

Casting Iron Pump USE AND MAINTENANCE INSTRUCTIONS

MB & SMP SERIES PERIPHERAL ELECTRIC PUMPS

Carefully follow the instructions below to obtain the best performance and a long service life from your pump. Contact your local agent or MARQUIS Technical Office if you have any problem.

OPERATING CONDITIONS: These pumps must be installed in a dry

well-ventilated place with an ambient temperature of no more than 40°C (Fig.A). Fix the pump in place on a solid flat surface using suitable bolts to avoid vibration. The pump must be installed in a horizontal position to ensure that the bearings operate correctly. The diameter of the intake pipe must not be smaller than that of the intake mouth. If the intake height exceeds 4 meters. Use a pipe with a larger diameter. The diameter of the delivery pipe must be chosen to suit the flow rate and pressure required at the takeoff points. The intake pipe must be slightly angled up towards the intake mouth to avoid the formation of air locks (Fig.B). Make sure that the intake pipe is completely airtight and immersed in the water by at least half a meter to avoid the formation of vortexes. Always fit a foot valve at the end of the intake pipe. It is advisable to fit a non-return valve between the delivery mouth and flow rate adjustment gate valve to avoid dangerous water hammering in the event of the pump suddenly stopping. This measure is compulsory if the delivery water column is over 20 meters.

The pipe must always be fitted using the related brackets (Fig.C) to avoid transmitting stress to the pump body. Take care not to damage any part by overtightening the pipes when fitting them.

ELECTRICAL CONNECTIONS: The installer is responsible for making the electrical connections to the mains supply in compliance with the relevant national wiring regulations in force:

- note that pump shall be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA;

- make sure that the specifications on the pump rating plate and the rated line values are the same (Fig.D):

- connect the pump to an effective earth circuit and then connect up the phases following the diagram on the terminal block cover or rating plate;

- our single -phase motors are protected against overloads using a thermal device (overload cutout) fitted in the winding. Users are responsible for fitting a suitable protection device for three-phase motor;

- check that three-phase pumps rotate clockwise when looking at the pump from the motor fan side .swapping over two of the phase connections if they do not (Fig.E).

PRIMING: Fill the pump completely with clean water before switching it on. The water should be poured in through the priming plug (Fig.F). when you have completed the operation, screw the plug back in again and start the pump. The pump

should be primed again whenever it has not been used for a long period of time or when air has made its way into the system.

IMPORTANT: Never run the pump empty. If this happens by mistake. Switch the pump off, wait for it to cool down and then prime it using clean water.

MAINTENANCE: Our pumps do not require any maintenance provided one takes the following precautions: when there is a risk of freezing. Empty the pump through the drain plug on the bottom of the pump body, making sure you prime it when subsequently starting it again; check that the foot valve is clean at regular intervals; if the pump is to remain unused for a long period of time (e.g. in the Winter)(Fig.G), it is advisable to empty it completely, rinse it with clean water and store it in a dry place ;if the shaft does not turn freely, release it using a screwdriver inserting it in the special slot (Fig.H);if this is not sufficient to solve the problem, remove the pump body, undoing the relevant mounting bolts, and clean it thoroughly to remove any encrustation.

ATTENTION: If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

Never carry out any work on the pump without having first disconnected it from the mains supply.

Problem	Cause	solution
Motor won't start	<ul style="list-style-type: none">• No power• Impeller stuck	<ul style="list-style-type: none">• Check connection and voltage values• See section on maintenance
Motor turns without pumping water	<ul style="list-style-type: none">• Clogged filter• Excessive intake height• Air in intake	<ul style="list-style-type: none">• Clean filter• Move pump closer to water outlet level• Check intake pipe is airtight• Make sure foot valve is immersed by at least 500cm• Pump needs to be primed again
Flow rate insufficient	<ul style="list-style-type: none">• Intake height at limit• Filter partially clogged• Impeller blocked	<ul style="list-style-type: none">• Check intake height• Clean foot valve and, if necessary, whole intake pipe• Disassemble pump and carefully clean pump body and impeller
Tripped motor overload cutout	<ul style="list-style-type: none">• Overheated motor• Impeller stuck	<ul style="list-style-type: none">• Check voltage and ventilation• Release impeller (see section on maintenance)

Failure to take the above precautions could damage your pump and invalidate the guarantee.



Meaning of crossed-out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

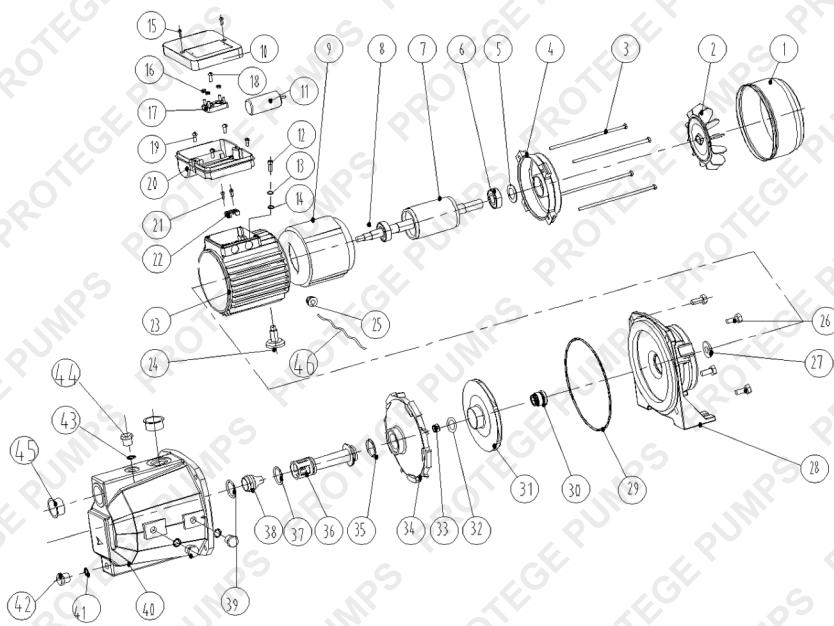
Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

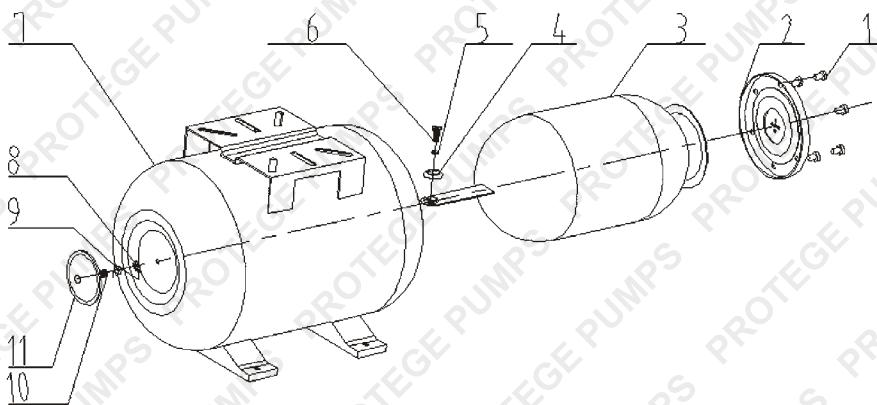
When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least free of charge.

Technical Data:

Type	Voltage (V)	Power (W)	Outlet pipe	Max. pump rate (L/H)	Max. Height (m)	Weight (Kg)
JET60A/B/C	230V/50Hz, 110V/60Hz	450	1"	3200	44	15.5
JET80A/B/C	230V/50Hz, 110V/60Hz	600	1"	3400	48	16
JET100A/B/C	230V/50Hz, 110V/60Hz	750	1"	3600	50	16.5
JET110A/B/C	230V/50Hz, 110V/60Hz	1100	1"	3800	52	16.8
JET60S	230V/50Hz, 110V/60Hz	450	1"	3000	42	11
JET80S	230V/50Hz, 110V/60Hz	600	1"	3200	46	11.5
JET100S	230V/50Hz, 110V/60Hz	750	1"	3500	48	12
JET110S	230V/50Hz, 110V/60Hz	1100	1"	3800	52	12.5
CGP900-JF1/C/S	230V/50Hz, 110V/60Hz	900	1"	3200	42	12.7/19.1
CGP1100-JF1/C/S	230V/50Hz, 110V/60Hz	1100	1"	3400	45	13.1/19.8
CGP1300-JF1/C/S	230V/50Hz, 110V/60Hz	1300	1"	3600	48	13.6/20
CGP600-JF2/C/S	230V/50Hz, 110V/60Hz	600	1"	3000	35	11.5/17
CGP800-JF2/C/S	230V/50Hz, 110V/60Hz	800	1"	3200	40	12.5/17.5
CGP1000-JF2/C/S	230V/50Hz, 110V/60Hz	1000	1"	3400	44	12.8/18
CGP1200-JF2/C/S	230V/50Hz, 110V/60Hz	1200	1"	3600	45	13/18.5



NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	Fan shell	17	Terminal	33	Lock nut
2	Fan	18	Screw	34	Diffuser
3	Bolt	19	Screw	35	O-ring
4	Motor behind cover	20	Terminal cover	36	Jet pipe
5	Undee gasket	21	Screw	37	O-ring
6	Bearing	22	Impacting	38	Nozzle
7	Rotor	23	Motor stator shell	39	O-ring
8	Washet	24	Support foot	40	Cast iron pump body
9	Motor stator	25	Cable gland	41	O-ring
10	Terminal cover	26	Screw	42	Copper charge plug
11	Capacitor	27	Washet	43	O-ring
12	Earth Screw	28	Motor foreside	44	Charge plug
13	Spring gasket	29	O-ring	45	Cover
14	Dentiform gasket	30	Mechanical seal	46	Cable
15	Screw	31	Impellor		
16	Nut	32	Washet		



No.	Description
1	Screw
2	Seal Holder
3	Membrane
4	Washer
5	O-ring
6	Gas
7	Pressure Tank
8	Washer
9	Nut
10	Nut
11	Air-cap



Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.

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