

# Hydro Box



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## Specification for hydro box

Hydro Box Model			AHM-080FJFAA	AHM-160FJFAA
Power Supply			AC 1Φ,220-240V/50/60Hz	
Cooling Capacity (A 35/24°C/W 12-7°C)	kW		7.5	12.5
Heating Capacity (A 7/6°C/W 30-35°C)	kW		8	16
Nominal Power Input	kW		0.08(3.08)	0.14(3.14)
Dimensions	H*W*D	mm	890×520×320	890×520×320
Packing Dimensions	H*W*D	mm	1120×595×462	1120×595×462
Weight	Net	kg	55	58
	Gross	kg	72	75
Heat Exchanger			Plate Heat Exchanger	
Heat Exchanger Insulation Material			Elastomeric Foam	
Water Production	Heating	°C	20 to 55	20 to 55
	DHW(with electric heater)	°C	35 to 75	35 to 75
	Cooling	°C	5 to 20	5 to 20
Sound Pressure		dB(A)	33	33
Sound Power		dB(A)	46	46
Piping Connections	Gas	mm	Φ9.53	Φ9.53
	Liquid	mm	Φ15.88	Φ15.88
Water Pump	Type		DC Motor	
	Pumping Head for Water Circuit	m	5	5
	Power Input	w	100	160
Booster Heating		kW	3	3
Water Filter	Diameter Perforations	mm	0.85	0.85
	Material		Hpb59-1	Hpb59-1
Water Circuit	Piping Connections Diameter	mm	G1-1/4"	G1-1/4"
	Shut off Valve		Yes	Yes
	Drain Valve		Yes	Yes
	Safety Valve	Bar	3	3
	Air Purge Valve		Yes	Yes
Nominal Water		m³/h	1.38	2.75
Expansion Vessel	Volume	L	8	8
	Max. Water Pressure	Bar	3	3

## Operation range

### Indoor Unit Cooling

	Maximum	Minimum
Indoor	32°C DB / 23°C WB	21°C DB / 15°C WB
Outdoor	52°C DB*	-10°C DB

### Indoor Unit Heating

	Maximum	Minimum
Indoor	27°C DB	15°C DB
Outdoor	16.5°C WB	-25°C WB**

### Water Module Cooling

	Maximum	Minimum
Inlet Water	25°C	10°C
Outdoor	48°C DB	10°C DB

### Water Module Heating (Floor Heating)

	Maximum	Minimum
Inlet Water	54°C	10°C
Outdoor	16.5°C WB	-25°C WB**

### Water Module Heating (DHW)

	Maximum	Minimum
Inlet Water	54°C	10°C
Outdoor	43°C WB	-25°C WB**

DB: Dry Bulb  
WB: Wet Bulb

(\*) 48°C DB ~ 52°C DB, Operation Control Range  
(\*\*) -20°C WB ~ -25°C WB, Operation Control Range

