DATA SHEET HITACHI

DEDICATED OUTSIDE AIR SYSTEM (DOAS)



Dedicated Outside Air System (DOAS) Unit Model #

Capacity

Capacity

Capacity

Capacity

Height

Width

Depth

Air Flow Rate

Liquid Line

ΟU

Nominal Cooling

Nominal Heating

Nominal Cooling

Nominal Heating

Btu/h

(kW)

Btu/h

(kW)

Btu/h

(kW)

Btu/h

(kW)

dB

in.(mm)

in.(mm)

in.(mm)

lbs.(kg)

cfm

W

(m3/min)

in.(mm)

in.(mm)

in.(mm)

in. W.G. (Pa)

Capacity: 96,000 Btu/hr

Power Supply

Control

Control²

Net Weight

Refrigerant

Indoor Fan

Connections
Refrigerant Piping

Condensate Drain

Outlet Air Temperature

Indoor Temperature

Sound Pressure Level 3

(Overall A Scale) (208/230V)

Introduce and condition fresh air into a VRF system with the Dedicated Outside Air System indoor unit to create a more comfortable and healthy indoor environment.

Key Features

- 8 ton unit
- Pre-installed condensate pump
- · Nominal airflow of 1,236CFM
- High external static pressure up to 1.24 in. WG (at 230V) enables design flexibility

8.0

HDOA096B21S

AC 1 Phase, 208/230V, 60Hz

96,000

(28.2)

60,000

(17.6)

96,000

(28.2) 83,600

(24.5)

50/51

R410A

1236

(35.0)

1.06/1.24 (265/310)

402 (201 x 2pcs)

Brazed

(486) (1270)

(1120)

(112)

(9.52)

(22.20)

(32)

19-1/8

50

44-1/8

247

3/8

7/8

1-1/4

- Sensor enables remote reading of air supply temperature
- Seamlessly integrates with the VRF heat pump system controls and piping
- Multiple control modes for optimizing comfort and energy efficiency include:
 - » Outlet Air Temperature Control
 - » Indoor Temperature Control
 - » Remote Sensor
 - » Sensor in Optional Programmable Wired Zone Controller







MODEL CIR01

MODEL CIS01

MODEL CIW01

Dedicated Outdoor Air System	
HDOA096B21S	
CWDIRK01	
PCC-1A	
PSC-5RA	
SSB-IDH01	
THM-R2A	

NOTES:

Outlet Air Temperature Control

External Pressure⁴ (208/230V)

Motor Nominal Output

A control system to bring the outlet temperature closer to the set point temperature of the wired controller, using an outlet air thermistor of the unit. Nominal capacity (outlet air temperature control) is based on combination with VRF system and following conditions:

COOLING OPERATION CONDITIONS

Outdoor Temperature: 91°F DB (33.0°C DB)
82°F WB (28.0°C WB)
Discharge Set Temperature: 61°F DB (16.0°C DB)

Piping Length: 24.6ft (7.5m)

HEATING OPERATION CONDITIONS

Outdoor Temperature: 32°F DB (0°C DB) 27F WB (-2.9°C WB) Discharge Set Temperature: 72 F DB (22.0°C DB)

Piping Lift: Oft (0m)

2. Indoor Temperature Control

A control system to bring the room atmosphere temperature closer to the set point temperature of the wired controller, using a temperature sensor (remote sensor or thermistor in wired controller) mounted to any place in the room.

Nominal capacity (indoor temperature control) is based on combination with VRF system and following conditions:

COOLING OPERATION CONDITIONS

Outdoor Temperature: 91°F DB (33.0°C DB)
82°F WB (28.0°C WB)
Indoor Temperature: 81°F DB (27.0°C DB)
Piping Length: 24.6ft (7.5m)

HEATING OPERATION CONDITIONS

Outdoor Temperature: 32°F DB (0°C DB) 27°F WB (-2.9°C WB)
Indoor Temperature: 68°F DB (20.0°C DB)
Piping Lift: 0ft (0m)

- The sound pressure level is based on the following conditions. 4.9 ft. (1.5m) beneath the units.
 The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- 4. Data values when a filter is not used