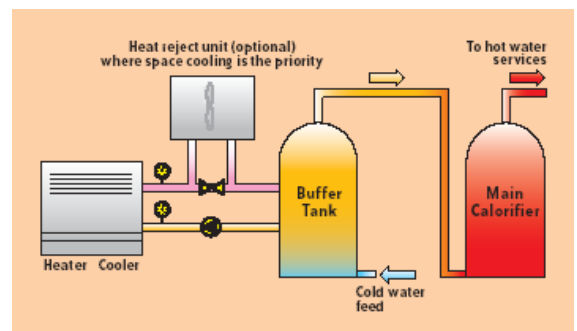


Hot Water from Warm Air



This Air to Water Heat Pump (AWHP) is a variation of the AC units common in offices. However, it has been designed as a compact wall mounted air cooling unit designed for use in beer cellars, produce storage, commercial kitchens and hot plant rooms for space cooling whilst performing a heat recovery function for hot water production. The air collected from a hot, steamy area is conditioned and blown back into the space whilst the energy gathered is upgraded through the heat pump cycle and used to heat a stored capacity of hot water for use in on the premises. Idea for facilities such a pubs, hotels, restaurants and places where warm, humid air needs to be cooled whilst a quantity of hot water is required to be produced.

The control system is based on providing cooling for the space so the machine requires a 'heat sink'. Should the demand for hot water fall and the tank temperature reach set point the machine will switch off, therefore systems are designed such that the condenser coil from the AWHP serves as a pre-heat coil in a buffer tank that feeds the main storage tank. However, a heat reject condenser is available as an option, if required.



There are 2 wall mounted models with the following features:
 Nominal cooling capacities of 2.5kW and 4.5kW
 Environmentally friendly R134A refrigerant Air Cooling down to 7°C
 Cu/Ni heat exchangers for use with potable water
 No Refrig. expertise required for Installation
 Hot gas defrost option down to -5°C
 Simple installation on wall brackets
 Operate from single phase power supply



BEER CELLAR COOLING			
	Above Ground	Below Ground	Litres
Model 250 SC	60m ³	80m ³	1700
Model 450 SC	90m ³	116m ³	2640
HEAT RECOVERY			
2400 Litres @ 30 °C ambient			
3300 Litres @ 30 °C ambient			

GUIDE LINE SIZING* SIZE OF CELLAR COOLED TO 10°C MAXIMUM HOT WATER OUTPUT/DAY

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