

Belmont Street

PS146-TS-0100

Rev: 0

Job No: PS146

Date:

Drawing No: N/A

Response required by: ASAP

Specification Ref:

Items for Approval (Description): Air Source Heat Pumps

5 No. Mitsubshi CAHV-P500YB-HPB Air Source Heat Pumps

Documentation details enclosed:

Status A - The above item(s) have been reviewed and are accepted.

Status B - The above item(s) have been reviewed and are accepted subject to the following comments:

Status C - The above item(s) have been rejected for the following reasons:

On behalf of: Promech Services Ltd.

On behalf of :

Signed:..... Signed:.....

Print:.....A. ELDER..... Print:.....

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Heating

Product Information

CAHV-P500YB-HPB

Ecodan Air Source Heat Pump

Making a
World of
Difference



CAHV Monobloc Heat Pump System



Certificate Number: MCS HP0002
Product Reference: CAHV-P500YB-HPB

The Ecodan CAHV air source heat pump monobloc system can operate singularly, or form part of a multiple unit system. The CAHV also comes equipped with a wide range of controller features as standard.

A multiple unit system has the ability to cascade available units on and off to meet the load from a building. As an example of this modulation, a 16 unit system allows 0.5kW increments of capacity, from 18kW all the way up to 688kW. This level of modulation is unprecedented within the heating industry and with cascade and rotation built in as standard, the Ecodan CAHV system is perfectly suited to a wide range of commercial applications.

Key Features

- Multiple unit cascade control of up to 688kW capacity
- Split refrigerant circuits within each CAHV provide 50% back up
- Ability to rotate units based on accumulated run hours
- Provides from 25°C up to 70°C water flow temperatures without boost heaters
- Low maintenance, hermetically-sealed monobloc design
- Low on-site refrigerant volume
- HIC (Zubadan) technology delivers 43kW at -3°C with minimal drop off down to -20°C



Air Conditioning | Heating
Ventilation | Controls



ecodan[®]
Renewable Heating Technology

MODEL		CAHV-P500YB-HPB
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++
	η_{L}	125%
	SCOP	3.19
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A+
	η_{L}	139%
	SCOP	3.54
HEATING ^{*1} (A-3/W35)	Capacity (kW)	42.6
	Power Input (kW)	15.2
	COP	2.80
OPERATING AMBIENT TEMPERATURE (°C DB)		-20~+40°C
SOUND PRESSURE LEVEL AT 1M (dBA) ^{*2,3}		59
LOW NOISE MODE (dBA) ^{*2}		Variable
FLOW RATE(l/min)		126
WATER PRESSURE DROP (kPa)		18
DIMENSIONS (mm)	Width	1978
	Depth	759
	Height	1710 (1650 without legs)
WEIGHT (kg)		526
ELECTRICAL SUPPLY		380-415v, 50Hz
PHASE		3
NOMINAL RUNNING CURRENT [MAX] (A)		17.6 [52.9]
FUSE RATING - MCB SIZES (A) ^{*4}		63

*1 Under normal heating conditions at outdoor temp: -3°CDB / -4°CWB, outlet water temp 35°C, inlet water temp 30°C

*2 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 35°C, inlet water temp 30°C as tested to BS EN14511

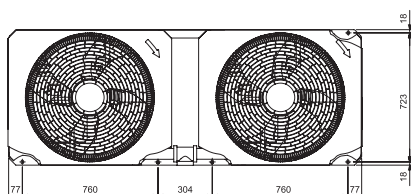
*3 Sound power level of the CAHV-P500YB-HPB is 70.7dBA. Tested to BS EN12102

*4 MCB Sizes BS EN60898-2 & BS EN60947-2

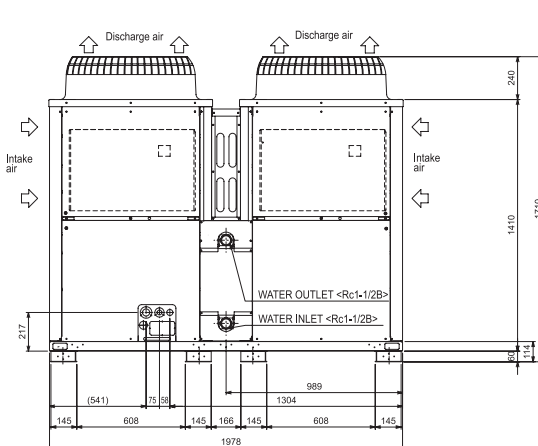
η_{L} is the seasonal space heating energy efficiency (SSHEE) η_{Lw} is the water heating energy efficiency

DIMENSIONS

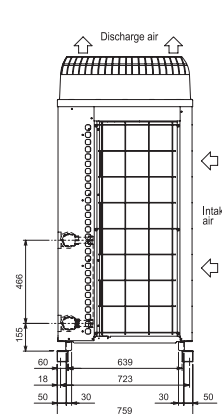
Upper View



Front View



Side View



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