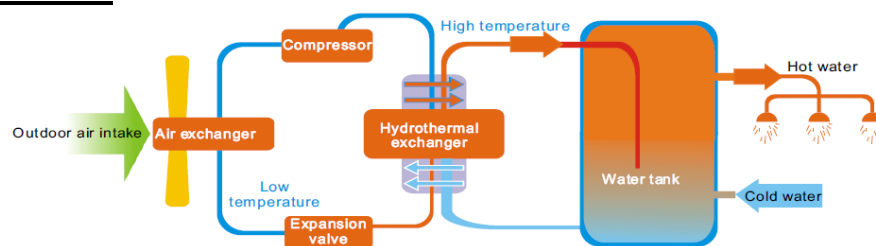




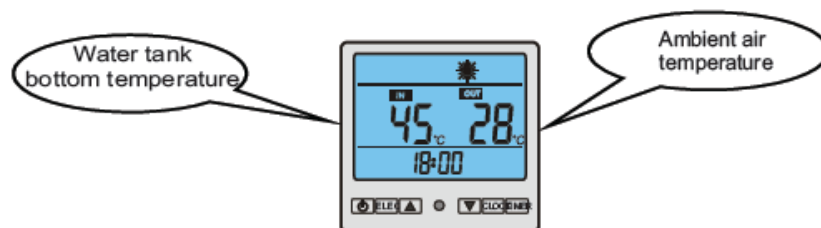
Product information

- Gentle cycle heating method, easy on your storage tank for longer life
- Stainless steel and vitreous enamel storage tank options
- Best quality Grundfos water circulating pump
- Best quality rotary Mitsubishi compressor, 1 horsepower, 3.5kW
- Large wrap around evaporator for effective sub-zero air performance
- Excellent extreme heat performance up to 45 deg C, cool running
- Self-diagnostic controller and in-built refrigerant pressure gauge
- Commonly available, non-flammable ozone friendly R134a refrigerant
- Vertical fan for placement in tight spaces
- Low noise fan

Functional schematic

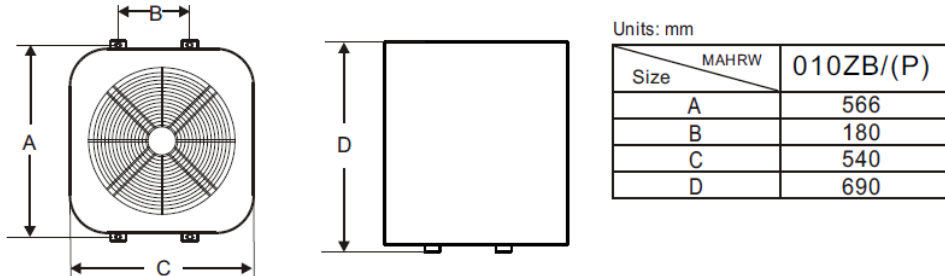


Functional Display



Heat Pump Dimensions

Appearance and Mounting Dimensions

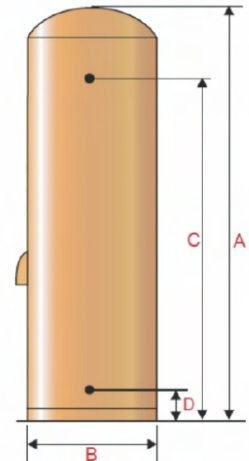


Storage Tank Dimensions

4. Storage Tank Specifications

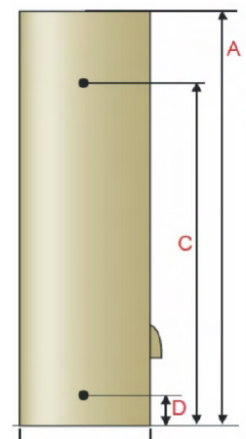
4.1 Stainless Steel Storage Tank Models

Model		MAHRW010ZB-250SS	MAHRW010ZB-315SS
Capacity	Litres	264	327
A Height	mm	1620	1980
B Diameter	mm	580	580
C Hot Water Outlet	mm	1136	1491
D Cold Water Inlet	mm	168	186
Dry Weight	Kg	62	73
Inlet Water Pressure	kPa	500	
PTR Valve (supplied)	kPa	850	
Cold Water Expansion Valve	kPa	700	
Water Connections		20mm, 3/4 inch BSP	
Material Type		Stainless steel (316 marine grade)	



4.2 Glass Lined / Vitreous Enamel Storage Tank Models

Model		MAHRW010ZB-250VEO	MAHRW010ZB-315VEO
Capacity	Litres	270	340
A Height	mm	1388	1700
B Diameter	mm	648	648
C Hot Water Outlet	mm	1167	1464
D Cold Water Inlet	mm	74	74
Dry Weight	Kg	75	90
Inlet Water Pressure	kPa	500	
PTR Valve (supplied)	kPa	850	
Cold Water Expansion Valve	kPa	700	
Water Connections		20mm, 3/4 inch BSP	
Material Type		Vitreous Enamel / Glass Lined Steel	



Installation Considerations (To be read in conjunction with the Owner's manual)

Clearance of unit from wall

The heat pump can sit as close as 75mm to the wall provided that the controller, refrigerant pressure gauge and circuit panel on the casing corner is visible and accessible.

Installation components of the heat pump

The heat pump comes with 15 Amp outlet plug and sensor probe to be connected plus rubber feet to be fitted under the metal feet of the heat pump. The wiring diagram is found on the inside of the metal cover of the circuit panel. The electronic components are easily accessed by technicians by undoing the 8 screws and sliding the corner panel down.

PLEASE NOTE: Purging the air in the water line

IT IS ESSENTIAL FOR AIR IN THE WATER LINE TO BE PURGED COMPLETELY FOR THE HEAT EXCHANGER TO OPERATE.

Ensure all air is purged from the water lines by running the hot water tap in the kitchen or laundry sink whilst the heat pump is first turned on. If access to the house is unavailable, you can access the Grundfos water circulating pump underneath the cover plate at the base of the heat pump casing, and open the middle screw to purge the air. **Failure to do this will result in an error message.**



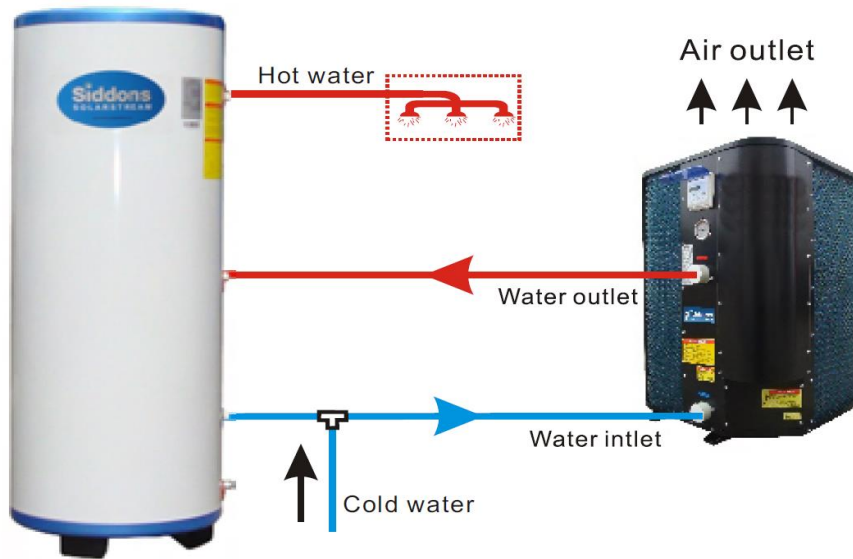
Size of plinth/concrete base pad: 600mm x 600mm minimum

Use a plinth or concrete base pad measuring 600mm x 600mm minimum in accordance with Australian Standard AS/NZS3500.4 to properly support the Solarstream hot water storage tank and a second 600mm x 600mm minimum concrete base to support the heat pump. This should be angled slightly (1-2 degrees) down from the controller side to allow condensate water to easily flow to the drain hole at the back of the heat pump base. **Refer to the Owner's Manual for details.**

Heat Pump Specifications

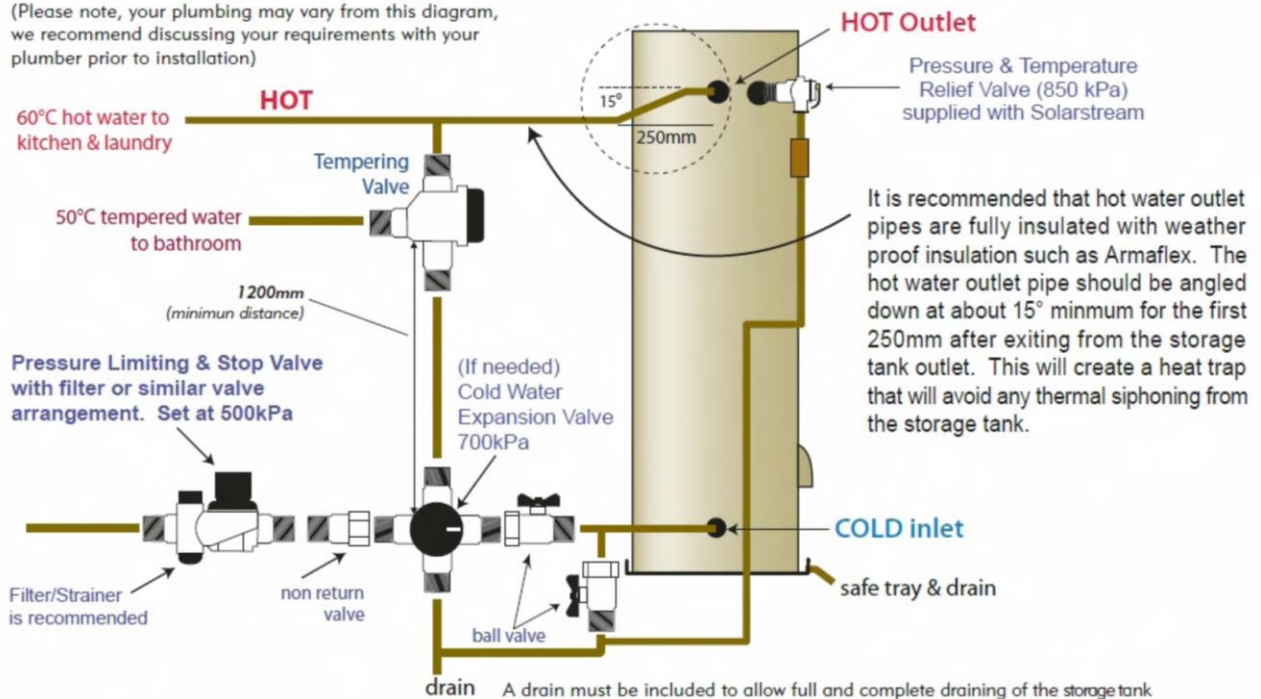
Model Number	MAHRW010ZB/P	
Rated Heating Capacity (1)	KW	3.5
Rated Input Power (1)	KW	0.97
Rated Input Current (1)	A	4.4
Rated COP (1)	W/W	3.6
Rated Heating Capacity (2)	KW	2.8
Rated Input Power (2)	KW	0.84
Rated Input Current (2)	A	3.8
Rated COP (2)	W/W	3.3
Hot Water Recovery Rate (average)	L/h	75
Maximum input current	A	6.6
Power Supply	V/PH/Hz	220/1/50
Maximum water inlet temperature	deg C	55
Maximum water outlet temperature	deg C	60
Noise	dB(A)	48
Compressor type	Rotary	
Water Outlet/Water Inlet	Inch	3/4
Water Flow Volume	m ³ /h	0.6
Refrigerant type	R134A	
Heat Pump Dimensions (L/M/H)	mm	590/540/690
Shipping Dimensions (L/M/H)	mm	640/590/725
Heat Pump Weight	kg	55
Shipping Weight	kg	60

Typical Installation schematic



EXAMPLE OF TYPICAL MAINS PRESSURE HOT WATER SYSTEM INSTALLATION

(Please note, your plumbing may vary from this diagram, we recommend discussing your requirements with your plumber prior to installation)



WARNING

A Pressure Limiting and Stop Valve with filter must be set at 500kPa. Failure to install this will void your tank warranty.