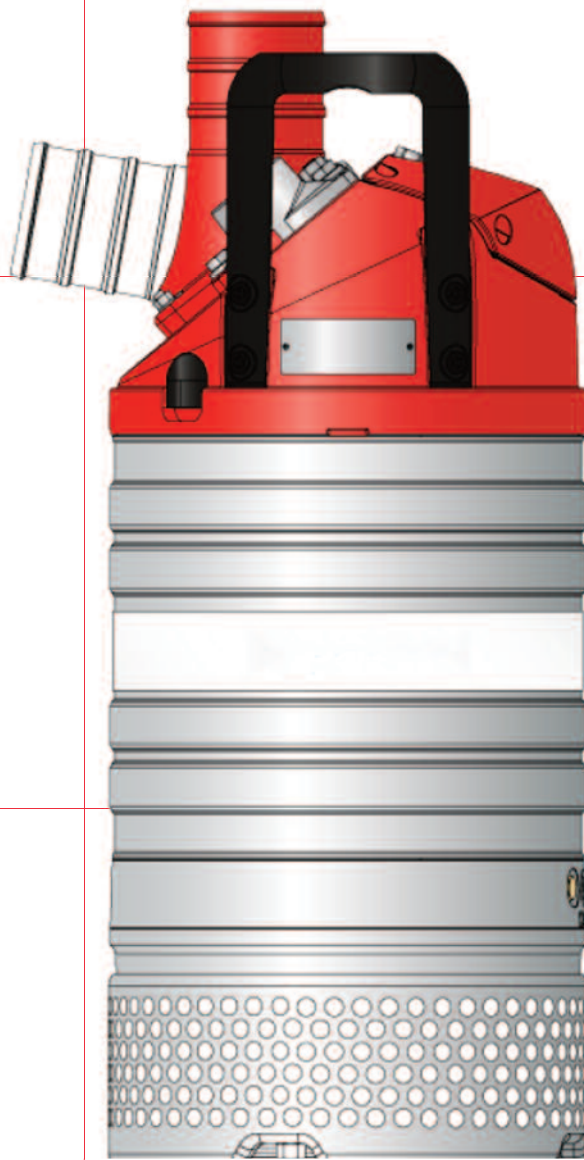


SUBMERSIBLE PUMPS FOR BALLAST



THE WORLD...  ...OUR PASSION!

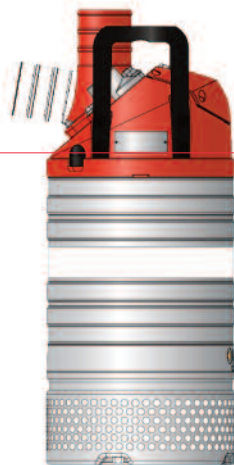


INTRODUCTION

Due to worldwide market increasing demand for integrated load out / in service contracts including ballast operations Fagioli management decided to increase the current group fleet of Deck Pumps, perfect to ballast ocean standard barges up to 400', with new generation of submersible pumps able to ballast big barges over 400' (10m H). The advantages of these new electric sub-pumps are:

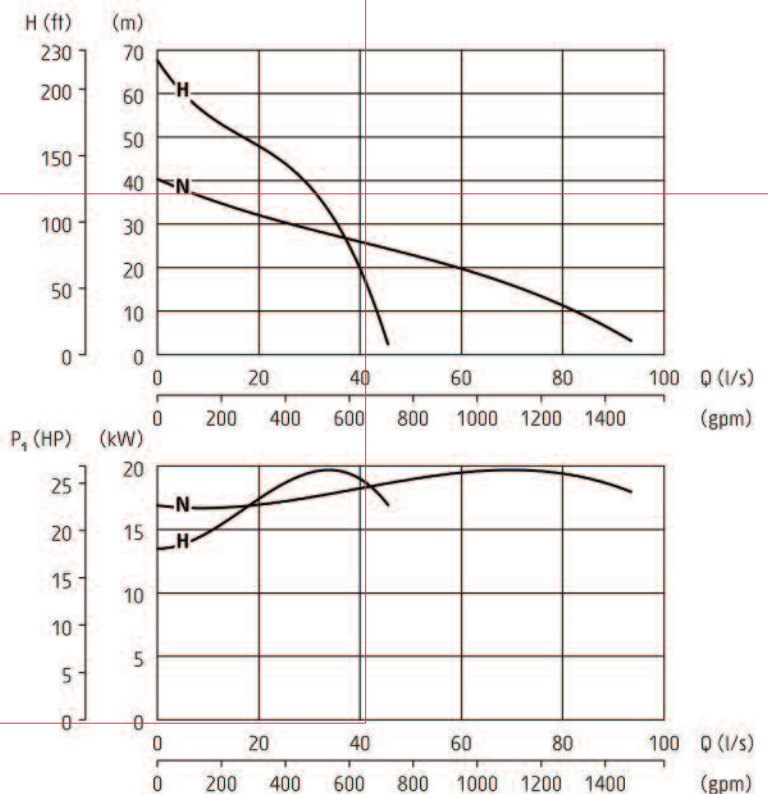
- Small size and weight with high flow due to new propeller compact design
- Small diameter to allow insertion in all barge man holes
- No need big hydraulic PPU with meters of hoses onboard
- Smart electronic control embedded on pump body
- Very fast installation into barge tanks and outboard
- Easy remote control.
- Eco-friendly concept due to no hydraulic oil utilisation

As the need of such pumps is for marine water pumping in /out there's no need of mechanical high torque of pump propellers.



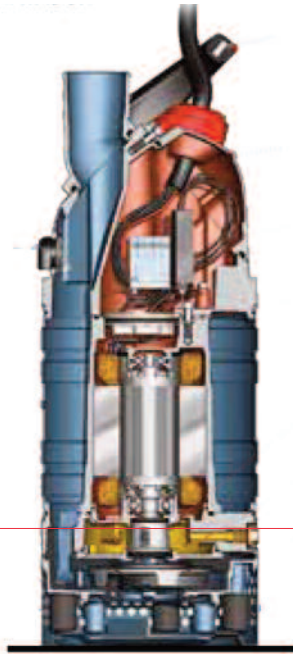
50 Hz	N	H
Discharge connection	6"	4"
Rated power P_2 [kW]	18	18
Max. power consumption P_1 [kW]	20	20
Shaft speed [r.p.m.]	2905	2905
Rated current at 230V	56 A	56 A
Rated current at 400V	33 A	33 A
Rated current at 500V	26 A	26 A
Solids passage [mm]	12	12
Height [mm]	954	954
Diameter [mm]	395	395
Weight [kg]	133	133

Other voltages on request



ISO 9906/A

GENERAL DESCRIPTION



MATADOR

ELETRICAL SUBMERSIBLE DRAINAGE PUMPS 50HZ

PUMPS TYPE:

N: normal pressure
 H: high pressure
CLASSIFICATION:
 Eletrical submersible drainage pump
 Protection class: IP 68

ELETRICAL MOTOR:

Squirrel cage induction motor, installation class: H(IEC 85)

MOTOR PROTECTION:

Thermal contacts in the stator opening temperature 140°C, air valve, DDL, star/delta or soft starter.

CABLE -SUBCAB

230V: 4G10mm², 20 M (66FT) 8AWG/ 4,53ft
 380-575V:466mm², 20 M(66ft) or 8AWG/ 4.53 ft.

LIMITATIONS:

Max:submersion depth 20M (66FT)
 Max liquid temperature 40°C (104°F)
 Allowed Ph range: 5-8.
 Maximum liquid density : 1100 kg/m³ (68lbs/ft³)

SHAFT SEALS:

Carriage seal: pre-assembled double seal running in an oil compartement.
 Material lower seal: silicon carbide-silicon carbide
 Material upper seal: tungsten carbide-tungsten carbide

BEARINGS:

Ball bearings with C3 clearance

DISCHARGE CONNECTION:

4-6" HOSE, ISO-G or NPT

MATERIALS:

Casted parts: Aluminium
 Outer Casting: Stainless steel
 Stator Housing: Aluminium
 Motor Shaft: Stainless steel
 Impeller and suction cover: Hard-Iron™
 Diffusers: Nitrle rubber
 Screws and nuts: Stainless steel
 O-rings: Nistrite rubber

ACCESSORIES:

Level regulator - Zinc anodes
 Tandem connection - Pump raft



MARINE APPLICATIONS

MARINE SALVAGE:

- once raised to surface level vessel need to be dewatered
- 10-16 majors, masters and matadors per project
- built-in controls allow are more portability
- 5 large salvage companies
- worldwide operations

MARINE APPLICATION:

- Runn-off water
- ballast water in pontoons chambers
- ballast water/ manholes
- tnk compartment wash down

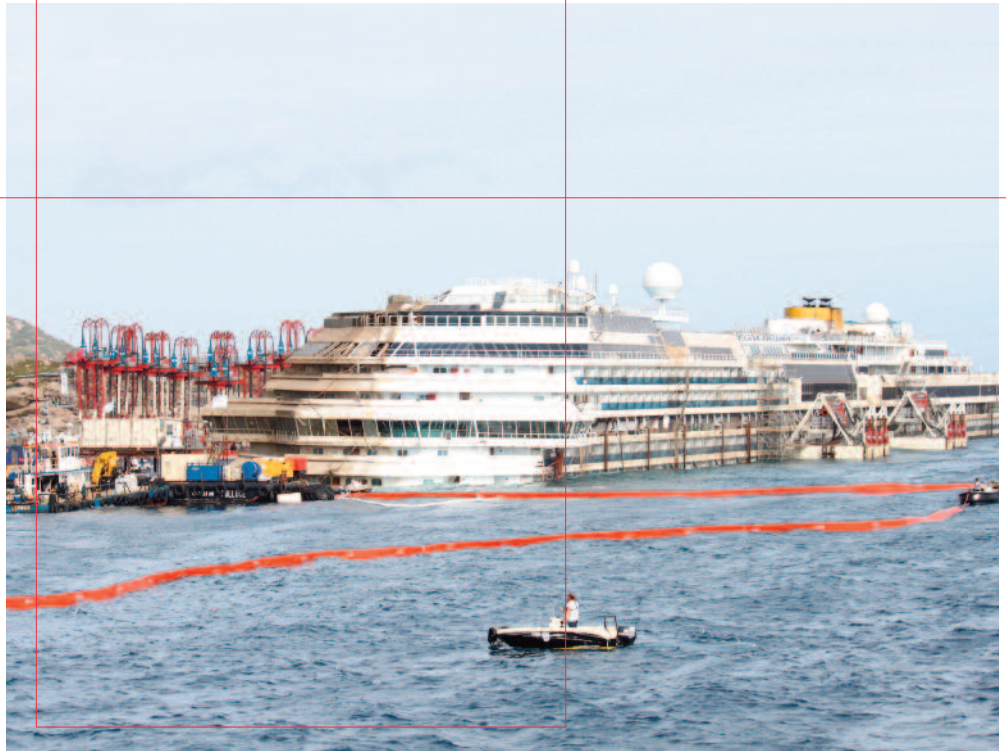
RECENT PROJECTS PERFORMED WITH SUBMERSIBLE PUMPS FOR BALLAST

The Mose project in Venice intended to safeguard the city and the lagoon from flood



Pontoons provided with submersible pumps

Concordia Wreck Removal Project: parbuckling and refloating operations



FAGIOLI

VIA FERRARIS, 13 - 42049 S.ILARIO D'ENZA (RE) - ITALY

PH+ 39 0522 6751

WWW.FAGIOLI.COM

INFO@FAGIOLI.COM