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KEY

The following symbols have been used in the discussion:



Situation of general danger. Failure to respect the instructions that follow may cause harm to persons and property.



Situation of electric shock hazard. Failure to respect the instructions that follow may cause a situation of grave risk for personal safety.



Notes and important remarks.

IMPORTANT WARNINGS AND SAFETY RECOMMENDATIONS

This manual concerns the product DAB E.SWIM / E.PRO.

GENERAL RISK FACTORS



Before installation, carefully read this manual which contains important information for use of the product.

This document must be kept so that it can also be consulted afterwards.



Installation and operation must comply with the local safety regulations in force in the country in which the product is installed. Everything must be done in a workmanlike manner.

Failure to respect the safety regulations not only causes risk to personal safety and damage to the equipment, but invalidates every right to assistance under guarantee.

INSTALLATION AND SERVICING BY SKILLED PERSONNEL



It is advisable that installation be carried out by competent, skilled personnel in possession of the technical qualifications required by the specific legislation in force.

The term skilled personnel means persons whose training, experience and instruction, as well as their knowledge of the respective standards and requirements for accident prevention and working conditions, have been approved by the person in charge of plant safety, authorizing them to perform all the necessary activities, during which they are able to recognize and avoid all dangers. (Definition for technical personnel **IEC 60364.**)



We suggest special maintenance at least once a year by qualified personnel.

USE ONLY BY COMPETENT PERSONS



The appliance may be used by children over 8 years old and by persons with reduced physical, sensory or mental capacities, or who lack experience or knowledge, on condition that they are under supervision or after they have received instructions concerning the safe use of the appliance and the understanding of the dangers involved. Children must not play with the appliance. Cleaning and maintenance intended to be carried out by the user must not be performed by children without supervision.

MECHANICAL SAFETY



NEVER LET THE PUMP RUN WITHOUT WATER.

Water also performs the functions of lubricating, cooling and protecting the seals: **dry running can cause permanent damage to the pump and will void the guarantee.** Always fill the filter before starting the pump.

- Protect the pump from unfavourable weather conditions.
- For long periods of inactivity or frost, remove all the caps and completely drain the pump body. Keep the caps!

ENGLISH

- To use as an outdoor pump, provide suitable protection and install the pump on an insulating base at least 100 mm high.
- Store the pumps in a dry covered area, with constant air humidity.
- Do not wrap the motor in plastic bags! Risk of condensation!
- If testing the seal of the pipes at a pressure higher than 2.5 bar, exclude the pump (close the gate valves before and after the pump).
- ATTENTION: do not lubricate the O-ring gasket of the transparent cover with oil or grease.
- Use only water and neutral soap to clean the transparent cover, do not use solvents.
- Periodically inspect and clean the pump filter.
- With the pump under the water level, close the gate valves on suction and delivery before removing the filter cover.



The pumps may contain small quantities of residual water from testing. We advise flushing them briefly with clean water before their final installation.

ELECTRICAL SAFETY



Use is allowed only if the electric system is in possession of safety precautions in accordance with the regulations in force in the country where the product is installed (for Italy CEI 64/2).



All repair and maintenance work must be carried out only after having disconnected the pump from the power supply mains.

RISKS LINKED TO HEATING



When the machine is operating, touch only the parts for settings and controls (operator keyboard): the other parts can reach temperatures higher than 40°C.

Keep inflammable materials far away from the machine.

Run the machine in ventilated environments.

TYPES OF PUMPED LIQUIDS ALLOWED



The machine has been designed and made for pumping fresh or salt water from swimming pools, clean or slightly dirty, with a limited content of fibres and small suspended solid particles.

The water temperature must not be higher than 40°C / 105°F.

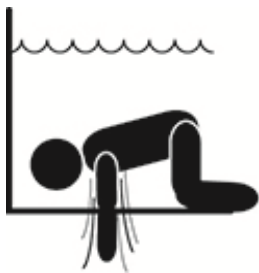
DO NOT USE THE PUMP WITH LIQUIDS WITH DIFFERENT CHARACTERISTICS!

Use of the pump with a concentrated amount of sand can cause early wear and decreased pump performance.



Do not add swimming pool chemicals (such as disinfectants, water treatment substances, etc.) directly to the pump or in front of the pump inlet: undiluted chemicals are aggressive and can damage the pump, while also voiding the guarantee.

SPECIFIC RISKS FOR SWIMMING POOLS, BATHING POOLS AND SIMILAR



Special warnings for the United States of America (U.S.A.):

SAFETY WARNINGS:

Suction entrapment hazard. Can cause serious injury or death.

To reduce the risk of entrapment the pump must be installed in accordance with the latest federal, state and local swimming pool codes and must be connected to a minimum of two functioning suction outlets per pump or otherwise installed in accordance with the latest APSP-7 standard.

Do not operate pump if any suction outlet cover is damaged, broken, missing or not securely attached.

The use of an approved ASME A 112.19.17 safety vacuum release system (SVRS) is recommended and may be required under federal (U.S.), state or local law.

This pool motor is NOT equipped with a Safety Vacuum Release System (SVRS).

SVRS helps prevent drowning due to body entrapment on underwater drains.

In some pool configurations, if a person's body covers the drain, the person can be trapped by suction.

Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

For information regarding SVRS requirements and the Virginia Graeme Baker Pool and Spa Safety Act visit www.cpsc.gov



Entrapment hazard

In swimming pools, bathing pools and similar facilities, the water recycling drains cause strong suction when the pump is activated. In this situation there is a serious risk: if a person (especially a child) covers the drain with his body, he could be trapped and held under water until he drowns.

There could be the same tragic outcome if long hair were caught in the drain, trapping the bather's head under water. Also necklaces, parts of swimming costumes or clothing and other objects used in the pool (for example a small life-belt) can be sucked into the drain, blocking the body of the wearer under water, with extreme consequences.

Evisceration hazard (by suction)

The circumstance of strong suction can cause the partial entrapment of limbs and organs, with extremely serious and sometimes fatal consequences.



This is a real risk: in the USA there were 74 documented cases of entrapment and evisceration between 1990 and 2004 (Source: CPSC, USA 2005).

It is therefore obligatory and indispensable to respect all the applicable national and local regulations.



Particular care must be taken in checking periodically that the grids on the suction openings are intact and clean.

Over time, the grids become deteriorated due to age, contact with water and exposure to the sun and to atmospheric agents: they must be checked regularly and with the greatest care, immediately evacuating people from the area if damage is found.



Dangerous pressures



During any operation on the system, air can get in and be pressurized. Compressed air can cause the sudden opening of the cover and cause damage, injuries and even death.

DO NOT RELEASE OR WORK ON THE COVER WHEN THE PUMP IS UNDER PRESSURE.



Use only for fixed facilities of swimming pools and bathing pools. Do not use for seasonal facilities that can be dismantled (that is, where the water retaining walls are deflated or disassembled in winter).

RESPONSIBILITY

The Manufacturer does not vouch for correct operation of the electropumps or answer for any damage that they may cause if they have been tampered with, modified and/or run outside the recommended work range or in contrast with other indications given in this manual.

The Manufacturer declines all responsibility for possible errors in this instructions manual, if due to misprints or errors in copying. The Manufacturer reserves the right to make any modifications to products that it may consider necessary or useful, without affecting their essential characteristics

1 INSTALLATION



The system must be used preferably in the technical area for installing swimming pool pumps.

In no case must it be run if exposed without protection to atmospheric agents.

The place of installation must be well ventilated.

1.1 Hydraulic connections

Follow these recommendations with care:



- Install the pump horizontally, on a flat and sturdy base, as close as possible to the edge of the pool.
- The pump is able to overcome a maximum difference in level of 4 m (with non-return valve).
- Install the filter and the pump in a protected, well ventilated place.
- Avoid letting the motor be immersed in water.
- For pump-system connections use only adhesives suitable for plastics.
- Provide adequate support for the suction and delivery pipes so that they do not weigh down on the pump.
- Do not make the couplings between the pipes too tight.
- Suction pipe diameter \geq pump inlet diameter.
- If a metal pipe is connected, fit a plastic coupling on the pump inlet.
- The suction pipe must be perfectly airtight.
- ATTENTION: before connecting the pipes, check that their inside is clean.
- To avoid problems in suction, install a foot valve and make a positive slope of the suction pipe towards the pump.

1.2 Electrical connection to the supply line



Attention: always respect the safety regulations! Electrical installation must be carried out by an expert, authorised electrician, who takes on all responsibility.



The system must be correctly and safely earthed as required by the regulations in force.

The mains voltage must be the same as that on the motor data plate.



Connect to the mains with a two-pole switch, with contact opening distance of at least 3 mm. The thermal magnetic circuit breaker and the power cables must be correctly sized.

The leakage current to earth is max. 3.5 mA. It is recommended

to use a type B differential switch. The system must be adequately sized. The pump must be fed by means of an isolation transformer or a differential switch, which must have a differential operating current no higher than 30 mA.



The mains terminals may still have dangerous voltage when the motor is stopped and for a few minutes after disconnecting from the power mains.



The line voltage may change when the electropump is started. The line voltage may undergo variations depending on other devices connected to it and on the quality of the line.

1.3 Electrical connections for auxiliary inputs and outputs



When it is not in use, the connector on the pump must be kept accurately closed, with the cap well tightened. Only in this way is the necessary resistance to water and damp guaranteed.

1.4 Rapid starting and stopping of the pump ("Manual" mode).

The pump leaves the factory and is delivered with Priming enabled: if the programming of Priming is not changed (see par. 6.2.7), when switched on for the first time, the pump may start at top speed.



Before pressing "RUN/STOP", make sure that the valves are open, the pipes are not blocked, and keep away from the filter and from parts that can be pressurized.

Check well all the IMPORTANT SAFETY WARNINGS AND RECOMMENDATIONS.

2 MAINTENANCE



Disconnect the power supply before starting any work on the system.

The system requires no routine maintenance operations.

Periodically inspect and clean the pump filter.

We suggest special maintenance at least once a year by qualified personnel.

3 DISPOSAL

This product or its parts must be disposed of in an environment-friendly manner and in compliance with the local regulations concerning the environment. Use public or private local waste collection systems.

4 GUARANTEE

Any use of faulty material or manufacturing defects of the appliance will be eliminated during the guarantee period contemplated by the law in force in the country where the product is purchased, by repair or replacement, as we decide.

The guarantee covers all substantial defects that can be assigned to manufacturing faults or to the material used if the product has been used correctly, in accordance with the instructions.

The guarantee is void in the following cases:

- attempts to repair the appliance,
- technical alterations to the appliance,
- use of non-original spare parts,
- tampering,
- inappropriate use, for example industrial use.

Excluded from the guarantee:

- parts subject to rapid wear.

When making a request under guarantee, apply to an authorised technical assistance service, presenting proof of purchase of the product.