ALEABRAX SYSTEMS

COMMERCIAL HOT WATER SOLUTIONS

Locally Manufactured

Water Heating Equipment

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WESTERN AUSTRALIAN OWNED

Aleabrax Systems is an Australian owned manufacturing company that provides heavy duty hot water and heating equipment to the commercial market, through an Australia-wide specialist network.

Aleabrax's heat exchange tanks are designed and built in accordance with Australian design, manufacturing and quality standards. They are designed to work harder, longer and faster to provide peace of mind for the client.

The Aleabrax portfolio utilises market leading technologies to provide customisable, modular, energy efficient solutions for commercial water heating applications.

Aleabrax Condensing Boiler Range

The Aleabrax range of type A condensing boilers utilise market leading technologies providing net efficiencies in excess of 108%. These boilers achieve the high efficiencies by recovering the latent heat from water vapour produced during the combustion process.

Available as 50kw or 100kw modules with up to 1:20 modulation, they provide unrivalled flexibility and performance from a small footprint. The individual modules are simply connected by means of hydraulic manifolds for the gas and flow & return connections.

The Forza range features integrated pump/s with PWM control which works in conjunction with the PCB, fan and burner to control the ΔT and maximise efficiency.

With multiple installation options for internal & external applications, the Forza series is the perfect solution for purposes such as underfloor heating, pool/spa heating, HVAC applications and DHW via an Aleabrax heat exchange tank.

Offering reduced energy consumption and lower gas load, condensing technology provides benefits to specifiers, contractors, facility managers and end users.

FEATURES

Condensing technology

Type A Appliance

Stainless steel heat exchanger (AISI 304L)

Net efficiencies >108%

Market leading modulating range (1 : 20)

Modular packages cascadeable up to 800kw

Integrated primary pump/s and hydraulic manifolds

Dual hydraulic circuit (100kw)

Cascade regulation & sequencing. Modbus RS485

Webvisor accessory for remote supervision of heating plant

Suitable for a 600mm plinth

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Aleabrax Systems locally manufacture heat exchange tanks suitable for commercial water heating applications. The tanks are open vented, by means of expansion tank.

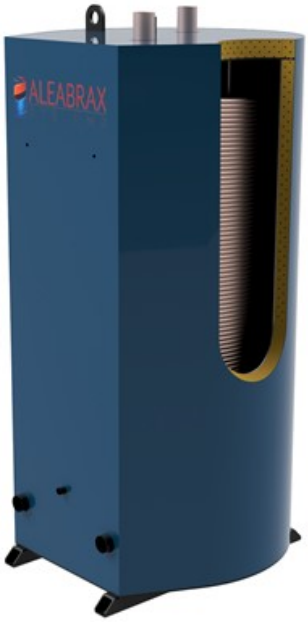
Separation of the low pressure primary circuit to the mains pressure DHW circuit provides a system under low thermal stress, suitable for use in varying water quality conditions.

Potable water is supplied from the mains pressure coil (operating up to 1,200kpa) providing the highest level of hygiene for the domestic hot water supply.

Modular in design, the Aleabrax heat exchange tanks can be manifolded to meet the brief of any sized project.

Made in Western Australia

Aleabrax Thermal Store Heat Exchange Tanks



GFX / AMX - Indirect Fired Storage Unit

The GFX & AMX products are thermal store heat exchange tanks heated by a remote heat source (condensing gas, solar thermal, heat pump, geothermal etc).

The heat exchanger is constructed from multi-start windings of high-grade copper tube and the large headers provide peak flow rates of up to 600L/min with only 33kpa pressure loss.

The AMX range has the added benefit of connections for process heating applications (<400kpa). Available in four sizes with a neutral storage capacity of up to 5,100L, they are the perfect thermal storage solution for renewable energy sources.

With no stored water or points of stagnation within the system, the GFX & AMX products deliver safe, thermostatically controlled domestic hot water making them the ideal solution for health care, accommodation, commercial and community projects.

Approved by NSW Health as a warm water generator, they are able to provide DHW between 38 - 50°C without the need for a centralised mixing assembly or TMV's at point of use.

DVX - Gas/Oil Fired Heater

Available in two sizes, the DVX is a heavy duty indirect appliance fitted with a forced draft internal burner (gas or oil).

Constructed with 6mm mild steel, it is designed to provide domestic hot water up to 95°C and/or process heating from the same unit. With no anodes or artificial lining, the storage tank contains treated water which is heated by a thermostatically controlled forced draught gas or oil burner.

Compact in design and energy efficient, the DVX range is suitable for all commercial and industrial applications.

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		GFX 60	GFX 120	GFX 180	AMX 180	AMX 300	AMX 420	AMX 600		DVX 140	DVX 280
Width	mm	780	780	780	1112	1362	1654	2016		820	1390
Height	mm	1765	1765	1765	2030	2030	2030	2030		1960	1995
Process Flow/Return	Tab E Flange	-	-	-	Ø65	Ø80	Ø100	Ø100		65 BSP	80 BSP
Burner Flow/Return socket	mm	50 BSP	50 BSP	50 BSP	65 BSP	80 BSP	80 BSP	100 BSP		-	-
Coil Flow/Return - E	mm	Ø 50	Ø 50	Ø 50	Ø 50	Ø 65	Ø 100	Ø 100		Ø 50	Ø 50
Max. Input (warm/hot)	kW	208	419	628	251/628	419/1047	732/1320	732/1320		140	280
Peak Flow Rate (L/min)	hot	60	120	180	180	300	420	600		60	120
	warm	50	100	150	150	250	350	500		-	-
Coil Pressure Drop	kPa	33	33	33	33	33	33	33		35	35
Coil Surface Area	sq.m	4	8	12	12	20	28	40		4.8	9.6
Max. Tank/Coil Press	kPa	400/1200	400/1200	400/1200	400/1200	400/1200	400/1200	400/1200		100/1200	100/1200
Neutral Storage Capacity	Litres	610	610	610	1413	2209	3350	5100		480	1500
Weight (dry)	kg	200	230	272	525	1012	1486	2124		495	995

		Forza 50	Forza 100	Forza 150	Forza 200	Forza 250	Forza 300	Forza 350	Forza 400	A1K 50	AIK 100
Type		F/Standing	F/Standing	F/Standing	F/Standing	F/Standing	F/Standing	F/Standing	F/Standing	Wall Hung	Wall Hung
Heat Output Max, 50/30	kW	53.4	106.8	160.2	213.6	267	320.4	373.8	427.2	53.4	106.8
Gas Consumption	MJ/hr	198	396	594	792	990	1188	1386	1584	198	396
Eff 30% Pn - 50/30	%	108.83	108.83	108.83	108.83	108.83	108.83	108.83	108.83	108.83	108.83
Max. Operating Pressure	kPa	300	300	300	300	300	300	300	300	300	300
Flow & Return Connections	mm	40	40	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	DN100 PN6	32	40
Height	mm	1455	1455	1455	1455	1455	1455	1455	1455	640	640
Depth	mm	582	582	582	582	582	582	582	582	485	485
Width	mm	480	735	1289	1542	2096	2349	2903	3159	410	670
Modulation	Ratio	1 : 10	1 : 20	1 : 30	1 : 40	1 : 50	1 : 60	1 : 70	1 : 80	1 : 10	1 : 20

- Superior water hygiene
- Approved for applications ≥ 50°C (GFX/AMX)
- No need for TMV's or central mixing assemblies
- Reduced capital, installation & maintenance costs
- Excellent flow rates with minimal pressure drop
- Compatible with renewables
- Withstands up to 99°C on a continual basis
- Low heat loss tank with small footprint

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

For more information visit:

aleabraxsystems.com.au

or call 1300 132 949

Local Distributor: