



HIGH PRESSURE CLEANING MACHINES™



DESCRIPTION

MARICHEM HIGH PRESSURE CLEANING MACHINES (HPCM) are revolutionary, multi-purpose and low cost machinery distinct for high quality, optimal performance and dual operation of water and water-sand blasting. These machines are designed exclusively to pressurize the water supply in order to wash objects or surfaces eligible to be treated by the mechanical action of pressurized water jet and by the possible chemical action of liquid detergent additives. The liquid detergent additives must be chosen in accordance with the chemical compatibility of the surface to be washed.

Moreover, high pressure machines are capable to use water and sand blends for the treatment of rust deposits on metal surfaces, which require water-sand blasting.

MARICHEM HPCM are simple with easy operation and handling, also equipped with ceramic heads to allow the use of fresh water and seawater.

Note that, before shutdown, after the use with seawater, the jet system should be rinsed through with fresh water, in order to avoid scale clogging and corrosion.

MARICHEM HPCM are extremely effective and long lasting, designed with major priority upon safety.

They include a built-in adjustable by-pass valve, assisting to variable regulation of water volume.

APPLICATIONS

- Cleaning of the air cooler in the main engine.
- Cleaning of the bilges in the engine room.
- Cleaning of the boilers after chemical treatment.
- Cleaning of the ballast, wing and cargo tanks from mud, rust and other dirt.
- Rust removal from metal surfaces with high pressure.
- All-purpose use requiring high-pressure applications offering the option to switch from hydro sand blasting and vice versa.
- Ability for high pressure cleaning with water and chemical product mixtures.

ADVANTAGES AND CHARACTERISTICS

Construction and standard equipment

- 10m high pressure hose.
- Spray gun, single or double lance, including nozzles.
- 10m electric cable.
- Built-in adjustable by-pass for continuous variable regulation of water volume.
- Operating temperature: up-to max 60°C.
- Auto-stop device, prevents pump from continuous operation.

Pressure regulation

- At the lance (double lance only) adjustable from 10bars to maximum pressure.
- At the unloader valve.



Marichem's long experience and customers' needs have proved that the most popular high pressure cleaners for use in shipping are the following, electric operated/cold water. Additionally, Marichem offers other types of machines (hot water, engine driven, stationary etc) upon request.

NAVIJET C500E

NAVIJET C500E is a heavy duty HPC machine, ideal for paint and rust removal, cargo hold residues removal, as well as for any general cleaning task on board. It is constructed of stainless steel frame with protective top cover.

Features: 3 ceramic, plunger pump with nickel plated head • 25HP motor, IP 55 insulation, class F, S1 duty, with thermal protection • Adjustable unloader valve with by-pass protection • Automatic start-stop system • Thermo valve and safety overpressure valve • Star/Delta motor starter in IP65 enclosure, with circuit breaker and overload relay • Pneumatic wheels with parking brake * European product/manufacture.

Technical Specification		
Voltage / frequency	V/Hz	380/50 or 440/60
Working pressure	Bar/Mpa	500 / 50
Water Flow	lpm/gpm	18 / 4.75
Motor power rating	kW/HP	18.5 / 25
Water inlet temp. (max.)	°C / °F	60 / 140
Dimensions	mm	1150 x 700 x 950 (H)
Weight	kg	175
Standard accessories	10mtr hp-heavy duty hose • 10mtr electric cable H07RN-F • Dry shut spray gun, Lance 1000mm c/w nozzle • Wheel brake, Pressure gauge, Hour counter, Water inlet filter • Auto start-stop system • Star-Delta motor starter in enclosure IP65	



NAVIJET C300E

NAVIJET C300E is a general purpose professional HPC machine, constructed of stainless steel frame with protective top cover. Suitable for cargo hold cleaning and any general cleaning task on board.

Features: 3 ceramic piston, plunger pump with nickel plated head • 10HP motor, IP 55 insulation, class F • Adjustable unloader valve with by-pass protection • DOL motor starter with overload relay • Automatic start-stop system • Easy maintenance and repair • European product/manufacture.

Technical Specification		
Voltage / frequency	V/Hz	380/50 or 440/60
Working pressure	Bar/Mpa	280 / 28
Water Flow	lpm/gpm	15 / 3.96
Motor power rating	kW/HP	7.5 / 10
Water inlet temp. (max.)	°C / °F	60 / 140
Dimensions	mm	700 x 600 x 850 (H)
Weight	kg	85
Standard accessories	10mtr hp hose • 10mtr electric cable • Spray gun • Double lance c/w nozzles • Auto start-stop device • 3 phase motor starter c/w thermal overload relay • Water inlet filter	



NAVIJET C200E

NAVIJET C200E is a general purpose professional HPC machine, constructed of stainless steel frame with protective top cover. Suitable for cargo hold cleaning and any general cleaning task on board.

Features: 3 ceramic piston, plunger pump • 7.5HP motor, IP 55 insulation, class F, S1 duty • Adjustable unloader valve with by-pass protection • DOL motor starter with overload relay • Automatic start-stop system • Easy maintenance and repair • European product/manufacture.

Technical Specification		
Voltage / frequency	V/Hz	380/50 or 440/60
Working pressure	Bar/Mpa	210 / 21
Water Flow	lpm/gpm	15 / 3.96
Motor power rating	kW/HP	5.5 / 7.5
Water inlet temp. (max.)	°C / °F	60 / 140
Dimensions	mm	640 x 500 x 850
Weight	kg	62
Standard accessories	10mtr hp hose • 10mtr electric cable • Spray gun • Double lance c/w nozzles • Auto start-stop device • 3 phase motor starter c/w thermal overload relay • Water inlet filter	



MAR 3016

MAR 3016 is a general purpose professional HPC machine, constructed of epoxy treated frame, with stainless steel top cover, suitable for any general cleaning task on board.

Features: 3 ceramic piston, plunger pump • 5.5HP motor, IP55 insulation, class F, S1 duty • Adjustable unloader valve with by-pass protection • DOL motor starter with overload relay • Automatic start-stop system • Easy maintenance and repair • European product/manufacture.

Technical Specification		
Voltage / frequency	V/Hz	380/50 or 440/60
Working pressure	Bar/Mpa	160 / 16
Water Flow	lpm/gpm	14 / 3.70
Motor power rating	kW/HP	4.0 / 5.5
Water inlet temp. (max.)	°C / °F	60 / 140
Dimensions	mm	600 x 380 x 440
Weight	kg	48
Standard accessories	10mtr hp hose • 10mtr electric cable • Spray gun • Double lance c/w nozzles Chemical injector • Auto start-stop device • 3 phase motor starter c/w thermal overload relay • Water inlet filter	














SPARE PARTS

Marichem keep stocks readily available for all its high pressure cleaning machines. Consult the user's and technical manuals of your machine for the spare part required and contact your sales representative for any query you may have.



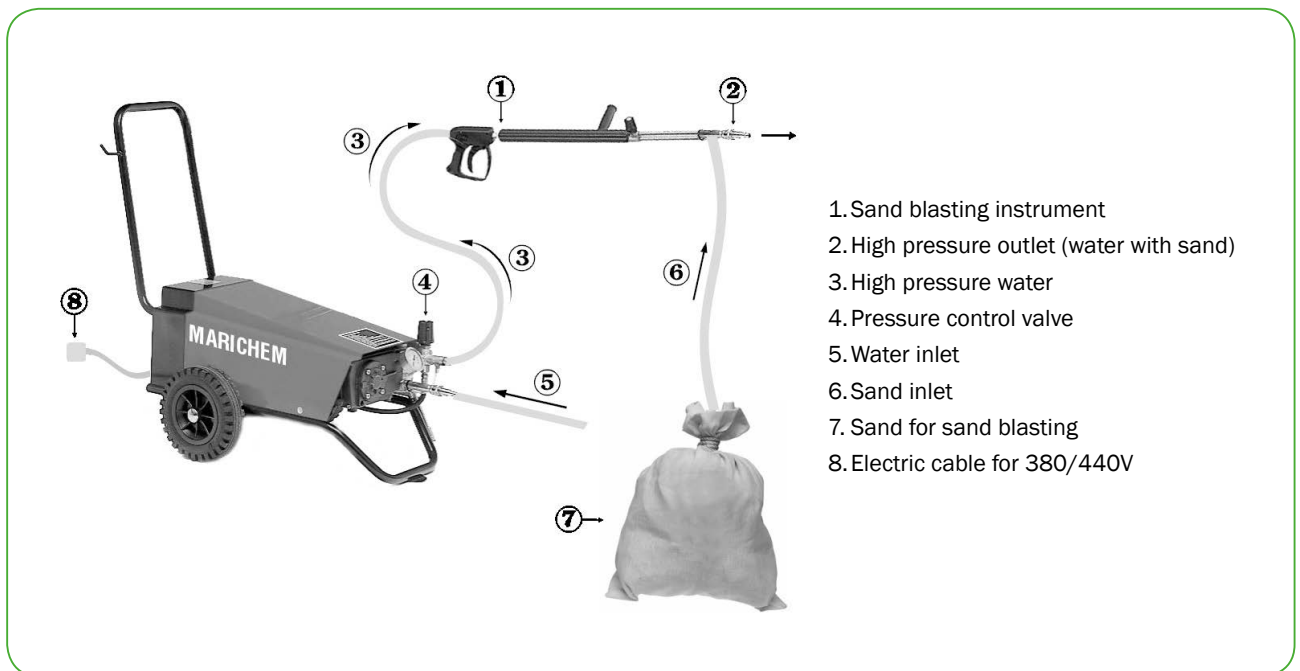
ACCESSORIES

A wide range of optional accessories are available for expanding and improving the performance and usage of Marichem high pressure cleaners.

Order No	Description	Suitable for use with	
730331	Extension cable, 50mtr c/w connectors IP67 - 16Amps	MAR 3016 NAVIJET 200 NAVIJET 300	
730179	Extension cable, 50mtr c/w connectors IP67 - 32Amps	NAVIJET 300	
730166	Extension cable, 50mtr c/w connectors IP67 - 63Amps	NAVIJET 500	
730201	HP hose 10mtr, 300bar, c/w connecting adaptor	MAR 3016 NAVIJET 200 NAVIJET 300	
730202	HP hose 15mtr, 300bar, c/w connecting adaptor		
730203	HP hose 20mtr, 300bar, c/w connecting adaptor		
730221	HP hose 10mtr, 500bar, c/w connecting nipple	NAVIJET 500	
730222	HP hose 15mtr, 500bar, c/w connecting nipple		
730223	HP hose 15mtr, 500bar, c/w connecting nipple		
730141	Turbonozzle package N200	NAVIJET 200	
730116	Turbonozzle package N300	NAVIJET 300	
730169	Turbonozzle package N500	NAVIJET 500	
730190	Repair Kit for turbonozzle N200	NAVIJET 200	
730189	Repair Kit for turbonozzle N300	NAVIJET 300	
730158	Repair Kit for Turbonozzle N500	NAVIJET 500	
730285	Sandblasting package N200, complete	NAVIJET 200	
730286	Sandblasting package N300, complete	NAVIJET 300	
730170	Sandblasting package N500	NAVIJET 500	
730287	Chemical injector adjustable, quick connect	NAVIJET 200 NAVIJET 300	
730350	Slop/Drainage system w/5mtr hose 2"	ALL (nozzle size to be specified)	
730196	Rotating Brush package	MAR 3016 NAVIJET 200 NAVIJET 300	
730197	Drain/pipe cleaning package w/hose 20mtr & micronozzle	ALL	
801116	Telescopic pole 8mtr, c/w nozzles	MAR 3016 NAVIJET 200 NAVIJET 300	
801119	Back belt for telescopic pole		

Remark: Conditionally, some of the accessories can be used with other than the hpc machines specified above. As this is subject to technical specifications, please contact us for further advice.

PRESENTATION OF WATER-SAND BLASTING



PRECAUTIONS

- It is recommended to shut down the unit when not in use. This way, machine life is elongated and safety conditions are ensured.
- Biodegradable detergents with pH value between 7 and 12 should preferably be used.
- The maximum water inlet temperature, must not exceed 60°C (140°F).
- The water supply should be connected to the inlet port by means of a reinforced hose (min. 15 bar/200 psi) with internal diameter of no less than 13mm (1/2”).
- The machine must be fed with clean water only. Running the unit without water or with dirty and/or sandy water mixtures, may cause serious damage to the jet system.
- High-pressure water jet pipes or guns must not be directed against humans and/or sensitive equipment.
- This machine is built in compliance with the requirements of the current safety regulations. Whatever is the use of any electrical appliance, the user must follow some basic rules:
 1. To avoid touching electrical parts or components.
 2. Qualified personnel only must conduct all operations of inspection, maintenance and/or repair.



MARICHEM MARIGASES Worldwide Services or any subsidiary or associated companies warranties of merchantability and competence, if any, along with any expressed warranties concerning this merchandise, shall not be actionable or pertinent or effective if the good is used contrarily or differently to the directions herein and in no other way due to impending hazards from inappropriate use of the good explained herein. Merchandise might vary insubstantially depending on country of origin. The information provided concerning merchandise is exclusively presented to the customer.