# Model: CAHV-P500YA-HPB



Job Name:	Location:
Drawing Reference:	Schedule No.
System No.:	Date:

# **Ecodan (Hot Water Heat Pump Unit)**

#### **GENERAL FEATURES**

The Ecodan CAHV packaged hot water heat pump is designed to provide hot water up to 60°-70°C year round, making it an ideal replacement for a boiler system or, better still, an uncompromising method of heating sanitary hot water for commercial applications. This unit utilizes the unique flash injection technology as applied in the City Multi Hyperheat air conditioning product range.

Built in Heat Exchange Hot Water Heat Pump CAHV-500YA-HPB: Comes complete with an internal 316 stainless steel brazed plate heat exchanger. This allows for easy installation of connecting water pipes to where the hot water is required.

Ecodan Heat Pump ensures an exceptionally high level of reliability by utilizing "Backup Function\*". If either of the compressors malfunctions, the other compressor keeps operating to avoid a complete stop of the system. "Rotation Function" is also available. When two or more units are in the system, the unit runs alternatively to ensure an optimum product life cycle for both of it's component units.

- · Inlet or outlet water temperature control
- Temperature set point control by 0-10 V, 4-20 mA, 0-5 V or 2-10 V
- Pump interlock
- Error input or error output
- Can be connected and controlled by AG200 centralized controller

#### **TECHNICAL SPECIFICATIONS**

#### CAHV-P500YA-HPB

Power Supply:	3-phase 4-wire 380-400-	
	415 V 50/60 Hz	SOUND PRESSURE LEVEL (MEASURED IN ANECHOIC ROOM)
CAPACITY		dB (A)63
kW	45	WATER PIPE DIAMETER AND TYPE
kcal/h	38,700	Inlet   mm (in.)38.1 (Rc 1 1/2") screw pipe
BTU/h	153,540	Outlet   mm (in.)
Power input   kW	25.6	External finishAcrylic painted steel sheet
Current input   A	43.17 - 41.01 - 39.53	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
COP (kW / kW)		EXTERNAL DIMENSIONS (HxWxD)
Maximum current input   A		mm1710 (1650 not including
Water pressure drop	12.9kPa (1.87psi)	legs) x 1978 x 759
TEMPERATURE RANGE		in67.3 (65.0 not including
Outlet water temperature	25~70°C, 77~158°F	legs) x 77.9 x 29.9
Outdoor temperature   D.B		Net weight   kg (lb)526 (1160)
Circulating water volume range		AccessoriesY-strainer Rc 1 1/2

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DES	IGN	PRF	SSU	JRF

R407C	MPa	.3.85
Water	MPa	1.0

#### **HEAT EXCHANGER**

Water side	Copper brazed stainless
	steel sheet
Air-side	Plate fins and copper tubes

#### **COMPRESSOR**

Type	Inverter scroll
	hermetic compressor
Manufacturer	MITSUBISHI ELECTRIC
	CORPORATION
Starting method	Inverter
Motor output   kW	7.5 x 2
Case heater   kW	0.045 X 2
Lubricant	

FAN	
Air flow rate   m <sup>3</sup> /min	185 × 2
Air flow rate   L/s	3,083 × 2
Air flow rate cfm	6,532 × 2
External static pressure	0 Pa (0 mm H2O)
Type and quantity	Propeller fan x 2
Motor output   kW	0.46 × 2
HIC (Heat inter-changer) circuit	Copper pipe

#### **PROTECTION DEVICES**

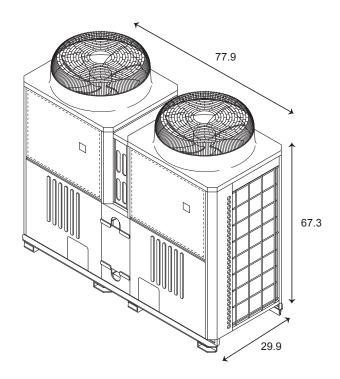
High pressure	High-pressure sensor and switch set at 3.85 MPa
	(643 psi)
Inverter circuit	Overheat and
	overcurrent protection
Compressor	Overheat protection
Fan motor	Thermal switch
Defrosting method	Auto-defrost mode
	(Reversed refrigerant circle)

#### **REFRIGERANT**

Type and factory charge   kgR407C, 5.5 kg x 2
Flow and temperature control LEV and HIC circuit

### Measurements/Dimensions (H×W×D)

67.3 (without legs 65.0)  $\times$  77.9  $\times$  29.9





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Specifications are subject to change without notice.