

MULTI V Hydro Kit (For Medium Temperature) SVC MANUAL(Exploded View)

MODEL: ARNH10GK2A2 / ARNH04GK2A2

CAUTION

Before Servicing the unit, read the safety precautions in General SVC manual. Only for authorized service personnel.

1. Specification

Туре			Hydro Kit (Medium Temp)		
	Model		Unit	ARNH10GK2A2	ARNH04GK2A2
Dower Cumply			V / Ø / U=	220~240) / 1 / 50
Power Supply	Power Supply		V / Ø / HZ	220 / 1 / 60	
	Cooling		kW	28	12.3
			kcal/h	24100	10580
Capacity			Btu/h	Unit	42000
(Rated)			kW	31.5	13.8
	Heating		kcal/h	27100	11870
			Btu/h	107500	47000
Input (Rated)	Cooling		kW	0.0	01
input (Hateu)	Heating		kW	0.0	
Casing				Painted S	teel Plate
Dimensions	Body	WxHxD	mm	520 X 631 X 330	
Difficitsions	Воду		inch	20-15/32 X 24-27/32 X 13	
Net Weight	Body		kg (lbs)		30.4 (67)
		Type		Brazed Plate HEX	
	Refrigerant to	Quantity		1	
Heat Exchanger	Water	Number of Plate	EA	48	26
		Rated Water Flow	l/min	_	39.6
		Head Loss	kPa		41
Temperature Control Microprocessor, Thermostat			at for cooling and heating		
Sound Absorbing	g Thermal Insula	ation Material		Foamed polystrene	
Safety Device					
	Water Side	Inlet	Foa		
Piping Connec-		Outlet	inch	Male	
tions	Refrigerant Side	Liquid	mm(inch)	` '	9.52(3/8)
		Gas	mm(inch)	, ,	15.88(5/8)
Drain Piping Cor			_	Male PT 1	
Sound Press	Cooling		` '	26	
Level	Heating		` '	26	
Power Supply Cable		No. x mm ²	3C X CV2.5		
Communication cable No. >		No. x mm ²	2C X CVV-SB 1.0~1.5		
	Refrigerant to	Refrigerant name		R410A	
Refrigerant	Water	Precharged Amount	nt kg (lbs) -		
		Control		Fu Male Male 9.52(3/8) 22.2(7/8) Male 22.2(7/8) 22 3C X 02 22 2C X CVV-	pansion Valve

Notes:

1. Capacities are based on the following conditions:

- Cooling Temperature Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB

Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB Water Inlet 23°C(73.4°F) / Outlet 18°C(64.4°F)

- Heating Temperature Indoor 20°C(68°F) DB / 15°C(59°F) WB Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB

Water Inlet 30°C(86°F) / Outlet 35°C(95°F)

- Piping Length : Interconnected Pipe Length = 7.5m

- Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.

2. Wiring cable size must comply with the applicable local and national code.

3. Due to our policy of innovation, some specifications may be changed without notification.

4. Sound Level Values are measured at Anechoic chamber.

Therefore, these values can be increased (maximum 3dB(A)) owing to ambient conditions during operation.

Conversion Formula

kcal/h= kW x 860 Btu/h = kW x 3412

2. List of Function

Category	Function	ARNH10GK2A2
	Drain pump	X
	E.S.P. control	Χ
Installation	Electric heater	Χ
	High ceiling operation	Х
	Auto Elevation Grille	Χ
	Hot start	Χ
Reliability	Self diagnosis	0
	Soft dry operation	Χ
	Auto changeover	Χ
	Auto cleaning	Χ
	Auto operation(artificial intelligence)	X
	Auto Restart	0
	Child lock	0
Convenience	Forced operation	X
	Group control	0
	Sleep mode	X
	Timer(on/off)	0
	Timer(weekly)	0
	Two thermistor control	X
	Standard Wired remote controller	0
	Deluxe wired remote controller	X
Individual	Simple wired remote controller	X
control	Simple Wired remote controller(for hotel use)	X
	Wireless remote controller	X
	General central controller (Non LGAP)	X
	Network Solution(LGAP)	0
CAC network function	Dry contact	PQDSA(1) / PQDSB(1)
C/ to Hother farious!	PDI(power distribution indicator)	0
	PI 485(for Indoor Unit)	X
	Zone controller	X
Special function kit	CTI(Communication transfer interface)	X
	Electronic thermostat	X
	Remote temperature sensor	PQRSTA0
Others	Telecom shelter controller	X
	Anti-condensation on floor(cooling)	0
	Water pump on / off Control	0
	Flow switch control	0
	Thermostat interface (230V AC)	0
	Thermostat interface (24V AC)	0
	Sanitary tank heating	X
Air to Water Heat Pump	Solar-thermal interface with sanitary tank	0
Functions	PHEX anti-freezing control	0
	Water pump forced operation	0
	Autosetting according to ambient temperature	0
	Slient operation	X
	Anti-overheating of water pipe	0
	Emergency operation	0
	Emergency operation	_

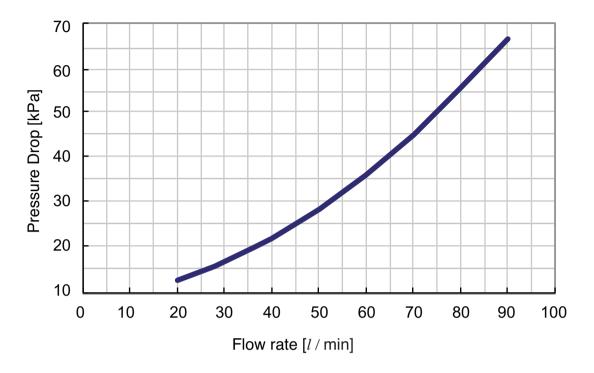
Notes

O: Applied, X: Not applied

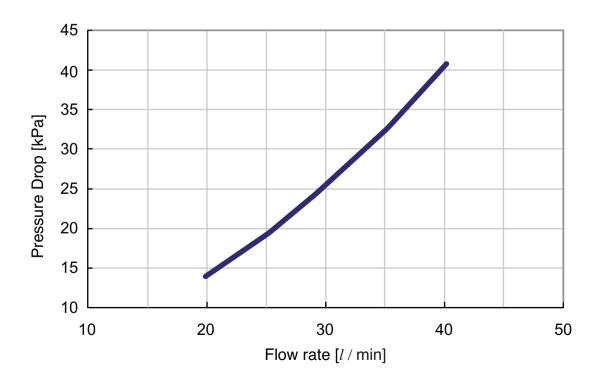
Accessory model name: Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

3. Water Pressure Drop

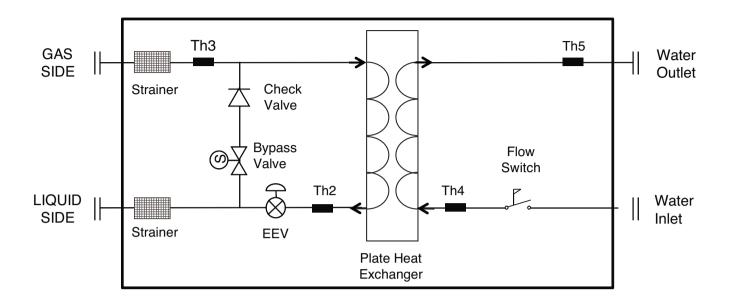
3.1 ARNH10GK2A2



3.2 ARNH04GK2A2

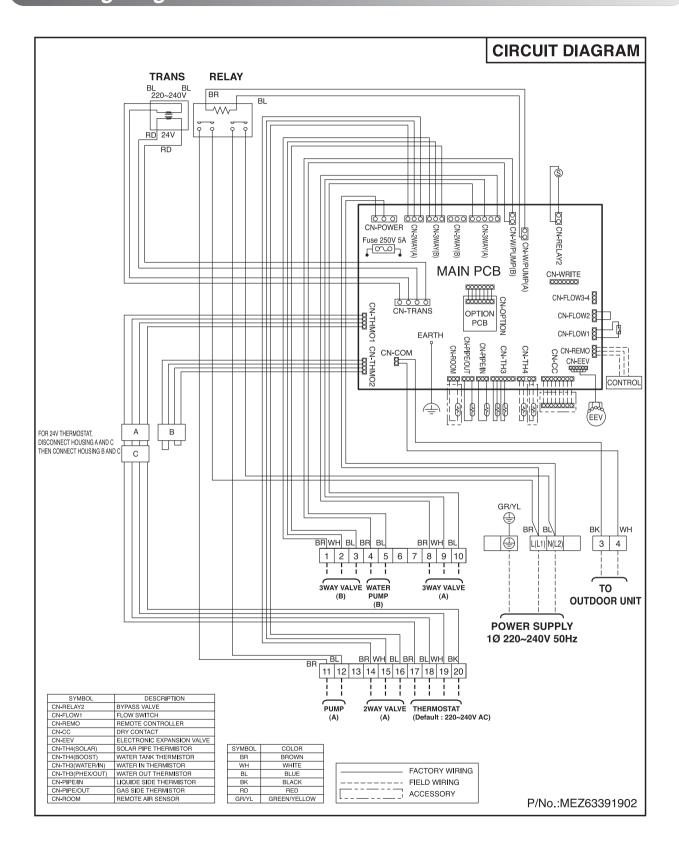


4. Cycle Diagram

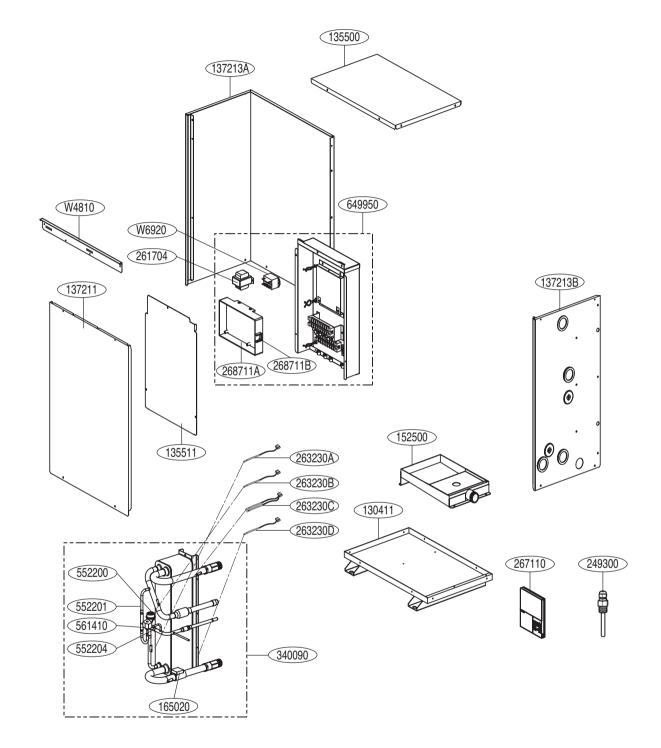


Symbol	Description	PCB Connector	Remarks
Th1	Air Temperature Sensor	CN-ROOM	*Optional accessory (being sold separately) *Not shown in diagram
Th2	Liquid Side Temperature Sensor	CN-PIPE/IN	
Th3	Gas Side Temperature Sensor	CN-PIPE/OUT	
Th4	Water Inlet Temperature Sensor	CN-TH3	*Th4 and Th5 are connected to 4 pin type connector CN-TH3
Th5	Water Outlet Temperature Sensor	GIN-TH3	

5. Wiring Diagram



6. Exploded View



Location No.	Description	Housing Color
263230A	Liquid Side Temperature Sensor	White
263230B	Gas Side Temperature Sensor	Red
263230C	Water Inlet/Outlet Temperature Sensor	Black
263230D	Water Tank Temperature Sensor	Red



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