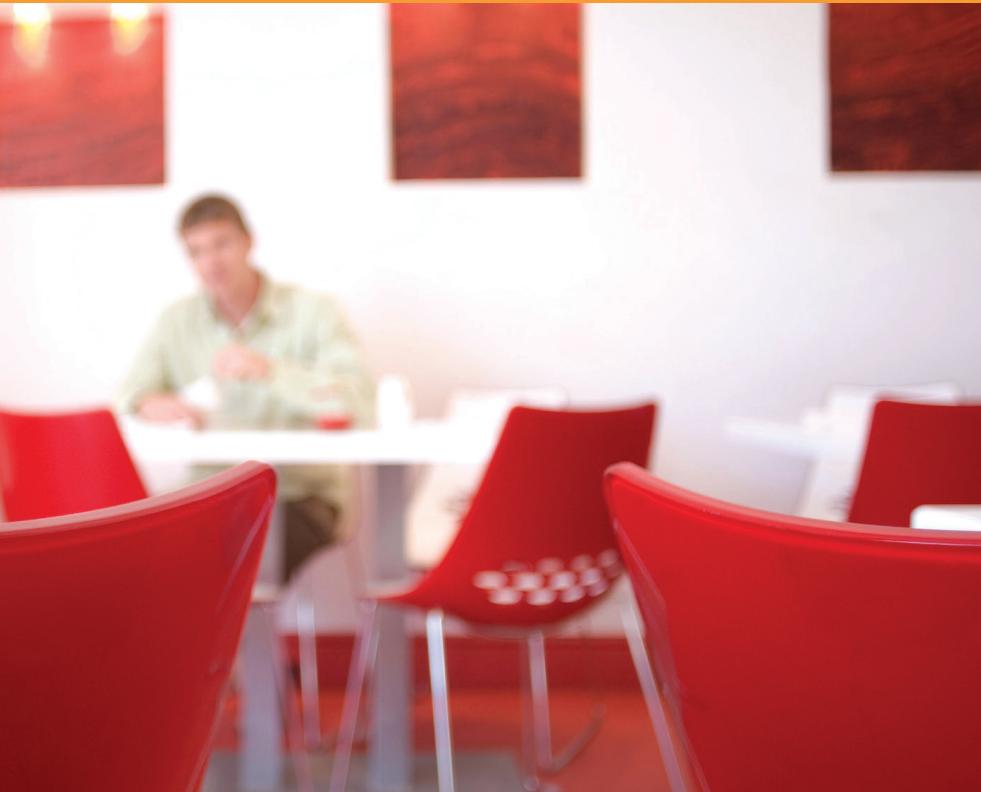


PWFY-P

Water Heating Units



The new VRF water heating units provide an energy efficient solution to commercial heating, cooling and hot water supply. **The unique booster unit can provide hot water at 70°C** utilising the most advanced and efficient VRF based system available to date. The high efficiency achieved enables a significant reduction in running cost and CO₂ emissions.



Technical Information >

PWFY-P100VM-E-BU

The new Mitsubishi Electric booster unit can achieve a flow temperature of **70°C** and is an ideal solution for providing a hot water supply to commercial buildings in an energy efficient manner.

Heat pump technology works by extracting heat from the air and upgrading it to heat a building. This process in itself is energy efficient, however we can take this a step further by using heat recovery. Heat recovery technology taps into and utilises otherwise wasted heat energy, extracted from areas of a building that require cooling, providing heating for hot water almost for free. Recovering the heat in this manner maximises the efficiency of the system all year round, therefore increasing energy savings and lowering running costs.

Taking full advantage of heat recovery technology, the 12.5kW PWFY booster unit upgrades the heat pump energy to higher temperatures required to achieve 70°C water temperatures. This is possible using the first ever VRF cascade refrigeration system between R410A and R134a refrigerant.

The benefit of having air conditioning as well as a hot water supply from a single system means that the unit is suitable for a variety of applications. Offices, hotels, gyms, restaurants etc are typical examples of buildings that already have an air conditioning system in place. Providing the essential hot water supply to these applications is a simple addition of the booster unit to the existing air conditioning system. It is a perfect solution that allows inconveniences that arise when installing gas boilers such as gas grid connection costs, meter installation and maintenance costs to be eliminated. Not to mention the reduction in running costs and carbon emissions due to the high efficiency of these units over gas boilers.



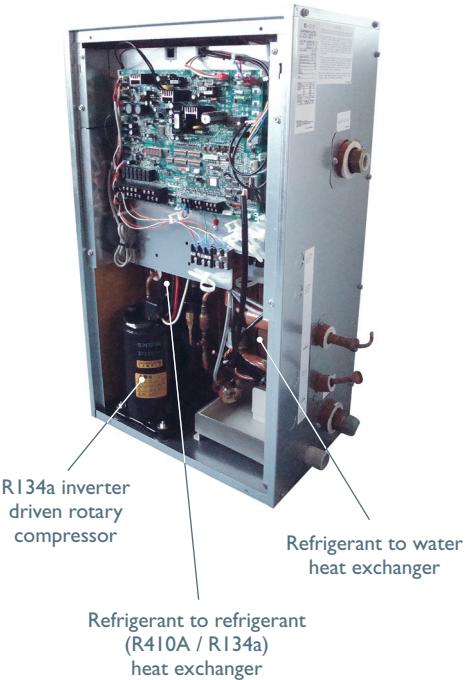
PWFY-P100/200VM-E-AU

The new Mitsubishi Electric air to water heating unit can achieve flow temperatures of **45°C** in heating and **5°C** in cooling, making it perfect for application on underfloor heating/cooling systems.

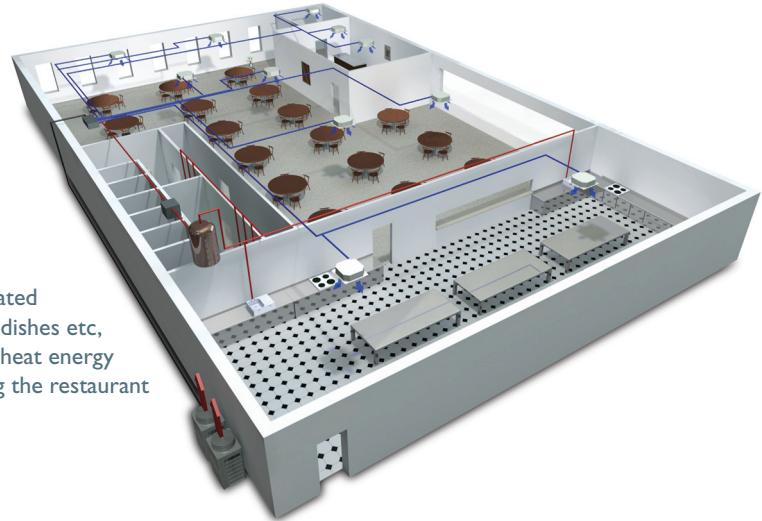
Using heat pump technology both the 12.5kW and 25kW units are able to attain a high COP compared to an equivalent gas boiler; whilst providing an optimum level of comfort. However, the energy efficiency of these units is maximised when using the built-in flow temperature controller, which automatically varies the flow temperature depending on the outside temperature. This enables the output temperature to be reduced on milder winter days, substantially reducing running costs and CO₂ emissions and allowing the system to run at partial load.

The increased growth in the use of heat pumps for heating (and cooling) in the UK, portrays the positive attitude being adopted to reduce carbon emissions and combat global warming.

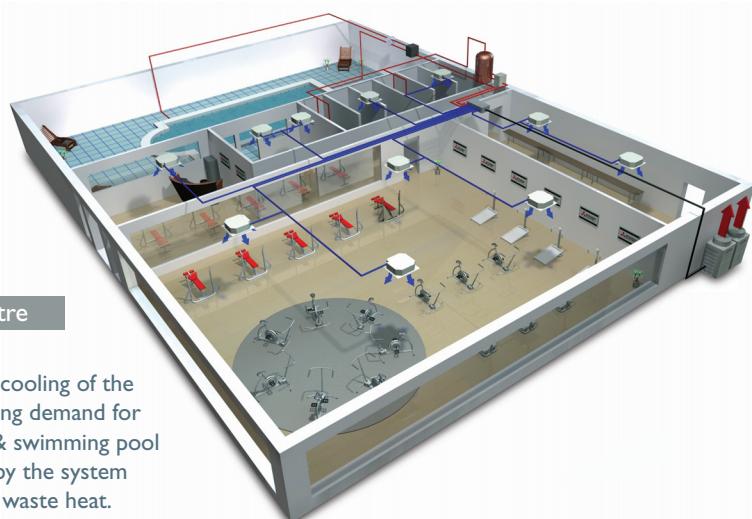
PWFY-P100VM-E-BU



Restaurant



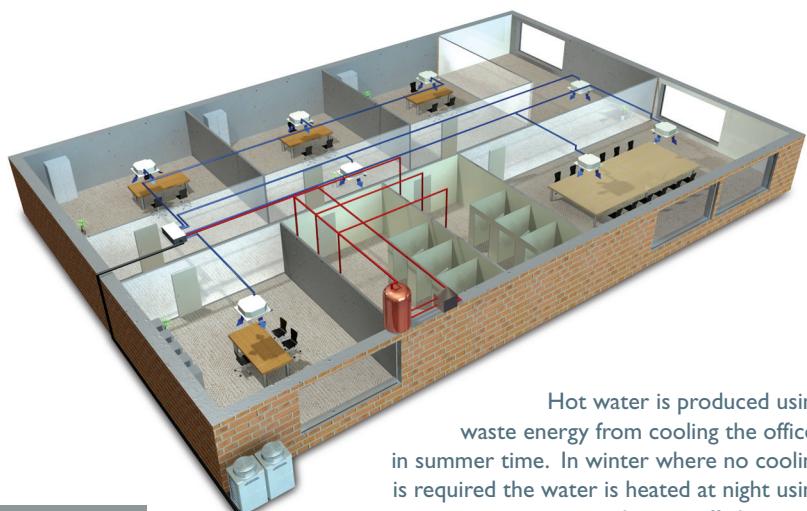
Leisure Centre



PWFY-P100/200VM-E-AU



Office



Technical Information

PWFY-P		PWFY-P100VM-E-BU	PWFY-P100VM-E-AU	PWFY-P200VM-E-AU
MODEL REFERENCE				
CAPACITY	Heating (nominal) Cooling (nominal)	12.5 -	12.5 11.2	25.0 22.4
POWER INPUT (kW)		2.48	0.015	0.015
COMPATIBLE OUTDOOR UNITS		PURY-(E)P-Y(S)HM-A	PU(H)(R)Y-(E)P-Y(S)HM-A	PU(H)(R)Y-(E)P-Y(S)HM-A
REFRIGERANT CHARGE (kg) High Temp Circuit		1.1 (R134a)	-	-
PIPE SIZE (mm) (in)	Gas Liquid Water Drain	15.88 (5/8") 9.52 (3/8") 19.05 (3/4") ø32 (1 1/4")	15.88 (5/8") 9.52 (3/8") 19.05 (3/4") ø32 (1 1/4")	19.05 (3/4") 9.52 (3/8") 19.05 (3/4") ø32 (1 1/4")
NOISE (dBA)		44	29	29
WEIGHT (kg)		60	35	38
DIMENSIONS (mm)	Width Depth Height	450 300 785 (800)	450 300 785 (800)	450 300 785 (800)
ELECTRICAL SUPPLY		220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz
PHASE		Single	Single	Single
RUNNING CURRENT (A)		10.66	0.063	0.063
FUSE RATING (BS88) - HRC (A)		25	6	6
MAINS CABLE No. CORES		3	3	3
WATER FLOW RATE m³/h		0.6-2.15	0.6-2.15	1.2-4.3

Note: The PWFY-P200VM-E-AU will require 2 expansion joints



Changes for the Better

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