

SCUBA* SERIES

CLOSE-COUPLED SUBMERSIBLE PUMPS

APPLICATIONS

- Water supply from rain water tanks or reservoirs, 6" wells, basins and watercourses.
- Sprinkler systems.
- Pressure boosting with pump inserted directly in tank or well, to avoid suction problems and noise.
- Water display, fountains.

SPECIFICATIONS

- **Delivery:** up to **7,5 m³/h.**
- **Head:** up to **75,5 m.**
- **Maximum** pump overall **diameter: 128 mm.**
- **Maximum immersion depth: 20 m.**
- **Maximum** permissible quantity of **suspended sand: 25 g/m³.**
- **Passage of solids** up to **2.5 mm.**
- **Delivery port: Rp 1 1/4".**
- **Rated motor power: 0.55 to 1.1 kW.**
- **Single-phase motor:** 220-240 V, 50 Hz, built-in automatic reset overload protection. A control box with 2-pole switch and capacitor is available on request.
- **Three-phase motor:** 380-415 V, 50 Hz; overload protection to be provided by user and installed in the control box (see control box section).
- Maximum supply voltage variations: $\pm 5\%$
- Class F insulation.
- Can also operate in **horizontal position.**
- Maximum number of **starts per hour**, at regular intervals:
 - 25** for motors up to **0.9 kW.**
 - 20** for motors **1.1 kW** and up.
- Maximum temperature of water in contact with the motor: 40°C (continuous use).

CONSTRUCTION FEATURES

- Close-coupled, multiple-impeller submersible electric pump.
The liquid end is located under the motor, which is cooled by the pumped liquid.

* Named SC for UK market.



• Dry motor

The electric motor is protected by a double seal with an oil chamber.

• Sealing system

The silicon carbide mechanical seal, highly resistant to abrasion and wear, and the lip seal, continuously lubricated thanks to the special design of the oil chamber, ensure the absolute tightness of the motor seal.

In the event of dry running, the sealing system will not be damaged and the motor will not suffer from infiltration.

The oil used complies with FDA (FOOD AND DRUG ADMINISTRATION) standards.

- Single-phase models with float (CG) are also available.

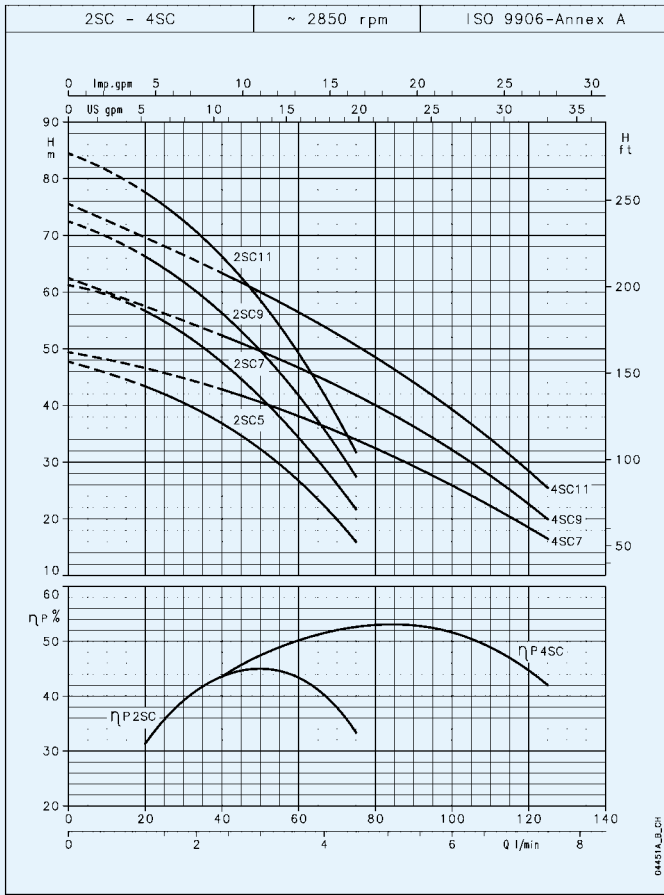
TABLE OF MATERIALS

| PART | MATERIAL |
|------------------------------------------------------------------------------------------------|------------------------------------------|
| Outer sleeve, Upper support, Suction screen, Shaft, Screws and tie-rods, Diffusers | STAINLESS STEEL AISI 304 - DIN 1.4301 |
| Impeller | NORYL |
| Upper cap, Mechanical seal housing | TECHNOPOLYMER |
| Lower bearing support | DIE-CAST ALUMINIUM |
| Lower bearing | SPECIAL RUBBER |
| Elastomers | NITRILE RUBBER (NBR) |
| Mechanical seal | SILICON CARBIDE/ SILICON CARBIDE |

All the nitrile rubber, polyurethane and polycarbonate components are suitable for usage with foodstuffs and comply with FDA specification (the Food and Drug Administration is the US agency for the safeguard of public health).

HYDRAULIC PERFORMANCE TABLE AT 2850 rpm

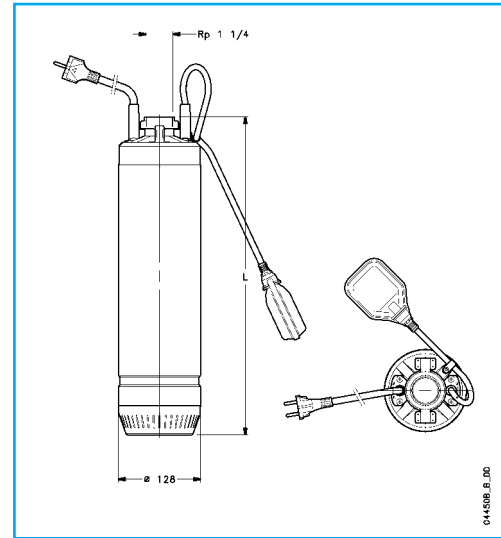
DIMENSIONS AND WEIGHTS



| PUMP TYPE | DIMENSIONS | WEIGHT |
|-----------|------------|--------|
| | L mm | |
| 2SC5 | 496 | 13.5 |
| 2SC7 | 536 | 15 |
| 2SC9 | 561 | 16 |
| 2SC11 | 606 | 18 |
| 4SC7 | 511 | 14.5 |
| 4SC9 | 536 | 15.5 |
| 4SC11 | 581 | 17.5 |
| 2SC5T | 496 | 13.5 |
| 2SC7T | 536 | 15 |
| 2SC9T | 561 | 16 |
| 2SC11T | 606 | 18 |
| 4SC7T | 511 | 14.5 |
| 4SC9T | 536 | 15.5 |
| 4SC11T | 581 | 17.5 |

Singlephase version with float switch available (SCUBA CG)

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HYDRAULIC PERFORMANCE TABLE AT 2850 rpm

| PUMP TYPE | RATED POWER | | Q = DELIVERY | | | | | | | | | | |
|---------------------------------------|-------------|------|-------------------|------|------|------|------|------|------|------|------|------|-----|
| | | | l/min | 0 | 20 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 |
| | kW | HP | m ³ /h | 0 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | 4.5 | 4.8 | 6 | 7.5 |
| H = TOTAL HEAD METERS COLUMN OF WATER | | | | | | | | | | | | | |
| 2SC5(T) | 0.55 | 0.75 | 47.7 | 43.4 | 40.5 | 36.8 | 32.3 | 26.7 | 15.9 | | | | |
| 2SC7(T) | 0.75 | 1 | 61.2 | 56.7 | 52.7 | 47.6 | 41.5 | 34.3 | 21.7 | | | | |
| 2SC9(T) | 0.9 | 1.2 | 72.4 | 66.3 | 61.8 | 56.3 | 49.6 | 41.8 | 27.4 | | | | |
| 2SC11(T) | 1.1 | 1.5 | 84.5 | 77.6 | 72.6 | 66.3 | 58.6 | 49.2 | 31.7 | | | | |
| 4SC7(T) | 0.75 | 1 | 49.4 | | | 42.8 | 40.6 | 38.1 | 34.0 | 32.5 | 25.9 | 16.5 | |
| 4SC9(T) | 0.9 | 1.2 | 62.5 | | | 52.3 | 49.6 | 46.7 | 41.8 | 40.1 | 32.2 | 19.9 | |
| 4SC11(T) | 1.1 | 1.5 | 75.5 | | | 63.4 | 60.0 | 56.4 | 50.6 | 48.5 | 39.3 | 25.4 | |

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| PUMP TYPE | INPUT POWER* | INPUT CURRENT* | CAPACITOR |
|-----------|--------------|----------------|------------|
| | kW | 220-240 V A | μF / 450 V |
| 2SC5 | 0.93 | 4.37 | 16 |
| 2SC7 | 1.15 | 5.19 | 25 |
| 2SC9 | 1.32 | 5.88 | 25 |
| 2SC11 | 1.63 | 7.25 | 30 |
| 4SC7 | 1.18 | 5.28 | 25 |
| 4SC9 | 1.38 | 6.17 | 25 |
| 4SC11 | 1.76 | 7.85 | 30 |

* Maximum value in specified range

| PUMP TYPE | INPUT POWER* | INPUT CURRENT* | INPUT CURRENT* |
|-----------|--------------|----------------|----------------|
| | kW | 220-240 V A | 380-415 V A |
| 2SC5T | 0.86 | 2.81 | 1.62 |
| 2SC7T | 1.09 | 4.12 | 2.38 |
| 2SC9T | 1.27 | 4.40 | 2.54 |
| 2SC11T | 1.45 | 4.68 | 2.70 |
| 4SC7T | 1.12 | 4.16 | 2.40 |
| 4SC9T | 1.33 | 4.50 | 2.60 |
| 4SC11T | 1.59 | 4.94 | 2.85 |

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