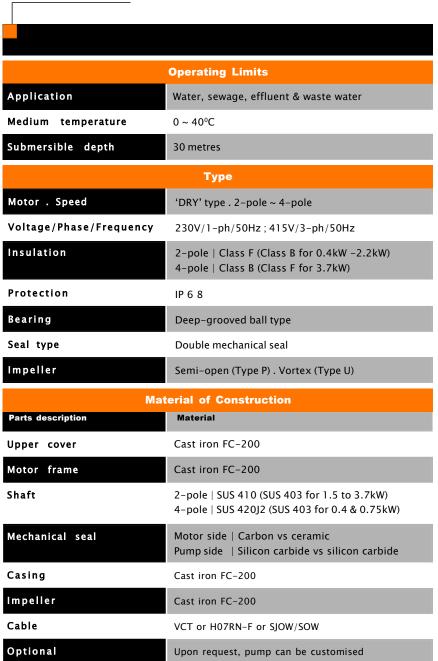
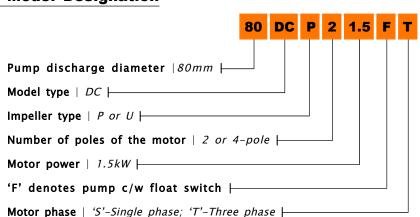
DRACO | D C

Technical data & Dimen



Model Designation



'L' & 'A' in some model designations denote that it is a 'developed' model from an existing predecessor model



General

The 'Draco' features a range of robust, compact and reliable submersible pumps, particularly suitable for effective handling of sewage and wastewater containing fecal or fibrous matter in a wide range of applications in both commercial buildings and industrial plants. The hydraulics with the various impeller options, ensures a blockage-free operation.

Draco, available in both 2 or 4pole motor, covers a wide range of flowrates and heads.

The **Draco** pumps are designed for permanent submerged installation, e.g. by means of an auto coupling or guide rail system; or for free-standing installation on a ring stand with a flexible pipe connection.



'Auto-guide rail system' Allow for auick convenient way for pump to be maneuvered for inspection. repair and maintenance without the need to enter

Design Features

IMPELLERS | The Draco is designed to be fitted with various impeller types to suit different applications. These include the semiopen single or double vane and the semi-open vortex type. Depending on the medium pumped, the different designs ensure smooth pumping preventing clogging.

Fitted with superior abrasion resistant silicon carbide faced double mechanical shaft seal, with the single coiled spring in an oil chamber. This adds flexibility to accommodate misalignment, shaft deflection, as well as breaking away shock loading.

DOUBLE MECHANICAL SEAL

MOTOR & 'AUTO-CUT' **PROTECTOR** | The high efficiency 'dry' type motor design minimises operation cost. It has built-in 'autocut' motor protector, which automatically cuts off power to the motor when there is a power surge or overheating; and auto restarts once the temperature drops to about 60~70°C.

To attain the highest insulation class, the stator winding impregnated with varnish and heat dried in industrial oven for 8 hours.

FLOAT SWITCH | Versions installed with external float switch for automatic start/stop operation are available.

Applications

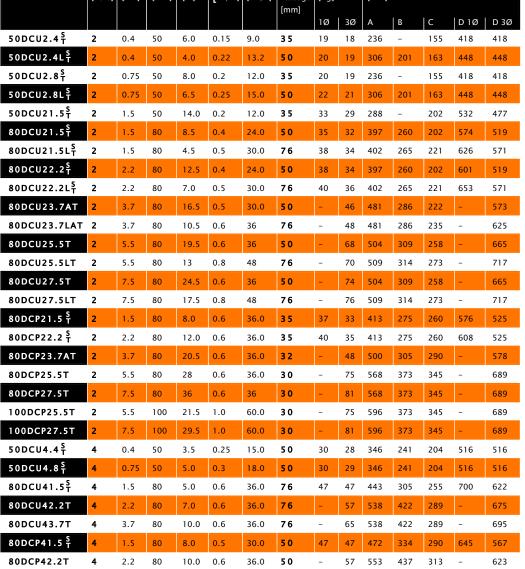
- Drainage of waste water from attenuation, purifying and sewage tanks in a water treatment plant.
- Drainage of waste water containing fibrous additives from leather factories, dyeing and food processing factories.
- Pumping of sewage and waste water in buildings including hotels, hospitals, schools, restaurants, commercial buildings, etc.
- Application in livestock farms and agriculture.
- General drainage application from sump pits, tanks and ponds.

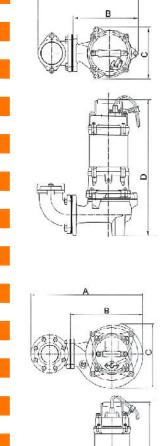


Application in a water treatment









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As MONOFLO Pumps is constantly improved, we reserve the right to make specification changes without prior notice and without incurring liability

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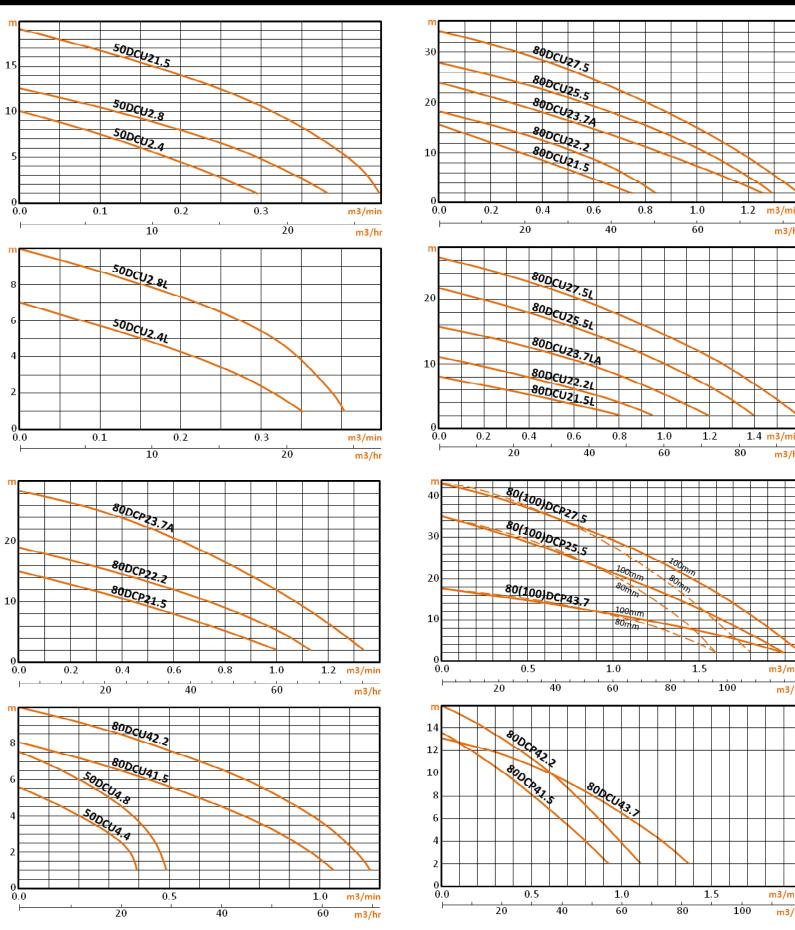
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For inquiries, services & spare parts



Performance Curves 50 Hz | 2 & 4-pole | 50mm . 80mm . 100mm



'AUTO-CUT' PROTECTOR ⊢

The 'auto-cut' protector, a standard feature for all motor sizes of 7.5kW and below, is integrated in the motor. It protects the motor from 'burning' by automatically cutting off the motor circuit in the event of power surge or excessive heat built-up. The 'auto-protector' switch automatically restarts the motor once the temperature drops to about 60~70°C; or when the pump has been rectified from the cause of the power surge.

SHAFT |

High-tensile stainless steel shaft to handle maximum loading. It is supported by upper and lower ball bearings.

MECHANICAL SEAL

Superior abrasion resistant 'double' mechanical seal is fitted as standard for the AF Series. With single spring coiled in oil chamber designed for more flexibility to accommodate misalignment, shaft deflection and break away shock loading. The mating faces at the impeller-side is SiC against SiC; whereas the motor-side is of carbon against ceramic.

OIL CHAMBER (LUBRICANT)

Separate oil chamber, lubricating and cooling the mechanical seals.

AIR VENT PLUG |-

DISCHARGE ELBOW |-

IMPELLER

Draco DC Series comes in different impeller design or types offering a range of capacities and lifts.

P-TYPE. Semi-open Single or Double-vane



Excellent for application in handling impurities and sludge with solid particles with minimal clogging. The ample free passages reduces the risk of fouling.

U-Type. Semi-open Vortex



Produces a vortex (whirlpool effect) coupled with a wide pump casing, allows fibrous matters and other solid waste to pass through, without contact with the impeller.

POWER CABLE

Available in VCT or H07RN-F or SJOW/SOW. Variable length of cable is available upon request.

CABLE BASE (ENTRY)

Epoxy resin sealed cable base to prevent the intrusion of moisture into motor through the core wires.

UPPER BEARING

→ MOTOR FRAME (CASING)

→ MOTOR

High-efficiency, squirrel caged 'dry-type' induction motor, designed to ensure energy saving operations. Housed in a water tight casing, highest insulation class is achieved by 8 hours of stator winding impregnated with varnish heat dried in industrial oven.

→ LOWER BEARING

High grade, deep grooved, ball bearing, which is sealed-forlife type. As the bearings are permanently lubricated by grease, there is no requirement for lubricating oil.

MECHANICAL SEAL BRACKET

The mechanical seal bracket is designed with 'oil elevator'. The 'oil elevator' ensures that the upper mating surfaces of the mechanical seal are lubricated and cooled in the event when the oil level in the oil chamber is low. With this feature, the mechanical seal is protected, and its operating life prolonged.

- PUMP CASING

OIL SEAL

Cut-away construction

of DRACO

An oil lip seal is mounted outside of the seal chamber to prevent solids from gathering around the mechanical seal faces.

