



APCVD1509E

# Daikin VRV AHU System

STANDARD AIR SERIES AHUR-DCV/CCV/SCV &  
OUTDOOR AIR SERIES AHUR-DCL/CCL/SCL

## VRV AHU Applications



\* New line-up : Single skin panel

Airport



Lobby



Hospital



Factory



Shopping Mall



Sports Hall



Showroom



Warehouse



## VRV AHU Introduction

The new VRV AHU series released by Daikin, standard air series model AHUR-DCV/CCV/SCV with its outdoor air series AHUR-DCL/CCL/SCL. It is a DX AHU that is specially designed to operate with VRV outdoor unit.

This enabled the users to

- reduce maintenance costs
- enjoy more space savings

Daikin VRV AHU improves the indoor air quality caused by haze, pollutants, etc with options of pre-filters and primary filters.

This is the only total AHU solutions provided and manufactured completely by Daikin.



## Total Daikin Solutions

(All products manufactured by Daikin Factory)

## What is VRV?

Daikin VRV system is a multi-split type air conditioner for commercial buildings that uses variable refrigerant flow control invented by Daikin.



It enables long piping length up to 165m and maximum level difference (between outdoor and indoor units) of 90m to provide more design flexibility which can match even large-sized buildings.

It allows one touch selection control using intelligent Touch Manager and includes options to link with BACnet® to enhance the Building Management System (BMS).

## VRV AHU Application

From small to large commercial spaces, Daikin offers a wide range of R-410A inverter condensing units for use in conjunction with Air Handling Units (AHU) from 6 HP to 120 HP.

AHU provides large air volumes and high ESP (External Static Pressure) enabling the use of extensive ductworks. The refrigerant flows through the copper pipes using R-410A and operates like a large VRV fan coil unit.

Daikin AHU represents the ideal solution for large storage places, atrium, lobby, banquet halls, showrooms, exhibition halls, shopping malls, etc.

It also has the options to customize the specifications such as the filtration type, direction of air in-take and discharge, service access door and blower type (backward or forward curves and plug fan).





## Features of VRV AHU

- Harnessing VRV VRT technology
- Inverter controlled system
- Can be easily controlled via standard wired remote control (BRC1E62)
- Double skin panel is available for DCV/DCL/CCV/CCL models
- Single skin panel is available for SCV/SCL models
- Easily managed using intelligent Touch Manager central control system
  - ✓ Communication protocol using DIII-Net to communicate with all existing Daikin communication devices. (option to connect directly to BACnet® BMS)
- Can be placed indoor or outdoor\*<sup>1</sup>

## Benefits of using VRV AHU

- Quality and warranty assured
  - ✓ VRV AHU are manufactured by Daikin factory.
- Ease of installation
  - ✓ No additional system such as cooling tower, chiller, and long water piping system are required. This also reduces the total system maintenance costs.
  - ✓ Flexible design of the ducting system.
- Cover large area with different ducting configuration.
- VRV AHU can provide ESP up to 500Pa\*<sup>2</sup> (Standard Model)
- Total solution concept
  - ✓ Integrating an AHU into the total building climate system enables both design and installation procedures to be based on a single common technology. This simplifies project follow-up, installation, commissioning and maintenance since only one party is involved.
- VRV AHU system can be combined with other types of indoor units to operate concurrently.

### Notes:

\*<sup>1</sup> Optional items required

\*<sup>2</sup> For ESP more than 500Pa, please contact Daikin's Sales Office

\*<sup>3</sup> BACnet interface

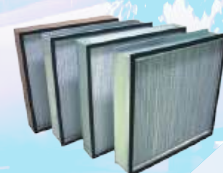
\*<sup>4</sup> MicroTech III is not recommended to use for 24 hours application.

For 24 hours operation, please source for external 3rd party DDC locally or contact Daikin sales office.

## Options

Wide range of options to meet design requirements. Please contact Daikin's Sales Office on options below:

- Fan type
  - ✓ Centrifugal fan backward curve
  - ✓ Plug fan
  - ✓ EC fan
  - ✓ Explosion proof
- Fan motor
  - ✓ IE2, IE3 motor
  - ✓ Explosion proof
  - ✓ PTC thermistor
- Drain pan type
  - ✓ Stainless steel
- Air filter type
  - ✓ Pre filter class G2 & 4
  - ✓ Medium filter class F6, 7, 8 & 9
  - ✓ Hepa filter class H12, 13 & 14
  - ✓ Grease filter
  - ✓ Carbon filter
- Coil material type
  - ✓ Cooling tube OD3/8"
  - ✓ Special coil size design
  - ✓ Blue fin
  - ✓ Copper fin
- Panel type
  - ✓ Double skin stainless steel
  - ✓ Rock wool insulation
  - ✓ Glass wool insulation
- Special option
  - ✓ Electric heater
  - ✓ Mixing box
  - ✓ Outdoor accessories
  - ✓ Heat pipe
  - ✓ DDC controller
  - ✓ Ext. motor terminal box
  - ✓ Starter box
  - ✓ Heat recovery
  - ✓ Heating coil
  - ✓ Humidifier
  - ✓ External motor
  - ✓ Volume damper
  - ✓ UVC Lamp
- Customization
  - ✓ Airflow
  - ✓ Capacity
  - ✓ ESP
  - ✓ Air direction
  - ✓ Piping direction
- Controller
  - ✓ MicroTech III\*<sup>3, 4</sup> (DDC)



## \*Heating Operation with Special Coil

In heating operation, please observe the following conditions:

1. Use Heat Pump models for outdoor units.
2. For connection ratio, please follow the instruction below.

### ■ Connection ratio for Standard Series

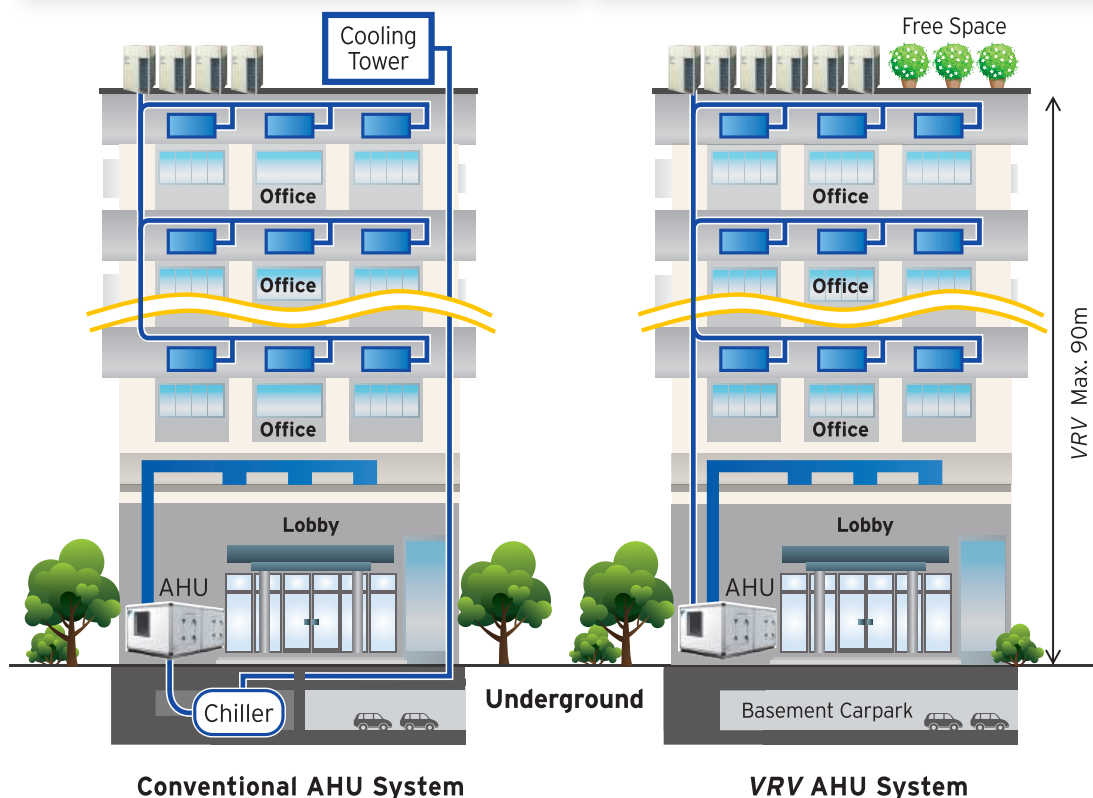
| System Pattern                  | Total CR | VRV Indoor | AHU     |
|---------------------------------|----------|------------|---------|
| VRV DX Indoor unit(s) + AHU     | 50-110%  | 50-110%    | 0-60%   |
| Only AHU (Pair AHU & Multi AHU) | 90-110%  | -          | 90-110% |

### ■ Connection ratio for Outdoor Air Series

| System Pattern      | Total CR | VRV Indoor | AHU     |
|---------------------|----------|------------|---------|
| Only AHU (Pair AHU) | 90-110%  | -          | 90-110% |

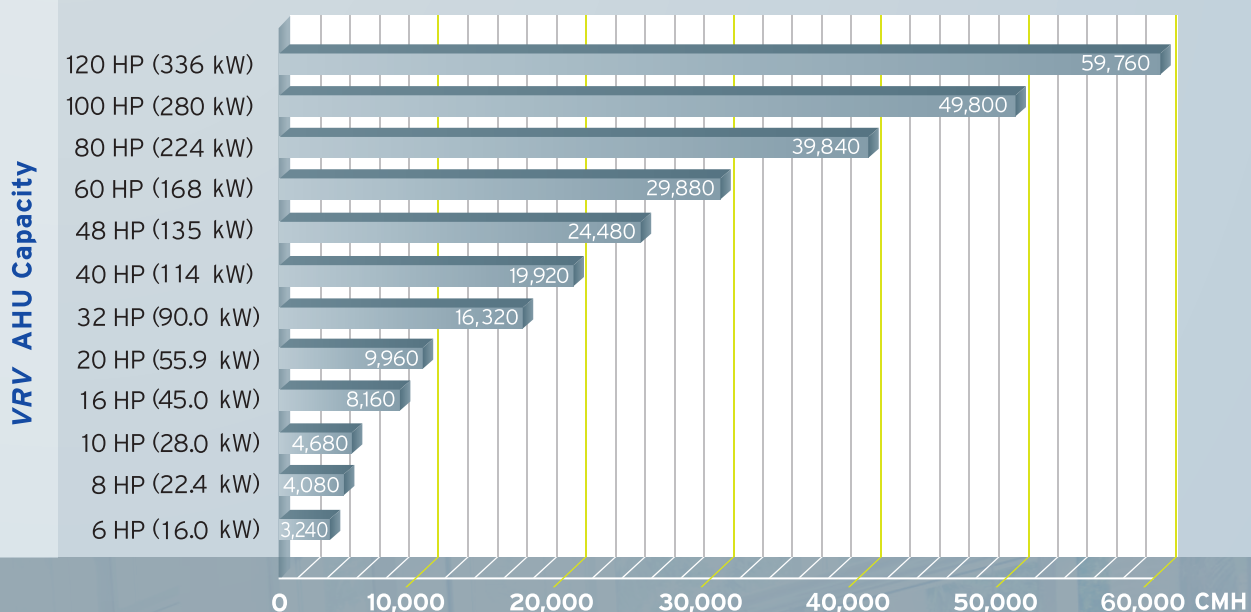
## Comparison Table and Diagram for Conventional AHU System and VRV AHU System

| Conventional AHU System                                                  | VRV AHU System                                                                                       |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Require Frequent Maintenance (Cooling Tower + Chiller)                   | Easy Maintenance (same as common A/C System)                                                         |
| Higher Cost Due to Frequent Maintenance                                  | No Additional Maintenance Cost                                                                       |
| Require Larger Installation Space (AHU, Chiller, Cooling Tower)          | Require Small Installation Space (AHU, VRV)                                                          |
| Complex System (HVAC Ducting, Chiller and Water Piping)                  | Simple System (HVAC Ducting)                                                                         |
| Complex Control (Variable Frequency Device, Variable Air Volume Control) | Simple Control (Remote Control / intelligent Touch Manager / MicroTech III <sup>*4</sup> Controller) |



## VRV AHU Standard Air Series

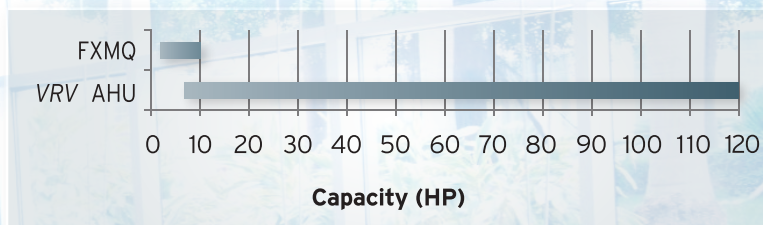
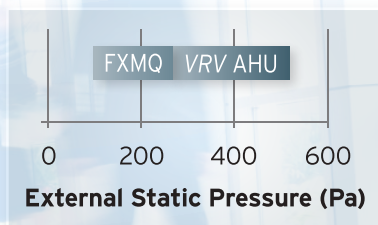
The VRV AHU standard air series are available from the capacity range of 6 HP to 120 HP, also with airflow ranging from 3,240 CMH - 59,760 CMH.



## Expanded Line Up for Daikin VRV Indoor Series

### Comparison for External Static Pressure and Capacity between VRV AHU and Duct Typed Unit

VRV AHU offers higher ESP and Capacity as compared to duct type fan coil unit.



|         | From   | To     |
|---------|--------|--------|
| FXMQ    | 100 Pa | 270 Pa |
| VRV AHU | 250 Pa | 500 Pa |

|         | From | To     |
|---------|------|--------|
| FXMQ    | 2 HP | 10 HP  |
| VRV AHU | 6 HP | 120 HP |

\*For ESP more than 500Pa, please contact Daikin's Sales Office

## VRV AHU Operation Range

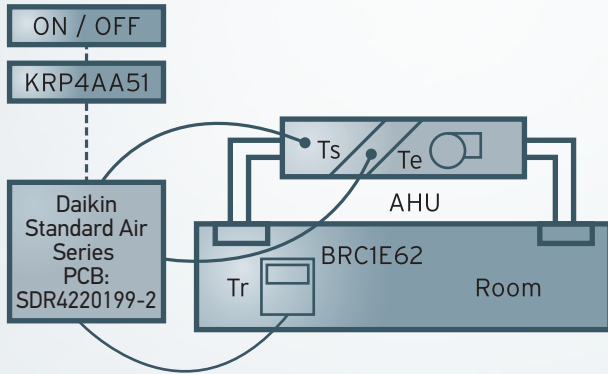
VRV AHU AHUR-DCV/CCV/SCV operation is similar as other VRV indoor unit. Following table is the list of operation range for AHU unit.

|                                     |         | Temperature Range |
|-------------------------------------|---------|-------------------|
|                                     |         | Cooling           |
| Entering Air Temperature to VRV AHU | Minimum | 14°C WB           |
|                                     | Maximum | 35°C DB / 25°C WB |
| Outdoor Unit                        | Minimum | -5°C DB           |
|                                     | Maximum | 49°C DB           |
| Expansion Valve                     | Minimum | -5°C DB           |
|                                     | Maximum | 46°C DB           |
| Standard Air Series PCB             | Minimum | -10°C DB          |
|                                     | Maximum | 40°C DB           |

## Possibility Z (Ts/Tr control):

Using Daikin wired remote controller (BRC1E62 - optional) Set point can be fixed via standard Daikin wired remote controller. Remote ON/OFF can be achieved by an optional adapter KRP4AA51.

No additional external controller is required.  
The cooling load is determined from the air suction temperature and set point on the Daikin remote controller.



Ts = Air suction temperature  
Tr = Room temperature  
Te = Evaporating temperature  
AHU = Air Handling Unit

## VRV AHU Standard Air Series Evaporator Coil, Expansion Valve and Standard air series PCB

AHUR-DCV/CCV/SCV Standard Air Series model use DX coil.

Each DX coil will be connected to the internal expansion valve and controlled by Standard Air Series PCB (SDR4220199-2)

### VRV AHU Standard Air Series Evaporator Coils

- 5 capacities of Evaporator Coils
  - 6HP **used on 6HP AHU unit**
  - 8HP **used on 8HP AHU unit**
  - 10HP **used on 10HP AHU unit**
  - 16HP **used on 16HP, 32HP, 48HP AHU unit**
  - 20HP **used on 20HP, 40HP, 60HP, 80HP, 100HP, 120HP AHU unit**

### VRV AHU Expansion Valve (Built-In Coil)

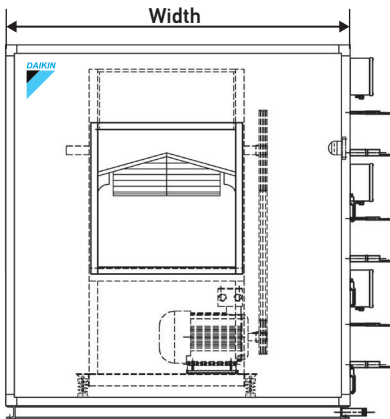
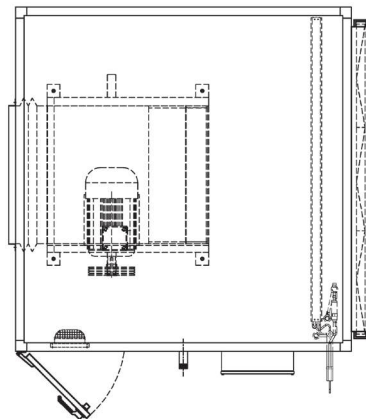
- 5 capacities of AHU Expansion Valve
  - Heat Exchanger 6HP
  - Heat Exchanger 8HP
  - Heat Exchanger 10HP
  - Heat Exchanger 16HP
  - Heat Exchanger 20HP

### VRV AHU Standard Air Series PCB (SDR4220199-2)

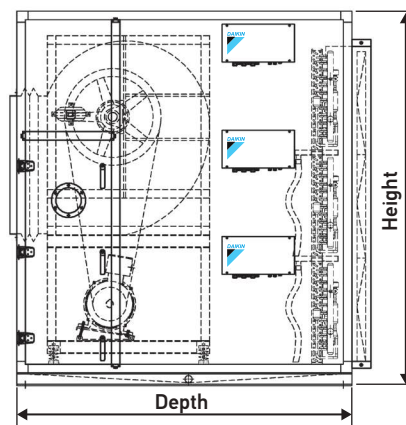


## VRV AHU Standard Air Series PCB

| SDR4220199-2    |                          |                     |
|-----------------|--------------------------|---------------------|
| Application     |                          | Multi               |
| Outdoor Unit    |                          | VRV                 |
| Casing          | Colour<br>Material       | White grey<br>Resin |
| Dimensions      | Unit H x W x D mm        | 248x421x149         |
| Weight          | Unit Kg                  | 3.6                 |
| Operation Range | Cooling Min. ~ Max. °CDB | -10.0 ~ 40.0        |
| Power Supply    | Phase                    | 1                   |
|                 | Frequency Hz             | 50/60               |
|                 | Voltage V                | 230/220             |



Front View



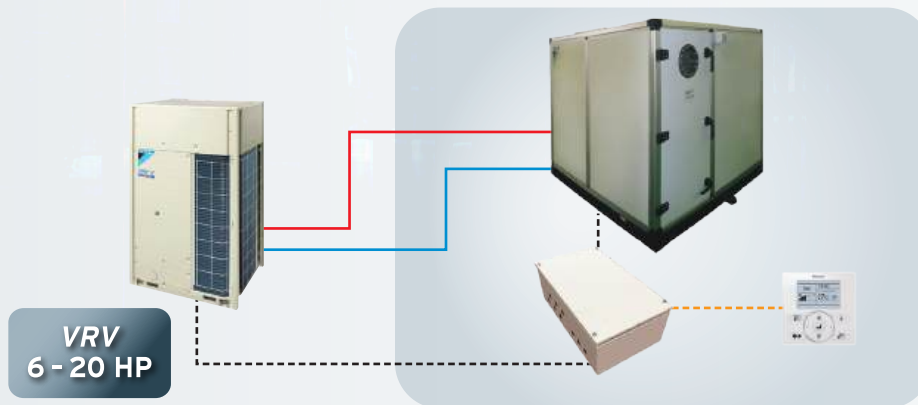
Side View

## VRV AHU System Structure

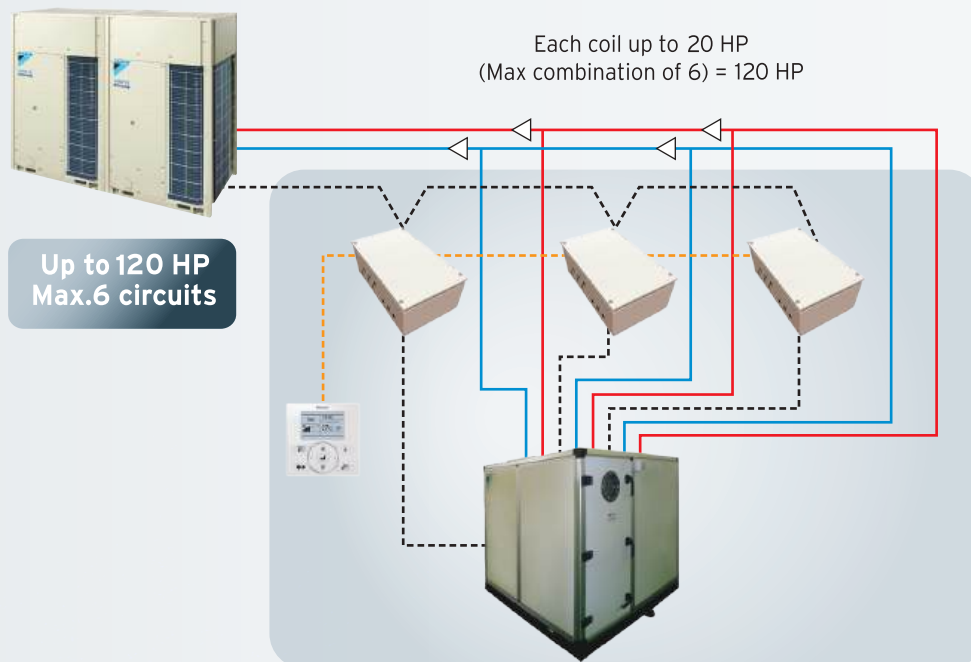


\* 1 When level differences are 50m or more, the diameter of the main liquid piping size must be increased.  
If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Please contact Daikin's Sale Office for more information.

## VRV Connection to AHU Configuration

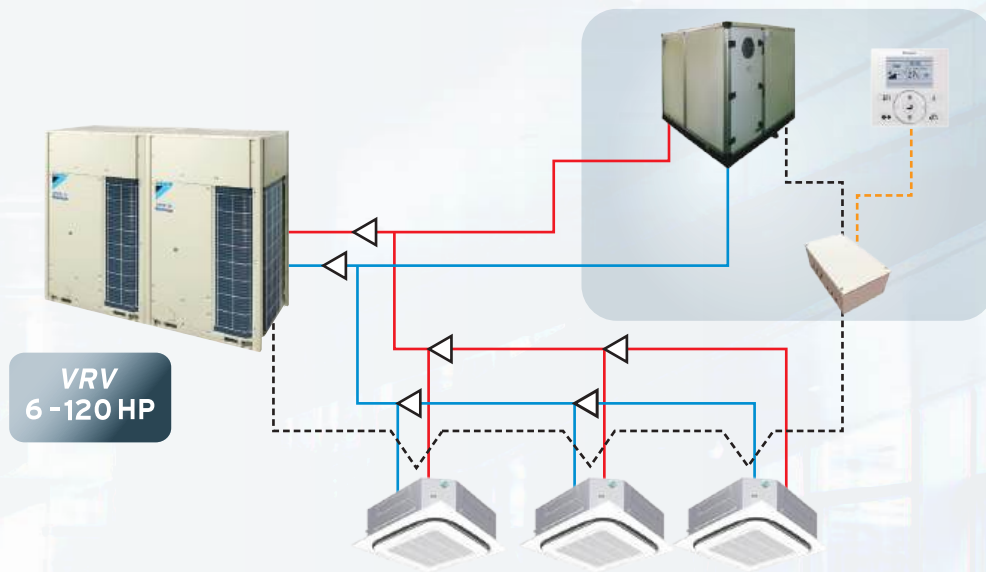


Single VRV System Configuration



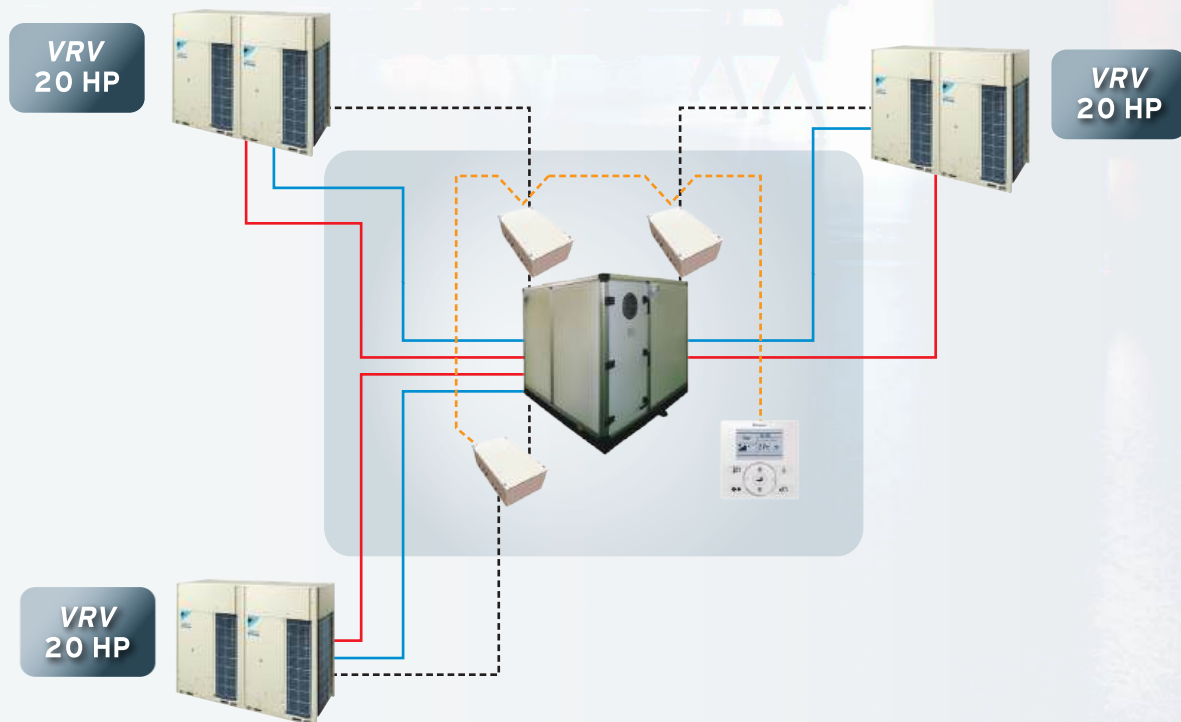
Combined VRV System Configuration

\* In case of more than 60 HP system, connection is Multiple VRV system.



Multiple Indoor Units with AHU Configuration

\* In case of more than 60 HP system, connection is Multiple VRV system.



Multiple VRV Systems Configuration

---- Control Wiring

..... Remote Control Wiring (P<sub>1</sub>P<sub>2</sub>)

— Liquid

— Gas

## AHU SPECIFICATION (AHUR-DCV/CCV/SCV)

|   |                                  |                                                                                                                                                                                                                         |
|---|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | CASING/INSULATION<br>(DC SERIES) | 50 mm Thickness Double Skin Panel<br>Outer Skin : 0.5 mm Thickness White Color Steel Sheet<br>Inner Skin : 0.5 mm Thickness White Color Steel Sheet<br>Insulation : Polyurethane Foam (PU) Density 40 kg/m <sup>3</sup> |
|   | CASING/INSULATION<br>(CC SERIES) | 25 mm Thickness Double Skin Panel<br>Outer Skin : 0.5 mm Thickness White Color Steel Sheet<br>Inner Skin : 0.5 mm Thickness Galvanized Steel Sheet<br>Insulation : Polyurethane Foam (PU) Density 40 kg/m <sup>3</sup>  |
|   | CASING/INSULATION<br>(SC SERIES) | 13 mm Thickness Single Skin Panel<br>Outer Skin : 1.0 mm Thickness White Color Coated Steel Sheet<br>13 mm Thickness Polyethylene Foam (PE)                                                                             |
| 2 | CASING-FRAME<br>(DC SERIES)      | Angle Steel With Black Epoxy Coated                                                                                                                                                                                     |
|   | CASING-FRAME<br>(CC/SC SERIES)   | Extruded Aluminium                                                                                                                                                                                                      |
| 3 | COIL                             | DX.Coil (Included EV.Valve)                                                                                                                                                                                             |
|   | TUBE                             | Copper Tube                                                                                                                                                                                                             |
|   | FIN                              | Aluminium White Fined                                                                                                                                                                                                   |
|   | FRAME                            | Galvanized Steel                                                                                                                                                                                                        |
| 4 | FAN                              | (Brand = Kruger)                                                                                                                                                                                                        |
|   | TYPE                             | Forward Curved Centrifugal Fan (Belt Drive)                                                                                                                                                                             |
|   | WHEEL                            | Galvanized Steel                                                                                                                                                                                                        |
|   | HOUSING                          | Galvanized Steel                                                                                                                                                                                                        |
| 5 | MOTOR                            | (Brand = Tecu)<br>Three-Phase Induction Motor Totally Enclosed Fan-Cooled Type<br>Protection = IP55 Insulation Class = F                                                                                                |
| 6 | VIBRATION ISOLATOR (FAN)         | Spring Vibration Isolator                                                                                                                                                                                               |
| 7 | DRAIN PAN (DC SERIES)            | 1.2 mm Thickness Stainless Steel                                                                                                                                                                                        |
|   | DRAIN PAN (CC/SC SERIES)         | 1.6 mm Thickness Steel Sheet With Black Epoxy Coated                                                                                                                                                                    |
| 8 | AIR FILTER                       | (Brand = AAF)<br>Type = R29 Class = G3 (AFI = 80-85%) Synthetic Washable                                                                                                                                                |
| 9 | CONTROL BOX                      | Standards Air Series PCB (SDR4220199-2)                                                                                                                                                                                 |

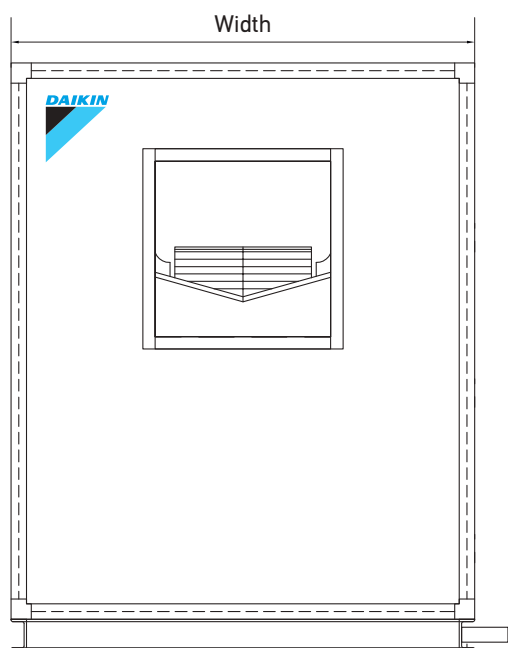


## Drawing and Dimension of AHU

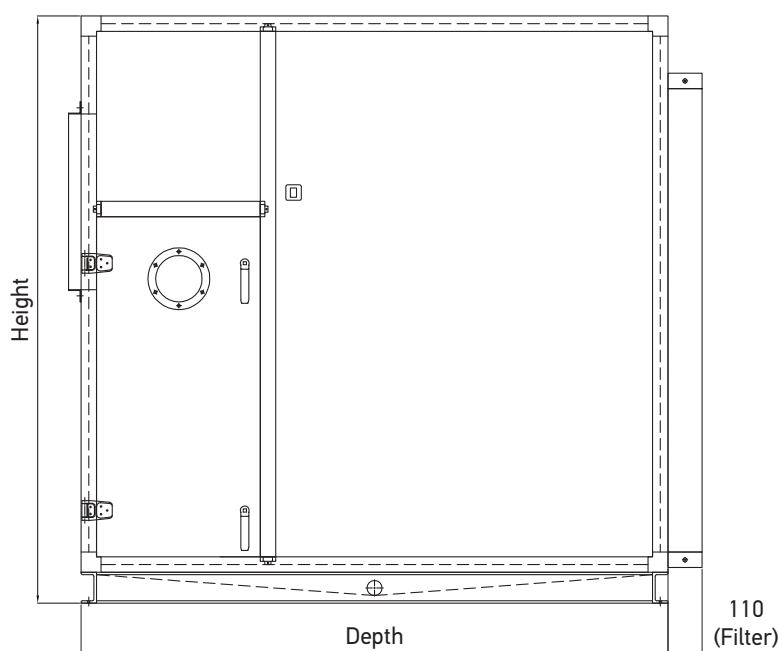
| Model      | Dimension<br>W x D x H (mm) |
|------------|-----------------------------|
| AHUR06DCV  | 1,300x1,200x1,175           |
| AHUR08DCV  | 1,300x1,400x1,175           |
| AHUR10DCV  | 1,500x1,400x1,175           |
| AHUR16DCV  | 1,800x1,500x1,175           |
| AHUR20DCV  | 2,100x1,600x1,175           |
| AHUR32DCV  | 1,800x1,800x1,575           |
| AHUR40DCV  | 2,100x1,800x1,575           |
| AHUR48DCV  | 1,800x1,950x2,275           |
| AHUR60DCV  | 2,100x1,950x2,275           |
| AHUR80DCV  | 4,000x1,800x1,600           |
| AHUR100DCV | 4,000x1,950x2,300           |
| AHUR120DCV | 4,000x1,950x2,300           |

| Model          | Dimension<br>W x D x H (mm) |
|----------------|-----------------------------|
| AHUR06CCV/SCV  | 1,200x1,100x825             |
| AHUR08CCV/SCV  | 1,300x1,200x1,075           |
| AHUR10CCV/SCV  | 1,500x1,200x1,075           |
| AHUR16CCV/SCV  | 1,700x1,400x1,075           |
| AHUR20CCV/SCV  | 2,000x1,500x1,075           |
| AHUR32CCV/SCV  | 1,700x1,700x1,475           |
| AHUR40CCV/SCV  | 2,000x1,700x1,475           |
| AHUR48CCV/SCV  | 1,700x1,850x2,075           |
| AHUR60CCV/SCV  | 2,000x1,950x2,175           |
| AHUR80CCV/SCV  | 3,900x1,700x1,500           |
| AHUR100CCV/SCV | 3,900x1,850x2,200           |
| AHUR120CCV/SCV | 3,900x2,000x2,200           |

\* Dimension does not include Standard air series PCB, Expansion Valve and Pre-filter



Front View



Side View

# Standard Air Series AHUR-DCV/CCV/SCV

## AHUR-DCV/CCV SPECIFICATIONS

| Model                                       |                           | AHUR06DCV<br>AHUR06CCV                                   |      |      |      |      | AHUR08DCV<br>AHUR08CCV     |      |      |      |      | AHUR10DCV<br>AHUR10CCV     |      |      |      |      | AHUR16DCV<br>AHUR16CCV     |      |      |      |      | AHUR20DCV<br>AHUR20CCV     |      |      |       |       | AHUR32DCV<br>AHUR32CCV     |      |      |      |      |
|---------------------------------------------|---------------------------|----------------------------------------------------------|------|------|------|------|----------------------------|------|------|------|------|----------------------------|------|------|------|------|----------------------------|------|------|------|------|----------------------------|------|------|-------|-------|----------------------------|------|------|------|------|
| Total Cooling Capacity                      | NET (KW) <sup>1</sup>     | 16.4                                                     | 16.3 | 16.2 | 16.0 | 15.9 | 22.9                       | 22.8 | 22.7 | 22.4 | 22.3 | 28.4                       | 28.3 | 28.2 | 28.0 | 27.8 | 45.7                       | 45.5 | 45.3 | 45.0 | 44.6 | 56.8                       | 56.6 | 56.3 | 56.0  | 55.7  | 91.4                       | 91.0 | 90.6 | 90.0 | 89.2 |
| Total Sensible Cooling Capacity             |                           | 11.9                                                     | 11.8 | 11.7 | 11.5 | 11.4 | 16.8                       | 16.7 | 16.6 | 16.3 | 16.2 | 20.9                       | 20.8 | 20.7 | 20.5 | 20.3 | 33.5                       | 33.3 | 33.1 | 32.6 | 32.4 | 41.8                       | 41.6 | 41.3 | 40.9  | 40.7  | 67.0                       | 66.6 | 66.2 | 65.3 | 64.8 |
| Total Cooling Capacity                      | Gross (KW) <sup>2</sup>   | 17.6                                                     |      |      |      |      | 24.0                       |      |      |      |      | 29.8                       |      |      |      |      | 48.3                       |      |      |      |      | 59.4                       |      |      |       |       | 96.6                       |      |      |      |      |
| Sensible Cooling Capacity                   |                           | 13.1                                                     |      |      |      |      | 17.9                       |      |      |      |      | 22.3                       |      |      |      |      | 36.2                       |      |      |      |      | 44.3                       |      |      |       |       | 72.4                       |      |      |      |      |
| Air Flow                                    | cmh / m <sup>3</sup> /min | 3,240/54                                                 |      |      |      |      | 4,080/68                   |      |      |      |      | 4,680/78                   |      |      |      |      | 8,160/136                  |      |      |      |      | 9,960/166                  |      |      |       |       | 16,320/272                 |      |      |      |      |
| Ent. Temp.                                  | *CDB/**CWB                | 27/19                                                    |      |      |      |      | 27/19                      |      |      |      |      | 27/19                      |      |      |      |      | 27/19                      |      |      |      |      | 27/19                      |      |      |       |       | 27/19                      |      |      |      |      |
| Lea. Temp.                                  | *CDB/**CWB                | 14.7/13.3                                                |      |      |      |      | 13.6/12.7                  |      |      |      |      | 12.5/12.4                  |      |      |      |      | 13.5/12.7                  |      |      |      |      | 13.4/12.6                  |      |      |       |       | 13.5/12.7                  |      |      |      |      |
| Coil Type                                   |                           | DX.Coil (R410A) ø8 mm. Wave slit surface & Straight edge |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |       |       |                            |      |      |      |      |
| Coil Face Area                              | m <sup>2</sup>            | 0.491                                                    |      |      |      |      | 0.443                      |      |      |      |      | 0.54                       |      |      |      |      | 0.78                       |      |      |      |      | 0.99                       |      |      |       |       | 1.57                       |      |      |      |      |
| Coil Face Vel.                              | m/s                       | 1.83                                                     |      |      |      |      | 2.56                       |      |      |      |      | 2.41                       |      |      |      |      | 2.89                       |      |      |      |      | 2.79                       |      |      |       |       | 2.89                       |      |      |      |      |
| Air PD.In Coil                              | Pa                        | 100                                                      |      |      |      |      | 100                        |      |      |      |      | 100                        |      |      |      |      | 100                        |      |      |      |      | 100                        |      |      |       |       | 100                        |      |      |      |      |
| Air PD.In Pre Filter <sup>3</sup>           | Pa                        | 80                                                       |      |      |      |      | 80                         |      |      |      |      | 80                         |      |      |      |      | 80                         |      |      |      |      | 80                         |      |      |       |       | 80                         |      |      |      |      |
| Air Filter Size 12" x 24" x 2" <sup>4</sup> | PCS.                      | 1                                                        |      |      |      |      | 1                          |      |      |      |      | -                          |      |      |      |      | 1                          |      |      |      |      | -                          |      |      |       |       | 2                          |      |      |      |      |
| Air Filter Size 24" x 24" x 2" <sup>4</sup> | PCS.                      | 1                                                        |      |      |      |      | 1                          |      |      |      |      | 2                          |      |      |      |      | 2                          |      |      |      |      | 3                          |      |      |       |       | 4                          |      |      |      |      |
| Air PD.In Casing                            | Pa                        | 30                                                       |      |      |      |      | 30                         |      |      |      |      | 30                         |      |      |      |      | 30                         |      |      |      |      | 30                         |      |      |       |       | 30                         |      |      |      |      |
| ESPInitial                                  | Pa                        | 250                                                      | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450   | 500   | 250                        | 300  | 350  | 450  | 500  |
| Total Statics Pressure                      | Pa                        | 460                                                      | 510  | 560  | 660  | 710  | 460                        | 510  | 560  | 660  | 710  | 460                        | 510  | 560  | 660  | 710  | 460                        | 510  | 560  | 660  | 710  | 460                        | 510  | 560  | 660   | 710   | 460                        | 510  | 560  | 660  | 710  |
| Fan Type                                    |                           | Forward Curved Centrifugal Fan (Belt Drive)              |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |       |       |                            |      |      |      |      |
| Model                                       |                           | FDA200CM                                                 |      |      |      |      | FDA250TM                   |      |      |      |      | FDA250TM                   |      |      |      |      | FDA315TM                   |      |      |      |      | FDA355TM                   |      |      |       |       | FDA450TM                   |      |      |      |      |
| Fan Motor <sup>5</sup>                      | KW                        | 1.5                                                      | 2.2  |      |      |      | 1.5                        | 2.2  |      |      |      | 2.2                        | 3.0  | 3.0  | 4.0  |      |                            |      | 3.0  | 4.0  |      |                            |      | 5.5  | 5.5   | 7.5   |                            |      |      |      |      |
|                                             | POLE                      | 4                                                        |      |      |      |      | 4                          |      |      |      |      | 4                          |      |      |      |      | 4                          |      |      |      |      | 4                          |      |      |       |       | 4                          |      |      |      |      |
| Power Supply                                | Volt/Ph./Hz.              | 380-415/3/50                                             |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |       |       |                            |      |      |      |      |
| FLA                                         | amp.                      | 3.53                                                     | 4.96 |      |      |      | 3.53                       | 4.96 |      |      |      | 4.96                       | 6.59 | 6.59 | 8.67 |      |                            |      | 6.59 | 8.67 | 11.5 |                            |      |      | 11.5  | 15.3  |                            |      |      |      |      |
| Machine Weight (DCV)                        | kg                        | 545                                                      | 550  |      |      |      | 550                        | 560  |      |      |      | 600                        | 610  | 765  | 775  |      |                            |      | 890  | 900  |      |                            |      | 920  | 1,090 | 1,110 |                            |      |      |      |      |
| Machine Weight (CCV)                        | kg                        | 480                                                      | 485  |      |      |      | 480                        | 485  |      |      |      | 530                        | 540  | 740  | 750  |      |                            |      | 850  | 860  |      |                            |      | 880  | 990   | 1,010 |                            |      |      |      |      |
| Sound Pressure Level (SPL)                  | dBA                       | 60                                                       | 61   | 62   | 63   | 64   | 54                         | 56   | 57   | 59   | 60   | 54                         | 56   | 57   | 59   | 60   | 62                         | 63   | 64   | 66   | 67   | 61                         | 61   | 62   | 64    | 65    | 62                         | 63   | 64   | 65   | 66   |
| Standard Air Series PCB                     | Model/PCS.                | SDR4220199-2 / 1 pc.                                     |      |      |      |      | SDR4220199-2 / 1 pc.       |      |      |      |      | SDR4220199-2 / 1 pc.       |      |      |      |      | SDR4220199-2 / 1 pc.       |      |      |      |      | SDR4220199-2 / 1 pc.       |      |      |       |       | SDR4220199-2 / 2 pcs.      |      |      |      |      |
| Expansion Valve (Built-in Coil)             | PCS.                      | 1                                                        |      |      |      |      | 1                          |      |      |      |      | 1                          |      |      |      |      | 1                          |      |      |      |      | 1                          |      |      |       |       | 2                          |      |      |      |      |
| Piping Connections                          | Liquid pipes              | mm                                                       |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |       |       | mm                         |      |      |      |      |
|                                             | Gas pipes                 | mm                                                       |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |       |       | mm                         |      |      |      |      |
|                                             | Drain pipes               | inch                                                     |      |      |      |      | inch                       |      |      |      |      | inch                       |      |      |      |      | inch                       |      |      |      |      | inch                       |      |      |       |       | inch                       |      |      |      |      |
| Refrigerant Control                         |                           | Electronic expansion valve                               |      |      |      |      | Electronic expansion valve |      |      |      |      | Electronic expansion valve |      |      |      |      | Electronic expansion valve |      |      |      |      | Electronic expansion valve |      |      |       |       | Electronic expansion valve |      |      |      |      |
| Panel                                       |                           | Double Skin                                              |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |       |       |                            |      |      |      |      |
| Capacity Index                              |                           | 140                                                      |      |      |      |      | 200                        |      |      |      |      | 250                        |      |      |      |      | 400                        |      |      |      |      | 500                        |      |      |       |       | 800                        |      |      |      |      |

| Model                                       |                         | AHUR40DCV<br>AHUR40CCV                                   |       |                                |       |       | AHUR48DCV<br>AHUR48CCV |       |                                |       |       | AHUR60DCV<br>AHUR60CCV |       |                                |       |       | AHUR80DCV<br>AHUR80CCV |       |                                |       |       | AHUR100DCV<br>AHUR100CCV |       |                                |       |       | AHUR120DCV<br>AHUR120CCV |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
|---------------------------------------------|-------------------------|----------------------------------------------------------|-------|--------------------------------|-------|-------|------------------------|-------|--------------------------------|-------|-------|------------------------|-------|--------------------------------|-------|-------|------------------------|-------|--------------------------------|-------|-------|--------------------------|-------|--------------------------------|-------|-------|--------------------------|-------|--------------------------------|-------|-------|------|----|-------|----|--|-------|--|--|-------|--|------|-------|--|--|-------|------|--|--|--|--|------|--|--|--|--|------|--|--|--|--|
| Total Cooling Capacity                      | NET (KW) <sup>1</sup>   | 113.6                                                    | 113.2 | 112.7                          | 112.0 | 111.3 | 137.1                  | 136.6 | 136.0                          | 135.0 | 133.7 | 170.4                  | 169.7 | 169.0                          | 168.0 | 167.0 | 227.2                  | 226.3 | 225.4                          | 224.0 | 222.6 | 284.0                    | 282.9 | 281.7                          | 280.0 | 278.3 | 340.8                    | 339.5 | 338.0                          | 336.0 | 334.0 |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Total Sensible Cooling Capacity             |                         | 83.6                                                     | 83.2  | 82.7                           | 81.8  | 81.3  | 100.5                  | 100.0 | 99.4                           | 97.9  | 97.1  | 125.4                  | 124.7 | 124.0                          | 122.7 | 122.0 | 167.2                  | 166.3 | 165.4                          | 163.6 | 162.6 | 209.0                    | 207.9 | 206.7                          | 204.5 | 203.3 | 250.8                    | 249.5 | 248.0                          | 245.4 | 244.0 |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Total Cooling Capacity                      | Gross (KW) <sup>2</sup> | 118.8                                                    |       |                                |       |       | 164.9                  |       |                                |       |       | 178.2                  |       |                                |       |       | 237.6                  |       |                                |       |       | 297.0                    |       |                                |       |       | 356.4                    |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Sensible Cooling Capacity                   |                         | 88.6                                                     |       |                                |       |       | 108.6                  |       |                                |       |       | 132.9                  |       |                                |       |       | 177.2                  |       |                                |       |       | 221.5                    |       |                                |       |       | 265.8                    |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Air Flow                                    | cmh / m³/min            | 19,920/ 332                                              |       |                                |       |       | 24,480/ 408            |       |                                |       |       | 29,880/ 498            |       |                                |       |       | 39,840/ 664            |       |                                |       |       | 49,800/ 830              |       |                                |       |       | 59,760/ 996              |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Ent. Temp.                                  | *CDB/°CWB               | 27/ 19                                                   |       |                                |       |       | 27/ 19                 |       |                                |       |       | 27/ 19                 |       |                                |       |       | 27/ 19                 |       |                                |       |       | 27/ 19                   |       |                                |       |       | 27/ 19                   |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Lea. Temp.                                  | *CDB/°CWB               | 13.4/ 12.6                                               |       |                                |       |       | 13.5/ 12.7             |       |                                |       |       | 13.4/ 12.6             |       |                                |       |       | 13.4/ 12.6             |       |                                |       |       | 13.4/ 12.6               |       |                                |       |       | 13.4/ 12.6               |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Coil Type                                   |                         | DX.Coil (R410A) ø8 mm. Wave slit surface & Straight edge |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                          |       |                                |       |       |                          |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Coil Face Area                              | m²                      | 1.98                                                     |       |                                |       |       | 2.35                   |       |                                |       |       | 2.97                   |       |                                |       |       | 3.96                   |       |                                |       |       | 4.95                     |       |                                |       |       | 5.94                     |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Coil Face Vel.                              | m/s                     | 2.79                                                     |       |                                |       |       | 2.89                   |       |                                |       |       | 2.79                   |       |                                |       |       | 2.79                   |       |                                |       |       | 2.79                     |       |                                |       |       | 2.79                     |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Air PD.In Coil                              | Pa                      | 100                                                      |       |                                |       |       | 100                    |       |                                |       |       | 100                    |       |                                |       |       | 100                    |       |                                |       |       | 100                      |       |                                |       |       | 100                      |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Air PD.In Pre Filter <sup>3</sup>           | Pa                      | 80                                                       |       |                                |       |       | 80                     |       |                                |       |       | 80                     |       |                                |       |       | 80                     |       |                                |       |       | 80                       |       |                                |       |       | 80                       |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Air Filter Size 12" x 24" x 2" <sup>4</sup> | PCS.                    | -                                                        |       |                                |       |       | 3                      |       |                                |       |       | -                      |       |                                |       |       | -                      |       |                                |       |       | -                        |       |                                |       |       | -                        |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Air Filter Size 24" x 24" x 2" <sup>4</sup> | PCS.                    | 6                                                        |       |                                |       |       | 6                      |       |                                |       |       | 9                      |       |                                |       |       | 12                     |       |                                |       |       | 18                       |       |                                |       |       | 18                       |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Air PD.In Casing                            | Pa                      | 30                                                       |       |                                |       |       | 30                     |       |                                |       |       | 30                     |       |                                |       |       | 30                     |       |                                |       |       | 30                       |       |                                |       |       | 30                       |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| ESPInitial                                  | Pa                      | 250                                                      | 300   | 350                            | 450   | 500   | 250                    | 300   | 350                            | 450   | 500   | 250                    | 300   | 350                            | 450   | 500   | 250                    | 300   | 350                            | 450   | 500   | 250                      | 300   | 350                            | 450   | 500   | 250                      | 300   | 350                            | 450   | 500   |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Total Statics Pressure                      | Pa                      | 460                                                      | 510   | 560                            | 660   | 710   | 460                    | 510   | 560                            | 660   | 710   | 460                    | 510   | 560                            | 660   | 710   | 460                    | 510   | 560                            | 660   | 710   | 460                      | 510   | 560                            | 660   | 710   | 460                      | 510   | 560                            | 660   | 710   |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Fan Type                                    |                         | Forward Curved Centrifugal Fan (Belt Drive)              |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                          |       |                                |       |       |                          |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Model                                       |                         | FDA500TM                                                 |       |                                |       |       | FDA560TM               |       |                                |       |       | FDA630TM               |       |                                |       |       | FDA500ZM               |       |                                |       |       | FDA560ZM                 |       |                                |       |       | FDA630ZM                 |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Fan Motor <sup>5</sup>                      | KW                      | 7.5                                                      |       |                                |       |       | 11.0                   |       |                                |       |       | 7.5                    |       |                                |       |       | 15.0                   |       |                                |       |       | 15.0                     |       |                                |       |       | 18.5                     |       |                                |       |       | 15.0 |    |       |    |  | 18.5  |  |  |       |  | 22.0 |       |  |  |       | 18.5 |  |  |  |  | 22.0 |  |  |  |  | 30.0 |  |  |  |  |
|                                             | POLE                    | 4                                                        |       |                                |       |       |                        |       |                                |       |       | 4                      |       |                                |       |       | 4                      |       |                                |       |       | 4                        |       |                                |       |       |                          |       |                                |       |       | 4    |    |       |    |  |       |  |  |       |  | 4    |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Power Supply                                |                         | Volt/Ph./Hz.                                             |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                          |       |                                |       |       |                          |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| FLA                                         |                         | amp.                                                     |       | 15.3                           |       |       | 22.2                   |       |                                | 15.3  |       |                        | 22.2  |                                |       | 22.2  |                        |       | 29.6                           |       |       | 29.6                     |       |                                | 35.8  |       |                          | 29.6  |                                |       | 35.8  |      |    | 42.4  |    |  | 35.8  |  |  | 42.4  |  |      | 57.4  |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Machine Weight (DCV)                        |                         | kg                                                       |       | 1,240                          |       |       | 1,300                  |       |                                | 1,400 |       |                        | 1,440 |                                |       | 1,440 |                        |       | 1,440                          |       |       | 1,440                    |       |                                | 2,160 |       |                          | 2,195 |                                |       | 2,580 |      |    | 2,615 |    |  | 2,630 |  |  | 2,830 |  |      | 2,845 |  |  | 2,945 |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Machine Weight (CCV)                        |                         | kg                                                       |       | 1,120                          |       |       | 1,160                  |       |                                | 1,250 |       |                        | 1,290 |                                |       | 1,480 |                        |       | 1,485                          |       |       | 1,485                    |       |                                | 1,920 |       |                          | 2,280 |                                |       | 2,315 |      |    | 2,330 |    |  | 2,470 |  |  | 2,485 |  |      | 2,565 |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Sound Pressure Level (SPL)                  |                         | dBA                                                      |       | 61                             | 62    | 63    | 65                     | 65    | 64                             | 65    | 65    | 66                     | 66    | 67                             | 62    | 63    | 64                     | 65    | 66                             | 67    | 67    | 67                       | 68    | 70                             | 71    | 68    | 69                       | 70    | 71                             | 72    | 69    | 69   | 70 | 71    | 73 |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Standard Air Series PCB                     |                         | Model/PCS.                                               |       | SDR4220199-2/ 2 pcs.           |       |       |                        |       | SDR4220199-2/ 3 pcs.           |       |       |                        |       | SDR4220199-2/ 3 pcs.           |       |       |                        |       | SDR4220199-2/ 4 pcs.           |       |       |                          |       | SDR4220199-2/ 5 pcs.           |       |       |                          |       | SDR4220199-2/ 6 pcs.           |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Expansion Valve (Built-in Coil)             |                         | PCS.                                                     |       | 2                              |       |       |                        |       | 3                              |       |       |                        |       | 3                              |       |       |                        |       | 4                              |       |       |                          |       | 5                              |       |       |                          |       | 6                              |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Piping Connections                          | Liquid pipes            | mm                                                       |       | ø15.9 (Brazing connection) x 2 |       |       |                        |       | ø12.7 (Brazing connection) x 3 |       |       |                        |       | ø15.9 (Brazing connection) x 3 |       |       |                        |       | ø15.9 (Brazing connection) x 4 |       |       |                          |       | ø15.9 (Brazing connection) x 5 |       |       |                          |       | ø15.9 (Brazing connection) x 6 |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
|                                             | Gas pipes               | mm                                                       |       | ø28.6 (Brazing connection) x 2 |       |       |                        |       | ø28.6 (Brazing connection) x 3 |       |       |                        |       | ø28.6 (Brazing connection) x 3 |       |       |                        |       | ø28.6 (Brazing connection) x 4 |       |       |                          |       | ø28.6 (Brazing connection) x 5 |       |       |                          |       | ø28.6 (Brazing connection) x 6 |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
|                                             | Drain pipes             | inch                                                     |       | ø1-1/4" (male)                 |       |       |                        |       | ø1-1/4" (male)                 |       |       |                        |       | ø1-1/4" (male)                 |       |       |                        |       | ø1-1/2" (male)                 |       |       |                          |       | ø1-1/2" (male)                 |       |       |                          |       | ø1-1/2" (male)                 |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Refrigerant Control                         |                         | Electronic expansion valve                               |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                          |       |                                |       |       |                          |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Panel                                       |                         | Double Skin                                              |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                        |       |                                |       |       |                          |       |                                |       |       |                          |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Capacity Index                              |                         | 1,000                                                    |       |                                |       |       | 1,200                  |       |                                |       |       | 1,500                  |       |                                |       |       | 2,000                  |       |                                |       |       | 2,500                    |       |                                |       |       | 3,000                    |       |                                |       |       |      |    |       |    |  |       |  |  |       |  |      |       |  |  |       |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |

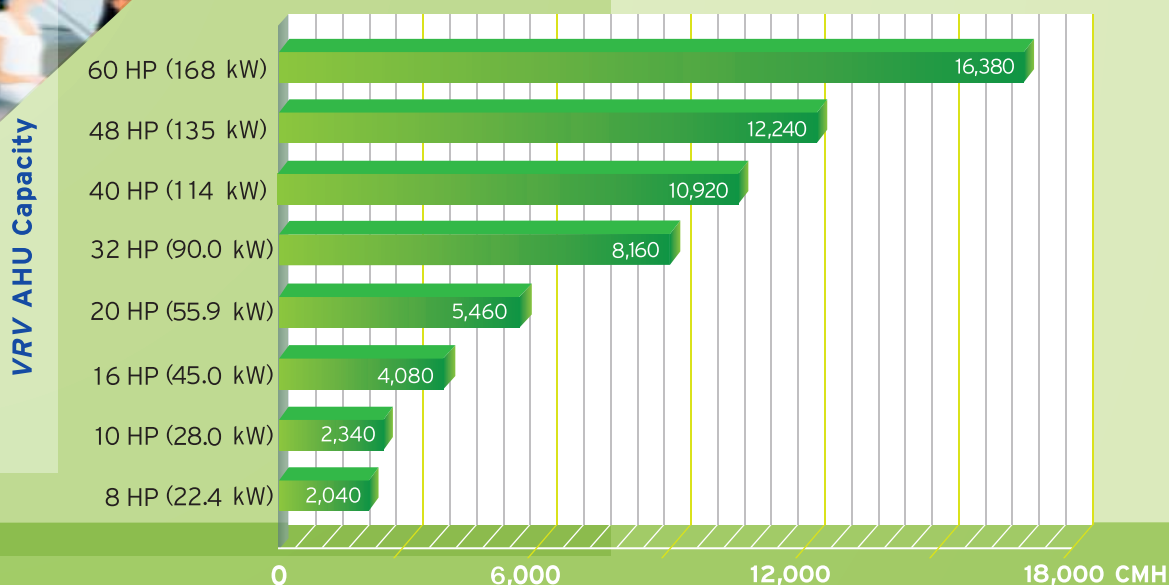
## AHUR-SCV SPECIFICATIONS

| Model                                        |                          | AHUR06SCV                                                |       |                            |      |      | AHUR08SCV                  |      |                      |                            |      | AHUR10SCV                  |                            |                      |      |                            | AHUR16SCV                  |      |                                |      |      | AHUR20SCV                  |      |                      |      |       | AHUR32SCV  |      |                       |      |      |     |    |
|----------------------------------------------|--------------------------|----------------------------------------------------------|-------|----------------------------|------|------|----------------------------|------|----------------------|----------------------------|------|----------------------------|----------------------------|----------------------|------|----------------------------|----------------------------|------|--------------------------------|------|------|----------------------------|------|----------------------|------|-------|------------|------|-----------------------|------|------|-----|----|
| Total Cooling Capacity                       | NET (KW) <sup>1)</sup>   | 16.4                                                     | 16.3  | 16.2                       | 16.0 | 15.9 | 22.9                       | 22.8 | 22.7                 | 22.4                       | 22.3 | 28.4                       | 28.3                       | 28.2                 | 28.0 | 27.8                       | 45.7                       | 45.5 | 45.3                           | 45.0 | 44.6 | 56.8                       | 56.6 | 56.3                 | 56.0 | 55.7  | 91.4       | 91.0 | 90.6                  | 90.0 | 89.2 |     |    |
| Total Sensible Cooling Capacity              |                          | 11.9                                                     | 11.8  | 11.7                       | 11.5 | 11.4 | 16.8                       | 16.7 | 16.6                 | 16.3                       | 16.2 | 20.9                       | 20.8                       | 20.7                 | 20.5 | 20.3                       | 33.5                       | 33.3 | 33.1                           | 32.6 | 32.4 | 41.8                       | 41.6 | 41.3                 | 40.9 | 40.7  | 67.0       | 66.6 | 66.2                  | 65.3 | 64.8 |     |    |
| Total Cooling Capacity                       | Gross (KW) <sup>2)</sup> | 17.6                                                     |       |                            |      |      | 24.0                       |      |                      |                            |      | 29.8                       |                            |                      |      |                            | 48.3                       |      |                                |      |      | 59.4                       |      |                      |      |       | 96.6       |      |                       |      |      |     |    |
| Sensible Cooling Capacity                    |                          | 13.1                                                     |       |                            |      |      | 17.9                       |      |                      |                            |      | 22.3                       |                            |                      |      |                            | 36.2                       |      |                                |      |      | 44.3                       |      |                      |      |       | 72.4       |      |                       |      |      |     |    |
| Air Flow                                     | cmh / m³/min             | 3,240/54                                                 |       |                            |      |      | 4,080/68                   |      |                      |                            |      | 4,680/78                   |                            |                      |      |                            | 8,160/136                  |      |                                |      |      | 9,960/166                  |      |                      |      |       | 16,320/272 |      |                       |      |      |     |    |
| Ent. Temp.                                   | *CDB/*CWB                | 27/19                                                    |       |                            |      |      | 27/19                      |      |                      |                            |      | 27/19                      |                            |                      |      |                            | 27/19                      |      |                                |      |      | 27/19                      |      |                      |      |       | 27/19      |      |                       |      |      |     |    |
| Lea. Temp.                                   | *CDB/*CWB                | 14.7/13.3                                                |       |                            |      |      | 13.6/12.7                  |      |                      |                            |      | 12.5/12.4                  |                            |                      |      |                            | 13.5/12.7                  |      |                                |      |      | 13.4/12.6                  |      |                      |      |       | 13.5/12.7  |      |                       |      |      |     |    |
| Coil Type                                    |                          | DX.Coil (R410A) ø8 mm. Wave slit surface & Straight edge |       |                            |      |      |                            |      |                      |                            |      |                            |                            |                      |      |                            |                            |      |                                |      |      |                            |      |                      |      |       |            |      |                       |      |      |     |    |
| Coil Face Area                               |                          | m²                                                       | 0.491 |                            |      |      | 0.443                      |      |                      |                            | 0.54 |                            |                            |                      | 0.78 |                            |                            |      | 0.99                           |      |      |                            | 1.57 |                      |      |       |            |      |                       |      |      |     |    |
| Coil Face Vel.                               |                          | m/s                                                      | 1.83  |                            |      |      | 2.56                       |      |                      |                            | 2.41 |                            |                            |                      | 2.89 |                            |                            |      | 2.79                           |      |      |                            | 2.89 |                      |      |       |            |      |                       |      |      |     |    |
| Air PD.In Coil                               |                          | Pa                                                       | 100   |                            |      |      | 100                        |      |                      |                            | 100  |                            |                            |                      | 100  |                            |                            |      | 100                            |      |      |                            | 100  |                      |      |       |            |      |                       |      |      |     |    |
| Air PD.In Pre Filter <sup>3)</sup>           |                          | Pa                                                       | 80    |                            |      |      | 80                         |      |                      |                            | 80   |                            |                            |                      | 80   |                            |                            |      | 80                             |      |      |                            | 80   |                      |      |       |            |      |                       |      |      |     |    |
| Air Filter Size 12" x 24" x 2" <sup>4)</sup> |                          | PCS.                                                     | 1     |                            |      |      | 1                          |      |                      |                            | -    |                            |                            |                      | 1    |                            |                            |      | -                              |      |      |                            | 2    |                      |      |       |            |      |                       |      |      |     |    |
| Air Filter Size 24" x 24" x 2" <sup>4)</sup> |                          | PCS.                                                     | 1     |                            |      |      | 1                          |      |                      |                            | 2    |                            |                            |                      | 2    |                            |                            |      | 3                              |      |      |                            | 4    |                      |      |       |            |      |                       |      |      |     |    |
| Air PD.In Casing                             |                          | Pa                                                       | 30    |                            |      |      | 30                         |      |                      |                            | 30   |                            |                            |                      | 30   |                            |                            |      | 30                             |      |      |                            | 30   |                      |      |       |            |      |                       |      |      |     |    |
| ESPInitial                                   |                          | Pa                                                       | 250   | 300                        | 350  | 450  | 500                        | 250  | 300                  | 350                        | 450  | 500                        | 250                        | 300                  | 350  | 450                        | 500                        | 250  | 300                            | 350  | 450  | 500                        | 250  | 300                  | 350  | 450   | 500        | 250  | 300                   | 350  | 450  | 500 |    |
| Total Statics Pressure                       |                          | Pa                                                       | 460   | 510                        | 560  | 660  | 710                        | 460  | 510                  | 560                        | 660  | 710                        | 460                        | 510                  | 560  | 660                        | 710                        | 460  | 510                            | 560  | 660  | 710                        | 460  | 510                  | 560  | 660   | 710        | 460  | 510                   | 560  | 660  | 710 |    |
| Fan Type                                     |                          | Forward curved centrifugal fan (Belt drive)              |       |                            |      |      |                            |      |                      |                            |      |                            |                            |                      |      |                            |                            |      |                                |      |      |                            |      |                      |      |       |            |      |                       |      |      |     |    |
| Model                                        |                          | FDA200CM                                                 |       |                            |      |      | FDA250CM                   |      |                      |                            |      | FDA250CM                   |                            |                      |      |                            | FDA315CM                   |      |                                |      |      | FDA355CM                   |      |                      |      |       | FDA500CM   |      |                       |      |      |     |    |
| Fan Motor <sup>5)</sup>                      |                          | KW                                                       | 1.5   |                            | 2.2  |      | 1.5                        |      | 2.2                  |                            | 2.2  |                            | 3.0                        |                      | 3.0  | 4.0                        |                            | 3.0  |                                | 4.0  |      | 5.5                        | 5.5  |                      | 7.5  |       |            |      |                       |      |      |     |    |
|                                              |                          | POLE                                                     | 4     |                            |      |      | 4                          |      |                      |                            | 4    |                            |                            |                      | 4    |                            |                            |      | 4                              |      |      |                            | 4    |                      |      |       |            |      |                       |      |      |     |    |
| Power Supply                                 |                          | Volt/Ph./Hz.                                             |       | 380-415/3/50               |      |      |                            |      |                      |                            |      |                            |                            |                      |      |                            |                            |      |                                |      |      |                            |      |                      |      |       |            |      |                       |      |      |     |    |
| FLA                                          |                          | amp.                                                     |       | 3.53                       |      | 4.96 |                            | 3.53 |                      | 4.96                       |      | 4.96                       |                            | 6.59                 |      | 6.59                       | 8.67                       |      | 6.59                           |      | 8.67 |                            | 11.5 | 11.5                 |      | 15.3  |            |      |                       |      |      |     |    |
| Machine Weight (SCV)                         |                          | kg                                                       |       | 480                        |      | 485  |                            | 480  |                      | 485                        |      | 530                        |                            | 540                  |      | 740                        | 750                        |      | 850                            |      | 860  |                            | 880  | 990                  |      | 1,010 |            |      |                       |      |      |     |    |
| Sound Pressure Level (SPL)                   |                          | dBA                                                      |       | 68                         | 69   | 70   | 71                         | 72   | 61                   | 63                         | 64   | 66                         | 67                         | 61                   | 63   | 64                         | 66                         | 67   | 71                             | 71   | 72   | 73                         | 74   | 72                   | 72   | 73    | 74         | 74   | 70                    | 71   | 72   | 73  | 74 |
| Standard Air Series PCB                      |                          | Model/PCS.                                               |       | SDR4220199-2 / 1 pc.       |      |      |                            |      | SDR4220199-2 / 1 pc. |                            |      |                            |                            | SDR4220199-2 / 1 pc. |      |                            |                            |      | SDR4220199-2 / 1 pc.           |      |      |                            |      | SDR4220199-2 / 1 pc. |      |       |            |      | SDR4220199-2 / 2 pcs. |      |      |     |    |
| Expansion Valve (Built-in Coil)              |                          | PCS.                                                     |       | 1                          |      | 1    |                            | 1    |                      | 1                          |      | 1                          |                            | 1                    |      | 1                          |                            | 1    |                                | 1    |      | 1                          |      | 2                    |      |       |            |      |                       |      |      |     |    |
| Piping Connections                           | Liquid pipes             | mm                                                       |       | ø9.5 (Brazing connection)  |      |      | ø9.5 (Brazing connection)  |      |                      | ø9.5 (Brazing connection)  |      |                            | ø12.7 (Brazing connection) |                      |      | ø15.9 (Brazing connection) |                            |      | ø12.7 (Brazing connection) x 2 |      |      |                            |      |                      |      |       |            |      |                       |      |      |     |    |
|                                              | Gas pipes                | mm                                                       |       | ø15.9 (Brazing connection) |      |      | ø19.1 (Brazing connection) |      |                      | ø22.2 (Brazing connection) |      |                            | ø28.6 (Brazing connection) |                      |      | ø28.6 (Brazing connection) |                            |      | ø28.6 (Brazing connection) x 2 |      |      |                            |      |                      |      |       |            |      |                       |      |      |     |    |
|                                              | Drain pipes              | inch                                                     |       | ø1" (male)                 |      |      | ø1" (male)                 |      |                      | ø1" (male)                 |      |                            | ø1" (male)                 |                      |      | ø1" (male)                 |                            |      | ø1-1/4" (male)                 |      |      |                            |      |                      |      |       |            |      |                       |      |      |     |    |
| Refrigerant Control                          |                          | Electronic expansion valve                               |       |                            |      |      | Electronic expansion valve |      |                      |                            |      | Electronic expansion valve |                            |                      |      |                            | Electronic expansion valve |      |                                |      |      | Electronic expansion valve |      |                      |      |       |            |      |                       |      |      |     |    |
| Panel                                        |                          | Single Skin                                              |       |                            |      |      |                            |      |                      |                            |      |                            |                            |                      |      |                            |                            |      |                                |      |      |                            |      |                      |      |       |            |      |                       |      |      |     |    |
| Capacity Index                               |                          | 140                                                      |       |                            |      |      | 200                        |      |                      |                            |      | 250                        |                            |                      |      |                            | 400                        |      |                                |      |      | 500                        |      |                      |      |       | 800        |      |                       |      |      |     |    |

| Model                                         |              | AHUR40SCV     |  |                                                          |       |       | AHUR48SCV |       |                                |       |       | AHUR60SCV |       |                                |       |       | AHUR80SCV |       |                                |       |       | AHUR100SCV |       |                                |       |       | AHUR120SCV |       |                                |       |       |       |       |
|-----------------------------------------------|--------------|---------------|--|----------------------------------------------------------|-------|-------|-----------|-------|--------------------------------|-------|-------|-----------|-------|--------------------------------|-------|-------|-----------|-------|--------------------------------|-------|-------|------------|-------|--------------------------------|-------|-------|------------|-------|--------------------------------|-------|-------|-------|-------|
| Total Cooling Capacity                        |              | NET (KW) **   |  | 113.6                                                    | 113.2 | 112.7 | 112.0     | 111.3 | 137.1                          | 136.6 | 136.0 | 135.0     | 133.7 | 170.4                          | 169.7 | 169.0 | 168.0     | 167.0 | 227.2                          | 226.3 | 225.4 | 224.0      | 222.6 | 284.0                          | 282.9 | 281.7 | 280.0      | 278.3 | 340.8                          | 339.5 | 338.0 | 336.0 | 334.0 |
| Total Sensible Cooling Capacity               |              |               |  | 83.6                                                     | 83.2  | 82.7  | 81.8      | 81.3  | 100.5                          | 100.0 | 99.4  | 97.9      | 97.1  | 125.4                          | 124.7 | 124.0 | 122.7     | 122.0 | 167.2                          | 166.3 | 165.4 | 163.6      | 162.6 | 209.0                          | 207.9 | 206.7 | 204.5      | 203.3 | 250.8                          | 249.5 | 248.0 | 245.4 | 244.0 |
| Total Cooling Capacity                        |              | Gross (KW) ** |  | 118.8                                                    |       |       |           |       | 164.9                          |       |       |           |       | 178.2                          |       |       |           |       | 237.6                          |       |       |            |       | 297.0                          |       |       |            |       | 356.4                          |       |       |       |       |
| Sensible Cooling Capacity                     |              |               |  | 88.6                                                     |       |       |           |       | 108.6                          |       |       |           |       | 132.9                          |       |       |           |       | 177.2                          |       |       |            |       | 221.5                          |       |       |            |       | 265.8                          |       |       |       |       |
| Air Flow                                      |              | cmh / m³/mi   |  | 19,920/ 332                                              |       |       |           |       | 24,480/ 408                    |       |       |           |       | 29,880/ 498                    |       |       |           |       | 39,840/ 664                    |       |       |            |       | 49,800/ 830                    |       |       |            |       | 59,760/ 996                    |       |       |       |       |
| Ent. Temp.                                    |              | °CDB/°CWB     |  | 27/ 19                                                   |       |       |           |       | 27/ 19                         |       |       |           |       | 27/ 19                         |       |       |           |       | 27/ 19                         |       |       |            |       | 27/ 19                         |       |       |            |       | 27/ 19                         |       |       |       |       |
| Lea. Temp.                                    |              | °CDB/°CWB     |  | 13.4/ 12.6                                               |       |       |           |       | 13.5/ 12.7                     |       |       |           |       | 13.4/ 12.6                     |       |       |           |       | 13.4/ 12.6                     |       |       |            |       | 13.4/ 12.6                     |       |       |            |       | 13.4/ 12.6                     |       |       |       |       |
| Coil Type                                     |              |               |  | DX.Coil (R410A) ø8 mm. Wave slit surface & Straight edge |       |       |           |       |                                |       |       |           |       |                                |       |       |           |       |                                |       |       |            |       |                                |       |       |            |       |                                |       |       |       |       |
| Coil Face Area                                |              | m²            |  | 1.98                                                     |       |       |           |       | 2.35                           |       |       |           |       | 2.97                           |       |       |           |       | 3.96                           |       |       |            |       | 4.95                           |       |       |            |       | 5.94                           |       |       |       |       |
| Coil Face Vel.                                |              | m/s           |  | 2.79                                                     |       |       |           |       | 2.89                           |       |       |           |       | 2.79                           |       |       |           |       | 2.79                           |       |       |            |       | 2.79                           |       |       |            |       | 2.79                           |       |       |       |       |
| Air PD.In Coil                                |              | Pa            |  | 100                                                      |       |       |           |       | 100                            |       |       |           |       | 100                            |       |       |           |       | 100                            |       |       |            |       | 100                            |       |       |            |       | 100                            |       |       |       |       |
| Air PD.In Pre Filter **                       |              | Pa            |  | 80                                                       |       |       |           |       | 80                             |       |       |           |       | 80                             |       |       |           |       | 80                             |       |       |            |       | 80                             |       |       |            |       | 80                             |       |       |       |       |
| Air Filter Size 12" x 24" x 2" * <sup>1</sup> |              | PCS.          |  | -                                                        |       |       |           |       | 3                              |       |       |           |       | -                              |       |       |           |       | -                              |       |       |            |       | -                              |       |       |            |       | -                              |       |       |       |       |
| Air Filter Size 24" x 24" x 2" * <sup>1</sup> |              | PCS.          |  | 6                                                        |       |       |           |       | 6                              |       |       |           |       | 9                              |       |       |           |       | 12                             |       |       |            |       | 18                             |       |       |            |       | 18                             |       |       |       |       |
| Air PD.In Casing                              |              | Pa            |  | 30                                                       |       |       |           |       | 30                             |       |       |           |       | 30                             |       |       |           |       | 30                             |       |       |            |       | 30                             |       |       |            |       | 30                             |       |       |       |       |
| ESP.Initial                                   |              | Pa            |  | 250                                                      | 300   | 350   | 450       | 500   | 250                            | 300   | 350   | 450       | 500   | 250                            | 300   | 350   | 450       | 500   | 250                            | 300   | 350   | 450        | 500   | 250                            | 300   | 350   | 450        | 500   | 250                            | 300   | 350   | 450   | 500   |
| Total Statics Pressure                        |              | Pa            |  | 440                                                      | 510   | 560   | 660       | 710   | 440                            | 510   | 560   | 660       | 710   | 440                            | 510   | 560   | 660       | 710   | 440                            | 510   | 560   | 660        | 710   | 440                            | 510   | 560   | 660        | 710   | 440                            | 510   | 560   | 660   | 710   |
| Fan Type                                      |              |               |  | Forward curved centrifugal fan (Belt drive)              |       |       |           |       |                                |       |       |           |       |                                |       |       |           |       |                                |       |       |            |       |                                |       |       |            |       |                                |       |       |       |       |
| Model                                         |              | FDA500CM      |  |                                                          |       |       | FDA560CM  |       |                                |       |       | FDA630CM  |       |                                |       |       | FDA500T2M |       |                                |       |       | FDA560T2M  |       |                                |       |       | FDA630T2M  |       |                                |       |       |       |       |
| Fan Motor **                                  |              | KW            |  | 7.5                                                      |       | 11.0  |           | 7.5   |                                | 11.0  |       | 11.0      |       | 15.0                           |       | 15.0  |           | 18.5  |                                | 15.0  |       | 18.5       |       | 22.0                           |       | 18.5  |            | 22.0  |                                | 30.0  |       |       |       |
|                                               |              | POLE          |  | 4                                                        |       |       |           | 4     |                                |       |       | 4         |       | 4                              |       | 4     |           | 4     |                                | 4     |       | 4          |       | 4                              |       | 4     |            | 4     |                                | 4     |       |       |       |
| Power Supply                                  |              | Volt/Ph./Hz.  |  | 380-415/3/50                                             |       |       |           |       |                                |       |       |           |       |                                |       |       |           |       |                                |       |       |            |       |                                |       |       |            |       |                                |       |       |       |       |
| FLA                                           |              | amp.          |  | 15.3                                                     |       | 22.2  |           | 15.3  |                                | 22.2  |       | 22.2      |       | 29.6                           |       | 35.8  |           | 29.6  |                                | 35.8  |       | 42.4       |       | 35.8                           |       | 42.4  |            | 57.4  |                                |       |       |       |       |
| Machine Weight (SCV)                          |              | kg            |  | 1,120                                                    |       | 1,160 |           | 1,250 |                                | 1,290 |       | 1,480     |       | 1,885                          |       | 1,920 |           | 2,280 |                                | 2,315 |       | 2,330      |       | 2,470                          |       | 2,485 |            | 2,565 |                                |       |       |       |       |
| Sound Pressure Level (SPL)                    |              | dBA           |  | 70                                                       | 70    | 71    | 73        | 73    | 70                             | 72    | 72    | 73        | 74    | 69                             | 70    | 71    | 72        | 73    | 75                             | 76    | 76    | 78         | 79    | 75                             | 76    | 77    | 78         | 79    | 75                             | 76    | 77    | 78    | 80    |
| Standard Air Series PCB                       |              | Model/PCS.    |  | SDR4220199-2 / 2pcs.                                     |       |       |           |       | SDR4220199-2 / 3pcs.           |       |       |           |       | SDR4220199-2 / 3pcs.           |       |       |           |       | SDR4220199-2 / 4pcs.           |       |       |            |       | SDR4220199-2 / 5pcs.           |       |       |            |       | SDR4220199-2 / 6pcs.           |       |       |       |       |
| Expansion Valve (Built-in Coil)               |              | PCS.          |  | 2                                                        |       |       |           |       | 3                              |       |       |           |       | 3                              |       |       |           |       | 4                              |       |       |            |       | 5                              |       |       |            |       | 6                              |       |       |       |       |
| Piping Connections                            | Liquid pipes | mm            |  | ø15.9 (Brazing connection) x 2                           |       |       |           |       | ø12.7 (Brazing connection) x 3 |       |       |           |       | ø15.9 (Brazing connection) x 3 |       |       |           |       | ø15.9 (Brazing connection) x 4 |       |       |            |       | ø15.9 (Brazing connection) x 5 |       |       |            |       | ø15.9 (Brazing connection) x 6 |       |       |       |       |
|                                               | Gas pipes    | mm            |  | ø28.6 (Brazing connection) x 2                           |       |       |           |       | ø28.6 (Brazing connection) x 3 |       |       |           |       | ø28.6 (Brazing connection) x 3 |       |       |           |       | ø28.6 (Brazing connection) x 4 |       |       |            |       | ø28.6 (Brazing connection) x 5 |       |       |            |       | ø28.6 (Brazing connection) x 6 |       |       |       |       |
|                                               | Drain pipes  | inch          |  | ø1-1/4" (male)                                           |       |       |           |       | ø1-1/4" (male)                 |       |       |           |       | ø1-1/4" (male)                 |       |       |           |       | ø1-1/2" (male)                 |       |       |            |       | ø1-1/2" (male)                 |       |       |            |       | ø1-1/2" (male)                 |       |       |       |       |
| Refrigerant Control                           |              |               |  | Electronic expansion valve                               |       |       |           |       | Electronic expansion valve     |       |       |           |       | Electronic expansion valve     |       |       |           |       | Electronic expansion valve     |       |       |            |       | Electronic expansion valve     |       |       |            |       | Electronic expansion valve     |       |       |       |       |
| Panel                                         |              |               |  | Single Skin                                              |       |       |           |       |                                |       |       |           |       |                                |       |       |           |       |                                |       |       |            |       |                                |       |       |            |       |                                |       |       |       |       |
| Capacity Index                                |              |               |  | 1,000                                                    |       |       |           |       | 1,200                          |       |       |           |       | 1,500                          |       |       |           |       | 2,000                          |       |       |            |       | 2,500                          |       |       |            |       | 3,000                          |       |       |       |       |

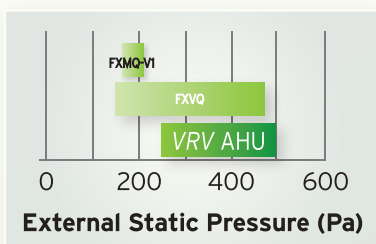
## VRV AHU Outdoor Air Series

The VRV AHU Outdoor air series are available from the capacity range of 8 HP to 60 HP, also with airflow ranging from 2,040 CMH - 16,380 CMH.

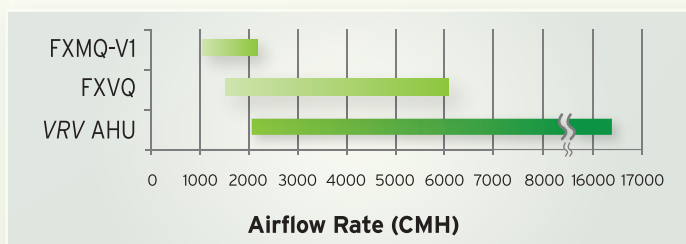


## Comparison for ESP and Capacity between VRV AHU, Ceiling Mounted Duct Type and Floor Standing Duct Type.

VRV AHU offers higher ESP and airflow rate as compared to duct type units.



|         | From   | To     |
|---------|--------|--------|
| FXMQ-V1 | 185 Pa | 205 Pa |
| FXVQ    | 150 Pa | 480 Pa |
| VRV AHU | 250 Pa | 500 Pa |



|         | From (CMH) | To (CMH) |
|---------|------------|----------|
| FXMQ-V1 | 1,080      | 2,100    |
| FXVQ    | 1,518      | 6,072    |
| VRV AHU | 2,040      | 16,380   |

\*For ESP more than 500Pa, please contact Daikin's Sales Office

## VRV AHU Operation Range

VRV AHU AHUR-DCL/CCL/SCL operation is similar as other VRV indoor unit. Following table is the list of operation range for AHU unit.

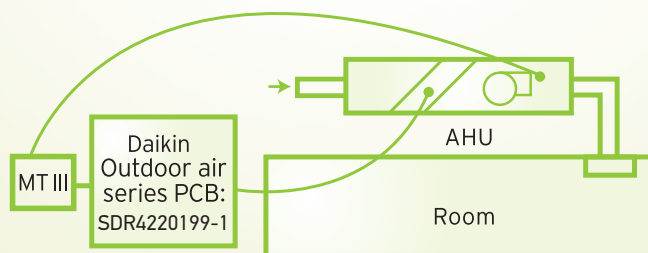
|                                     |         | Temperature Range |
|-------------------------------------|---------|-------------------|
|                                     |         | Cooling           |
| Entering Air Temperature to VRV AHU | Minimum | 14°C WB           |
|                                     | Maximum | 32°C WB           |
| Outdoor Unit                        | Minimum | -5°C DB           |
|                                     | Maximum | 49°C DB           |
| Expansion Valve                     | Minimum | -5°C DB           |
|                                     | Maximum | 46°C DB           |
| Outdoor Air Series PCB              | Minimum | -10°C DB          |
|                                     | Maximum | 40°C DB           |

## Possibility X (Td/Tr control):

Precise air temperature control via MicroTech III (MT III) controller (option)

Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The MT III controller translates the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin Outdoor air series PCB (SDR4220199-1)

This reference voltage will be used as the main input value for the compressor frequency control.



Td = Air discharge temperature (13°C ~ 28°C) Te = Evaporating temperature AHU = Air Handling Unit

## MicroTech III controller (option)



MT III controller is recommended for Outdoor air series AHU controlling, switching and monitoring functions.

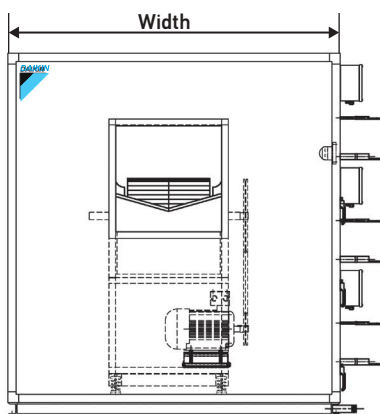
This controller is programmed to optimize the performance and efficiency of VRV AHU automatically.

It can also communicate with Daikin's intelligent Touch Manager via BACnet protocol easily.

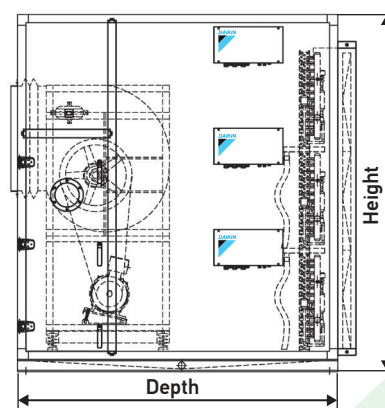
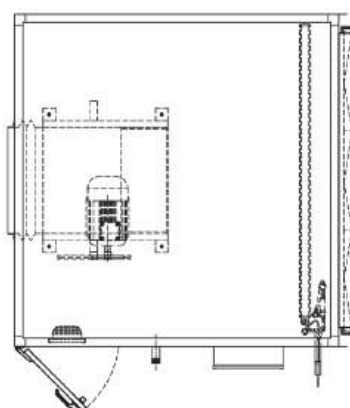
\*MicroTech III is not recommended to use for 24 hours application. For 24 hours operation, please source for external 3rd party DDC locally or contact Daikin sales office.

## VRV AHU Outdoor Air Series PCB

| SDR4220199-1    |                          |              |
|-----------------|--------------------------|--------------|
| Application     | Multi                    |              |
| Outdoor Unit    | VRV                      |              |
| Casing          | Colour                   | White grey   |
|                 | Material                 | Resin        |
| Dimensions      | Unit H x W x D mm        | 248x421x149  |
|                 | Unit Kg                  | 3.9          |
| Operation Range | Cooling Min. ~ Max. °CDB | -10.0 ~ 40.0 |
|                 | Phase                    | 1            |
| Power Supply    | Frequency Hz             | 50/60        |
|                 | Voltage V                | 230/220      |



Front View



Side View

## VRV AHU Outdoor Air Series Evaporator Coil, Expansion Valve and Outdoor Air Series PCB

AHUR-DCL/CCL/SCL Outdoor air series use DX coil.

Each DX coil will be connected to the internal expansion valve and controlled by Outdoor air series PCB (SDR4220199-1).

VRV AHU Outdoor air Series Evaporator Coil

- 4 capacities of Evaporator Coil
  - 8HP **used on 8HP AHU unit**
  - 10HP **used on 10HP AHU unit**
  - 16HP **used on 16HP, 32HP, 48HP AHU unit**
  - 20HP **used on 20HP, 40HP, 60HP AHU unit**

VRV AHU Expansion Valve (Built-In Coil)

- 4 capacities of AHU Expansion Valve
  - Heat Exchanger 8HP
  - Heat Exchanger 10HP
  - Heat Exchanger 16HP
  - Heat Exchanger 20HP

VRV AHU Outdoor air series PCB (SDR4220199-1)



Installation of AHU Outdoor air series PCB should be positioned under a shaded area. Alternatively, a panel should be provided at the Outdoor air series PCB to block off direct sunlight.

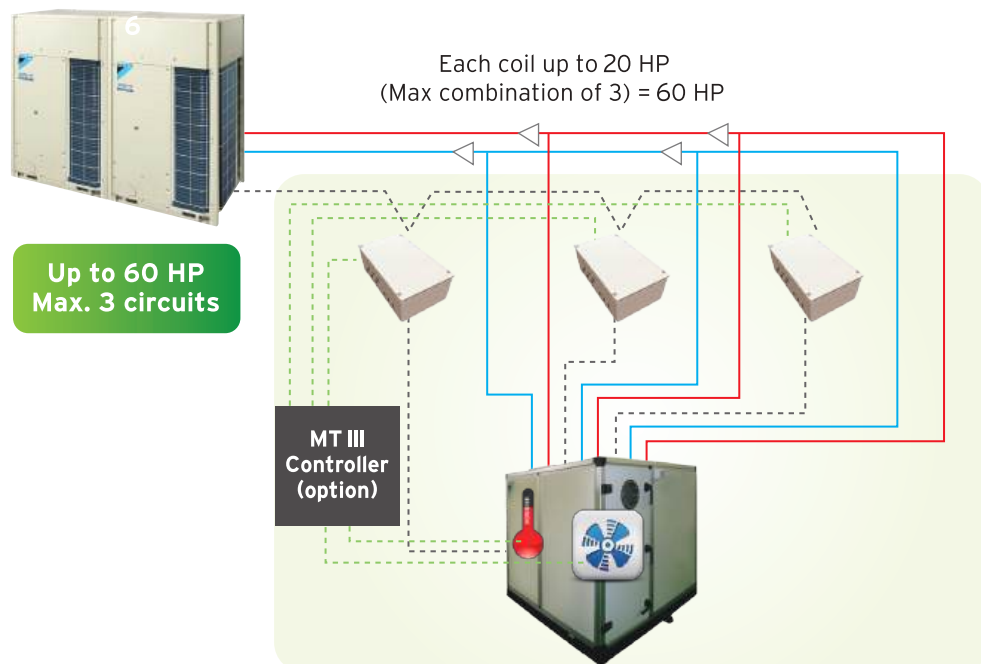
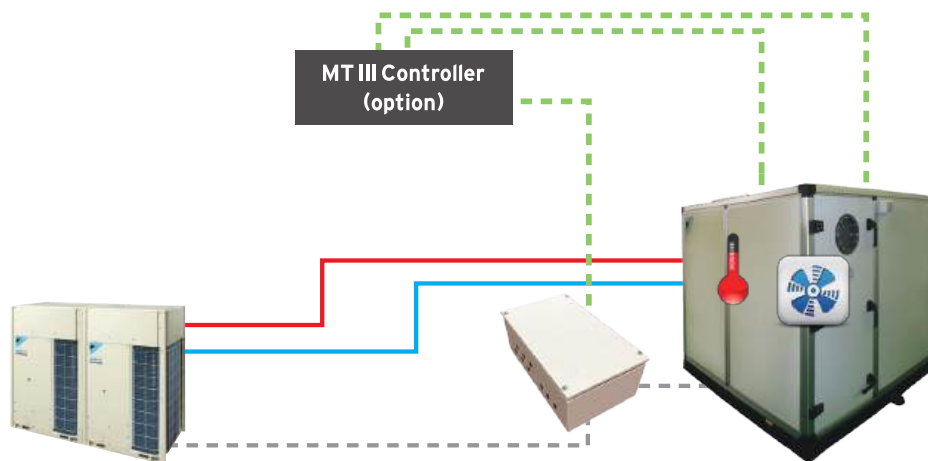
Direct sunlight will increase the temperature inside the Outdoor air series PCB and may reduce its lifetime and influence its operation.

Operating temperature of the Outdoor air series PCB is between -10°C and 40°C.

## VRV AHU System Structure



## VRV AHU Configuration



Combined VRV System Configuration

--- Control Wiring    --- MT III Control Wiring    --- Liquid    --- Gas

*\*MicroTech III is not recommended to use for 24 hours application.*

*For 24 hours operation, please source for external 3rd party DDC locally or contact Daikin sales office.*

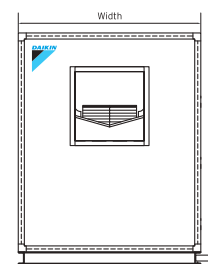
## AHU SPECIFICATION (AHUR-DCL/CCL/SCL)

|   |                               |                                                                                                                                                                                                                          |
|---|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | CASING/INSULATION (DC SERIES) | Double Skin Panel Thickness 50 mm.<br>Outer Skin : 0.5 mm Thickness White Color Steel Sheet<br>Inner Skin : 0.5 mm Thickness White Color Steel Sheet<br>Insulation : Polyurethane Foam (PU) Density 40 kg/m <sup>3</sup> |
|   | CASING/INSULATION (CC SERIES) | Double Skin Panel Thickness 25 mm.<br>Outer Skin : 0.5 mm Thickness White Color Steel Sheet<br>Inner Skin : 0.5 mm Thickness Galvanized Steel Sheet<br>Insulation : Polyurethane Foam (PU) Density 40 kg/m <sup>3</sup>  |
|   | CASING/INSULATION (SC SERIES) | Single Skin Panel Thickness 13 mm.<br>Outer Skin : Steel Sheet With White Color Coated<br>Insulation : Polyethylene Foam (PE) Thickness 13 mm.                                                                           |
| 2 | CASING-FRAME (DC SERIES)      | Angle Steel With Black Epoxy Coated                                                                                                                                                                                      |
|   | CASING-FRAME (CC/SC SERIES)   | Extruded Aluminium                                                                                                                                                                                                       |
| 3 | COIL                          | DX.Coil (included EV.Valve)                                                                                                                                                                                              |
|   | TUBE                          | Copper Tube                                                                                                                                                                                                              |
|   | FIN                           | Aluminium White Fined                                                                                                                                                                                                    |
|   | FRAME                         | Galvanized Steel                                                                                                                                                                                                         |
| 4 | FAN                           | (Brand = Kruger)                                                                                                                                                                                                         |
|   | TYPE                          | Forward Curved Centrifugal Fan (Belt Drive)                                                                                                                                                                              |
|   | WHEEL                         | Galvanized Steel                                                                                                                                                                                                         |
|   | HOUSING                       | Galvanized Steel                                                                                                                                                                                                         |
| 5 | MOTOR                         | (Brand = Tecu)<br>Three-Phase Induction Motor Totally Enclosed Fan-Cooled Type<br>Protection = IP55 Insulation Class = F                                                                                                 |
| 6 | VIBRATION ISOLATOR (FAN)      | Spring Vibration Isolator                                                                                                                                                                                                |
| 7 | DRAIN PAN (DC SERIES)         | Stainless Steel Thickness 1.2 mm.                                                                                                                                                                                        |
|   | DRAIN PAN (CC/SC SERIES)      | Steel Thickness 1.6 mm. With Black Epoxy Coated                                                                                                                                                                          |
| 8 | AIR FILTER                    | (Brand = AAF)<br>Type = R29 Class = G3 (AFI = 80-85%) Synthetic Washable                                                                                                                                                 |
| 9 | CONTROL BOX                   | Standards Air Series PCB (EKEQMCBAV3)                                                                                                                                                                                    |

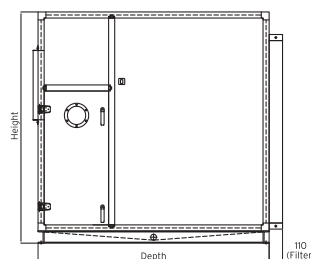
## Drawings and Dimension of AHU

| Model     | Dimension<br>W x D x H (mm) |
|-----------|-----------------------------|
| AHUR08DCL | 1,300x1,400x1,175           |
| AHUR10DCL | 1,500x1,400x1,175           |
| AHUR16DCL | 1,800x1,500x1,175           |
| AHUR20DCL | 2,100x1,600x1,175           |
| AHUR32DCL | 1,800x1,800x1,575           |
| AHUR40DCL | 2,100x1,800x1,575           |
| AHUR48DCL | 1,800x1,950x2,175           |
| AHUR60DCL | 2,100x1,950x2,175           |

| Model         | Dimension<br>W x D x H (mm) |
|---------------|-----------------------------|
| AHUR08CCL/SCL | 1,300x1,200x1,075           |
| AHUR10CCL/SCL | 1,500x1,200x1,075           |
| AHUR16CCL/SCL | 1,700x1,400x1,075           |
| AHUR20CCL/SCL | 2,000x1,500x1,075           |
| AHUR32CCL/SCL | 1,700x1,700x1,475           |
| AHUR40CCL/SCL | 2,000x1,700x1,475           |
| AHUR48CCL/SCL | 1,700x1,850x2,075           |
| AHUR60CCL/SCL | 2,000x1,950x2,175           |



Front View



Side View

\* Dimension does not include Outdoor air series PCB, Expansion Valve and Pre-filter

# Outdoor Air Series AHUR-DCL/CCL/SCL

## AHUR-DCL/CCL SPECIFICATIONS

| Model                                        |                          | AHUR08DCL<br>AHUR08CCL                                   |      |      |      |      | AHUR10DCL<br>AHUR10CCL |      |      |      |      | AHUR16DCL<br>AHUR16CCL     |      |      |      |      | AHUR20DCL<br>AHUR20CCL |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
|----------------------------------------------|--------------------------|----------------------------------------------------------|------|------|------|------|------------------------|------|------|------|------|----------------------------|------|------|------|------|------------------------|------|------|------|------|----------------------------|----|----|----|----|------|--|--|--|--|----------------------------|--|--|--|--|------|--|--|--|--|
| Total Cooling Capacity                       | NET (KW) <sup>1)</sup>   | 22.8                                                     | 22.8 | 22.7 | 22.6 | 22.5 | 28.3                   | 28.3 | 28.2 | 28.1 | 28.0 | 45.3                       | 45.2 | 45.1 | 44.9 | 44.7 | 56.7                   | 56.6 | 56.5 | 56.2 | 56.1 |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Total Sensible Cooling Capacity              |                          | 10.9                                                     | 10.9 | 10.8 | 10.7 | 10.6 | 13.2                   | 13.2 | 13.1 | 13.0 | 12.9 | 17.0                       | 16.9 | 16.8 | 16.6 | 16.4 | 21.3                   | 21.2 | 21.1 | 20.8 | 20.7 |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Total Cooling Capacity                       | Gross (KW) <sup>2)</sup> | 23.3                                                     |      |      |      |      | 28.9                   |      |      |      |      | 44.3                       |      |      |      |      | 58.4                   |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Sensible Cooling Capacity                    |                          | 11.4                                                     |      |      |      |      | 13.8                   |      |      |      |      | 18.0                       |      |      |      |      | 23.0                   |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Air Flow                                     | cmh / m³/min             | 4,080/ 68                                                |      |      |      |      | 4,680/ 78              |      |      |      |      | 8,160/ 136                 |      |      |      |      | 9,960/ 166             |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Ent. Temp.                                   | *CDB/**CWB               | 33/ 28                                                   |      |      |      |      | 33/ 28                 |      |      |      |      | 33/ 28                     |      |      |      |      | 33/ 28                 |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Lea. Temp.                                   | *CDB/**CWB               | 19.4/ 18.9                                               |      |      |      |      | 18.4/ 18               |      |      |      |      | 19.3/ 19.0                 |      |      |      |      | 19.9/ 19.6             |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Coil Type                                    |                          | DX Coil (R410A) ø8 mm. Wave slit surface & Straight edge |      |      |      |      |                        |      |      |      |      |                            |      |      |      |      |                        |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Coil Face Area                               | m²                       | 0.443                                                    |      |      |      |      | 0.54                   |      |      |      |      | 0.784                      |      |      |      |      | 0.99                   |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Coil Face Vel.                               | m/s                      | 1.28                                                     |      |      |      |      | 1.20                   |      |      |      |      | 1.45                       |      |      |      |      | 1.53                   |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Air PD.In Coil                               | Pa                       | 50                                                       |      |      |      |      | 50                     |      |      |      |      | 50                         |      |      |      |      | 50                     |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Air PD.In Pre Filter <sup>3)</sup>           | Pa                       | 80                                                       |      |      |      |      | 80                     |      |      |      |      | 80                         |      |      |      |      | 80                     |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Air Filter Size 12" x 24" x 2" <sup>4)</sup> | PCS.                     | 1                                                        |      |      |      |      | -                      |      |      |      |      | 1                          |      |      |      |      | -                      |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Air Filter Size 24" x 24" x 2" <sup>4)</sup> | PCS.                     | 1                                                        |      |      |      |      | 2                      |      |      |      |      | 2                          |      |      |      |      | 3                      |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Air PD.In Casing                             | Pa                       | 30                                                       |      |      |      |      | 30                     |      |      |      |      | 30                         |      |      |      |      | 30                     |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| ESP/Initial                                  | Pa                       | 250                                                      | 300  | 350  | 450  | 500  | 250                    | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450  | 500  | 250                    | 300  | 350  | 450  | 500  |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Total Statics Pressure                       | Pa                       | 410                                                      | 460  | 510  | 610  | 660  | 410                    | 460  | 510  | 610  | 660  | 410                        | 460  | 510  | 610  | 660  | 410                    | 460  | 510  | 610  | 660  |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Fan Type                                     |                          | Forward curved centrifugal fan (Belt drive)              |      |      |      |      |                        |      |      |      |      |                            |      |      |      |      |                        |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Model                                        |                          | FSA280CM                                                 |      |      |      |      | FSA280CM               |      |      |      |      | FDA250TM                   |      |      |      |      | FDA250TM               |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Fan Motor <sup>5)</sup>                      | KW                       | 0.75                                                     |      |      |      |      | 1.1                    |      |      |      |      | 0.75                       |      |      |      |      | 1.1                    |      |      |      |      | 1.5                        |    |    |    |    | 2.2  |  |  |  |  | 2.2                        |  |  |  |  | 3.0  |  |  |  |  |
|                                              | POLE                     | 4                                                        |      |      |      |      |                        |      |      |      |      | 4                          |      |      |      |      |                        |      |      |      |      | 4                          |    |    |    |    |      |  |  |  |  | 4                          |  |  |  |  |      |  |  |  |  |
| Power Supply                                 | Volt/Ph./Hz.             | 380-415/3/50                                             |      |      |      |      |                        |      |      |      |      |                            |      |      |      |      |                        |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| FLA                                          | amp.                     | 1.89                                                     |      |      |      |      | 2.67                   |      |      |      |      | 1.89                       |      |      |      |      | 2.67                   |      |      |      |      | 3.53                       |    |    |    |    | 4.96 |  |  |  |  | 4.96                       |  |  |  |  | 6.59 |  |  |  |  |
| Machine Weight (DCL)                         | kg                       | 545                                                      |      |      |      |      | 550                    |      |      |      |      | 605                        |      |      |      |      | 610                    |      |      |      |      | 700                        |    |    |    |    | 710  |  |  |  |  | 815                        |  |  |  |  | 825  |  |  |  |  |
| Machine Weight (CCL)                         | kg                       | 475                                                      |      |      |      |      | 480                    |      |      |      |      | 520                        |      |      |      |      | 525                    |      |      |      |      | 670                        |    |    |    |    | 680  |  |  |  |  | 775                        |  |  |  |  | 785  |  |  |  |  |
| Sound Pressure Level (SPL)                   | dB(A)                    | 56                                                       | 58   | 60   | 62   | 63   | 56                     | 57   | 58   | 60   | 62   | 56                         | 57   | 58   | 60   | 62   | 55                     | 56   | 57   | 58   | 59   | 55                         | 56 | 57 | 58 | 59 |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Standard Air Series PCB                      | Model/PCS.               | SDR4220199-1 / 1pc.                                      |      |      |      |      |                        |      |      |      |      |                            |      |      |      |      |                        |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Expansion Valve (Built-in Coil)              | PCS.                     | 1                                                        |      |      |      |      | 1                      |      |      |      |      | 1                          |      |      |      |      | 1                      |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Piping Connections                           | Liquid pipes             | mm                                                       |      |      |      |      | mm                     |      |      |      |      | mm                         |      |      |      |      | mm                     |      |      |      |      | mm                         |    |    |    |    | mm   |  |  |  |  | mm                         |  |  |  |  |      |  |  |  |  |
|                                              | Gas pipes                | mm                                                       |      |      |      |      | mm                     |      |      |      |      | mm                         |      |      |      |      | mm                     |      |      |      |      | mm                         |    |    |    |    | mm   |  |  |  |  | mm                         |  |  |  |  |      |  |  |  |  |
|                                              | Drain pipes              | inch                                                     |      |      |      |      | inch                   |      |      |      |      | inch                       |      |      |      |      | inch                   |      |      |      |      | inch                       |    |    |    |    | inch |  |  |  |  | inch                       |  |  |  |  |      |  |  |  |  |
| Refrigerant Control                          |                          | Electronic expansion valve                               |      |      |      |      |                        |      |      |      |      | Electronic expansion valve |      |      |      |      |                        |      |      |      |      | Electronic expansion valve |    |    |    |    |      |  |  |  |  | Electronic expansion valve |  |  |  |  |      |  |  |  |  |
| Panel                                        |                          | Double Skin                                              |      |      |      |      |                        |      |      |      |      |                            |      |      |      |      |                        |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |
| Capacity Index                               |                          | 200                                                      |      |      |      |      | 250                    |      |      |      |      | 400                        |      |      |      |      | 500                    |      |      |      |      |                            |    |    |    |    |      |  |  |  |  |                            |  |  |  |  |      |  |  |  |  |

| Model                                        |                          | AHUR32DCL<br>AHUR32CCL                                   |      |                                |      |      | AHUR40DCL<br>AHUR40CCL         |       |                                |       |                                | AHUR48DCL<br>AHUR48CCL     |       |       |       |       | AHUR60DCL<br>AHUR60CCL     |       |       |       |       |   |  |       |  |  |
|----------------------------------------------|--------------------------|----------------------------------------------------------|------|--------------------------------|------|------|--------------------------------|-------|--------------------------------|-------|--------------------------------|----------------------------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|---|--|-------|--|--|
| Total Cooling Capacity                       | NET (KW) <sup>1)</sup>   | 90.5                                                     | 90.3 | 90.1                           | 89.7 | 89.4 | 113.4                          | 113.2 | 112.9                          | 112.4 | 112.2                          | 135.8                      | 135.5 | 135.2 | 134.6 | 134.2 | 170.2                      | 169.8 | 169.4 | 168.7 | 168.3 |   |  |       |  |  |
| Total Sensible Cooling Capacity              |                          | 33.9                                                     | 33.7 | 33.5                           | 33.1 | 32.8 | 42.6                           | 42.4  | 42.1                           | 41.6  | 41.4                           | 50.9                       | 50.6  | 50.3  | 49.7  | 49.3  | 64.0                       | 63.6  | 63.2  | 62.5  | 62.1  |   |  |       |  |  |
| Total Cooling Capacity                       | Gross (KW) <sup>2)</sup> | 92.6                                                     |      |                                |      |      | 116.8                          |       |                                |       |                                | 138.9                      |       |       |       |       | 175.2                      |       |       |       |       |   |  |       |  |  |
| Sensible Cooling Capacity                    |                          | 36.0                                                     |      |                                |      |      | 46.0                           |       |                                |       |                                | 54.0                       |       |       |       |       | 69.0                       |       |       |       |       |   |  |       |  |  |
| Air Flow                                     | cmh / m³/min             | 8,160/ 136                                               |      |                                |      |      | 10,920/ 182                    |       |                                |       |                                | 12,240/ 204                |       |       |       |       | 16,380/ 273                |       |       |       |       |   |  |       |  |  |
| Ent. Temp.                                   | *CDB/*CWB                | 33/ 28                                                   |      |                                |      |      | 33/ 28                         |       |                                |       |                                | 33/ 28                     |       |       |       |       | 33/ 28                     |       |       |       |       |   |  |       |  |  |
| Lea. Temp.                                   | *CDB/*CWB                | 19.3/ 19.0                                               |      |                                |      |      | 19.9/ 19.6                     |       |                                |       |                                | 19.3/ 19.0                 |       |       |       |       | 19.9/ 19.6                 |       |       |       |       |   |  |       |  |  |
| Coil Type                                    |                          | DX Coil (R410A) ø8 mm. Wave slit surface & Straight edge |      |                                |      |      |                                |       |                                |       |                                |                            |       |       |       |       |                            |       |       |       |       |   |  |       |  |  |
| Coil Face Area                               | m²                       | 1.568                                                    |      |                                |      |      | 1.98                           |       |                                |       |                                | 2.35                       |       |       |       |       | 2.97                       |       |       |       |       |   |  |       |  |  |
| Coil Face Vel.                               | m/s                      | 1.45                                                     |      |                                |      |      | 1.53                           |       |                                |       |                                | 1.45                       |       |       |       |       | 1.53                       |       |       |       |       |   |  |       |  |  |
| Air PD.In Coil                               | Pa                       | 50                                                       |      |                                |      |      | 50                             |       |                                |       |                                | 50                         |       |       |       |       | 50                         |       |       |       |       |   |  |       |  |  |
| Air PD.In Pre Filter <sup>3)</sup>           | Pa                       | 80                                                       |      |                                |      |      | 80                             |       |                                |       |                                | 80                         |       |       |       |       | 80                         |       |       |       |       |   |  |       |  |  |
| Air Filter Size 12" x 24" x 2" <sup>4)</sup> | PCS.                     | 2                                                        |      |                                |      |      | -                              |       |                                |       |                                | 3                          |       |       |       |       | -                          |       |       |       |       |   |  |       |  |  |
| Air Filter Size 24" x 24" x 2" <sup>4)</sup> | PCS.                     | 4                                                        |      |                                |      |      | 6                              |       |                                |       |                                | 6                          |       |       |       |       | 9                          |       |       |       |       |   |  |       |  |  |
| Air PD.In Casing                             | Pa                       | 30                                                       |      |                                |      |      | 30                             |       |                                |       |                                | 30                         |       |       |       |       | 30                         |       |       |       |       |   |  |       |  |  |
| ESP/Initial                                  | Pa                       | 250                                                      | 300  | 350                            | 450  | 500  | 250                            | 300   | 350                            | 450   | 500                            | 250                        | 300   | 350   | 450   | 500   | 250                        | 300   | 350   | 450   | 500   |   |  |       |  |  |
| Total Statics Pressure                       | Pa                       | 410                                                      | 460  | 510                            | 610  | 660  | 410                            | 460   | 510                            | 610   | 660                            | 410                        | 460   | 510   | 610   | 660   | 410                        | 460   | 510   | 610   | 660   |   |  |       |  |  |
| Fan Type                                     |                          | Forward curved centrifugal fan (Belt drive)              |      |                                |      |      |                                |       |                                |       |                                |                            |       |       |       |       |                            |       |       |       |       |   |  |       |  |  |
| Model                                        |                          | FDA315TM                                                 |      |                                |      |      | FDA400TM                       |       |                                |       |                                | FDA400TM                   |       |       |       |       | FDA500TM                   |       |       |       |       |   |  |       |  |  |
| Fan Motor <sup>5)</sup>                      | KW                       | 3.0                                                      |      | 4.0                            |      |      | 3.0                            |       | 4.0                            |       |                                | 5.5                        |       | 4.0   |       | 5.5   |                            |       | 4.0   |       | 5.5   |   |  | 7.5   |  |  |
|                                              | POLE                     | 4                                                        |      |                                |      |      | 4                              |       |                                |       |                                | 4                          |       |       |       |       | 4                          |       |       |       |       | 4 |  |       |  |  |
| Power Supply                                 | Volt/Ph./Hz.             | 380-415/ 3/ 50                                           |      |                                |      |      |                                |       |                                |       |                                |                            |       |       |       |       |                            |       |       |       |       |   |  |       |  |  |
| FLA                                          | amp.                     | 6.59                                                     |      | 8.67                           |      |      | 6.59                           |       | 8.67                           |       |                                | 11.5                       |       | 8.67  |       | 11.5  |                            |       | 8.67  |       | 11.5  |   |  | 15.3  |  |  |
| Machine Weight (DCL)                         | kg                       | 985                                                      |      | 1,005                          |      |      | 1,175                          |       | 1,180                          |       |                                | 1,185                      |       | 1,280 |       | 1,285 |                            |       | 1,615 |       | 1,625 |   |  | 1,645 |  |  |
| Machine Weight (CCL)                         | kg                       | 870                                                      |      | 890                            |      |      | 975                            |       | 980                            |       |                                | 985                        |       | 1,075 |       | 1,080 |                            |       | 1,265 |       | 1,275 |   |  | 1,295 |  |  |
| Sound Pressure Level (SPL)                   | dBA                      | 63                                                       | 64   | 65                             | 66   | 67   | 60                             | 61    | 62                             | 63    | 64                             | 60                         | 61    | 62    | 63    | 64    | 61                         | 62    | 63    | 64    | 65    |   |  |       |  |  |
| Standard Air Series PCB                      | Model/PCS.               | SDRA220199-1 / 2 pcs.                                    |      |                                |      |      | SDRA220199-1 / 2 pcs.          |       |                                |       |                                | SDRA220199-1 / 3 pcs.      |       |       |       |       | SDRA220199-1 / 3 pcs.      |       |       |       |       |   |  |       |  |  |
| Expansion Valve (Built-in Coil)              | PCS.                     | 2                                                        |      |                                |      |      | 2                              |       |                                |       |                                | 3                          |       |       |       |       | 3                          |       |       |       |       |   |  |       |  |  |
| Piping Connections                           | Liquid pipes             | mm                                                       |      | ø12.7 (Brazing connection) x 2 |      |      | ø15.9 (Brazing connection) x 2 |       | ø12.7 (Brazing connection) x 3 |       | ø15.9 (Brazing connection) x 3 |                            |       |       |       |       |                            |       |       |       |       |   |  |       |  |  |
|                                              | Gas pipes                | mm                                                       |      | ø28.6 (Brazing connection) x 2 |      |      | ø28.6 (Brazing connection) x 2 |       | ø28.6 (Brazing connection) x 3 |       | ø28.6 (Brazing connection) x 3 |                            |       |       |       |       |                            |       |       |       |       |   |  |       |  |  |
|                                              | Drain pipes              | inch                                                     |      | ø1-1/4" (male)                 |      |      | ø1-1/4" (male)                 |       | ø1-1/4" (male)                 |       | ø1-1/4" (male)                 |                            |       |       |       |       |                            |       |       |       |       |   |  |       |  |  |
| Refrigerant Control                          |                          | Electronic expansion valve                               |      |                                |      |      | Electronic expansion valve     |       |                                |       |                                | Electronic expansion valve |       |       |       |       | Electronic expansion valve |       |       |       |       |   |  |       |  |  |
| Panel                                        |                          | Double Skin                                              |      |                                |      |      |                                |       |                                |       |                                |                            |       |       |       |       |                            |       |       |       |       |   |  |       |  |  |
| Capacity Index                               |                          | 800                                                      |      |                                |      |      | 1,000                          |       |                                |       |                                | 1,200                      |       |       |       |       | 1,500                      |       |       |       |       |   |  |       |  |  |

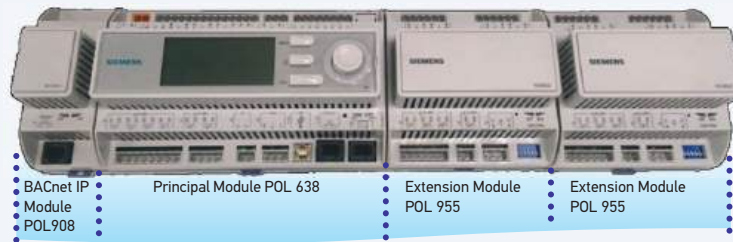
## AHUR-SCL SPECIFICATIONS

| Model                                        |                          | AHUR08SCL                                                |      |      |      |      | AHUR10SCL                  |      |      |      |      | AHUR16SCL                  |      |      |      |      | AHUR20SCL                  |      |      |      |      |
|----------------------------------------------|--------------------------|----------------------------------------------------------|------|------|------|------|----------------------------|------|------|------|------|----------------------------|------|------|------|------|----------------------------|------|------|------|------|
| Total Cooling Capacity                       | NET (KW) <sup>*)</sup>   | 22.8                                                     | 22.8 | 22.7 | 22.6 | 22.5 | 28.3                       | 28.3 | 28.2 | 28.1 | 28.0 | 45.3                       | 45.2 | 45.1 | 44.9 | 44.7 | 56.7                       | 56.6 | 56.5 | 56.2 | 56.1 |
| Total Sensible Cooling Capacity              |                          | 10.9                                                     | 10.9 | 10.8 | 10.7 | 10.6 | 13.2                       | 13.2 | 13.1 | 13.0 | 12.9 | 17.0                       | 16.9 | 16.8 | 16.6 | 16.4 | 21.3                       | 21.2 | 21.1 | 20.8 | 20.7 |
| Total Cooling Capacity                       | Gross (KW) <sup>*)</sup> | 23.3                                                     |      |      |      |      | 28.9                       |      |      |      |      | 46.3                       |      |      |      |      | 58.4                       |      |      |      |      |
| Sensible Cooling Capacity                    |                          | 11.4                                                     |      |      |      |      | 13.8                       |      |      |      |      | 18.0                       |      |      |      |      | 23.0                       |      |      |      |      |
| Air Flow                                     | cmh / m³/min             | 2,040/34                                                 |      |      |      |      | 2,340/39                   |      |      |      |      | 4,080/68                   |      |      |      |      | 5,460/91                   |      |      |      |      |
| Ent. Temp.                                   | *CDB/*CWB                | 33/ 28                                                   |      |      |      |      | 33/ 28                     |      |      |      |      | 33/ 28                     |      |      |      |      | 33/ 28                     |      |      |      |      |
| Lea. Temp.                                   | *CDB/*CWB                | 19.4/ 18.9                                               |      |      |      |      | 18.4/ 18                   |      |      |      |      | 19.3/ 19.0                 |      |      |      |      | 19.9/ 19.6                 |      |      |      |      |
| Coil Type                                    |                          | DX.Coil (R410A) Ø8 mm. Wave slit surface & Straight edge |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |
| Coil Face Area                               | m²                       | 0.443                                                    |      |      |      |      | 0.54                       |      |      |      |      | 0.784                      |      |      |      |      | 0.99                       |      |      |      |      |
| Coil Face Vel.                               | m/s                      | 1.28                                                     |      |      |      |      | 1.20                       |      |      |      |      | 1.45                       |      |      |      |      | 1.53                       |      |      |      |      |
| Air PD.In Coil                               | Pa                       | 50                                                       |      |      |      |      | 50                         |      |      |      |      | 50                         |      |      |      |      | 50                         |      |      |      |      |
| Air PD.In Pre Filter <sup>*)</sup>           | Pa                       | 80                                                       |      |      |      |      | 80                         |      |      |      |      | 80                         |      |      |      |      | 80                         |      |      |      |      |
| Air Filter Size 12" x 24" x 2" <sup>*)</sup> | PCS.                     | 1                                                        |      |      |      |      | -                          |      |      |      |      | 1                          |      |      |      |      | -                          |      |      |      |      |
| Air Filter Size 24" x 24" x 2" <sup>*)</sup> | PCS.                     | 1                                                        |      |      |      |      | 2                          |      |      |      |      | 2                          |      |      |      |      | 3                          |      |      |      |      |
| Air PD.In Casing                             | Pa                       | 30                                                       |      |      |      |      | 30                         |      |      |      |      | 30                         |      |      |      |      | 30                         |      |      |      |      |
| ESPInitial                                   | Pa                       | 250                                                      | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450  | 500  | 250                        | 300  | 350  | 450  | 500  |
| Total Statics Pressure                       | Pa                       | 410                                                      | 460  | 510  | 610  | 660  | 410                        | 460  | 510  | 610  | 660  | 410                        | 460  | 510  | 610  | 660  | 410                        | 460  | 510  | 610  | 660  |
| Fan Type                                     |                          | Forward curved centrifugal fan (Belt drive)              |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |
| Model                                        |                          | FSA280CM                                                 |      |      |      |      | FSA280CM                   |      |      |      |      | FDA250CM                   |      |      |      |      | FDA250CM                   |      |      |      |      |
| Fan Motor <sup>*)</sup>                      | KW                       | 0.75                                                     |      | 1.1  |      |      | 0.75                       | 1.1  |      |      |      | 1.5                        |      | 2.2  |      |      | 2.2                        |      | 3.0  |      |      |
|                                              | POLE                     | 4                                                        |      |      |      |      | 4                          |      |      |      |      | 4                          |      |      |      |      | 4                          |      |      |      |      |
| Power Supply                                 | Volt/Ph./Hz.             | 380-415/3/50                                             |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |
| FLA                                          | amp.                     | 1.89                                                     |      |      | 2.67 |      | 1.89                       | 2.67 |      |      |      | 3.53                       |      |      | 4.96 |      | 4.96                       |      |      | 6.59 |      |
| Machine Weight (SCL)                         | kg                       | 475                                                      |      |      | 480  |      | 520                        | 525  |      |      |      | 470                        |      |      | 680  |      | 775                        |      |      | 785  |      |
| Sound Pressure Level (SPL)                   | dBA                      | 61                                                       | 63   | 65   | 67   | 68   | 63                         | 64   | 65   | 67   | 69   | 60                         | 61   | 62   | 63   | 64   | 61                         | 62   | 63   | 64   | 65   |
| Standard Air Series PCB                      | Model/PCS.               | SDR4220199-1 / 1 pc.                                     |      |      |      |      | SDR4220199-1 / 1 pc.       |      |      |      |      | SDR4220199-1 / 1 pc.       |      |      |      |      | SDR4220199-1 / 1 pc.       |      |      |      |      |
| Expansion Valve (Built-in Coil)              | PCS.                     | 1                                                        |      |      |      |      | 1                          |      |      |      |      | 1                          |      |      |      |      | 1                          |      |      |      |      |
| Piping Connections                           | Liquid pipes             | mm                                                       |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      |
|                                              | Gas pipes                | mm                                                       |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      | mm                         |      |      |      |      |
|                                              | Drain pipes              | inch                                                     |      |      |      |      | inch                       |      |      |      |      | inch                       |      |      |      |      | inch                       |      |      |      |      |
| Refrigerant Control                          |                          | Electronic expansion valve                               |      |      |      |      | Electronic expansion valve |      |      |      |      | Electronic expansion valve |      |      |      |      | Electronic expansion valve |      |      |      |      |
| Panel                                        |                          | Single Skin                                              |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |                            |      |      |      |      |
| Capacity Index                               |                          | 200                                                      |      |      |      |      | 250                        |      |      |      |      | 400                        |      |      |      |      | 500                        |      |      |      |      |

| Model                                        |                          | AHUR32SCL                                                |                                |      |      |      | AHUR40SCL   |                                |       |       |       | AHUR48SCL   |                                |       |       |       | AHUR60SCL   |                                |       |       |      |       |     |
|----------------------------------------------|--------------------------|----------------------------------------------------------|--------------------------------|------|------|------|-------------|--------------------------------|-------|-------|-------|-------------|--------------------------------|-------|-------|-------|-------------|--------------------------------|-------|-------|------|-------|-----|
| Total Cooling Capacity                       | NET (KW) <sup>*)</sup>   | 90.5                                                     | 90.3                           | 90.1 | 89.7 | 89.4 | 113.4       | 113.2                          | 112.9 | 112.4 | 112.2 | 135.8       | 135.5                          | 135.2 | 134.2 | 170.2 | 169.8       | 169.4                          | 168.7 | 168.3 |      |       |     |
| Total Sensible Cooling Capacity              |                          | 33.9                                                     | 33.7                           | 33.5 | 33.1 | 32.8 | 42.6        | 42.4                           | 42.1  | 41.6  | 41.4  | 50.9        | 50.6                           | 50.3  | 49.7  | 49.3  | 64.0        | 63.6                           | 63.2  | 62.5  | 62.1 |       |     |
| Total Cooling Capacity                       | Gross (KW) <sup>*)</sup> | 92.6                                                     |                                |      |      |      | 116.8       |                                |       |       |       | 138.9       |                                |       |       |       | 175.2       |                                |       |       |      |       |     |
| Sensible Cooling Capacity                    |                          | 36.0                                                     |                                |      |      |      | 46.0        |                                |       |       |       | 54.0        |                                |       |       |       | 69.0        |                                |       |       |      |       |     |
| Air Flow                                     | cmh / m³/min             | 8,160/ 136                                               |                                |      |      |      | 10,920/ 182 |                                |       |       |       | 12,240/ 204 |                                |       |       |       | 16,380/ 273 |                                |       |       |      |       |     |
| Ent. Temp.                                   | *CDB/*CWB                | 33/ 28                                                   |                                |      |      |      | 33/ 28      |                                |       |       |       | 33/ 28      |                                |       |       |       | 33/ 28      |                                |       |       |      |       |     |
| Lea. Temp.                                   | *CDB/*CWB                | 19.3/ 19.0                                               |                                |      |      |      | 19.9/ 19.6  |                                |       |       |       | 19.3/ 19.0  |                                |       |       |       | 19.9/ 19.6  |                                |       |       |      |       |     |
| Coil Type                                    |                          | DX.Coil (R410A) ø8 mm. Wave slit surface & Straight edge |                                |      |      |      |             |                                |       |       |       |             |                                |       |       |       |             |                                |       |       |      |       |     |
| Coil Face Area                               | m²                       | 1.568                                                    |                                |      |      |      | 1.98        |                                |       |       |       | 2.35        |                                |       |       |       | 2.97        |                                |       |       |      |       |     |
| Coil Face Vel.                               | m/s                      | 1.45                                                     |                                |      |      |      | 1.53        |                                |       |       |       | 1.45        |                                |       |       |       | 1.53        |                                |       |       |      |       |     |
| Air PD.In Coil                               | Pa                       | 50                                                       |                                |      |      |      | 50          |                                |       |       |       | 50          |                                |       |       |       | 50          |                                |       |       |      |       |     |
| Air PD.In Pre Filter <sup>*)</sup>           | Pa                       | 80                                                       |                                |      |      |      | 80          |                                |       |       |       | 80          |                                |       |       |       | 80          |                                |       |       |      |       |     |
| Air Filter Size 12" x 24" x 2" <sup>*)</sup> | PCS.                     | 2                                                        |                                |      |      |      | -           |                                |       |       |       | 3           |                                |       |       |       | -           |                                |       |       |      |       |     |
| Air Filter Size 24" x 24" x 2" <sup>*)</sup> | PCS.                     | 4                                                        |                                |      |      |      | 6           |                                |       |       |       | 6           |                                |       |       |       | 9           |                                |       |       |      |       |     |
| Air PD.In Casing                             | Pa                       | 30                                                       |                                |      |      |      | 30          |                                |       |       |       | 30          |                                |       |       |       | 30          |                                |       |       |      |       |     |
| ESPInitial                                   | Pa                       | 250                                                      | 300                            | 350  | 450  | 500  | 250         | 300                            | 350   | 450   | 500   | 250         | 300                            | 350   | 450   | 500   | 250         | 300                            | 350   | 450   | 500  |       |     |
| Total Statics Pressure                       | Pa                       | 410                                                      | 460                            | 510  | 610  | 660  | 410         | 460                            | 510   | 610   | 660   | 410         | 460                            | 510   | 610   | 660   | 410         | 460                            | 510   | 610   | 660  |       |     |
| Fan Type                                     |                          | Forward curved centrifugal fan (Belt drive)              |                                |      |      |      |             |                                |       |       |       |             |                                |       |       |       |             |                                |       |       |      |       |     |
| Model                                        |                          | FDA315CM                                                 |                                |      |      |      | FDA400CM    |                                |       |       |       | FDA400CM    |                                |       |       |       | FDA500CM    |                                |       |       |      |       |     |
| Fan Motor <sup>*)</sup>                      | KW                       | 3.0                                                      | 4.0                            |      |      |      | 3.0         | 4.0                            |       |       |       | 5.5         | 4.0                            | 5.5   |       |       |             | 4.0                            | 5.5   |       |      |       | 7.5 |
|                                              | POLE                     | 4                                                        |                                |      |      |      | 4           |                                |       |       |       | 4           |                                |       |       |       | 4           |                                |       |       |      |       |     |
| Power Supply                                 | Volt/Ph./Hz.             | 380-415/3/50                                             |                                |      |      |      |             |                                |       |       |       |             |                                |       |       |       |             |                                |       |       |      |       |     |
| FLA                                          | amp.                     | 6.59                                                     |                                | 8.67 |      |      | 6.59        |                                | 8.67  |       |       | 11.5        | 8.67                           |       | 11.5  |       |             | 8.67                           | 11.5  |       |      | 15.3  |     |
| Machine Weight (SCL)                         | kg                       | 870                                                      |                                | 890  |      |      | 975         |                                | 980   |       |       | 985         | 1,075                          |       | 1,080 |       |             | 1,265                          | 1,275 |       |      | 1,295 |     |
| Sound Pressure Level (SPL)                   | dB(A)                    | 70                                                       | 71                             | 72   | 73   | 74   | 67          | 68                             | 69    | 70    | 71    | 68          | 69                             | 70    | 71    | 72    | 68          | 69                             | 70    | 71    | 72   |       |     |
| Standard Air Series PCB                      |                          | Model/PCS.                                               | SDR4220199-1 / 2 pcs.          |      |      |      |             | SDR4220199-1 / 2 pcs.          |       |       |       |             | SDR4220199-1 / 3 pcs.          |       |       |       |             | SDR4220199-1 / 3 pcs.          |       |       |      |       |     |
| Expansion Valve (Built-in Coil)              |                          | PCS.                                                     | 2                              |      |      |      |             | 2                              |       |       |       |             | 3                              |       |       |       |             | 3                              |       |       |      |       |     |
| Piping Connections                           | Liquid pipes             | mm                                                       | ø12.7 (Brazing connection) x 2 |      |      |      |             | ø15.9 (Brazing connection) x 2 |       |       |       |             | ø12.7 (Brazing connection) x 3 |       |       |       |             | ø15.9 (Brazing connection) x 3 |       |       |      |       |     |
|                                              | Gas pipes                | mm                                                       | ø28.6 (Brazing connection) x 2 |      |      |      |             | ø28.6 (Brazing connection) x 2 |       |       |       |             | ø28.6 (Brazing connection) x 3 |       |       |       |             | ø28.6 (Brazing connection) x 3 |       |       |      |       |     |
|                                              | Drain pipes              | inch                                                     | ø1-1/4" (male)                 |      |      |      |             | ø1-1/4" (male)                 |       |       |       |             | ø1-1/4" (male)                 |       |       |       |             | ø1-1/4" (male)                 |       |       |      |       |     |
| Refrigerant Control                          |                          |                                                          | Electronic expansion valve     |      |      |      |             | Electronic expansion valve     |       |       |       |             | Electronic expansion valve     |       |       |       |             | Electronic expansion valve     |       |       |      |       |     |
| Panel                                        |                          | Single Skin                                              |                                |      |      |      |             |                                |       |       |       |             |                                |       |       |       |             |                                |       |       |      |       |     |
| Capacity Index                               |                          | 800                                                      |                                |      |      |      | 1,000       |                                |       |       |       | 1,200       |                                |       |       |       | 1,500       |                                |       |       |      |       |     |

## MicroTech III Controller (Option)

MicroTech III consists of 4 components in a fixed configuration



### Features of MicroTech III

1. BACnet IP Module for integration of MicroTech III AHU Controller in networks featuring the BACnet Protocol. Compatible with Daikin intelligent Touch Manager (iTm) or 3<sup>rd</sup> party BMS.
2. Principal Module POL 638 and Extension Module POL 955 have selected analog and digital I/O contacts programmed for control and monitoring of sensors and other related devices in a **VRV Outdoor Air Series AHU**.
3. HMI screen on the Principal Module POL 638 allows easy testing and commissioning and even without a centralised controller or 3<sup>rd</sup> party BMS.

### Functions of MicroTech III

1. Supply air control using the supply air sensor
  - Used for temperature control.
2. Air quality control – CO2 Levels
  - The controls of the mixing damper can be dependent on the CO2 set point.
  - User can define the CO2 set point.
  - The fresh air damper will be difference between 100% and the percentage opening of the mixing damper.
3. Fan airflow control
  - The fan speed control can be done through
    - i. Direct (w/o inverters).
    - ii. DirectVar (with inverters).
    - iii. Analog controlled variable speed drive with digital release.
    - iv. Pressure control to meet the pressure set points in the duct.
4. Monitoring points for other features
  - i. Room humidity
  - ii. Electric heating coil
  - iii. Outside, room and return temperature
  - iv. **VRV alarm**

## MicroTech III can connect to intelligent Touch Manager

Monitor and control devices related to AHU such as Fan, sensor

Available object list

- BACnet BI/BO/BV
- BACnet AI/AO/AV



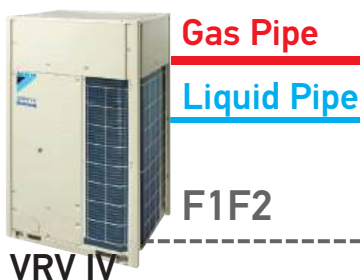
- On/Off
- Operation mode
- Setpoint
- Error monitoring

- CO2 ppm
- Discharged air temp
- Humidity
- Damper control etc...

### BACnet IP



### MicroTech III



\*MicroTech III is not recommended to use for 24 hours application.

For 24 hours operation, please source for external 3<sup>rd</sup> party DDC locally or contact Daikin sales office.

## Flexible customization of AHU

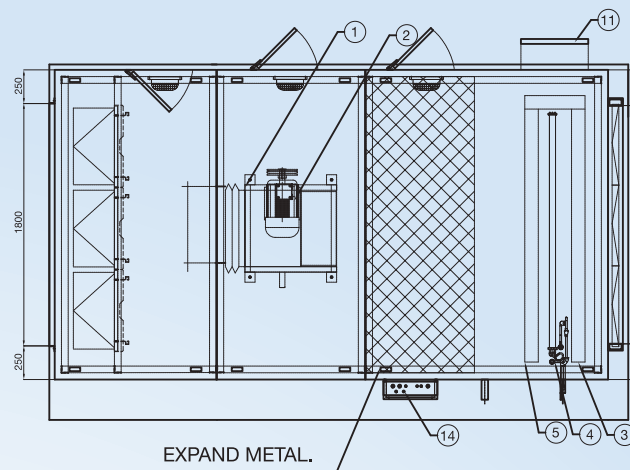
Daikin's AHU can be customized to meet your requirements

## Case 1

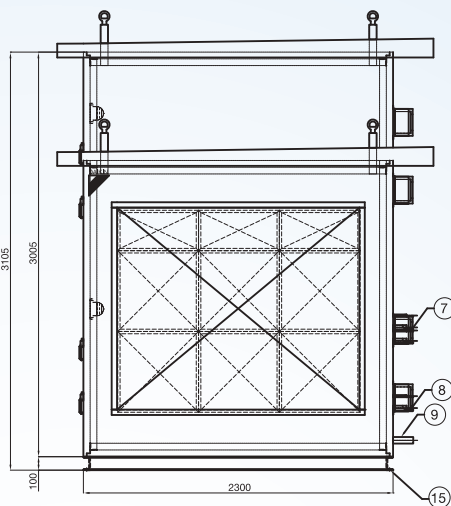
## ■ Specification

|             |        |      |                     |         |          |
|-------------|--------|------|---------------------|---------|----------|
| SA FLOW     | 14,000 | CMH. | PRECOIL CAPACITY    | 23,960  | Kcal/Hr. |
| BYPASS FLOW | -      | CMH. | MAINCOIL CAPACITY   | 224,598 | Kcal/Hr. |
| RA FLOW     | 14,000 | CMH. | REHEATCOIL CAPACITY | 23,960  | Kcal/Hr. |
| OA FLOW     | -      | CMH. | ESP.                | 800     | Pa       |
|             |        |      | TSP.                | 1,400   | Pa       |

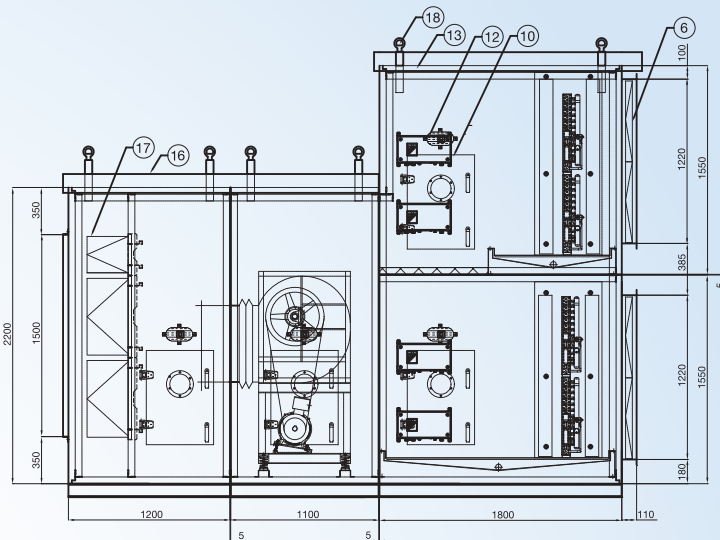
## ■ Drawing



Top View



Front View



Side View

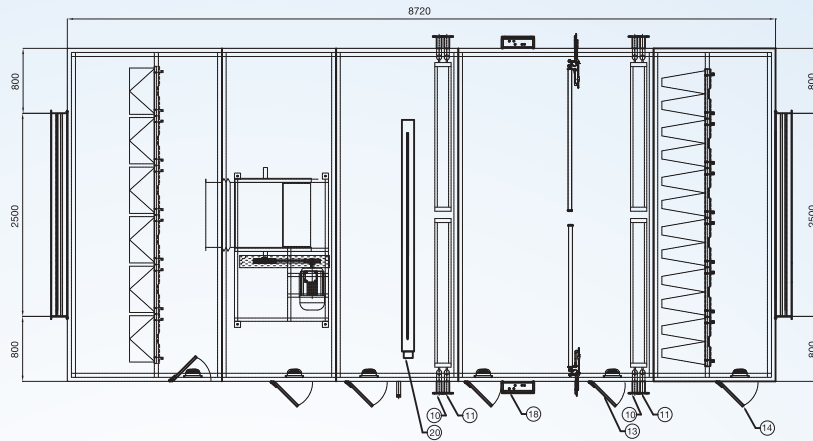
| NO. | Parts name                             | NO. | Parts name                                     | NO. | Parts name                    |
|-----|----------------------------------------|-----|------------------------------------------------|-----|-------------------------------|
| 1   | FAN                                    | 8   | GAS PIPE = 2 PCS.                              | 15  | ANCHOR HOLE Ø18-ALL           |
| 2   | MOTOR                                  | 9   | DRAIN PIPE = 1 PC.                             | 16  | ROOF (SUS)                    |
| 3   | PRE COIL = 2 PCS.                      | 10  | ACCESS DOOR = 4 PCS.                           | 17  | MED FILTER = 9 PCS.           |
| 4   | MAIN COIL (included EV valve) = 4 PCS. | 11  | SERVICE PANEL = 2 PCS.                         | 18  | EYE BOLTS B-1130-20 = 12 PCS. |
| 5   | HEATING COIL = 2 PCS.                  | 12  | MARINE LAMP 11W+SWITCH = 4 PCS.                |     |                               |
| 6   | PRE FILTER = 12 PCS.                   | 13  | SANDWICH PANEL                                 |     |                               |
| 7   | LIQUID PIPE = 2 PCS.                   | 14  | OUTDOOR AIR SERIES PCB (SDR4220199-1) = 4 PCS. |     |                               |

## Case 2

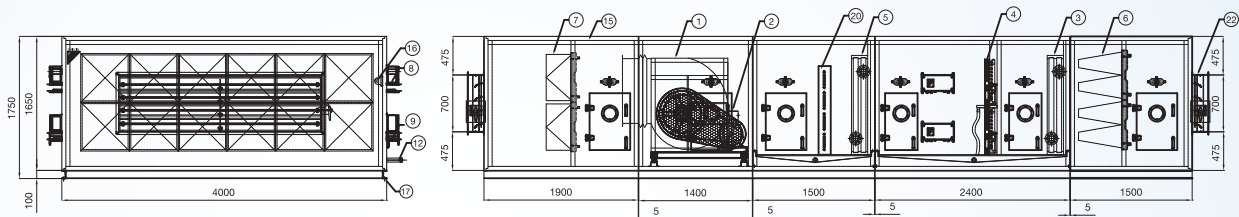
### ■ Specification

|             |        |      |                       |         |          |
|-------------|--------|------|-----------------------|---------|----------|
| SA FLOW     | 31,794 | CMH. | PRE COOLING CAPACITY  | 12,383  | Kcal/hr. |
| BYPASS FLOW | -      | CMH. | MAIN COOLING CAPACITY | 190,318 | Kcal/hr. |
| RA FLOW     | 31,794 | CMH. | RE-HEAT CAPACITY      | 12,383  | Kcal/hr. |
| OA FLOW     | -      | CMH. | ESP.                  | 750     | Pa       |
|             |        |      | TSP.                  | 1,460   | Pa       |

### ■ Drawing



Top View



Front View

Side View

| NO. | Parts name                                                   | NO. | Parts name                           | NO. | Parts name                                      |
|-----|--------------------------------------------------------------|-----|--------------------------------------|-----|-------------------------------------------------|
| 1   | FAN BDB630TM                                                 | 8   | LIQUID PIPE = 4 PCS.                 | 16  | MARINE LAMP 11W+SWITCH = 2 PCS.                 |
| 2   | MOTOR22KW.4P (380/3PH/60HZ)                                  | 9   | GAS PIPE = 4 PCS.                    | 17  | ANCHOR HOLE Ø18-ALL                             |
| 3   | PRE WC. 3/8"-2Rx13FPIx45STx1730 = 2PCS.                      | 10  | INLET PIPE (PRE,RE-HEAT) 2B = 4PCS.  | 18  | STANDARD AIR SERIES PCB (SDR4220199-2) = 4 PCS. |
| 4   | MAIN DC. 3/8"-4Rx14FPIx22STx1730 = 4PCS. (included EV valve) | 11  | OUTLET PIPE (PRE,RE-HEAT) 2B = 4PCS. | 19  | E/H 3PH/380V/50HZ/30KW                          |
| 5   | RH WC. 3/8"-2Rx13FPIx45STx1730 = 2PCS.                       | 12  | DRAIN PIPE 2B = 2 PCS.               | 20  | TERMINAL BOX                                    |
| 6   | BAG FILTER 24"X24"X21" = 12 PCS.                             | 13  | ACCESS DOOR 400X700MM = 2 PCS.       | 21  | VOLUME DAMPER                                   |
| 7   | MED FILTER 24"X24"X12" = 12 PCS.                             | 14  | ACCESS DOOR 500X700MM = 4 PCS.       |     |                                                 |
|     |                                                              | 15  | SANDWICH PANEL 50 MM.                |     |                                                 |

\*Please contact to Daikin sales office for more information.

# MEMO

Warning



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

### Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.



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 [www.daikin.com.vn](http://www.daikin.com.vn)

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