

3. Tank integrated hydro unit

3-1. Specifications

Model Name		Indoor Unit	AE200RNWMEG/EU	AE200RNWMEG/EU	AE200RNWMEG/EU	
		Outdoor Unit	AE050RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU	
Mode		-	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)	
Power Supply		Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	
Power input	Cooling (Nominal)	kW	0.2	0.2	0.2	
	Heating (Nominal)	kW	0.2	0.2	0.2	
	Cooling (Max)	kW	0.2	0.2	0.2	
	Heating (Max)	kW	5.2	5.2	5.2	
Current Input	Cooling (Nominal)	A	0.9	0.9	0.9	
	Heating (Nominal)	A	0.9	0.9	0.9	
	Cooling (Max)	A	0.9	0.9	0.9	
	Heating (Max)	A	22.7	22.7	22.7	
Field Wiring	MCA	A	22.7	22.7	22.7	
	MFA		28.4	28.4	28.4	
Water Heating	Declared load profile	-	L	L	L	
	Energy efficiency Class	-	A+	A+	A	
Water Connections	Water Flow Rate (Std)[H/C]		LPM	14.4/14.4	23.1/21.6	34.6/34.6
	Water Pressure (Max)		bar	3	3	3
	Water pipe (To outdoor unit)	Type	-	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28	28
		Outlet	Φ, mm	28	28	28
	Water pipe (Space heating)	Type	-	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28	28
		Outlet	Φ, mm	28	28	28
	Water pipe (DHW)	Type	-	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm	22	22	22
		Outlet	Φ, mm	22	22	22
	Water pipe (Secondary water return, Only 260L optional)	Type	-	-	-	-
		Inlet	Φ, mm	-	-	-
	Leaving Water Temperature	Heating	°C	15~65	15~65	15~65
Cooling		°C	5~25	5~25	5~25	
DHW Tank	Nominal Water Volume		liter	200	200	200
	Net Water Volume		liter	194	194	194
	Material		-	SUS 316L	SUS 316L	SUS 316L
	Max. water pressure		bar	10	10	10
	Max. water temperature		°C	70	70	70
	Immersion heater (= booster heater)		kW	3 (230V)	3 (230V)	3 (230V)
	Insulation		-	PU Foam	PU Foam	PU Foam
Water Pump	Type		-	Centrifurugal (UPMM 25-9.5)	Centrifurugal (UPMM 25-9.5)	Centrifurugal (UPMM 25-9.5)
	Motor Input		W	100	100	100
	Number of Unit		EA	1	1	1
Backup Heater	Power		kW	2 (230V)	2 (230V)	2 (230V)
Safety device	Pressure relief valve		bar	2.9	2.9	2.9
	Flow Sensor		LPM	5~60	5~60	5~60
	Temperature & Pressure relief valve (Tank)		bar, °C	7, 90	7, 90	7, 90
	Thermostat(for immersion heater)		°C	49~82±5 (Auto, On : 15°C±3°C↓)	49~82±5 (Auto, On : 15°C±3°C↓)	49~82±5 (Auto, On : 15°C±3°C↓)

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Model Name		Indoor Unit		AE200RNWMEG/EU	AE200RNWMEG/EU	AE200RNWMEG/EU
		Outdoor Unit		AE050RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU
Expansion vessel	Internal water volume	liter	8	8	8	
	Working pressure	MPa	0.3	0.3	0.3	
Water Pump (Primary)	Type	-	BLDC Inv	BLDC Inv	BLDC Inv	
	Max static pressure	mAq	9.5	9.5	9.5	
Water Heat Exchanger	Type	-	Braszed Plate Exchager	Braszed Plate Exchager	Braszed Plate Exchager	
	Internal water volume	L	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)	
IP Class		-	IPX1	IPX1	IPX1	
Air Purge Valve		Φ, inch	BSPP male 3/8"	BSPP male 3/8"	BSPP male 3/8"	
Sound	Sound Pressure	Heating	dB(A)	26	26	30
		Cooling	dB(A)	26	26	30
	Sound Power	Heating	dB(A)	40	40	44
External Dimension	Net Weight		kg	130.0	130.0	130.0
	Shipping Weight		kg	142.0	142.0	142.0
	Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
	Shipping Dimensions (WxHxD)		mm	700 x 2,000 x 780	700 x 2,000 x 780	700 x 2,000 x 780

NOTE

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3-1. Specifications

Model Name		Indoor Unit		AE200RNWMEG/EU	AE260RNWMEG/EU	AE260RNWMEG/EU
		Outdoor Unit		AE160RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU
Mode			-	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Power input	Cooling (Nominal)		kW	0.2	0.2	0.2
	Heating (Nominal)		kW	0.2	0.2	0.2
	Cooling (Max)		kW	0.2	0.2	0.2
	Heating (Max)		kW	5.2	5.2	5.2
Current Input	Cooling (Nominal)		A	0.9	0.9	0.9
	Heating (Nominal)		A	0.9	0.9	0.9
	Cooling (Max)		A	0.9	0.9	0.9
	Heating (Max)		A	22.7	22.7	22.7
Field Wiring	MCA		A	22.7	22.7	22.7
	MFA			28.4	28.4	28.4
Water Heating	Declared load profile		-	L	XL	XL
	Energy efficiency Class		-	A	A+	A
Water Connections	Water Flow Rate (Std)[H/C]		LPM	46.2/40.4	23.1/21.6	34.6/34.6
	Water Pressure (Max)		bar	3	3	3
	Water pipe (To outdoor unit)	Type	-	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28	28
		Outlet	Φ, mm	28	28	28
	Water pipe (Space heating)	Type	-	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28	28
		Outlet	Φ, mm	28	28	28
	Water pipe (DHW)	Type	-	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm	22	22	22
		Outlet	Φ, mm	22	22	22
	Water pipe (Secondary water return, Only 260L optional)	Type	-	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	-	22	22
	Leaving Water Temperature	Heating	°C	15~65	15~65	15~65
Cooling		°C	5~25	5~25	5~25	
DHW Tank	Nominal Water Volume		liter	200	260	260
	Net Water Volume		liter	194	254	254
	Material		-	SUS 316L	SUS 316L	SUS 316L
	Max. water pressure		bar	10	10	10
	Max. water temperature		°C	70	70	70
	Immersion heater (= booster heater)		kW	3 (230V)	3 (230V)	3 (230V)
	Insulation		-	PU Foam	PU Foam	PU Foam
Water Pump	Type		-	Centrifurugal (UPMM 25-9.5)	Centrifurugal (UPMM 25-9.5)	Centrifurugal (UPMM 25-9.5)
	Motor Input		W	100	100	100
	Number of Unit		EA	1	1	1
Backup Heater	Power		kW	2 (230V)	2 (230V)	2 (230V)
Safety device	Pressure relief valve		bar	2.9	2.9	2.9
	Flow Sensor		LPM	5~60	5~60	5~60
	Temperature & Pressure relief valve (Tank)		bar, °C	7, 90	7, 90	7, 90
	Thermostat(for immersion heater)		°C	49~82±5 (Auto, On : 15°C±3°C↓)	49~82±5 (Auto, On : 15°C±3°C↓)	49~82±5 (Auto, On : 15°C±3°C↓)

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Model Name		Indoor Unit		AE200RNWMEG/EU	AE260RNWMEG/EU	AE260RNWMEG/EU
		Outdoor Unit		AE160RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU
Expansion vessel	Internal water volume	liter	8	8	8	
	Working pressure	MPa	0.3	0.3	0.3	
Water Pump (Primary)	Type	-	BLDC Inv	BLDC Inv	BLDC Inv	
	Max static pressure	mAq	9.5	9.5	9.5	
Water Heat Exchanger	Type	-	Braszed Plate Exchager	Braszed Plate Exchager	Braszed Plate Exchager	
	Internal water volume	L	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)	
IP Class		-	IPX1	IPX1	IPX1	
Air Purge Valve		Φ, inch	BSPP male 3/8"	BSPP male 3/8"	BSPP male 3/8"	
Sound	Sound Pressure	Heating	dB(A)	30	26	30
		Cooling	dB(A)	30	26	30
	Sound Power	Heating	dB(A)	44	40	44
External Dimension	Net Weight		kg	130.0	140.0	140.0
	Shipping Weight		kg	142.0	152.0	152.0
	Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
	Shipping Dimensions (WxHxD)		mm	700 x 2,000 x 780	700 x 2,000 x 780	700 x 2,000 x 780

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Model Name		Indoor Unit		AE260RNWMEG/EU	AE260RNWMGG/EU	AE260RNWMGG/EU	AE260RNWMGG/EU	
		Outdoor Unit		AE160RXYDEG/EU	AE080RXYDGG/EU	AE120RXYDGG/EU	AE160RXYDGG/EU	
Mode		-		Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)	
Power Supply		Φ, #, V, Hz		1,2,220-240,50	1,2,220-240,50 3,4,380-415,50	1,2,220-240,50 3,4,380-415,50	1,2,220-240,50 3,4,380-415,50	
Power input	Cooling (Nominal)	kW		0.2	3Φ - / 1Φ 0.20	3Φ - / 1Φ 0.20	3Φ - / 1Φ 0.20	
	Heating (Nominal)	kW		0.2	3Φ - / 1Φ 0.20	3Φ - / 1Φ 0.20	3Φ - / 1Φ 0.20	
	Cooling (Max)	kW		0.2	3Φ - / 1Φ 0.20	3Φ - / 1Φ 0.20	3Φ - / 1Φ 0.20	
	Heating (Max)	kW		5.2	3Φ 6.00 / 1Φ 3.20	3Φ 6.00 / 1Φ 3.20	3Φ 6.00 / 1Φ 3.20	
Current Input	Cooling (Nominal)	A		0.9	3Φ - / 1Φ 0.9	3Φ - / 1Φ 0.9	3Φ - / 1Φ 0.9	
	Heating (Nominal)	A		0.9	3Φ - / 1Φ 0.9	3Φ - / 1Φ 0.9	3Φ - / 1Φ 0.9	
	Cooling (Max)	A		0.9	3Φ - / 1Φ 0.9	3Φ - / 1Φ 0.9	3Φ - / 1Φ 0.9	
	Heating (Max)	A		22.7	3Φ 8.7 / 1Φ 14.0	3Φ 8.7 / 1Φ 14.0	3Φ 8.7 / 1Φ 14.0	
Field Wiring	MCA	A		22.7	3Φ 8.7 / 1Φ 14.0	3Φ 8.7 / 1Φ 14.0	3Φ 8.7 / 1Φ 14.0	
	MFA			28.4	3Φ 10.9 / 1Φ 17.5	3Φ 10.9 / 1Φ 17.5	3Φ 10.9 / 1Φ 17.5	
Water Heating	Declared load profile		-	XL	XL	XL	XL	
	Energy efficiency Class		-	A	A+	A	A	
Water Connections	Water Flow Rate (Std)[H/C]		LPM	46.2/40.4	23.1/21.6	34.6/34.6	46.2/40.4	
	Water Pressure (Max)		bar	3	3	3	3	
	Water pipe (To outdoor unit)	Type	-		Straight pipe	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm		28	28	28	28
		Outlet	Φ, mm		28	28	28	28
	Water pipe (Space heating)	Type	-		Straight pipe	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm		28	28	28	28
		Outlet	Φ, mm		28	28	28	28
	Water pipe (DHW)	Type	-		Straight pipe	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm		22	22	22	22
		Outlet	Φ, mm		22	22	22	22
	Water pipe (Secondary water return, Only 260L optional)	Type	-		Straight pipe	Straight pipe	Straight pipe	Straight pipe
		Inlet	Φ, mm		22	22	22	22
	Leaving Water Temperature	Heating	°C		15~65	15~65	15~65	15~65
Cooling		°C		5~25	5~25	5~25	5~25	
DHW Tank	Nominal Water Volume		liter	260	260	260	260	
	Net Water Volume		liter	254	254	254	254	
	Material		-	SUS 316L	SUS 316L	SUS 316L	SUS 316L	
	Max. water pressure		bar	10	10	10	10	
	Max. water temperature		°C	70	70	70	70	
	Immersion heater (= booster heater)		kW	3 (230V)	3 (230V)	3 (230V)	3 (230V)	
	Insulation		-	PU Foam	PU Foam	PU Foam	PU Foam	
Water Pump	Type		-	Centrifurugal (UPMM 25-9.5)	Centrifurugal (UPMM 25-9.5)	Centrifurugal (UPMM 25-9.5)	Centrifurugal (UPMM 25-9.5)	
	Motor Input		W	100	100	100	100	
	Number of Unit		EA	1	1	1	1	
Backup Heater	Power		kW	2 (230V)	6 (3Φ 400V)	6 (3Φ 400V)	6 (3Φ 400V)	
Safety device	Pressure relief valve		bar	2.9	2.9	2.9	2.9	
	Flow Sensor		LPM	5~60	5~60	5~60	5~60	
	Temperature & Pressure relief valve (Tank)		bar, °C	7, 90	7, 90	7, 90	7, 90	
	Thermostat(for immersion heater)		°C	49~82±5 (Auto, On : 15°C±3°C↓)	49~82±5 (Auto, On : 15°C±3°C↓)	49~82±5 (Auto, On : 15°C±3°C↓)	49~82±5 (Auto, On : 15°C±3°C↓)	

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Model Name		Indoor Unit		AE260RNWMEG/EU	AE260RNWMGG/EU	AE260RNWMGG/EU	AE260RNWMGG/EU
		Outdoor Unit		AE160RXYDEG/EU	AE080RXYDGG/EU	AE120RXYDGG/EU	AE160RXYDGG/EU
Expansion vessel	Internal water volume	liter	8	8	8	8	
	Working pressure	MPa	0.3	0.3	0.3	0.3	
Water Pump (Primary)	Type	-	BLDC Inv	BLDC Inv	BLDC Inv	BLDC Inv	
	Max static pressure	mAq	9.5	9.5	9.5	9.5	
Water Heat Exchanger	Type	-	Braszed Plate Exchager	Braszed Plate Exchager	Braszed Plate Exchager	Braszed Plate Exchager	
	Internal water volume	L	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)	1.01(Water Side) 0.98(Refrigerant Side)	
IP Class		-	IPX1	IPX1	IPX1	IPX1	
Air Purge Valve		Φ, inch	BSPP male 3/8"	BSPP male 3/8"	BSPP male 3/8"	BSPP male 3/8"	
Sound	Sound Pressure	Heating	dB(A)	30	26	30	30
		Cooling	dB(A)	30	26	30	30
	Sound Power	Heating	dB(A)	44	40	44	44
External Dimension	Net Weight		kg	140.0	140.0	140.0	140.0
	Shipping Weight		kg	152.0	152.0	152.0	152.0
	Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
	Shipping Dimensions (WxHxD)		mm	700 x 2,000 x 780	700 x 2,000 x 780	700 x 2,000 x 780	700 x 2,000 x 780

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