1-1. Specifications

Model			QAHV-N560YA-HPB
Power Source			3-phase 4-wire 380-400-415V 50Hz
Capacity *1		kW	40
		kcal/h	34400
		Btu/h	136480
	Power input	kW	10.31
	Current input	A	17.8-16.9-16.3
	COP(kW/kW)		3.88
Capacity *2		kW	40
		kcal/h	34400
		Btu/h	136480
	Power input	kW	10.97
	Current input	A	20.0-19.0-18.3
	COP(kW/kW)		3.65
Capacity *3		kW	40
		kcal/h	34400
		Btu/h	136480
	Power input	kW	11.6
	Current input	A	20.4-19.4-18.7
	COP(kW/kW)		3.44
Maximum current input		A	33.8
Allowable external pump head			77kPa
Temperature range	Inlet water temp		5-63°C 41-145.4ºF
	Outlet water temp		55–90°C (when the secondary side control is enabled: 55–80ºC) 131–194ºF (when the secondary side control is enabled: 131–176ºF)
	Outdoor temp	D.B.	-25~43°C -13~109.4°F
Sound Pressure level (measured 1m below the unit in an anechoic room) *1		dB(A)	56
Water pipe diameter and type	Inlet	mm(in.)	19.05(Rc 3/4"), screw pipe
	Outlet	mm(in.)	19.05(Rc 3/4"), screw pipe
External finish			Acrylic painted steel plate <MUNSELL 5Y 8/1 or similar>
External dimension H x W x D		mm	1837(1777 not including legs) x 1220 x 760
		in.	72.3(69.9 not including legs) x 48.0
Net weight		kg(lbs)	400(882)
Design Pressure	R744	MPa	14
	Water	MPa	0.5
Heat exchanger	Water-side		Copper tube coil
	Air-side		Plate fin and copper tube
Compressor	Type		Inverter scroll hermetic compressor
	Maker		MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter
	Motor output	kW	11.0
	Case heater	W	45
	Lubricant		PAG
FAN	Air flow rate	m^3/min	220
		L/s	3666
		cfm	7768
	Type x Quantity		Propeller fan
	Control, Driving mechanism		Inverter-control, Direct-driven by motor
	Motor output	kW	0.92
HIC (HIC: Heat inter-changer) circuit			Copper pipe
Protection	High pressure protection		High pres.Sensor & High pres.Switch at 14MPa(643psi)
	Inverter circuit		Overheat and overcurrent protection
	Compressor		Overheat protection
	Fan motor		Thermal switch
Defrosting method			Auto-defrost mode (Hot gas)
Refrigerant	Type x original charge		CO_2 (R744) 6.50kg
	Flow and temperature control		LEV

Notes:

*1.Under Normal heating conditions at the outdoor temp, 16°CDB/12°CWB(60.8°FDB/53.6°FWB), the outlet water temperature 65°C(149°F), and the inlet water temperature 17°C(62.6°F)
*2.Under Normal heating conditions at the outdoor temp, 7°CDB/6°CWB(44.6°FDB/42.8°FWB), the outlet water temperature 65°C(149°F), and the inlet water temperature 9°C(48.2°F)
*3.Under Normal heating conditions at the outdoor temp, 7°CDB/6°CWB(44.6°FDB/42.8°FWB), the outlet water temperature 65°C(149°F), and the inlet water temperature 15°C(59.0°F)
*Due to continuing improvements, specifications may be subject to change without notice
*Do not use steel pipes as water pipes.
*Keep the water circulated at all times. Blow the water out of the pipes if the unit will not be used for an extended period time.
*Do not use ground water or well water
*Do not install the unit in an environment where the wet bulb temperature exceeds 32°C
*The water circuit must use the closed circuit
*There is a possibility that the unit may abnormally stop when it operates outside its operating range. Provide backup (ex.boiler start with error display output signal (blue CN511 1-3)) for abnormal stop.

Unit converter	
kcal/h	=kW x 860
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg/0.4536