



### FIREMASTER 23:



### TOHATSU V52AS:



### TOHATSU VF53AS:

Rated output:	740 l/m at 7 bar and 3m suction height.	600 l/m at 10 bar and 3m suction height. 1150l/m at 7 bar and 3m suction height.	650 l/m at 10 bar and 3m suction height. 1040l/m at 7 bar and 3m suction height.
Pump Capacity:	1600 l/m salvage flow	1450 l/m at 3 bar and 3m suction height.	1210 l/m at 3 bar and 3m suction height.
Primer Type:	Dry sliding vane	Dry sliding vane	Dry sliding vane
Suction Times:	10s at 3m geod suction lift	6s at 3m geod suction lift	6s at 3m geod suction lift
Maximum Priming Lift:	7.5m	7.5m	7.5m
Pump:	Single stage centrifugal Pump sealed using carbon ceramic mechanical seal. 100mm suction inlet with 2 pressure outlets with globe valves.	Single stage centrifugal Pump sealed using carbon ceramic mechanical seal. 100mm suction inlet with single rotating globe valve.	Single stage centrifugal Pump sealed using carbon ceramic mechanical seal. 100mm suction inlet with twin rotating globe valve.
Engine:	Briggs & Stratton 23HP V Twin	Tohatsu 40HP Two Stroke	Tohatsu 4 Stroke 3 cylinder
Cooling:	Air	Water	Water
Manual Recoil Start:	Yes	Yes	Yes
Measuring Instruments:	Pressure gauge and compound gauge	Pressure gauge and compound gauge	Pressure gauge and compound gauge
Fuel Tank:	7 litre	18 litre	10 litre
Control Panel:	Rotary ignition switch Throttle control Accessory socket Engine hours counter Oil pressure indicator Choke control Primer switch	On / Off Push button start Throttle control Engine hours counter Oil pressure warning Battery indicator Fuel level indicator	On / Off Push button start Throttle control Engine hours counter Oil pressure warning Battery indicator Fuel level indicator
Lighting:	Flexible halogen	Panel light	Panel light
Battery:	VRLA 12V 18ah	Standard 12V	Standard 12V
Frame:	Powder coated steel full wrap around. Rubber hand grips	Fabricated steel carry frame Rubber hand grips	Fabricated steel carry frame Rubber hand grips
Dimensions:	600mm (L) x 500mm (W) x 645mm (H)	700mm (L) x 620mm (W) x 730mm (H)	670mm (L) x 790mm (W) x 740mm (H)
Weight:	87kg (dry with battery)	85kg (dry with battery)	101kg (dry)

[www.pslfireandsafety.co.nz](http://www.pslfireandsafety.co.nz)

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**NOTES ON THE TOHATSU PUMPS:**

- The Tohatsu VF53AS has a three cylinder four stroke engine with the same cooling system as the VF52AS.
- In both the V52AS and the VF53AS the engine governor case has a separate lubrication system which mean the governor case must be filled with oil and checked regularly. Serious damage may result if it runs with no oil.
- The engine being an outboard motor engine is cooled directly from the pump water. This is very different than being cooled by a heat exchanger which has the engine cooling water being cooled by the pump water.
- Running the engine for more than 2 minutes without water being pumps may cause overheating and the engine may seize.
- To overcome this Tohatsu has installed an overheat sensor switch which may automatically shut down the engine if it overheats.
- There is an off switch to bypass the auto shut down. If the auto shut down is bypassed it may also cause the engine to seize if the engine overheats.
- The pump cannot be run with delivery valves shut off as the engine may overheat as well the water in the pump may boil and damage the mechanical seal.
- Dry running of the pump for longer than two minutes may cause seizure of engine parts. Priming must be done immediately on start up.
- The Tohatsu intake supply requires a negative pressure to ensure that cooling water is returned to the pump. This makes the Tohatsu not very suitable for closed circuit realys. The return pressure needs to be higher than the incoming pressure.
- The Tohatsu is not designed for salvage pumping operations or tank filling operations. The maximum size allowed nozzle is 36mm. This is because the pump needs to be at pressure so it will not overheat. Therefore the Tohatsu should not be used with an open delivery without a special pumping plate being used. Tohatsu may not be suitable for mounting on tankers.
- The Exhaust silencer is not protected underneath so may cause a fire if used in long grass.
- Very important to note the maximum output of both the VF53AF and the V52AF as being 1210 L/M and 1450 L/M respectively. This is because the pump can only be run with a maximum 36mm nozzle or the pumping plated fitted to stop the engine overheating. Firemaster 18 and 23 HP pumps have the capacity to perform better without overheating at all.
- Servicing costs. Tohatsu pumps can be difficult to repair for an average workshop as well as the difficulties a workshop can have getting service parts. The huge advantages of Firemaster pumps are that parts are cheap and easy to come by.

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