## Model: CAHV-P500YB-HPB (-BS)



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-500YB-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-P500YB-HPB

Power Supply:	3-phase 4-wire 380-400- 415 V 50/60 Hz
CAPACITY	
kW	45
kcal/h	38,700
BTU/h	153,540
Power input   kW	25.6
Current input   A	43.17 - 41.01 - 39.53
COP (kW / kW)	1.76
Maximum current input   A *	57.8 - 54.9 - 52.9
Water pressure drop	12.9kPa (1.87psi)
TEMPERATURE RANGE	
Outlet water temperature	25~70°C, 77~158°F

Outdoor temperature | D.B .....-20~40°C, -4~104°F Circulating water volume range....7.5 m<sup>3</sup>/h-15.0m<sup>3</sup>/h

dB (A)......63

### WATER PIPE DIAMETER AND TYPE

Inlet   mm (in.)	38.1 (Rc 1 1/2") screw pipe
Outlet   mm (in.)	
External finish	Acrylic painted steel sheet
("-BS" Additional Surface Treatment for Salt Pro	tection) < Munsell 5Y 8/1 or similar>

### **EXTERNAL DIMENSIONS (HxWxD)**

mm	1710 (1650 not including
	legs) x 1978 x 759
in	67.3 (65.0 not including
	legs) x 77.9 x 29.9
Net weight   kg (lb)	511 (1127)
Accessories	Y-strainer Rc 1 1/2

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s).

Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

SB CAHV-P500YB-HPB 201709

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### **DESIGN PRESSURE**

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	.lnverter
Motor output   kW	.7.5 x 2
Case heater   kW	.0.045 X 2
Lubricant	MEL 32

### **FAN**

Air flow rate	m³/min	$185 \times 2$
Air flow rate	L/s	$3,083 \times 2$
Air flow rate	cfm	$6,532 \times 2$

External static pressure......0 Pa, 60Pa (0 mm H2O, 6.1mm H2O)

Type and quantity ......Propeller fan x 2 Motor output | kW ..............0.46  $\times$  2

HIC (Heat inter-changer) circuit.....Copper pipe

### **PROTECTION DEVICES**

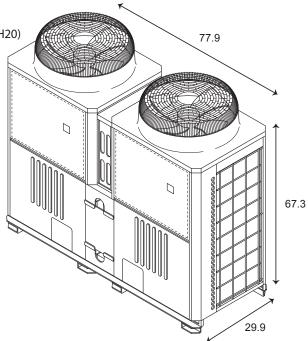
High pressure	
	switch set at 3.85 MPa
	(643 psi)
Inverter circuit	Overheat and
	overcurrent protection
Compressor	Overheat protection
Fan motor	Thermal switch
Defrosting method	Auto-defrost mode
	(Reversed refrigerant circle)

### **REFRIGERANT**

Type and factory charge   kg	R407C, 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.