

From Vulcan: Freeloader Gas Water Heaters.



73 days free hot water - year after year.

Freeloader gets you in more hot water than ever before.

More steaming hot showers. More deep, foaming baths. And much less money going down the drain.

That's the kind of hot water everyone should get into.

And that's exactly the kind Freeloader Gas Water Heaters give you.

More hot water – for much less. Well over 20% less, in fact. Which means you get at least 73 days free steaming hot water – every year.

The pressure's on.

Freeloader never lets up. Thanks to its mains pressure connection, your hot water supply is as constant and as powerful as the cold water.

Unique heat exchanger turns competitors upside down.

And no wonder. With our revolutionary "up/down" heat exchanger, and no wasteful central flue, Freeloader actually uses less gas to heat more water.

Because our heat exchanger is much larger than those used by conventional units,

Thick, fibreglass insulation.

Heat lock keeps heat in and cold out.

Balanced flue.

Larger heat exchanger transfers more heat to the water.

Unique 'up/down' heat exchanger uses less gas to heat more water.

Rust-resistant, steel outer cabinet for outside installation.

Heavy gauge steel cylinder coated with glass-hard vitreous enamel.

No central flue means more stored water.

Universal Anode.

Unique 'jet tube' burner.

more heat is transferred to the water.

Up goes the temperature. Down go your costs.

A fair exchange indeed.

Reduced heat losses keep temperatures up - and costs down.

With hot air rising in both sides of the heat exchanger, there is a constant battle of forces.

But neither side wins. Instead, a heat lock is formed, preventing any heat from escaping or any cold air breaking in. This means heat is transferred to the water, not lost inefficiently to the atmosphere.

Less heat lost means less money, too.

More insulation ... more savings.

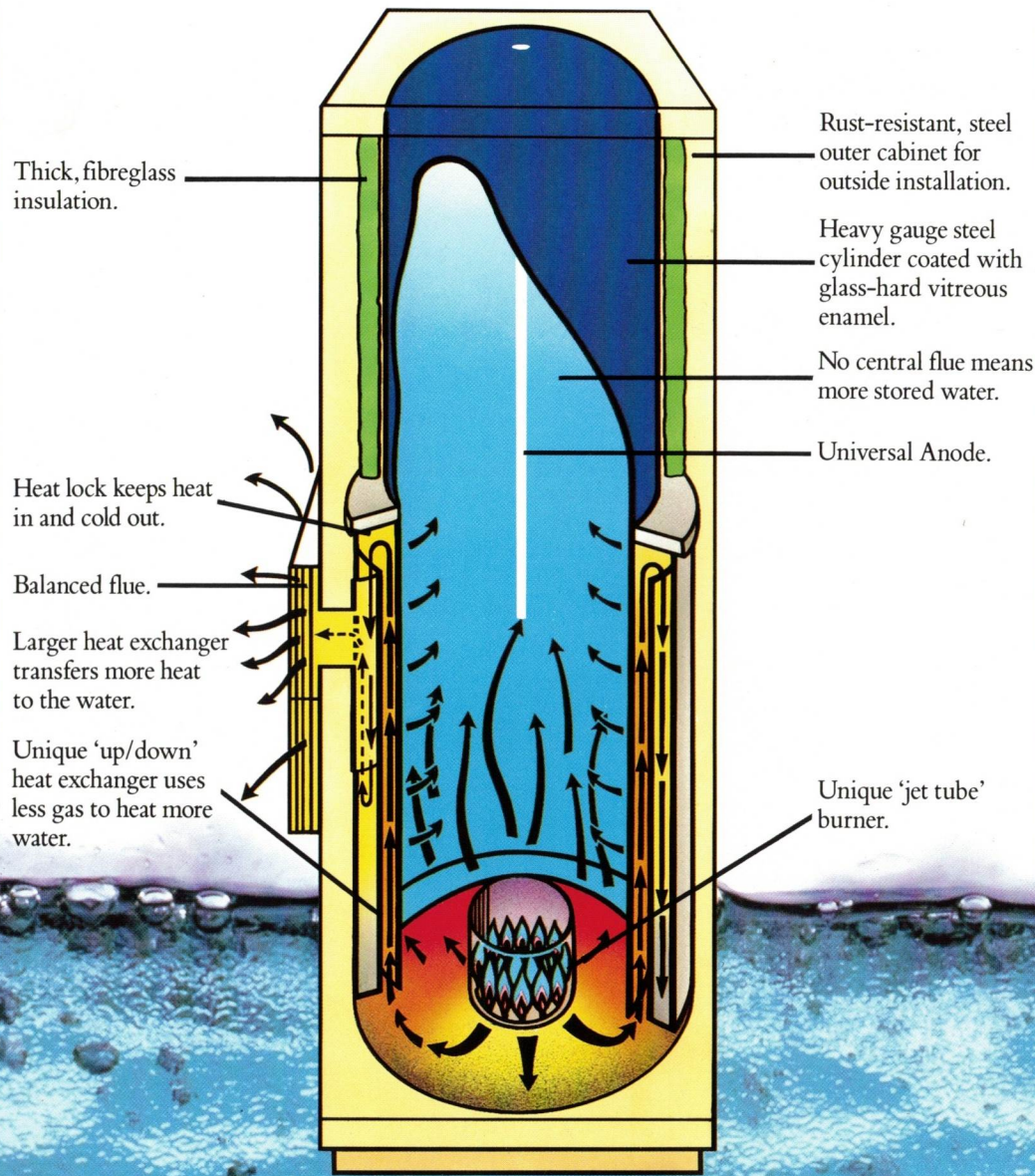
Freeloader's entire cylinder is heavily coated with a thick wrap of fibreglass. It's all the insulation you need to keep the water hot for a long, long time.

Over 20% more savings, in fact.

Savings are based on Australian Gas Association minimum performance requirements, hot water usage of 200 litres per day and inlet water temperature of 20°C.

The red band indicates the efficiency of the appliance.

This shows the average consumption of gas per annum.



So which Freeloader will it be?

The Australian Gas Association has a 'star' rating for water heaters that achieve additional energy savings over the required minimum. For achieving the minimum standard, one star is received. Each additional star signifies additional savings in increments of 10% from the standard.

Freeloader earns a four star rating, or well over 20% additional energy savings.

In cold, hard cash it simply means that in time, your Freeloader will literally pay for itself. For those using propane gas, more costly than natural gas, the savings are even greater.

Bigger storage capacity means little worry about constant hot water.

Other water heaters have a central flue through the middle of the tank. With no central flue in any of the models, Freeloaders have room for more hot water than conventional units.

In fact, Freeloaders give you a good 10-15 litres more than other models of the same size.

When deciding which size Freeloader you need, remember to plan for the future. Small children may not use much hot water, but teenagers have been known to use more than an entire family put together. Appliances too, should be taken into account as they can use as much hot water as one extra person.

Use the chart as a guide to calculating your average daily usage.

Heater Storage Capacity	Number of People			
	QLD	NSW	VIC ACT TAS	SA WA
120	6	5	4	5
145	7	6	5	6
185	9	8	6	9

The recovery rate is the time needed to heat incoming cold water. And it should be an important factor in deciding which size your family needs.

Freeloader's reheating ability is one of the very best, as the chart demonstrates. Use it as a further guide, giving consideration to peak periods of hot water usage.

Model	120	145	185
Max. hourly gas consumption (all gases)	26.4mj	26.4mj	26.4mj
Storage Capacity	120 litres	145 litres	185 litres
Hourly Recovery	105 litres	105 litres	105 litres
Maximum hot water available in any one hour	225 litres	250 litres	290 litres

You control the temperature, you control the cost.

A simple adjustment of the Freeloader's water temperature will give you more usable hot water. That's great news for larger families, or for households with spa baths, etc.

Set the control to high, and you'll mix more of your cold water to gain your desired temperature level. The result: more hot water left in the system – more hot water on tap.

You can even adjust the temperature to suit the season. You may use more hot water in winter, less in summer. That's total control.

The outside story on in

Not only is Freeloader's streamlined design easy on the eye, it's also made to be easily and economically installed outside.

Its smooth base means it can be easily put into place – either on a concrete slab by an exterior wall, or mounted into a wall cavity.

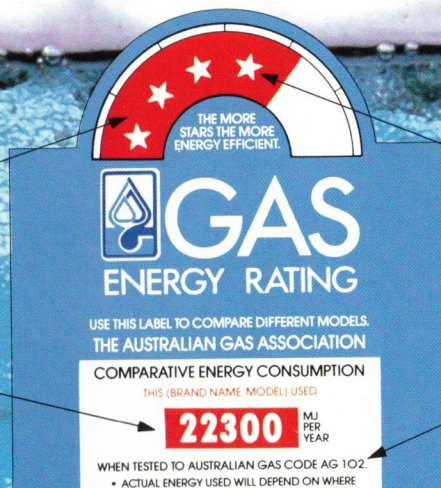
And, the balanced flue unit eliminates the costly exercise of installing a flue pipe to above roof height. Even the plumber gets it easy, because we've simplified all the connections to reduce on-site time – and costs.

Bodyguard protection.

The body of the Freeloader is well protected. The outer cabinet is rust-resistant steel, coated with beige and brown enamel.

Inside, the heavy gauge steel cylinder is coated with glass-hard, vitreous enamel and electrolytically protected by an anode.

All this ensures you of pure, odour-free water for a long, long time.



Each star represents a 10 per cent saving for gas water heaters.

This refers to the Australian Gas Association code.

tallation.



Unit installed on concrete slab.



Unit recessed into wall cavity.

There's safety – in numbers.

A total of three independent safety controls protect you against gas failure, sudden increases in water pressure and thermostat, or burner malfunction.

Generous warranty. (Australia only)

- 12 months parts and labour on all components.
- A further 4 year warranty on the cylinder. A new heater will be supplied if the cylinder fails within five years in accordance with the terms of the warranty.

Installation, labour and materials will be the owner's responsibility.

Full details are explained in the warranty instructions supplied with the unit.

Freeloader gets the awards – you get the rewards.

Winner of Gold and Silver Energy Management Awards.

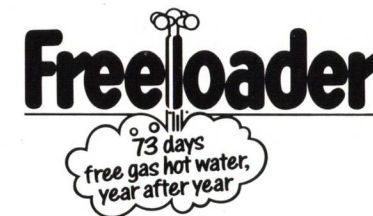


And that's just what you would expect from Vulcan.

It was quite an achievement to design and build Australia's first high-efficiency gas water heater – now the top-seller in this category.

And, because we did it right here in Australia, every spare part is readily available from our national network of more than 200 service agents.

So relax. This is hot water you'll love getting into.



A little conservative advice...

As an Australian company, Vulcan are fully aware of the importance of energy conservation.

Concerted efforts are continually made to ensure all our products are designed with this issue in mind.

But there are ways you can help at home. When using your hot water system, remember to follow these few guidelines...

1. Fit a flow restrictor shower rose. It will ensure you a great shower – and conserve water.

There are many types available, some even offering 50% water savings.

2. When adjusting flow temperature, turn down the hot water rather than turn up the cold water.

3. Always load dishwashers and washing machines to capacity to reduce the number of washes.

4. Select the correct cycle of dishwashers and washing machines – many loads do not require “full heavy wash” cycles.

5. When possible use cold wash cycles and detergents.

6. Don't rinse clothes or dishes under running hot water.

7. Ensure all taps are turned off correctly – one tap dripping once every second wastes about 3000 litres of water a year.

The Australian Gas Association acknowledges that the burning of any fossil fuel in some way contributes to Greenhouse gases. The carbon dioxide emissions from Natural Gas is the most environmentally

desirable fossil fuel.

When coupled with energy efficient products, the effect on our environment is considerably less than other forms of heating.



Specifications.

Dimensions.

(All dimensions shown in millimetres (mm))

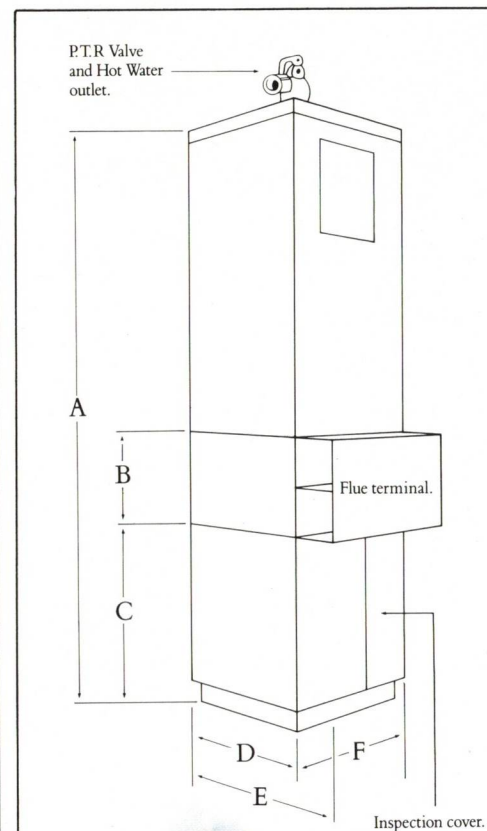
Unit Size	120	145	185
A	1360	1590	1965
B	290	290	290
C	500	500	500
D	480	480	480
E	545	545	545
F	480	480	480

Minimum opening sizes when building into brickwork.

Unit Size	120	145	185
Height	1385	1615	1990
Width	486	486	486

Clearances from Flue Terminal

From Electric Meter Box	500	Horizontally
From Gas Meter	1000	Any Direction
From Openable Window	500	Any Direction
From Door	500	Any Direction
From Internal or External Corner	500	Horizontally
From Ground	300	Vertically
From any other gas flue outlet, cowl or combustion air inlet	500	Any Direction



Catalogue Numbers.

Storage Capacity (Litres)	120	145	185
Natural Gas	69 29	69 25	69 21
T.L.P. Gas	69 30	69 26	69 22
Town Gas	69 31	69 27	69 23
Propane Gas	69 32	69 28	69 24
Maximum Gas Consumption: (Australia only)	26.4 MJ per hour (all models)		
Recovery Rate:	105L per hour at 50°C rise (all models)		
Hot Water Connections:	1/2 B. S. P. (all models)		
Gas Connection:	1/2 B. S. P. (all models)		
Maximum Water Supply Pressure:	Where mains pressure exceeds 1100kPa (or 960kPa in SA and WA), an approved pressure reducing valve must be fitted. Refer to Plumbing Instructions		
Relief Valve Pressure:	1400kPa at 99°C		
Weight:	Approximate weight (kg) 120 litre 83kg 145 litre 94kg 185 litre 105kg		

Designed and manufactured by Vulcan Australia Limited (Incorporated in Victoria), 841 Mountain Highway, Bayswater, Victoria, 3153, Australia. Telephone (03) 721 1222.

As the policy of the company is one of continuous product improvement, all specifications are subject to alteration without notice.

At each of the showrooms listed, trained staff are on hand to give you obligation-free advice on the right Vulcan product for your needs.

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Telephone (002) 28 0038

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Telephone (08) 46 9521

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VULCAN

HOT WATER

SO ADVANCED...IT'S SIMPLE.