

FUNCTION

Item	Description	Operations	Display
ON/OFF	Runs and stops the operation of a group of units	○	○
Operation mode switching	Switches between Hot Water / Heating / Heating ECO / Anti-freeze / Cooling * Available operation modes vary depending on the unit to be connected. * Switching limit setting can be made via a remote controller.	○	○
Water temperature setting	Temperature can be set within the ranges below. (in increments of 1°C or 1°F) Hot Water } 30 / 35 / 40 / 45°C min. ~ 30 ~ 70°C Heating } (in increments of 1°C or 2°F) Heating ECO } Temperature within the following range can be set depending on the outside air temperature. 30°C min. ~ 50°C max. Anti-freeze } 10°C min. ~ 45°C max. (in increments of 5°C or 10°F) Cooling } 5°C min. ~ 30°C max. (in increments of 5°C or 10°F) * The settable range varies depending on the unit to be connected.	○	○
Preset temperature range limit	Preset temperature range setting can be limited via a remote controller. 10°C min. ~ 90°C max.	○	○
Water temperature display	(in increments of 1°C or 1°F) * The settable range varies depending on the unit to be connected.	×	○
Permit / Prohibit local operation	Individually prohibits operations of each local remote control function :ON/OFF, Operation modes, water temperature setting, Circulating water replacement warning reset. * Upper level controller may not be connected depending on the unit to be connected.	×	○
Weekly scheduler	ON / OFF / Water temperature setting can be done up to 6 times one day in the week. (in increments of a minute)	○	○
Error	When an error is currently occurring on a unit, the afflicted unit and the error code are displayed.	×	○
Self check (Error history)	Searches the latest error history by pressing the CHECK button twice.	○	○
Test run	Enables the Test run mode by pressing the TEST button twice. * Test run mode is not available depending on the unit to be connected.	○	○
Circulating water replacement warning	Displays the circulating water replacement warning via the unit message. Clears the display by pressing the CIR.WATER button twice. * Circulating water replacement warning is not available depending on the unit to be connected.	○	○
LANGUAGE setting	The language on the dot matrix LCD can be changed. (Seven languages) English/German/Spanish/Russian/Italian/French/Swedish	○	○
Operation locking function	Remote controller operation can be locked or unlocked. -All-switch locking -Locking except ON/OFF switch	○	○

HOT WATER SUPPLY

AIR TO WATER



FM 33568 / ISO 9001;2000

The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality, management for the production of refrigeration and air conditioning equipment.

ISO Authorization System
The ISO 9000 series is a plant authorization system relating to quality management as stipulated by the ISO. ISO 9001 certifies quality management based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



Certificate Number EC97J1227

The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

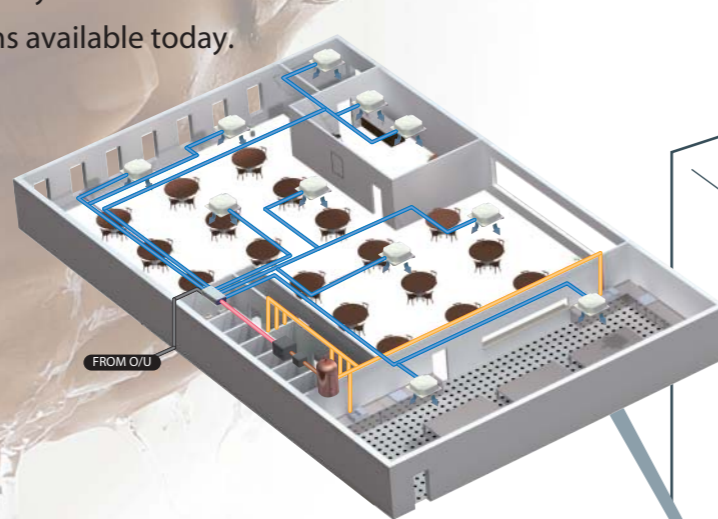


HOT WATER SUPPLY (HWS)

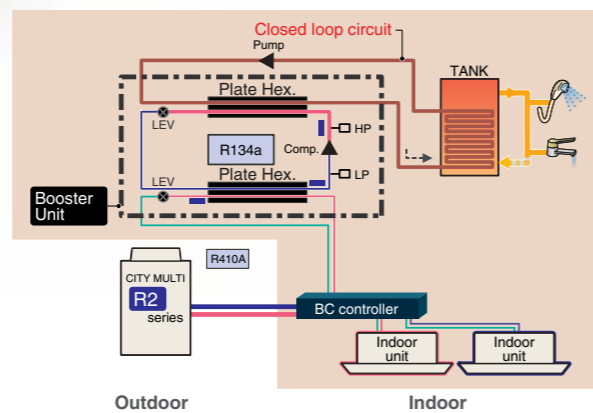
Efficient and technologically advanced HWS takes advantage of a proven heat recovery technology to provide hot water for sanitary use and is one of the most advanced, efficient hot water systems available today.

TECHNOLOGY

Benefiting from heat recovery operation of CITY MULTI R2 system, HWS converts energy from the air to higher temperatures suitable for heating water and results in virtually no energy waste.



Hot Water Supply (Booster Unit) for R2



HIGH EFFICIENCY

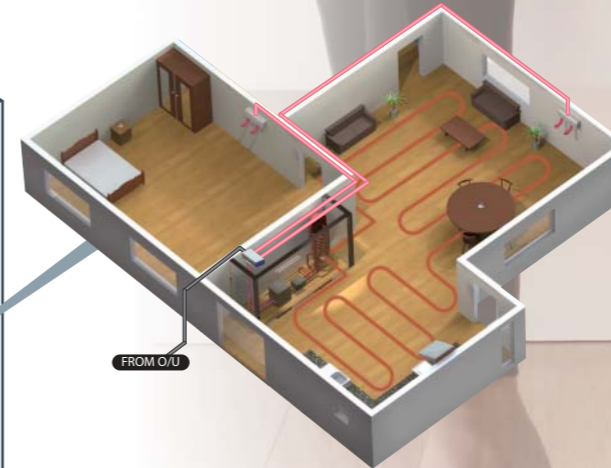
Capable to air condition and supply hot water in a single system, HWS is ideal for use in a variety of applications. From hotels, restaurants to gyms, it works perfectly to providing optimum air environment and hot water of 70°C at the highest.

AIR TO WATER (ATW)

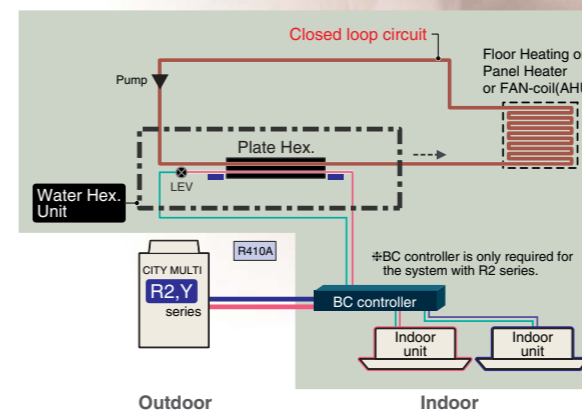
With a high COP output achieved, the MITSUBISHI ELECTRIC ATW system provides a greater level of comfort, lower CO2 emissions and reduced running costs.

TECHNOLOGY

ATW works perfectly to provide heating and cooling to fan coil units, panel heaters, or under floor heating systems. It advantages from high-efficient operation of our CITY MULTI and heat recovery operation when used with R2 system.



Air to Water (Water Hex. Unit) for Y/R2



FEATURES

ATW offers 45°C in heating and down to 5°C in cooling suitable for residence, offices or hotels providing an optimal environment while benefiting from reduced running costs and lessening the impact on our environment.

Model		PWFY-P100VM-E-BU	
Power source		1-phase 220-230-240V 50/60Hz	
Heating capacity (Nominal)	kW	12.5	
	kcal / h	10,800	
	Btu / h	42,700	
Power input	kW	2.48	
	A	11.63 - 11.12 - 10.66	
Temp. range of heating	Outdoor temp. W.B	-20~32°C (59~90°F)	
	Inlet Water temp.	10~70°C (50~158°F)	
Connectable outdoor unit		50~100% of outdoor unit capacity	
Model / Quantity		PURY-(E)P-Y(S)HM-A-(BS)	
Noise level (measured in anechoic room)		44	
Diameter of refrigerant pipe	Liquid	ø9.52 (ø3/8") Brazed	
	Gas	ø15.88 (ø5/8") Brazed	
Diameter of water pipe	Inlet	ø19.05 (R3/4") Screw	
	Outlet	ø19.05 (Rc3/4") Screw	
Field drain pipe size		ø32(1-1/4")	
External finish		Acrylic painted steel plate	
External dimension H × W × D		800 (785 without legs) × 450 × 300	
Net weight		31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"	
Type		64 (144)	
Compressor	Type	Inverter rotary hermetic compressor	
	Manufacturer	MITSUBISHI ELECTRIC CORPORATION	
	Starting method	Inverter	
	Motor output	1.0	
	Lubricant	NEO22	
Circulating water	Operation volume Range	m³/h	
		0.6 - 2.15	
Protection on Internal circuit (R134a)	High pressure protection	High pressure sensor, High pressure switch at 3.60 MPa (601 psi)	
	Inverter circuit (COMP)	Over-heat protection, Over-current protection	
	Compressor	Discharge thermo protection, Over-current protection	
Refrigerant	Type X original charge	R134a x1.1kg (0.50lb)	
	Control	LEV	
Design pressure	R410a	4.15	
	R134a	3.60	
	Water	1.00	
Standard attachment		Accessory	
Optional parts		Strainer	
Remark		NONE	
Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
<p>Note:</p> <p>*1 Nominal heating conditions Outdoor Temp.: 7°CDB/6°CWB (45°FDB / 43°FWB) pipe length: 7.5 m (24-9/16 ft) Level difference: 0m (0ft) Inlet water Temp 65°C Water flow rate 2.15m³/h</p>			

Model		PWFY-P100VM-E-AU		PWFY-P200VM-E-AU	
Power source		1-phase 220-230-240V 50/60Hz		1-phase 220-230-240V 50/60Hz	
Heating capacity (Nominal)	kW	12.5		25.0	
	kcal / h	10,800		21,500	
	Btu / h	42,700		85,300	
Power input	kW	0.015		0.015	
	A	0.068 - 0.065 - 0.063		0.068 - 0.065 - 0.063	
Temp. range of heating	Outdoor temp. W.B	-20~32°C (-4~90°F) PURY - series		-20~32°C (-4~90°F) PURY - series	
	Inlet Water temp.	-20~-15.5°C (-4~-60°F) PUHY - series		-20~-15.5°C (-4~-60°F) PUHY - series	
Connectable outdoor unit		50~100% of outdoor unit capacity		50~100% of outdoor unit capacity	
Model / Quantity		PURY-(E)P-Y(S)HM-A-(BS)		PURY-(E)P-Y(S)HM-A-(BS)	
Noise level (measured in anechoic room)		29		29	
Diameter of refrigerant pipe	Liquid	ø9.52 (ø3/8") Brazed		ø9.52 (ø3/8") Brazed	
	Gas	ø15.88 (ø5/8") Brazed		ø19.05 (ø3/4") Brazed	
Diameter of water pipe	Inlet	ø19.05 (R3/4") Screw		ø19.05 (R3/4") Screw	
	Outlet	ø19.05 (Rc3/4") Screw		ø19.05 (Rc3/4") Screw	
Field drain pipe size		ø32(1-1/4")		ø32(1-1/4")	
External finish		Acrylic painted steel plate		Acrylic painted steel plate	
External dimension H × W × D		800 (785 without legs) × 450 × 300		800 (785 without legs) × 450 × 300	
Net weight		31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"		31-1/2" (30-15/16" without legs) × 17-3/4" × 11-13/16"	
Type		39 (86)		42(93)	
Circulating water	Operation Volume Range	m³/h		1.2 ~ 4.30	
		0.6 - 2.15			
Design pressure	R410a	4.15		4.15	
	Water	1.00		1.00	
Standard attachment		Accessory		Strainer	
Optional parts		NONE		NONE	
Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.					
<p>Note:</p> <p>*1 Nominal heating conditions Outdoor Temp.: 7°CDB/6°CWB (45°FDB / 43°FWB) pipe length: 7.5 m (24-9/16 ft) Level difference: 0m (0ft) Inlet water Temp 30°C Water flow rate 2.15m³/h</p> <p>*2 Nominal cooling conditions Outdoor Temp.: 35°CDB (95°FDB) pipe length: 7.5 m (24-9/16 ft) Level difference: 0m (0ft) Inlet water Temp 23°C Water flow rate 1.93m³/h</p> <p>*3 Nominal heating conditions Outdoor Temp.: 7°CDB/6°CWB (45°FDB / 43°FWB) pipe length: 7.5 m (24-9/16 ft) Level difference: 0m (0ft) Inlet water Temp 30°C Water flow rate 4.30m³/h</p> <p>*4 Nominal cooling conditions Outdoor Temp.: 35°CDB (95°FDB) pipe length: 7.5 m (24-9/16 ft) Level difference: 0m (0ft) Inlet water Temp 23°C Water flow rate 3.86m³/h</p>					