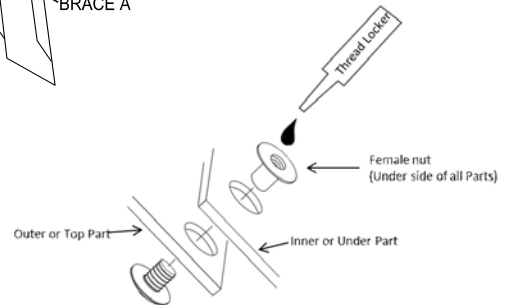
Mounting Kit = (screws, washers, bolts, alignment tool, thread locker)

| Kit Part Number | | | Component Part Number |
|-----------------|--------------|--------------|-----------------------|
| DACA-WH51P | PARTIAL KIT | SIDE R | |
| | (TOP & BACK) | SIDE L | |
| | | BACK A | |
| | | BACK B | |
| | | TOP R | |
| | | TOP L | |
| | | TOP A1 | |
| | | TOP B1 | |
| | | TOP C1 | |
| | | BRACE A | |
| | | Divider | |
| | | Mounting Kit | |

Mounting Kit = (screws, washers, bolts, alignment tool, thread locker)



Mounting Wind Hood to Unit



Fastening parts together before mounting to unit

Note: Pre assemble all parts and turn or rotate the assembled part up-side down and then add 1 drop of thread locker to the female nut. Wipe away any excess thread locker before turning over.

Each wind hood component is individually labeled on the white protective coating. Remove this covering prior to installation.

A punch/alignment tool is provided to help align the wind hood components as they are being assembled. This enables the wind hoods to be assembled by a single person.

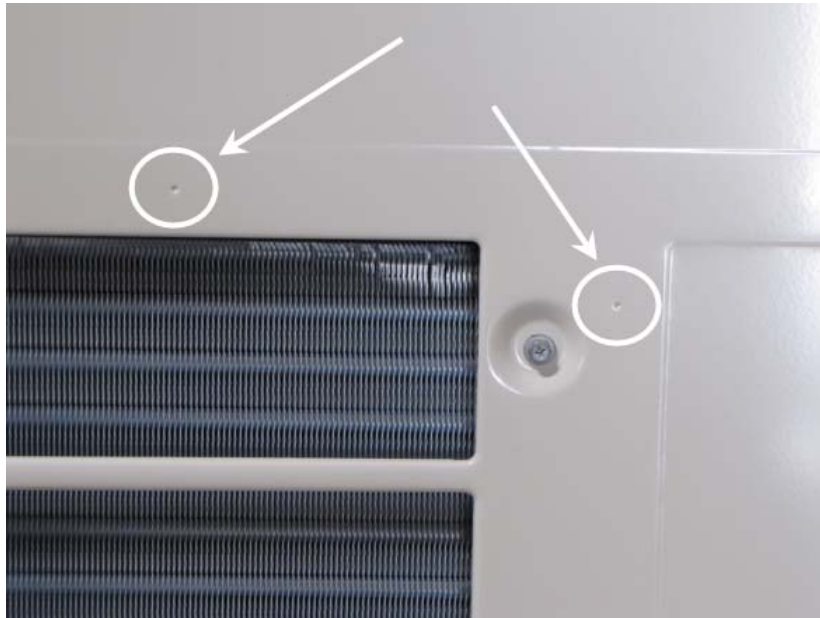
The included mating fasteners are used to assemble the individual components together for each wind hood. These fasteners are designed as mating parts that cannot be over tightened and are to be used with the included thread locker.

- Permanent thread locker is included to ensure that when the wind hoods are assembled the fasteners will not loosen and back out due to vibration.
- The thread locker can be applied to each mating fastener as the wind hood components are being assembled. However, it may be easier to apply the thread locker to all of the fasteners at once after the entire wind hood section is assembled. The thread locker is thin enough to flow into the mating fastener threads after they are assembled. Clean up any excess thread locker before it runs.
- Do not use the thread locker on the screws that attach the wind hoods to the condensing unit.
- Assemble each wind hood section so that there are no overlapping edges. The outer hood surfaces should all be flat.

The other fasteners provided are for attaching the wind hoods to the condensing unit and use a spacer, washer and hex head sheet metal screw. This is to ensure that the screws are not over tightened which can crack the material and compromise the installation. **Warning:**
Use only the screws provided or screws of an equivalent length.

- There are small dimples located on the outside of the condensing unit where the wind hoods are to be attached.

These are provided to indicate where the sheet metal screws are to be used.



- **Do not use the permanent thread locker on the screws that attach the wind hoods to the condensing unit. This will prevent you from removing the wind hoods if necessary for maintenance.**
- There are no existing dimples around the top panel of the condensing unit.
 - Predrilled 7/64" pilot holes are helpful for installing the top wind hood section to the condensing unit with the supplied hardware. Be careful when using a drill near the condensing coil.
 - Do not remove any of the existing screws. The top wind hood includes predrilled holes in the material that will go over the existing screws.

5. Required Equipment Field Settings

Condensing Unit

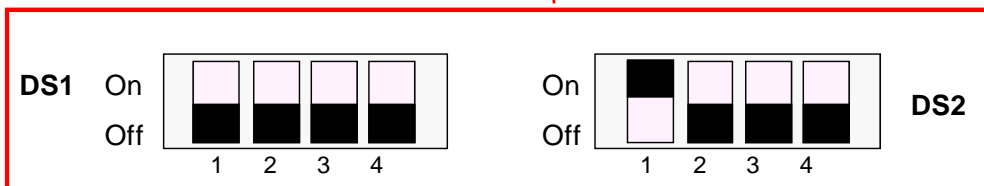
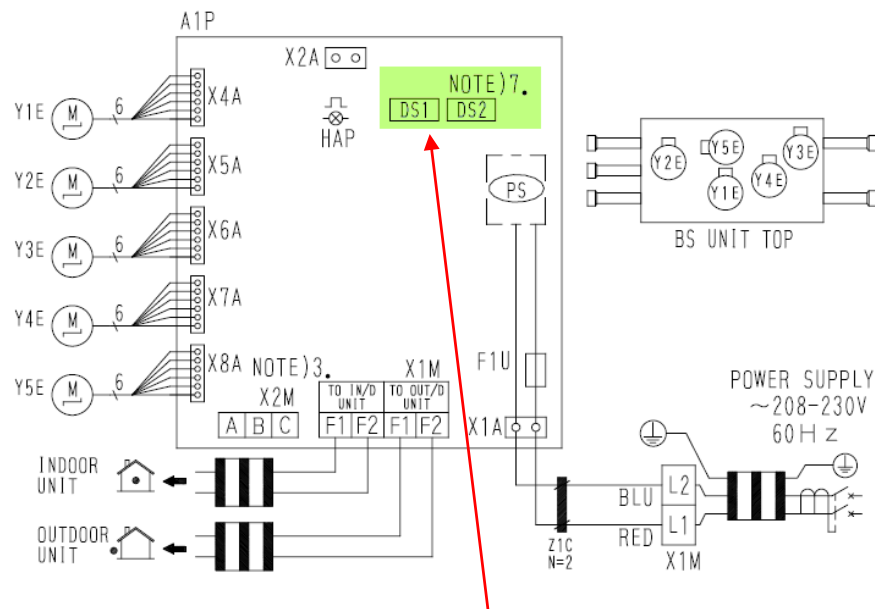
- A field setting is made on the condensing unit PCB. This activates the extended cooling operation feature for the entire system.

- Change setting mode 2, code 45 from binary 1 (default) to binary 2.
- Please refer to the VRV8 Service Manual for additional field setting information.
- **Note: For permanent installations with operation above 95°F, enable the condensing unit high static field setting.**

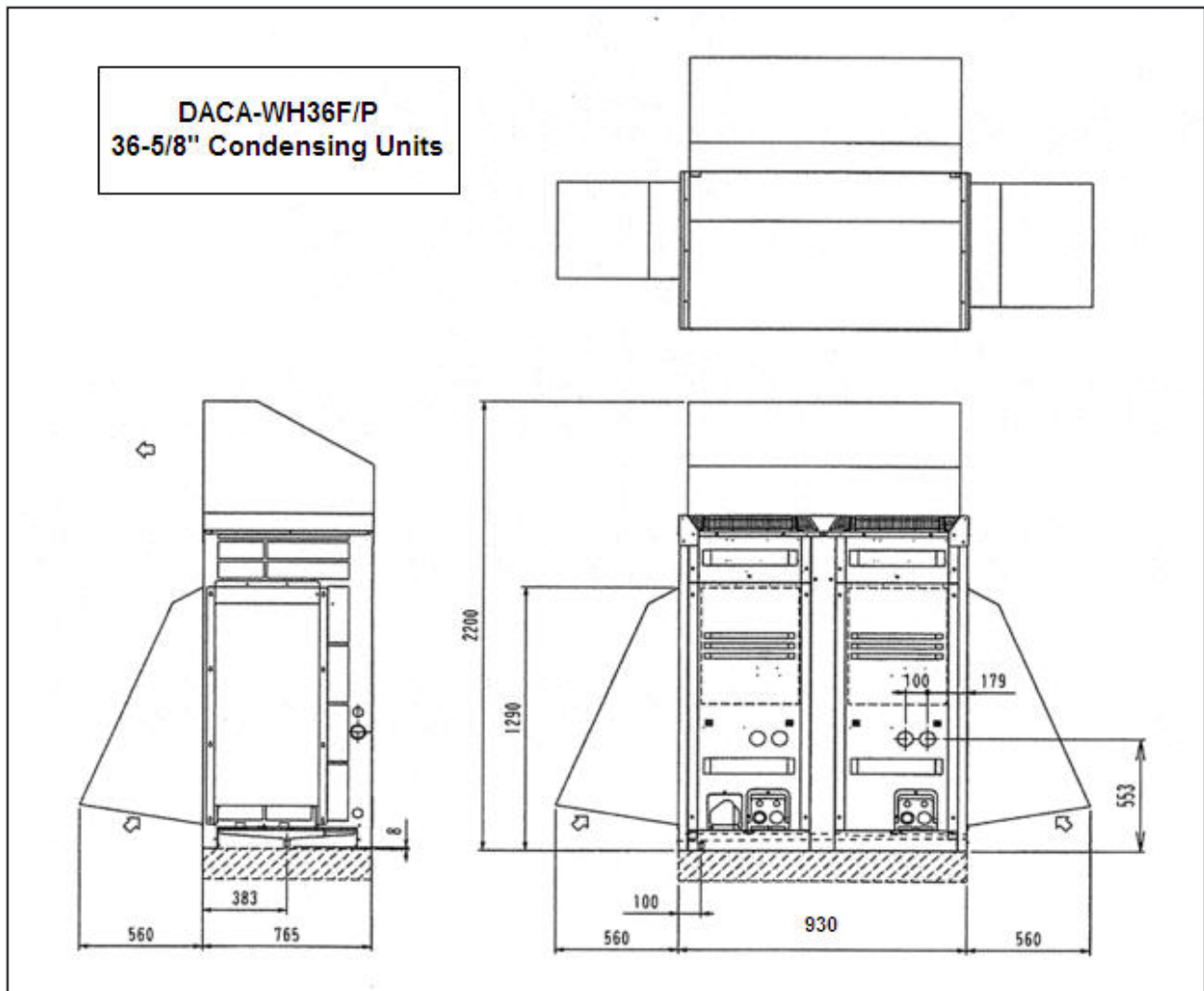


Branch Selector Units

- A dip switch setting is necessary on the BSVQ units serving indoor units **NOT** subject to extended cooling operation requirements. Please refer to the BSVQ_P and BSV_P Branch Selector Engineering Data documents for complete wiring diagrams and additional information on initial dip switch settings.



Reference Drawings



DACA-WH51F/P
51-3/16" Condensing Units

