

Submittal Data: CAHV-R136YAU (-BS)

Job Name:	Location:
Schedule Reference:	Submitted By:
Submitted To:	Reference: Approval: Construction:
Engineer:	Date: Application:
 Standard Model Seacoast (-BS) Model	- Snow/Wind Guards CM-SD-2-TKMU-QAHV (x1) CM-RE-2TKMU-QAHV (x2) CM-SNOW-TKMU-QAHV (x2) - Basepan Heater CM-BPH-460 - Water temperature sensor TW-TH16

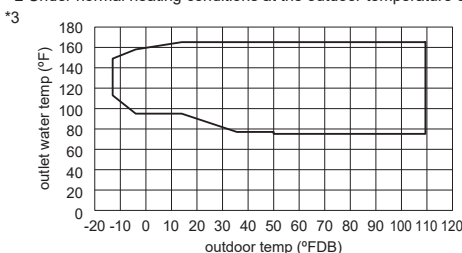
Specifications:

Power source			3-phase 3-wire 460 V 60 Hz	
Capacity (EN14511) *1 (Nominal)		kW	40.0	
		BTU/h	136,480	
		Power input	kW	14.03
		Current input	A	19.6
		COP (kW/kW)	2.85	
Maximum current input (MCA)		A	41.0	
Maximum overcurrent protection (MOP)		A	60.0	
Overcurrent breaker - (Minimum wire thickness - Main cable)		A	60 (16,77 mm ² (AWG 5))	
Water pressure drop *1		kPa (psi)	10.2 (1.47)	
Temperature range *3	Outlet water temperature	°C	24 - 74	
		(°F)	(75 - 165)	
	Outdoor temperature (D.B.)	°C	-25 - 43	
		(°F)	(-13 - 109.4)	
Circulating water volume range			4.0 m3/h-15.0 m3/h (1056.8 G/h-3963 G/h)	
Sound pressure level (measured 1 m below the unit in an anechoic room) *1 *5		dB (A)	65	
Sound pressure level (measured 1 m below the unit in an anechoic room) *2 *5		dB (A)	72	
Water pipe diameter and type	Inlet	mm (in)	38.1 (1 1/2"), 40A grooved housing type joint	
	Outlet	mm (in)	38.1 (1 1/2"), 40A grooved housing type joint	
External finish			Acrylic painted steel sheet <Munsell 5Y 8/1 or similar>	
External dimensions H × W × D		mm (in)	1650 × 1750 × 740 (64-31/32 × 68-29/32 × 29-5/32)	
Net weight		kg (lbs)	372 (820)	
Design pressure	R454C	MPa (psi)	3.85 (558)	
	Water	MPa (psi)	1.0 (145)	
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	12.1	
	Lubricant		FVC32EA	
Fan	Air flow rate	m3/min	150 × 2	
		L/s	2500 × 2	
		cfm	5297 × 2	
	External static pressure		10 Pa (1 mm H2O)	
	Type and quantity		Propeller fan × 2	
	Control and driving mechanism		Inverter control, direct driven by motor	
	Motor output	kW	0.92 × 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	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Refrigerant	Type and factory charge	kg (lbs)	R454C, 9.0 (19.8)	
	GWP *4		148	
	Flow and temperature control		LEV and HIC circuit	

Notes:

**1 Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB (44.6°FDB/42.8°FWB), the outlet water temperature of 45°C (113°F) and the inlet water temperature of 40°C (104°F). Tolerance of capacity and COP is based on AHRI 551/591.

*2 Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB (44.6°FDB/42.8°FWB) when the unit is set to the "Capacity Priority" mode through the dry NC-contact.



Outdoor temp. -25°CDB/Outlet water temp. 45~65°C
(Outdoor temp. -13°FDB/Outlet water temp. 113~149°F)
Outdoor temp. -20°CDB/Outlet water temp. 35~70°C
(Outdoor temp. -4°FDB/Outlet water temp. 95~158°F)
Outdoor temp. -10°CDB/Outlet water temp. 35~74°C
(Outdoor temp. 14°FDB/Outlet water temp. 95~165°F)
Outdoor temp. 43°CDB/Outlet water temp. 24~74°C
(Outdoor temp. 109°FDB/Outlet water temp. 75.2~165°F)

* Stops operation at the outdoor temperature of -28°C (-18°F) or below
* Stops operation at the inlet temperature of 72°C (161.6°F) or above

*4 IPCC 4th assessment report

*5 The sound pressure level is a value measured in an anechoic room in accordance with the conventional method in JRA4060.

6.All electrical work shall comply with National (CEC) and local codes and regulations.

7.Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved components and accessories for proper functioning of the unit(s).

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

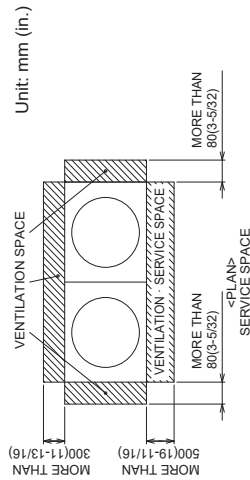
Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

9.Should any person change this document in any manner whatsoever without MESCA's written permission, the document shall be of no force and effect and any change

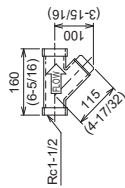
shall be deemed to be a representation and warranty made by that person and not MESCA. That person, and not MESCA, shall assume full responsibility for the consequences of such changes.

MESCA assumes no responsibility for any consequences in such cases.

Outdoor Unit Outline and Dimensions:



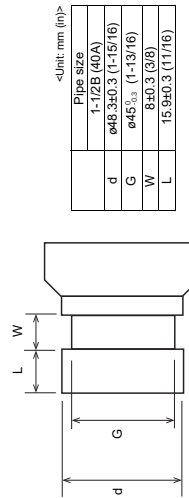
<OPTION YS-40A>
● Y TYPE STRAINER 1-1/2B-BRONZE> . . . 1 PIECE
(THIS IS FOR THE WATER PIPING.
PLEASE INSTALL IT NEAR THE WATER INLET.)



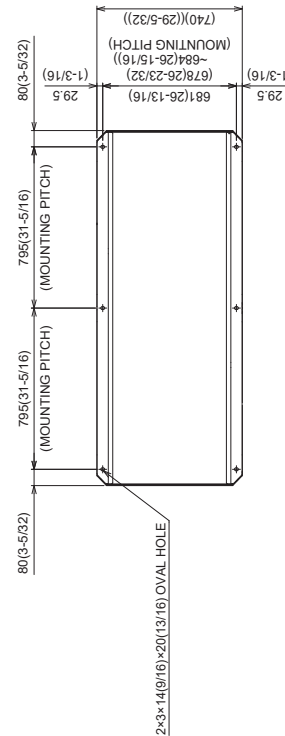
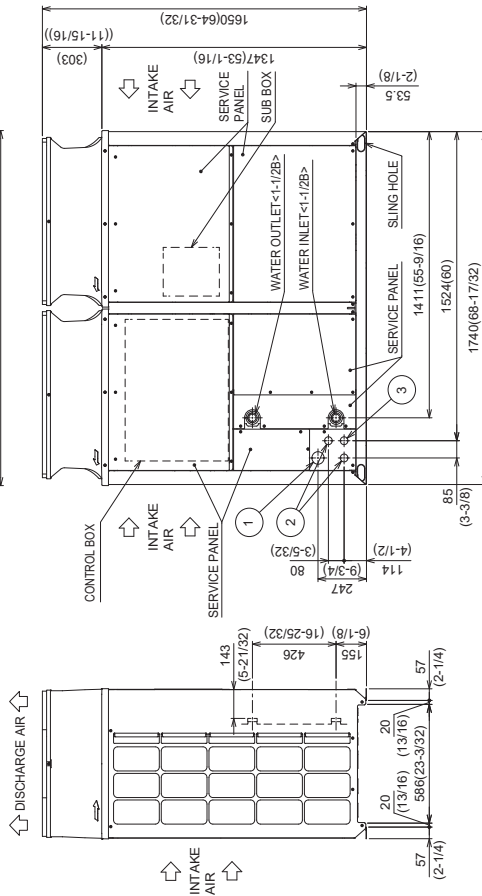
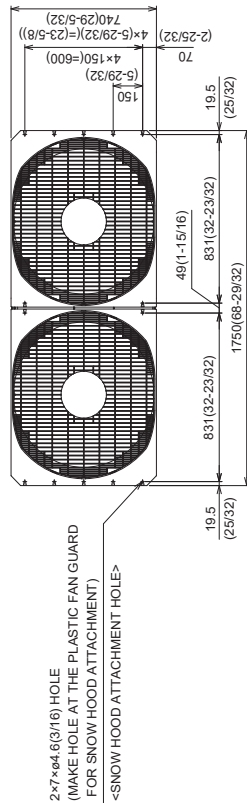
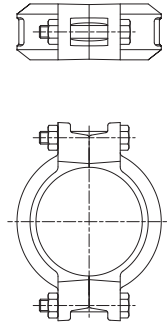
NOTE 1. PLEASE INSTALL THE DRAIN PAN BECAUSE DEFROSTING WATER OR DEW CONDENSATION WATER DROPS FROM HOLES ON THE UNIT BASE.
2. THE DETACHABLE LEG CAN BE REMOVED AT SITE.

NO.	USAGE	SPECIFICATIONS
①	POWER CABLE INLET	ø62(2-15/32) KNOCKOUT HOLE
②	SIGNAL CABLE INLET (LOW CURRENT CABLE)	ø35(1-13/32) KNOCKOUT HOLE
③	SIGNAL CABLE INLET (HIGH CURRENT CABLE)	ø35(1-13/32) KNOCKOUT HOLE

Water pipe groove specifications



Housing joint (Field supply)
• Use to connect unit to local piping.



Conforms To ANSI/UL STDs
60335-1 & 60335-2-40
Certified To CAN/CSA STD
C22.2 # 60335-1 & 60335-2-40