CITY MULTI®

PQRY-M144YXU-A
144,000 BTU/H HEAT RECOVERY WATER SOURCE OUTDOOR UNIT

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

Job Name:			
System Reference:		**Date:**	

GENERAL FEATURES

- Water-Source Heat Recovery: Water-Source Heat Recovery systems use water for the exchange of energy to provide simultaneous heating and cooling.
- Water-Source + VRF: Water-source VRF uses water loops to add the zoning capabilities of variable refrigerant flow to a variety of applications.
- Variable Evaporating Temperature: The Variable Evaporating Temperature (VET) feature automatically adjusts the target evaporation temperature based on load, which saves energy.
- Leak Mitigation Fan: The built-in leak mitigation fan activates if a refrigerant leak is detected, improving safety and compliance.
- Water-Side Heat Exchanger Design: The water-side heat exchanger design improves unit efficiency and reduces clogging risk.

SPECIFICATIONS			SYSTEM
UNIT TYPE			PQRY-M144YXU-A
Cooling Capacity (Nominal)	Cooling Capacity (Nominal)	Btu/h	144000
Heating Capacity (Nominal)	Heating Capacity (Nominal)	Btu/h	160000
Operating Tempature Range	Cooling (Indoor)	°FDB ~ °FDB [°CDB ~ °CDB]	59 ~ 75 [15 ~ 24]
	Heating (Indoor)	°FWB ~ °FWB [°CWB ~ °CWB]	59 ~ 81 [15 ~ 27]
Operating Water Temperature Range	Cooling/Heating[1]	F ~ F [C ~ C]	50 ~ 113 [10 ~ 45]
External Dimensions (H x W x D)	External Dimensions (H x W x D)	inch x inch x inch [mm x mm x mm]	57-3/32 x 34-5/8 x 21-21/32 [1450 x 880 x 550]
Net Weight	Net Weight	lbs [kg]	524.70 [238]
External Finish	External Finish		MUNSELL 5Y 8/1
Electrical Power Requirements		V AC , ø , Hz	460 , 3 , 60
Minimum Circuit Ampacity	Minimum Circuit Ampacity**	AWG	19
Maximum Overcurrent Protection	Maximum Overcurrent Protection**	MOP	30
SCCR	SCCR	kA	5
Flow Rate	Flow Rate	GPM [L/min]	31.70 [120]
Pressure Drop	Pressure Drop	psi [ft]	6.38 [14.72]
Operation Volume Range	Operation Volume Range	GPM ~ GPM [m3/h ~ m3/h]	19.80 ~ 50.90 [4.50 ~ 11.60]
Refrigerant Piping Diameter (From Twinning Kit to First Joint or Header)	Liquid (High Pressure)	inch [mm]	7/8 [22.2]
	Gas (Low Pressure)	inch [mm]	1-1/8 [28.58]
Max. Total Refrigerant Line Length	Max. Total Refrigerant Line Length	ft [m]	2460 [750]
Max. Refrigerant Line Length (Between ODU & IDU)	Max. Refrigerant Line Length (Between ODU & IDU)	ft [m]	541.34 [165]
Max. Control Wiring Length	Max. Control Wiring Length	ft [m]	656.17 [200]
Indoor Unit Connectable	Total Capacity		216,000
	Model/Quantity		M04 ~ M96 / 29
Sound Power Levels	Sound Power Levels	dB(A)	68
Compressor	Type x Quantity		Scroll x 1
Compressor Motor Output	Compressor Motor Output	kW	8
Refrigerant	Pre-charged Refrigerant Amount	lbs , oz [kg]	9 , 14.7 [4.50]
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp.)		Over-heat protection, Over-current protection
AHRI Ratings (Ducted/Non-ducted)	EER		13.10 / 14.40
	IEER		20.10 / 25.30
	COP		5.58 / 6.34
	SCHE		20.10 / 20.10

Notes

[1]23°F EWT (Entering water temperature) is possible with glycol.

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OUTDOOR UNIT ACCESSORIES: PQRY-M144YXU-A

Branch Pipe (Joint)	Total down-stream Indoor capacity from 73,000 to 144,000 Btu/h	☐ CMY-Y102LS-G2R1
	Total down-stream Indoor capacity less than 72,000 Btu/h	☐ CMY-Y102SS-G2R1
Control Wire	M-Net Control Wire - 1,000 Foot Roll	☐ CW162S-1000
	M-Net Control Wire - 250 Foot Roll	☐ CW162S-250
EPIV Valve	1.5" EPIV Valve w/Shared Logic Module	☐ EV150NRXEMEV
	1.5" BELIMO Insertion Temp Sensor	☐ ZM-TW150NPT KIT
Notes		

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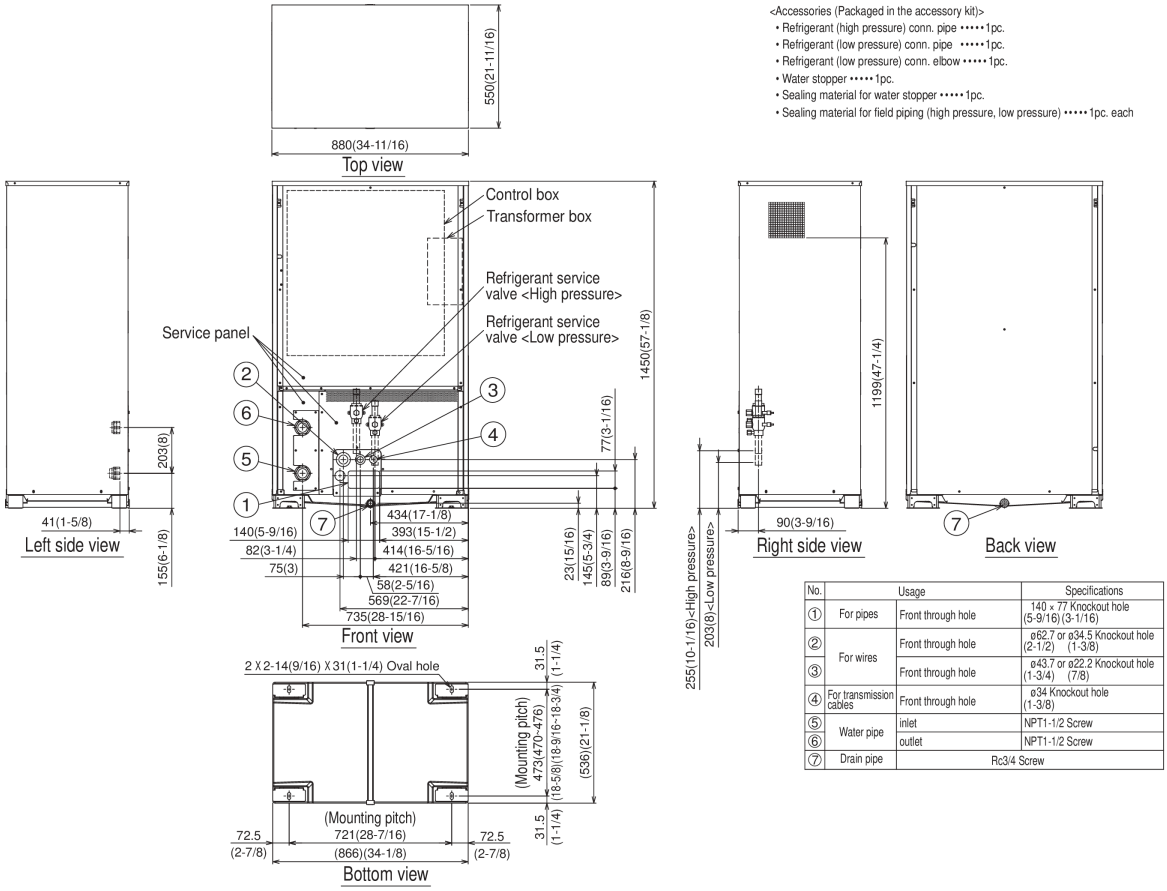
OUTDOOR UNIT DIMENSIONS: PQRY-M144YXU-A

PQRY-M72, 96, 120, 144, 168, 192, 216, 240YXU-A



<Accessories (Packaged in the accessory kit)>
- Refrigerant (high pressure) conn. pipe •••••1pc.
- Refrigerant (low pressure) conn. pipe •••••1pc.
- Refrigerant (low pressure) conn. elbow •••••1pc.
- Water stopper •••••1pc.
- Sealing material for water stopper •••••1pc.
- Sealing material for field piping (high pressure, low pressure) •••••1pc. each

No.	Usage		Specifications
①	For pipes	Front through hole	140 × 77 Knockout hole (5-9/16)(3-1/16)
②	For wires	Front through hole	ø62.7 or ø34.5 Knockout hole (2-1/2) (1-3/8)
③		Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
④	For transmission cables	Front through hole	ø34 Knockout hole (1-3/8)
⑤	Water pipe	inlet	NPT1-1/2 Screw
⑥		outlet	NPT1-1/2 Screw
⑦	Drain pipe	Rc3/4 Screw	

Unit: mm(in)

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AHRI CERTIFIED® www.ahridirectory.org Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230
TÜVRheinland C US

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