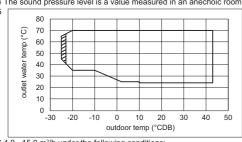
1-1. Specifications

Model			CAHV-R450YA-HPB (-BS)
Power source			3-phase 4-wire 380-400-415V 50/60 Hz
Capacity(EN14511) *1		kW	40.0
		BTU/h	136,480
	Power input	kW	14.03
	Current input	Α	23.7-22.5-21.7
	COP (kW/kW)		2.85
	SCOP Low/Medium		3.57/3.24
Capacity(EN14511) *2		kW	35.0
,		BTU/h	119,420
	Power input	kW	20.13
	Current input	A	34.0-32.3-31.1
	COP (kW/kW)	' ''	1.74
Maximum current input	COT (KTV/KTV)	Α	44.0-41.8-40.3
Water pressure drop *1			10.2 kPa (1.47 psi)
Trace pressure drop 1			24-70°C
Temperature range *5	Outlet water temperature		
		_	75.2-158°F -25-43°C
	Outdoor temperature	D.B.	
			-13-109.4°F
Circulating water volume range *6		LID (A)	1.5 m ³ /h-15.0 m ³ /h
Sound pressure level (measured 1 m below the unit in an anechoic room) *1 *4		dB (A)	64
Sound pressure level (measured 1 m	below the unit in an anechoic room) *3 *4	dB (A)	72
Water pipe diameter and type	Inlet	mm (in)	38.1 (1 1/2"), housing type joint
	Outlet	mm (in)	38.1 (1 1/2"), housing type joint
External finish			Acrylic painted steel sheet
			<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
External dimensions H × W × D		mm	1710 × 1750 × 740
Net weight		kg (lbs)	359 (791)
Design pressure	R454C	MPa	3.85
	Water	MPa	1.0
Drawing number	Wiring		KW94C870
	External appearance		KW94C397
Heat evelopmen	Water-side		Copper brazed stainless steel sheet
Heat exchanger	Air-side		Plate fins and copper tubes
Compressor	Туре		Inverter scroll hermetic compressor
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter
	Motor output	kW	12.1
	Lubricant		FVC32EA
Fan	Air flow rate	m ³ /min	150 × 2
		L/s	2500 × 2
		cfm	5297 × 2
	External static pressure		10 Pa (1 mm H ₂ O)
	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	motor output	IVVV	Copper pipe
The (Fleat litter-change) circuit	High proceure	+	
Protection devices	High pressure Inverter circuit		High-pressure sensor and switch set at 3.85 MPa (643 psi)
			Overheat and overcurrent protection
	Compressor		Overheat protection
Fan motor			Thermal switch
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)
Refrigerant	Type and factory charge	kg	R454C, 9.0 kg
	Flow and temperature control		LEV and HIC circuit



*2 Under normal heating conditions at the outdoor temperature of 7°CDB/6°CWB (44.6°FDB/42.8°FWB) and the outlet water temperature of 70°C (158°F) *3 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

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



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. 43°CDB/Outlet water temp. 24~70°C (Outdoor temp. -109°FDB/Outlet water temp. 75.2~158°F)

*Do not start up the unit at or below the outdoor temperature of -23°C

- *6 4.0 15.0 m^3/h under the following conditions: a. When the outdoor temperature is below 0° C,
 - b. When the outlet water temperature is 30°C or below AND the outdoor temperature is 6°C or below.

When entering defrosting operation, ensure that the flow rate is within 6°C of the inlet/outlet temperature difference. (If flow rate of 66 L/min or more is provided, the inlet/outlet temperature difference during defrosting will be within the allowable range over the entire operation range.)

Unit converter

BTU/h= kW × 3,412 cfm= m3/min × 35.31 lbs= kg/0.4536