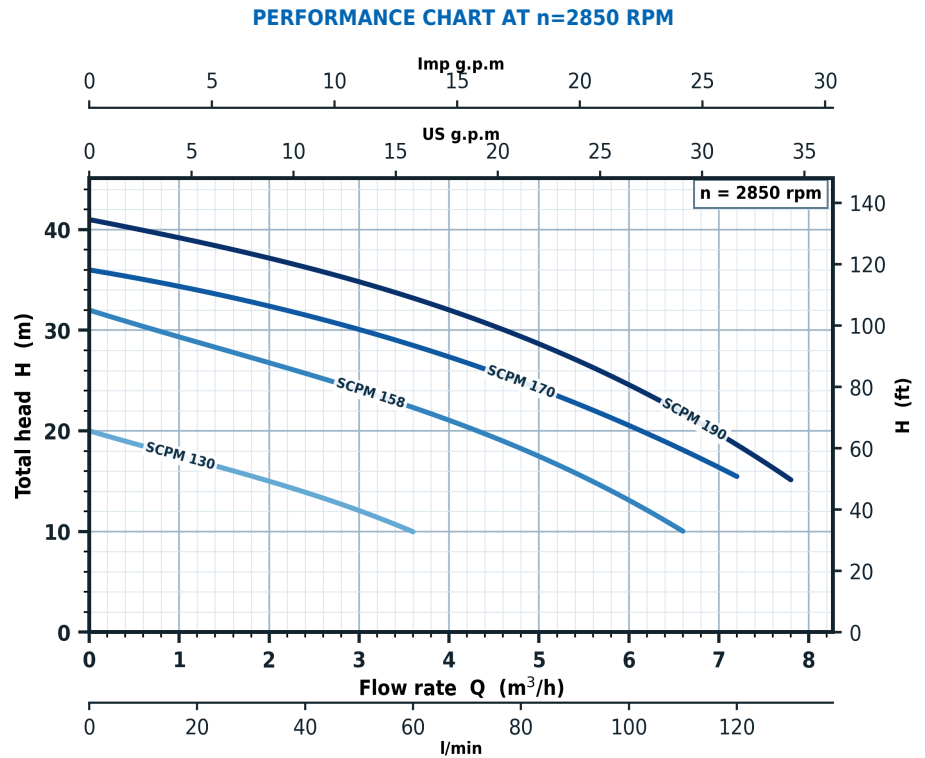


SATTE SCPM Centrifugal Pump



Curves show the published flow range for each model. Clean water at 20 C, tolerances to ISO 9906 Annex A.

Typical Applications

- General water transfer between tanks, cisterns and reservoirs.
- Garden and field irrigation, sprinkler and hose supply.
- Domestic and light commercial water supply at moderate head and flow.
- Booster duty on gravity-fed supplies where flow matters more than pressure.
- Circulation duty on small process, washing and cooling systems.

Operating Conditions

- Clean water, non-flammable and non-explosive, free of solid particles and fibres.
- Liquid temperature to +60 C; maximum ambient temperature +40 C.
- Non-self-priming: fill the suction line and casing before starting.
- Total suction lift up to 8 m; a foot valve is recommended.
- Closed brass impeller gives a flatter curve than the peripheral SDP range.
- Motor totally enclosed, fan-cooled, protection IP44, insulation class B.
- Do not run dry; provide a low-level cut-out on tank-fed installations.

Materials of Construction

- **Pump body:** Cast iron
- **Impeller:** Brass, closed
- **Mechanical seal:** Ceramic / graphite
- **Motor housing:** Aluminium alloy
- **Shaft:** Stainless steel AISI 420
- **Motor:** Two-pole, 2850 rpm

SATTE SCPM Technical Data

Technical Data

Motor			Voltage	Current (A)		m	m3/h	Inch		kg	mm
Model	kW	HP	Supply	In	Ist	Max H	Max Q	rpm	DN	Weight	L x W x H
SCPM 130	0.37	0.5	1~ 220-240 V	2.5	11	20.0	4	2850	1"x1"	8.5	270x190x240
SCPM 158	0.75	1.0	1~ 220-240 V	5.2	23	32.0	7	2850	1"x1"	14	305x190x260
SCPM 170	1.1	1.5	1~ 220-240 V	7.0	32	36.0	7	2850	1"x1"	21	346x230x293
SCPM 190	1.5	2.0	1~ 220-240 V	10.0	45	41.0	8	2850	1"x1"	21	380x265x325

Head-flow data is the published performance of the series, tested on clean water at 20 C at 2850 rpm. Tolerances to ISO 9906 Annex A. Maximum head is the head at zero flow; maximum flow is the highest published flow for the model.

SUCTION CONDITIONS: this is a surface-mounted series operating on suction lift. The achievable lift falls as liquid temperature and site altitude increase. At approximately 1,200 m altitude, atmospheric pressure is about 12% below sea level, reducing achievable suction lift by roughly 1.2 m. Keep the suction line short, airtight and fully flooded.

Currents are calculated nominal values for a two-pole motor (single phase at 230 V, three phase at 400 V). In is the full-load running current and Ist the direct-on-line starting current. Confirm against the motor nameplate before sizing cable, starter or overload.

Select the duty point within the published flow range. Operating far to the right of the range overloads the motor; operating far to the left causes heat build-up in the pump.

Dimensions are pump overall length x width x height in millimetres, as published for the series. Net weight is for the pump with standard motor and cable. Currents shown are the published full-load values where available.

Performance Table

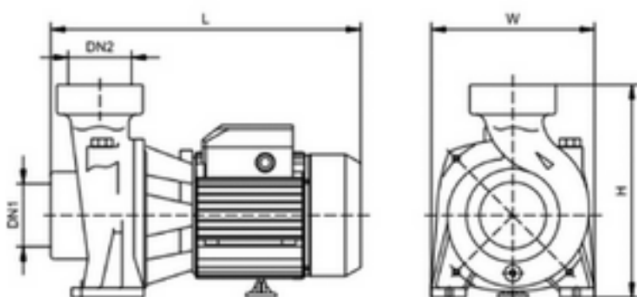
Total head H (m) against flow rate Q (m³/h) at 2850 rpm, on clean water at 20 C. Motor power P2 is the standard motor rating for each model.

Motor			Q (m ³ /h)													
Model	kW	HP	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	7.8
SCPM 130	0.37	0.5	20.0	18.5	17.0	15.5	14.0	12.0	10.0							
SCPM 158	0.75	1.0	32.0	30.5	29.0	27.5	25.8	24.0	22.0	20.5	18.5	16.0	13.0	10.0		
SCPM 170	1.1	1.5	36.0	35.0	34.0	33.0	31.5	30.0	28.5	26.5	25.0	23.0	20.5	18.0	15.5	
SCPM 190	1.5	2.0	41.0	40.0	39.0	38.0	36.5	35.0	33.0	31.0	29.0	27.5	25.0	22.0	18.5	15.0

Blank cells indicate flows outside the published range for that model.

Solids handling: Not suitable for solids-bearing liquids. Discharge connection: 1" x 1".

Dimensions



L overall length

W overall width

H overall height

Dimensioned outline for the series. Per-model overall dimensions are tabulated above. Certified drawings are available on request for final design.