

# DRBlue Submersible Electric Pump

Supplied by Centenary Hire. Ph: (07) 3375 5068

## ! CAUTION !

### Installation



- Installation operations must be carried out by skilled technical staff capable of understanding the contents of the manual.
- Keep out of reach of children.
- Not suitable for unskilled and/or incompetent persons.
- Do not use the electric pump for purposes other than those for which it was designed and manufactured.

### Electric connections



- Before starting the pump, check that the plug is firmly connected to the socket or the electric connection has been made correctly. The electric system must have a ground connection in good working order.
- If using models with integral float switches, such as the DR Blue, take care to turn off the power supply before any cleaning or maintenance procedures to prevent accidental start-ups.
- Do not use the electric pump for lifting flammable or explosive liquids
- Do not allow the free end of the electric cable to come into contact with liquids of any kind
- Never handle or lift the electric pump by the power supply or float switch cables

### Security



- Do not place your hands or objects near and/or insert them in the electric pump's intake or outlet.
- When handling the electric pump, especially if it has previously been installed, use suitable personal protection equipment such as safety footwear, gloves, goggles and a leather apron or similar protection.

## SAFETY

Do not allow the electric pump to be used by children or non-qualified persons.

Do not use the electric pump to decant inflammable fluids.

Do not install the electric pump in confined areas where there may be gas or a risk of explosions.

Do not modify the pump for any reason (such as fitting couplings or carrying out drilling or finishing work, etc...).

Do not put your fingers or other objects in the intake and delivery holes.

Ensure the end of the electric power cable does not come into contact with the fluid.

When carrying out installation, checking or maintenance operations on the electric pump, always use Personal Protective Equipment (PPE), i.e. regulation garments and equipment. Accident-prevention shoes and gloves, safety goggles and leather aprons must be always be worn.

Before handling the fitted product, wash it thoroughly with running water.

Only connect the electricity supply once the electric pump has been correctly installed.

Unplug the unit at the mains before carrying out any maintenance and/or cleaning operations or when simply removing the pump from the fluid.

Use jets of water and/ or detergent to clean the machine before carrying out any maintenance and/or cleaning operation.

Do not obstruct the fluid intake and delivery pipes.

In the event of damage, stop the pump immediately.

Failure to comply with the above could result in impaired pump safety.

## CONDITIONS OF USE

Electric pumps not suitable for fluids for alimentary use.

The **DRBLUE** model electric pumps are designed to treat fluids such as clear water, dirty water or sewage. The electric pump normally works completely immersed in the fluid in order to prime itself and to pump out. The pump must be immersed completely in the fluid so that the latter can cool the motor sufficiently. This way the inlet will not take in air and the pump will operate correctly.

In any situation in which the pump cannot be completely immersed the utmost care must be taken to ensure the motor does not overheat.

The **DRBLUE** models are designed for the evacuation of clear water or dirty water containing small solid bodies.

Number of start-ups per hour: A maximum of 20 evenly spaced start-ups.

Immersion depth: maximum of 20m beneath the fluid level

Temperature of fluid treated: maximum of 40 °C, or 60 °C with

discontinuous operation. Density of fluid treated: maximum of 1.1 Kg/dm<sup>3</sup> PH of fluid to be pumped: between 6 and 14.

If the electric pump is used in swimming pools and suchlike, people must not bath in or come into contact with the treated fluid until the pump has been removed from the pool.

Users must follow the safety rules in force in the country of use, as well as applying their commonsense, and make sure the routine cleaning and maintenance operations are carried out correctly.

It is the installer's duty to check the correct environmental conditions for use of the pump, ensuring they guarantee safety and hygiene.

The responsibilities of the staff authorised to use the electric pump are delegated to the customer.

## HANDLING & INSTALLATION

The electric pumps of 30kg or less can be handled and lifted manually using the special handle located in the upper section of the pump. Do not use the electric power cable or the floating switch cable to lift or move the pump.

Using a hose union, connect the delivery pipe to a hose with an internal reinforcement coil and a diameter which is the same size as or larger than the electric pump outlet.

## FLOATING SWITCH

The electric pump is supplied with a floating switch and its functioning is completely automatic. Make sure that there is nothing around that could obstruct the movement. It is important that the cables do not get in each other's way, twisted up or stuck in any jutting parts or grips inside the tank.

The floating switch has an adjustable stroke to allow regulation of the on and off levels. Make sure that the minimum level does not fall below the pump's upper shield.

## RESIDUAL RISKS

The risks that cannot be eliminated by the safety measure adopted by the manufacturer are caused by incorrect use of the pump or by the user's failure to comply with the safety regulations described in this manual. In particular, the user must ensure no people and/or animals come into contact with the fluid when the pump is working.

## MAINTENANCE

The pump maintenance and repair operations must be carried out by workers authorised by the manufacturer. Failure to comply with these instructions will jeopardise the unit's safety.

Before any cleaning and/ or maintenance operations are carried out on the electric pump, the power supply must be switched off.

Use the special handle to remove the submersible electric pump from the tank.

**ATTENTION:** Before carrying out any operations, check the pump temperature. Only work on the pump when it is at room temperature. Clean the electric pump thoroughly, using a jet of water or specific products to clean all its parts.

When disposing of the waste material, follow the antipollution rules in force.

Replace any broken or worn parts with original spare parts only.

Given the likelihood that work on the electric pump will be carried out in confined spaces such as vats, wells, cesspools, tanks or cisterns, do not underestimate the risks caused by potentially poisonous exhalations.

## STORAGE

Store the electric pump in a suitable place, out of reach of children and unauthorised persons.

## FLOW RATE (LITRES / MIN)

