



# Hydro Unit (HE)

- Production of low temperature hot water and chilled water.
- Hot water production to a maximum temperature of 50 °C.
- Two-way control: leaving water temperature and room temperature control.
- Connection to low temperature radiators and AHU water coils.
- Hot water production for domestic hot water use.
- Connectable to Heat Recovery DVM S systems (excluding 50 kW hydro unit).

## Specifications



Model			AM160FNBDEH/EU	AM320FNBDEH/EU	AM500FNBDEH/EU
<b>Electrical</b>					
Power Supply	Ø, #, V, Hz		1Ø, 2, 220–240 V, 50 Hz	1Ø, 2, 220–240 V, 50 Hz	1Ø, 2, 220–240 V, 50 Hz
MCA (including external contact)	A		2.2	2.2	2.2
MFA	A		2.75	2.75	2.75
Interconnecting Communication Cable	mm <sup>2</sup>		Screened 0.75-1.5mm <sup>2</sup> , 2 Core, F1 F2 Connection		
<b>Performance<sup>1</sup></b>					
Nominal cooling	kW		14.0	28.0	44.8
Nominal heating	kW		16.0	31.5	50.4
Ambient Operating Temperature Range	Space cooling	°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
	Space heating	°C	-20 ~ 35	-20 ~ 35	-20 ~ 35
	Hot water (main cooling, HR) <sup>2</sup>	°C	-20.0 ~ 35 (43)	-20.0 ~ 35 (43)	-20.0 ~ 35 (43)
Leaving Water Temperature Range	Cooling	°C	5.0 ~ 30.0	5.0 ~ 30.0	5.0 ~ 30.0
	Heating	°C	20.0 ~ 50.0	20.0 ~ 50.0	20.0 ~ 50.0
<b>Heat Exchanger</b>					
Type	-		PHE (Plate Heat Exchanger)	PHE (Plate Heat Exchanger)	PHE (Plate Heat Exchanger)
Quantity	ea		1	1	1
Pipe size	ø, inch		PT 1 (25A)	PT 1 (25A)	PT 1-1/4 (32A)
Water flow rate	l/min		48	92	150
Flow switch	l/min		20	30	50
<b>Piping Connections</b>					
Liquid Pipe	ø, mm (inch)		9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
Gas Pipe	ø, mm (inch)		15.88 (5/8)	22.2 (7/8)	28.58 (1-1/8)
<b>Refrigerant</b>					
Type			R410A (Fluorinated greenhouse gas, GWP=2088)		
Control Method			EEV included	EEV included	EEV included
<b>Sound</b>					
Sound Pressure Level	dB(A)		27	28	31
Sound Power Level	dB(A)		54	56	59
<b>Dimensions</b>					
Net Weight	kg		29	34	43
Net Dimensions	W x H x D	mm	518 x 627 x 330	518 x 627 x 330	518 x 627 x 330

### Accessories

#### Premium Wired Controller

MWR-WW10N

<sup>1</sup> Nominal cooling capacities are based on;  
 - Water temperature: 23°C inlet, 18°C outlet  
 - Indoor temperature: 27°C DB, 19°C WB  
 - Outdoor temperature: 35°C DB, 24°C WB  
 Nominal heating capacities are based on;  
 - Water temperature: 30°C inlet, 35°C outlet  
 - Indoor temperature: 20°C DB  
 - Outdoor temperature: 7°C DB, 6°C WB.

<sup>2</sup> Extended operating range for hot water.  
 Only available in heat recovery systems when operating in main cooling mode.