



## DVX Series Gas/Oil Fired Heater Technical Data

**FLUING** – Must comply with the applicable Australian Standards and relevant local regulations.

**BURNER** – A gas or oil fired forced draft burner is connected to the storage tank. Combustion efficiency of the system is 80%. The burner heats the treated water and continues to reheat it until the thermostat sensor on the storage tank is satisfied.

**WATER QUALITY** – The potable water supply should not exceed these values:

pH	=	6.5 – 9.0
Chloride	=	370mg/l
Magnesium	=	30mg/l
Calcium	=	20mg/l
Sodium	=	150mg/l
Iron	=	1mg/l
TDS	=	1000mg/l
Hardness	=	250mg/l

**TYPE** – heavy duty indirect appliance (open vented to atmosphere) fitted with a forced draft gas or oil burner.

**HOW IT WORKS** The system is designed to provide domestic hot water and/or process heating from the one unit. The storage tank contains treated water which is heated by a thermostatically controlled forced draft oil or gas burner, which fires into the combustion chamber located near the bottom of the storage tank. The heat travels upwards through a number of fire tubes. Located inside the storage tank is a copper heat exchange coil containing potable, consumable water, which is heated by the treated water, as it passes through the coil. The storage tank is open vented to atmosphere, by means of a expansion tank.

**STORAGE TANK** – Is constructed from 6 mm 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.

**INSULATION** – High density 50mm fibreglass encases the storage tank to reduce standby losses for maximum efficiency.

**CASING** – Is constructed of durable Deep Ocean Colorbond®.

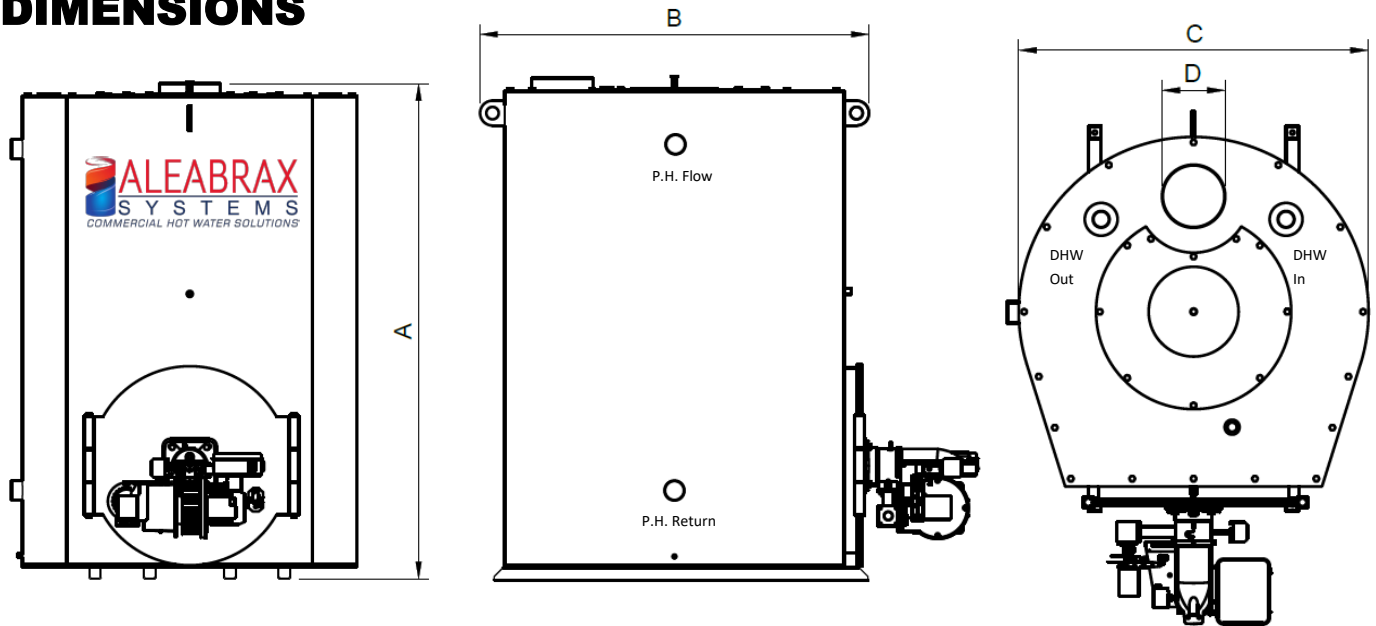
**COLD WATER PLUMBING** – The minimum valving required prior to the heater is a stopcock, non-return valve and a cold water expansion control valve set at 1200kPa. A line strainer is recommended (refer AS/NZS 3500).

**HOT WATER PLUMBING** – It is good plumbing practice to insulate pipework to reduce heat loss.

**HEAT EXCHANGER** – Is constructed of multi-start windings of Ø12.7mm Type B copper tube. Large inlet/outlet headers ensure full mains pressure water flow.

**CONTROLS** – An electronic control box is connected to the DVX series to operate the forced draft burner. It contains accurate operating and over-temperature thermostats.

## DIMENSIONS



## SPECIFICATIONS

		Units	DVX 140	DVX 280
DHW Inlet / Outlet			50mm Cu	50mm Cu
Primary Heating Flow / Return			65 BSP	80 BSP
Storage Capacity		litres	480	1500
Gas Consumption		MJ/Hr	630	1256
Energy Output		kW	140	279
1 <sup>st</sup> Hour Hot Water Delivery	65°C outlet temp *	litres	2480	5050
	85°C outlet temp *		1792	3687
Recovery Rate	65°C outlet temp *	litres/hr	2408	4795
	85°C outlet temp *		1720	3427
Min. Operating Temp - Tank / Coil		°C	65 / 60	65 / 60
Max. Operating Temp - Tank / Coil		°C	99 / 95	99 / 95
Heat Exch. Continuous Flow Rate	65°C outlet temp *	L/min	40.1	79.9
	85°C outlet temp *		28.7	57.1
Heat Exch. Peak Flow Rate		L/min	60	120
Coil Surface Area		sq.m	4.8	9.6
Min / Max. Coil Working Press		kPa	140 / 1200	140 / 1200
Combustion Chamber Efficiency		%	80	80
Max. Tank Working Pressure		kPa	100	100
Max. Pressure Drop- Tank / Coil		kPa	2 / 35	12816
Weight - Dry / Wet		kg	495 / 980	995 / 2495
Power Supply			240V 1ph	240V 1ph
Height Tank - A		mm	1960	1995
Depth - B		mm	860	1540
Tank Width - C		mm	820	1390
Flue Ø - D		mm	200	250

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



WM74734  
AS/NZS3498

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.

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or call 1300 132 949

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