

# 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.

### SPECIFICATIONS

- **Delivery:** up to **7 m<sup>3</sup>/h.**
- **Head:** up to **80 m.**
- **Maximum** pump overall **diameter: 128 mm.**
- **Maximum immersion depth: 20 m.**
- **Maximum** permissible quantity of **suspended sand: 25 g/m<sup>3</sup>.**
- **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.



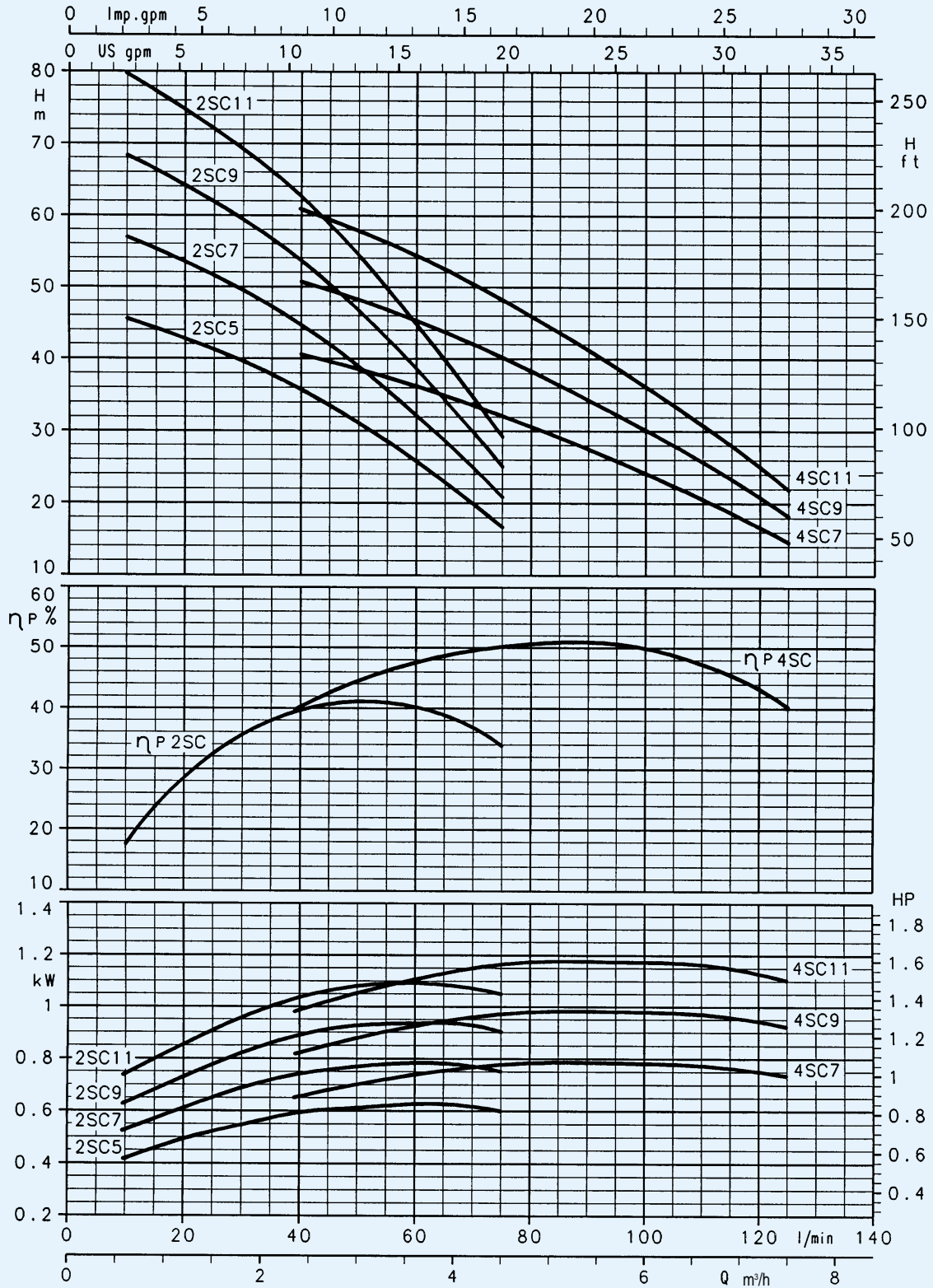
- **Dry motor**  
The electric motor is protected by a double seal with an oil chamber.
- **Sealing system**  
The silicon carbide mechanical seal, highly resistant to abrasion and wear, and the lip seal, continuously lubricated thanks to the special design of the oil chamber, ensure the absolute tightness 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 standards concerning oils in contact with foodstuffs and satisfies the purity requirements established by the annex to G.U. no. 104 of 20/04/1973; it also 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

**SCUBA\* SERIES  
OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz**



**SCUBA\***

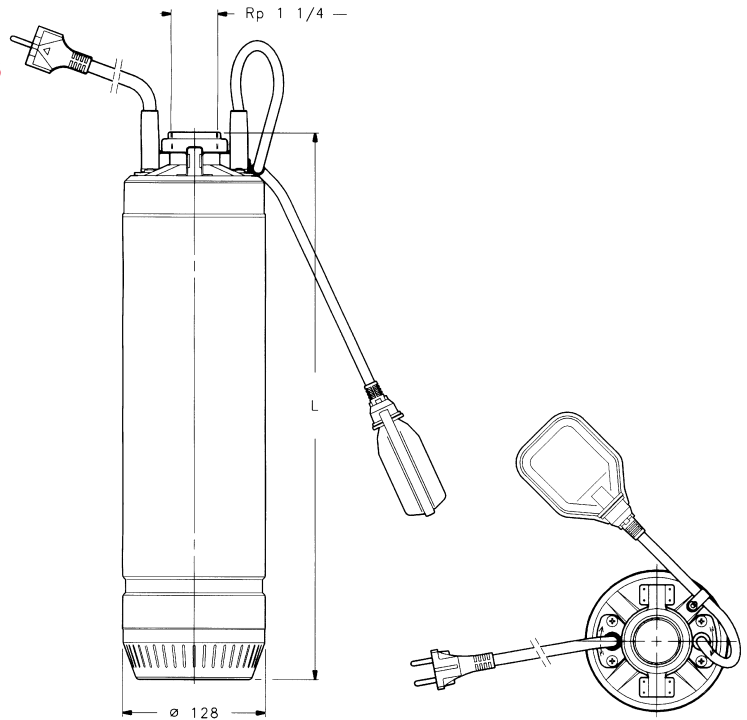
These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

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## DIMENSIONS AND WEIGHTS

PUMP TYPE		L mm	WEIGHT kg
SINGLE-PHASE 220-240 V**	THREE-PHASE 380-415 V		
2SC5	2SC5T	496	13,5
2SC7	2SC7T	536	15
2SC9	2SC9T	561	16
2SC11	2SC11T	606	18
4SC7	4SC7T	511	14,5
4SC9	4SC9T	536	15,5
4SC11	4SC11T	581	17,5

\*\* Single-phase versions available with float switch (SCUBA CG).



## SCUBA\* SERIES HYDRAULIC PERFORMANCE TABLE AT 2850 rpm

PUMP TYPE		NUMBER OF STAGES	MOTOR POWER		ABSORBED POWER		RATED CURRENT		CAPACITOR		Q = DELIVERY														
SINGLE-PHASE 220-240 V 50 Hz	THREE-PHASE 380-415 V 50 Hz		kW	HP	kW	kW	SINGLE-PHASE 220-240 V	THREE-PHASE 380-415 V	µF	V	H = TOTAL HEAD METERS COLUMN OF WATER														
					SINGLE-PHASE	THREE-PHASE					l/min	0	10	20	30	40	50	60	80	100	120				
											m <sup>3</sup> /h	0	0,6	1,2	1,8	2,4	3	3,6	4,8	6	7,2				
2SC5	2SC5T	4	0,55	0,75	0,92	0,85	4,2	1,6	18	450	48	46	43	40	36	31	26								
2SC7	2SC7T	5	0,75	1	1,15	1,05	5,2	1,9	25	450	60	57	53	50	45	39	32								
2SC9	2SC9T	6	0,90	1,2	1,32	1,25	5,8	2,1	25	450	72	68	64	60	54	47	39								
2SC11	2SC11T	7	1,1	1,5	1,5	1,5	6,6	2,6	30	450	84	80	75	69	63	54	45								
4SC7	4SC7T	4	0,75	1	1,2	1,1	5,4	2	25	450	45				40	38	36	30	24	17					
4SC9	4SC9T	5	0,90	1,2	1,4	1,35	6,3	2,3	25	450	58				51	48	45	38	30	20					
4SC11	4SC11T	6	1,1	1,5	1,65	1,6	7,4	2,7	30	450	69				61	58	55	46	36	25					

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