



GAS FREEING FANS

Victor Marine Ltd are specialists in the design and manufacture of portable Gas Freeing Fans offering both water driven and air driven systems. Manufactured to incorporate unique design features our fans lead the industry on quality & performance.

victormarine.com



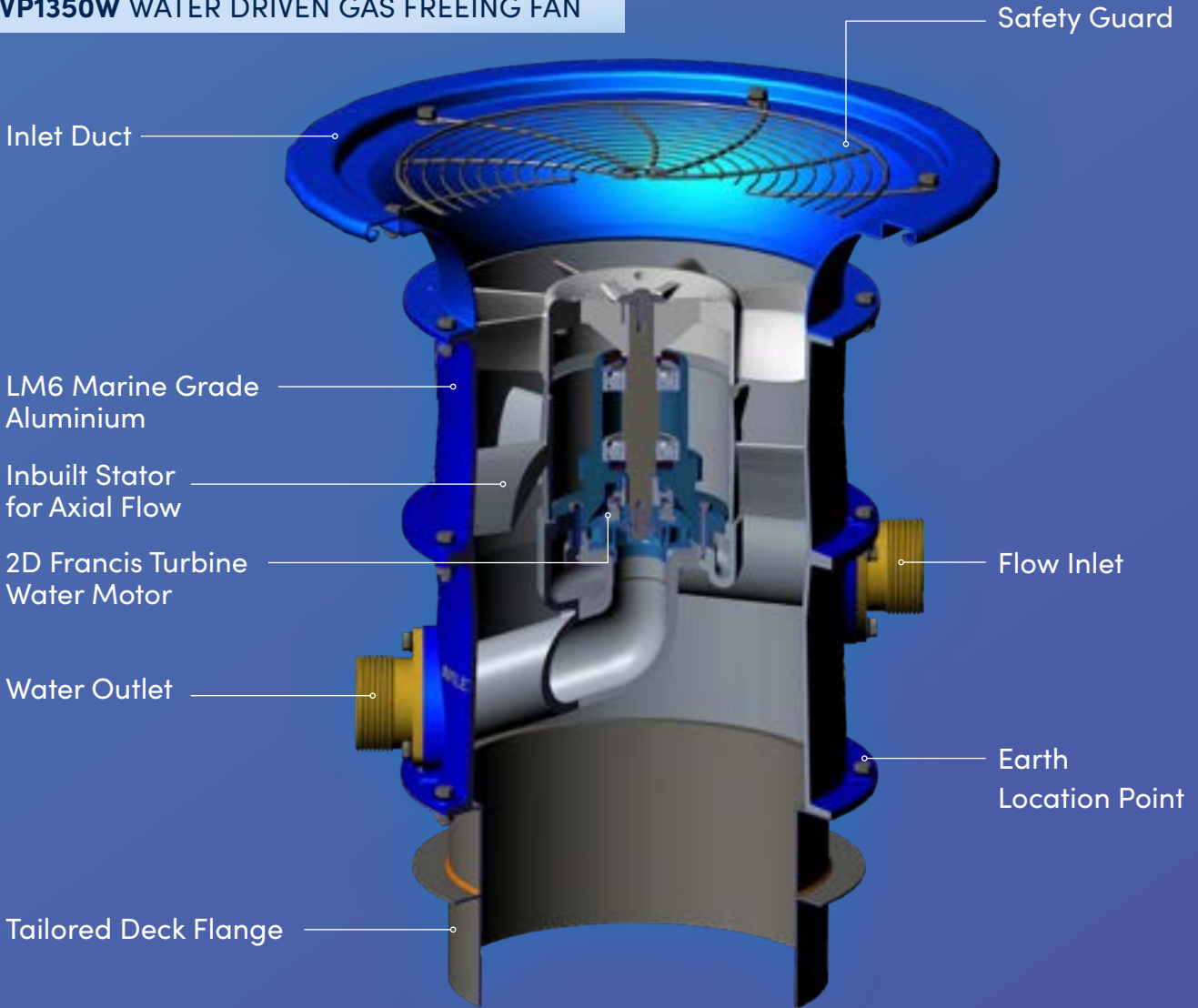
 **Victor Marine**
Globally focussed on cleaner solutions

Gas Freeing Fans

Gas freeing on-board ships is carried out for various reasons including but not limited to; change of cargo, health and safety and tank maintenance. It is essential that this is carried out efficiently and safely. Victor Marine's range of fans competently achieve these aims and are well respected in the marine market.



Product featured:
VP1350W WATER DRIVEN GAS FREEING FAN



Type approvals by:



“Victor Marine Gas Freeing Fan equipment, marketed under its original and renowned Victor Pyrate brand name, is well established within the marine equipment market, noted for its quality, efficiency and reliability.”

**Solidly built,
innovative and reliable.
Victor Marine Gas
Freeing Fans set
the benchmark.**

Key Features

- Designed and Class Approved for use in hazardous areas
- Supply or Extract mode by simple reversal of water supply
- Integral ‘Direct In-Line’ drive; no gearbox to maintain or fail
- Non-Sparking (ATEX approved)
- Can operate at low pressures
- Lightweight and compact for portability
- Can be supplied for horizontal mounting
- High airflow throughput
- High static pressure
- Efficient motors
- Marine grade materials
- Fail-safe bleed tube to indicate seal failure

3D Francis Turbine Water Motor Runner Installed in VP1500W, VP1000W, VP1400W and VP700W

- Higher Efficiency.
- Designed in-house and powered by VM’s innovative and efficient 3D Francis turbine, the VP1500 series fans reduce water consumption by 15% compared to conventional turbines, with no compromise on power and airflow throughput.



PAGAS Impeller

The VP1400 & VP700 have impeller blades made from PAGAS (an Anti-Static Glass Reinforced Polyamide) material capable of working in explosion proof conditions.

The PAGAS material is low weight, has a high tensile strength and is suitable in operating temperatures from -40°C to +110°C.



Blade Profiles

VP1400 & VP700 – Airfoil type designed for highest efficiency and low power consumption.

ATEX Approved Fans

- Use in Hazardous Areas
- Victor Marine design all fans to be able to work in explosive and hazardous conditions. All impellers, casings and motors are designed with compatible materials or with incorporated anti-spark tracks – in full accordance with the EC ATEX directive.



Our range of Gas Freeing Fans

	VP700W	VP800W	VP1000W	VP1350W	VP1400W	VP1500W	VP950A
Drive Medium	Water	Water	Water	Water	Water	Water	Compressed Air
Max Air Flow	m ³ /hr	7000	8700	10540	14350	14000	14800
	m ³ /min	116	144	175	238	232	246
Max Static Pressure	N/m ² (Pa)	970	1130	1790	2600	1500	3120
Max Air/Water Requirement	m ³ /hr	15	18	27	68	48	56
Max Working Pressure	kg/cm ²	12	10.5	12	10.5	7	12
Max Noise Radial	db @ 1m	91	88	88	89	95	88
Exhaust Mode	Yes, Reversible	Yes, Reversible	Yes, Reversible	Yes, Reversible	Yes, Special Impeller	Yes, Reversible	Yes, Reversible
Materials							
Casing	Stainless Steel 316	Aluminium LM6	Stainless Steel 316	Aluminium LM6	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316
Impeller	Polyamide (PAGAS)	Aluminium LM6	Aluminium LM6	Aluminium LM6	Polyamide (PAGAS)	Aluminium LM6	Aluminium LM6
Spark Track	N/A	N/A	Beryllium Copper	N/A	N/A	Beryllium Copper	Beryllium Copper
Air Stator	N/A	Aluminium LM6	N/A	Aluminium LM6	N/A	Stainless Steel 316	N/A
Fastenings	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316
Couplings	Stainless Steel 316	Bronze	Stainless Steel 316	Bronze	Stainless Steel 316	Stainless Steel 316	Bronze
Motor Type	3D Francis Turbine	2D Francis Turbine	3D Francis Turbine	2D Francis Turbine	3D Francis Turbine	3D Francis Turbine	Air ATEX Approved
Super Duplex Available	X		X		X	X	
Installation* To suit deck opening	ID 318mm, PCD 389mm	ID 318mm, PCD 389mm	ID 318mm, PCD 389mm	ID 318mm, PCD 389mm	ID 400mm, PCD 480mm	ID 318mm, PCD 389mm	ID 318mm, PCD 389mm
Standard Air/Water Connections	1.5" BSP	2.5" NST (BW)	2" BSP	2.5" NST (BW)	2" BSP	2" BSP	1" CLAW
Weight Operational: kgs	19	31	27	31	25	27	24
Suitable	Oil, Gas, Product, Chemical Handysize, SR, LPG	Oil, Gas Panamax, Aframax	Oil, Gas, Product, Chemical LR2, LR1, MR, LPG	Oil, Gas, Suezmax, UL/ VLCC, LPG	Oil, Gas, Product, Chemical Suezmax, UL/ VLCC, LPG	Oil, Gas, Product, Chemical Suezmax, UL/ VLCC, LPG	Oil, Gas, Product, Chemical LR2, LR1, MR, LPG
Envelope Dimensions	H: 465 Ø: 365	H: 690 Ø: 580	H: 572 Ø: 580	H: 689 Ø: 580	H: 514 Ø: 503	H: 572 Ø: 580	H: 368 Ø: 580
	VP700W	VP800W	VP1000W	VP1350W	VP1400W	VP1500W	VP950A

* Multiple deck flanges are available to suit a variety of deck openings. Various couplings (Nakajima, Storz, Camlock etc.) and a variety of hoses can also be supplied.



VP700W

Lightweight, non-sparking, stainless steel water driven fan, suitable for small and medium tonnage oil, product or chemical tankers with restricted deck space and limited pumping capacities. It can also be used for ventilation in confined spaces.



VP800W

High performance, deep penetration, water driven fan, constructed using high grade LM6 aluminum.



VP1000W

High performance, deep penetration, water driven fan, constructed using high grade 316 stainless steel.



VP1350W

High performance, deep penetration, water driven fan, constructed using high grade LM6 aluminum.



VP1400W

High performance, deep penetration, non-sparking water driven fan, is specially designed for low pressure systems and large deck openings.



VP1500W

High performance, deep penetration, water driven non-sparking fan, constructed using high grade 316 stainless steel.

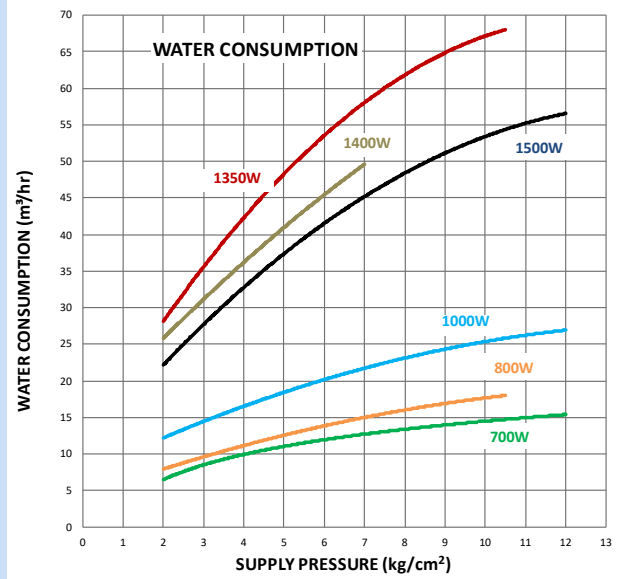


VP950A

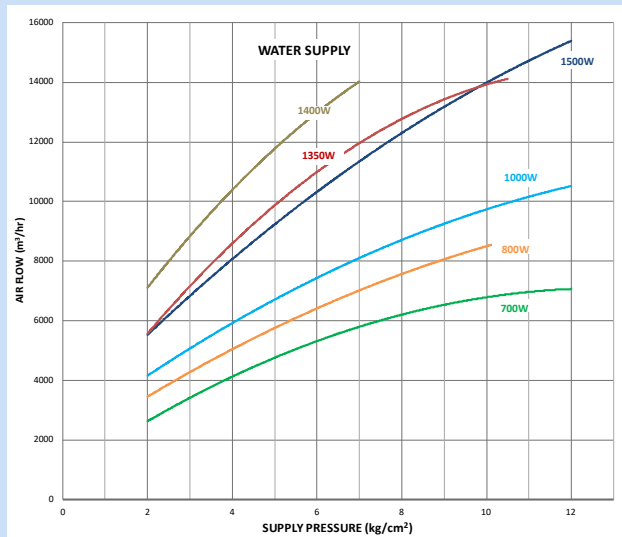
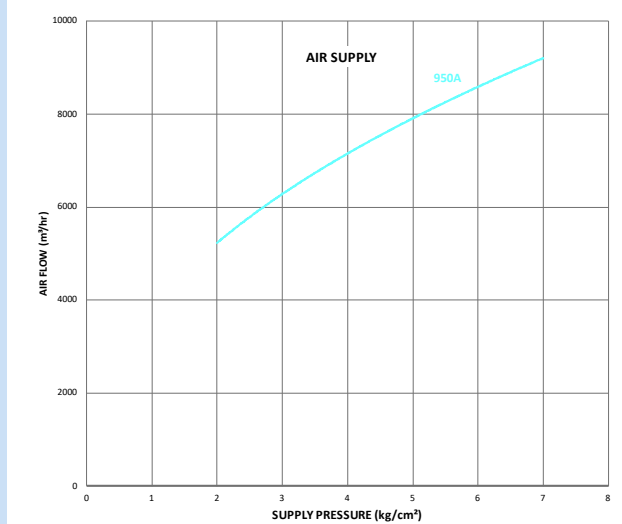
High performance, stainless steel, deep penetration, non-sparking air driven fan is suitable for use on all types of vessels.

Flowrate v Supply Pressure Fan Graphs

Water consumption v Pressure



Inlet pressure v Airflow



Gas Freeing Fan Ancillaries

Portable Vent Stacks

These Vent Stacks are manufactured from durable galvanised mild steel to a height of 2m for compliance with SOLAS chapter 59 paragraph 2. Specifying a discharge exit velocity of 30m/sec at 2 metres above deck level and for use with either VP1350W mk5 or VP1500W Gas Freeing Fans will ensure requirement is met.



Connections and Spanners

We stock an extensive range of hose connections, hose couplings, hose spanners and deck valve adapters, mostly with BSP threads. Hose spanners are manufactured from a non-sparking alloy for complete safety.



Layflat Hose

Heavy Duty Supply (Red) and Medium Duty Exhaust (Blue)

Woven polyester reinforcement encased in polyurethane internal and external liner. Available in 38mm and 50mm nominal bore and a maximum length of 50 metres.



Air Supply Hose (Black)

Neoprene rubber reinforced with multiple rayon braids. Available in 19mm and 25mm nominal bore.



Flanges

All fans are supplied with a standard 318mm deck flange. Other deck flanges are available on request.



Victor Marine services

Design. The designers at Victor Marine have a wealth of experience and industry knowledge. Customers can discuss their specific requirements for any project, and the development team will collaborate and create an innovative, bespoke solution. Our comprehensive in-house engineering and testing facilities means we can design, manufacture and build many systems under our own roof. Victor Marine can also provide a range of certification and process options.

Commissioning and Servicing. Our range of Gas Freeing Fans & Tank Washing Equipment are designed to be installed and maintained by clients' in house/on-board service teams. Victor Marine Ltd can also offer engineers worldwide through our network of agents for all Commissioning and Servicing requirements. Our Agents & Engineers are fully qualified and trained to a high level on all of our products.

After sales and tech support. Victor Marine maintains a worldwide network of agents who can provide customers with a comprehensive after-sales service for example installation, commissioning, technical support, servicing and spares.



Gas Freeing Fan Ancillaries

Fan Trolley

Manufactured in a lightweight tubular construction, this trolley is available to ease transportation of the fans in restricted areas; complete with durable wheels and a fan retaining strap for added protection.



Air Ducting

Specially designed for marine 'hazardous areas', this is flame retardant and anti-static, heavy duty spiral wound PVC coated, flexible fabric ducting. Produced in standard 300mm diameter nominal bore or special purpose diameters and lengths, these ducts are suitable for both supply and exhaust mode operation.

Various mild steel, stainless steel (AISI 316) and galvanised flanges to suit both deck opening and VP gas freeing fan outlet ducts are available.



Spares Kits

Supplied as basic (A) standard (B) or complete (C) or tune up kits. The kits include items required to overhaul the machines. Alternatively spares are available as individual items upon request.





Victor Marine

Globally focussed on cleaner solutions

Victor Marine Ltd
Unit 7, Waterloo Court
Markham Vale
Markham Lane
Chesterfield, UK
S44 5HN

[Contact us today for more information](#)

victormarine.com

+44 (0) 1708 899780

The manufacturer reserves the right to alter the specification and data to incorporate improvements in design. © Copyright Victor Marine Ltd

Victor Marine Ltd are specialists in the design and manufacture of **Oily Water Separators, Tank Washing Machines, Sewage Treatment Plants and Gas Freeing Fans**. Formed in 2005 from the merger of two established brands in the marine industry, namely Victor Pyrate Ltd and Hodge Separators Ltd, the company has over 100 years of experience in supplying equipment to the marine industry.

Victor Marine is an autonomous company within the Samuel Hodge Group, a British engineering company founded in 1897, with its origins in ship repairing and machine tool rebuilding.