

T H E V U L C A N F R E E L O A D E R

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. Australia's top selling gas high efficiency water heater.

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 full flow 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 central flue to reduce water storage capacity. Freeloader actually uses less gas to heat more water.

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

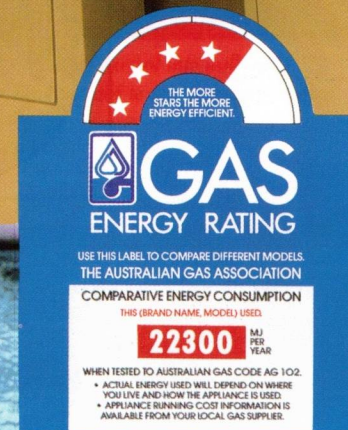
Over 20% more savings, in fact*.

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 Australian Gas Association has a 'star' rating for water heaters that achieve additional energy savings over the required minimum.

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.

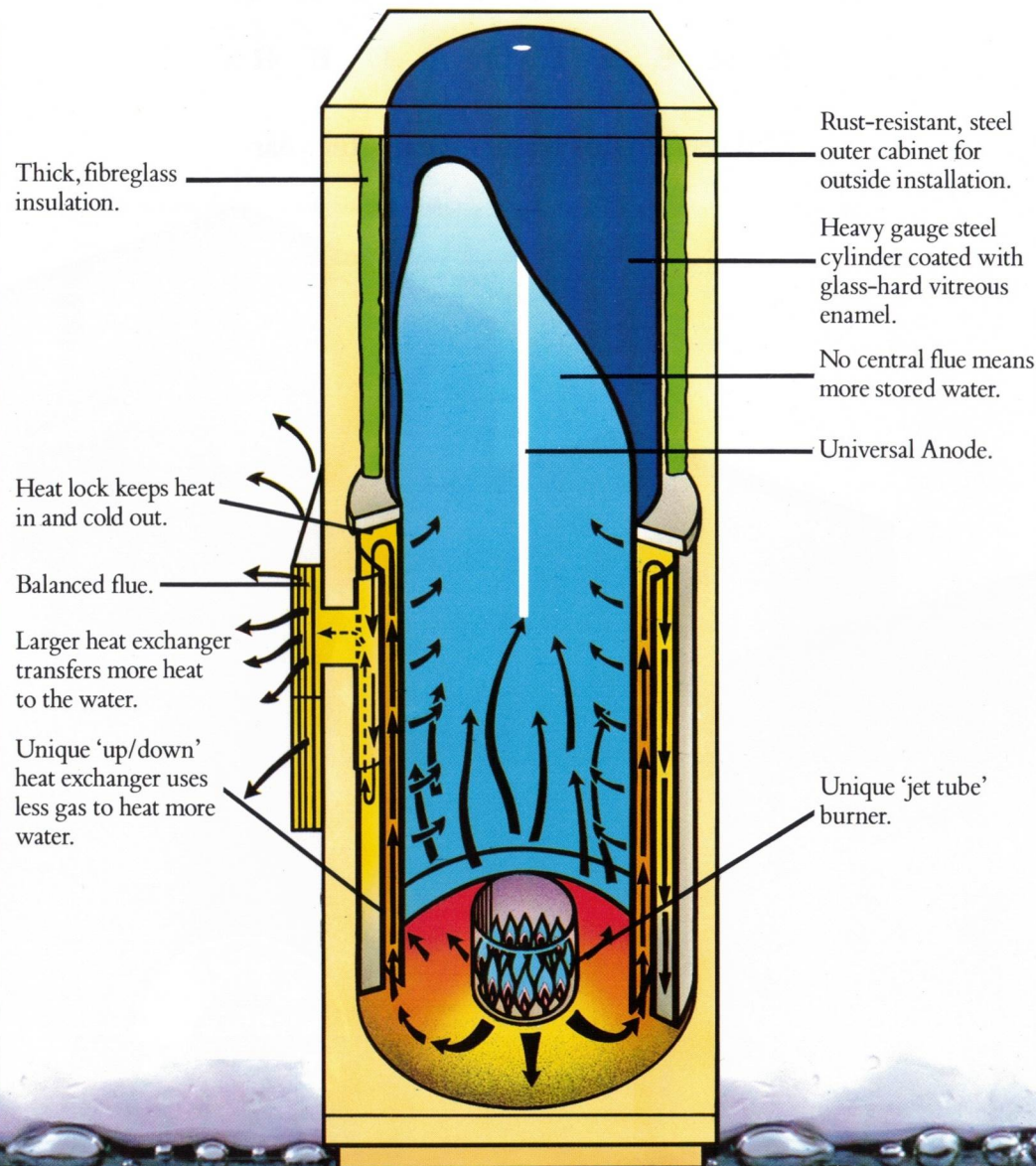
In fact, Freeloaders give you a good 10 - 15 litres more than any other high efficiency unit.

So which Freeloader will it be?

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. Use this chart 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 lt. | 145 lt. | 185 lt. |
| Hourly Recovery | 109 lt. | 117 lt. | 115 lt. |
| Maximum hot water available in any one hour | 229 lt. | 262 lt. | 300 lt. |

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 for which the 185L model is ideally suited.

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 installation.

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 the wall cavity in the case of new home construction.

And, the low level balanced flue outlet eliminates the costly exercise of installing a flue pipe to above roof height. It allows greater flexibility in positioning the unit, providing immediate clearance from eaves, overhangs and high windows. Even the plumber gets it easy, because we've simplified all the connections to reduce on-site time and costs. What's more, the cabinet outer panels can be changed should they be damaged on building site.

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.



Unit installed on concrete slab.



*Unit recessed into wall cavity.
Ideally suited to new home construction.*

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 & New Zealand)

- 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.

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.
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.
4. Select the correct cycle on dishwashers and washing machines.
5. 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.

SPECIFICATIONS

DIMENSIONS (All dimensions shown in millimetres - mm)

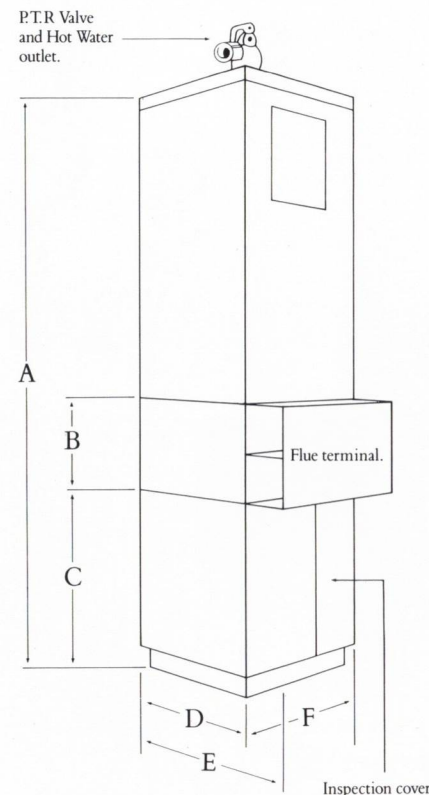
| Unit size | 120 | 145 | 185 |
|-----------|------|------|------|
| A | 1360 | 1590 | 1965 |
| B | 290 | 290 | 290 |
| C | 500 | 500 | 500 |
| D | 480 | 480 | 480 |
| E | 545 | 545 | 545 |
| F | 480 | 480 | 480 |

MINIMUM OPENING SIZES WHEN BUILDING INTO BRICKWORK

| Unit size | 120 | 145 | 185 |
|-----------|------|------|------|
| Height | 1385 | 1615 | 1990 |
| Width | 486 | 486 | 486 |

CLEARANCES FROM FLUE TERMINALS

| | | |
|--------------------------------------------------------------|------|---------------|
| 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 New Zealand | All Gas Types 26.4 MJ per hour Natural Gas 26.4MJ per hour Town/LPG 22.0 MJ per hour |
|------------------------------------------------------|--------------------------------------------------------------------------------------------|

| | |
|------------------------|-------------------------|
| 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 1100k Pa (or 960k Pa in SA & WA), an approved pressure reducing valve must be fitted. Refer to Plumbing Instructions |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|------------------------|------------------|
| Relief Valve Pressure: | 1400k Pa at 99°C |
|------------------------|------------------|

| | |
|---------|---------------------|
| Weight: | Approx. Weight (kg) |
| | 120 litre 83kg |
| | 145 litre 94kg |
| | 185 litre 105kg |

Designed and manufactured by Vulcan Australia Limited (Incorporated in Victoria) A.C.N. 004 253 605, 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.

Freeloader is a Trademark of Vulcan Australia Limited.

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.



VULCAN

HOT WATER

TURN IT ON