

AMX Series — Storage Tank Technical Data



TYPE – An indirect, open vented, storage water tank designed to be heated by a remote heat source. It is authorised to Australian Standard AS3498.

HOW IT WORKS – The AMX Series is an indirect storage hot or warm water heat exchange system that is heated by a remote heat source. The water in the storage tank is treated with a tannin-based inhibitor.

The storage tank is open-vented to atmosphere, by means of an expansion tank.

The treated water is heated by a pump circulating it through the remote heat source unit the thermostat sensor on the storage tank is satisfied, and therefore switches the circulating pump to the heat source off.

Located within the storage tank is a copper heat exchanger coil that contains potable, consumable water. As water is drawn through the coil, it is heated by the neutral water.

STORAGE TANK – Is constructed from mild steel designed to withstand high water temperatures of up to 99°C on a continual basis. No anode or artificial lining is required to prevent corrosion. All welding is in accordance with Quality System procedures and standards.

CENTRAL HEATING – The treated water circuit can also be used for heating applications, up to 400kPa.

INSULATION – High-density fibreglass encases the storage tank for maximum efficiency.

CASING – Is constructed of durable, Colorbond® for protection against the weather.

FLUING – Any heater connected to the AMX storage tank must comply with Australian Standard AS5601 and any relevant local regulations.

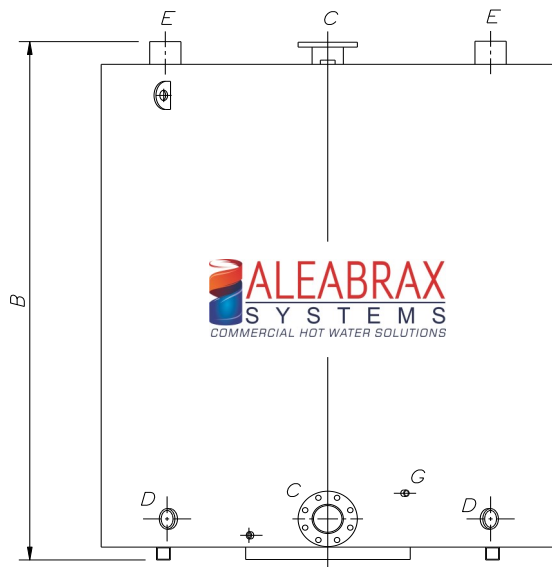
HEAT EXCHANGER – Is constructed of multi-start windings of Ø12.7mm Type B copper tube. Large inlet/outlet headers ensures full mains pressure water flow (Maximum inlet pressure 960kPa, Maximum operating pressure 1200kPa).

COLD WATER PLUMBING – The minimum valving required prior to the heater is a stopcock, non-return valve, and a cold water expansion control valve set at 1200kPa. A line strainer is recommended.

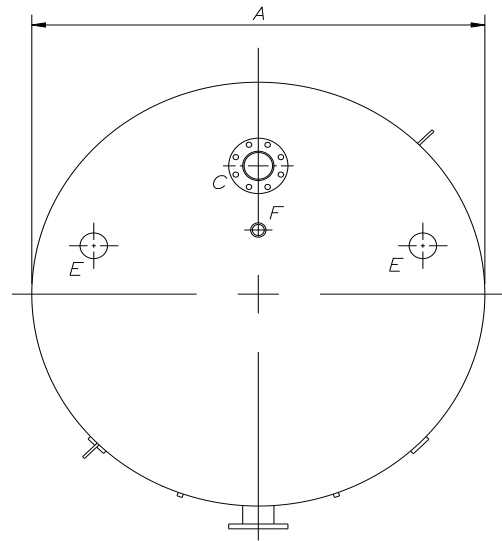
CONTROLS – To provide either warm or hot water (38-82°), the AMX tank is connected to an electronic control box to suit the application. The Aleabrax ABCT-CB control box contains the accurate thermostat controls necessary for safe operation.

REMOTE HEAT SOURCE – The AMX series Is designed to be used in conjunction with a remote heat source such as a continuous flow gas water heater, Aleabrax DVX heavy duty appliance or a renewable energy source such as solar thermal or commercial heat pump.

DIMENSIONS



FRONT VIEW



TOP VIEW

SPECIFICATIONS

		AMX 180	AMX 300	AMX 420	AMX 600
Diameter of unit - A	mm	1112	1362	1654	2016
Height of unit - B	mm	2030	2030	2030	2030
Process Flow/Return - C	Tab E Flange	Ø65	Ø80	Ø100	Ø100
Burner Flow/Return socket - D	mm	65 BSP	80 BSP	80 BSP	100 BSP
Coil Flow/Return - E	mm	Ø 50 copper	Ø 65 copper	Ø 100 copper	Ø 100 copper
Expansion Line BSP Socket - F	mm	25 BSP socket	40 BSP socket	50 BSP socket	50 BSP socket
Max. Input (warm/hot)	kW	251/628	419/1047	732/1320	732/1320
Flow Rate (l/min) Peak	w arm	150	250	350	500
	hot	180	300	420	600
Coil Pressure Drop	kPa	33	33	33	33
Coil Surface Area	sq.m	12	20	28	40
Max. Tank/Coil Working Pressure	kPa	400/1200	400/1200	400/1200	400/1200
Storage Capacity	Litres	1413	2209	3350	5100
Max. No. of Solar Panels - if used for preheating	w arm	8	10	16	20
	hot	14	24	36	60
Weight (kg)	Dry	525	1012	1486	2124
	Wet	1939	3221	4836	7224

Tanks may be connected in parallel for greater versatility or output

NOTE: all outputs from heaters are based on an inlet temperature of 15°C



WM 74734

AS/NZS3498

Care has been taken to ensure that all information is as accurate as possible at the time of publication. However, specifications, methods and figures are subject to change without prior notice.

For more information visit:

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