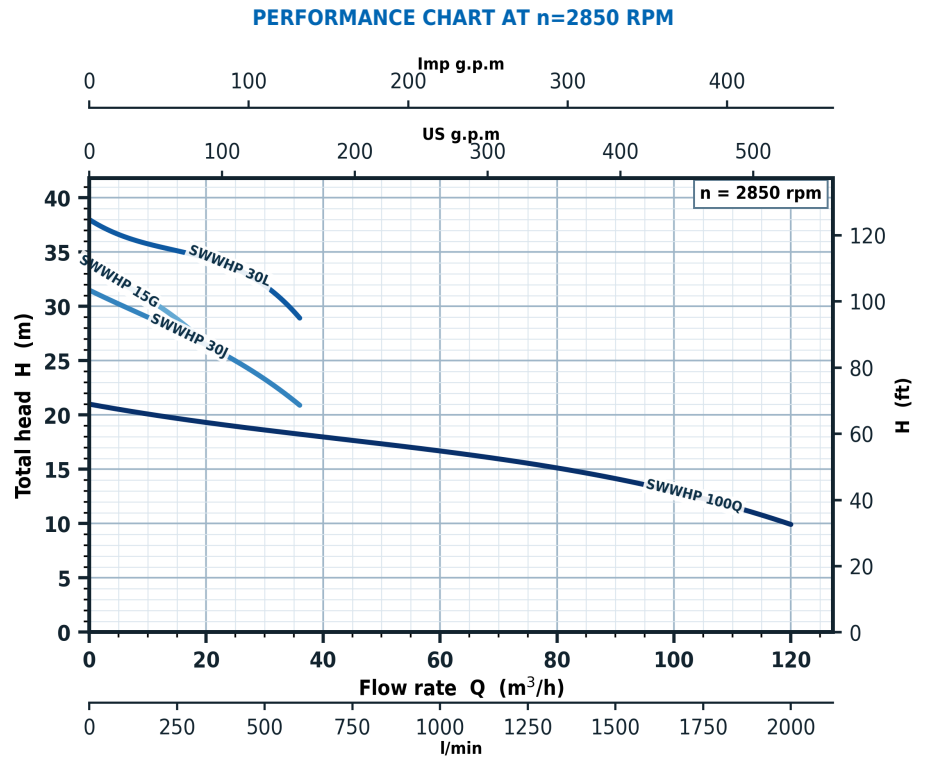


SATTE SWWHP

Heavy-Duty Submersible Sewage Pump



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

Typical Applications

- Heavy-duty municipal sewage transfer and main pumping stations.
- Industrial effluent containing suspended solids up to 100 mm.
- Sludge handling and recirculation in treatment works.
- Emptying of collection traps and large interceptors.
- Agricultural slurry and process washdown collection.

Operating Conditions

- Dirty water not chemically aggressive towards the pump materials.
- Suspended solids to a maximum of 100 mm diameter.
- Liquid temperature to +35 °C; maximum ambient temperature +40 °C.
- Maximum immersion depth 8 m; two-pole induction motor at 2850 rpm.
- Motor protection IP68, insulation class B, continuous service S1.
- Three-phase 380 V / 50 Hz; 60 Hz available on request.
- Built-in thermal protector; 8 m power cable supplied.

Materials of Construction

- **Pump body:** Cast iron
- **Impeller:** Cast iron, channel type
- **Mechanical seal:** SiC/SiC lower, oil chamber
- **Motor housing:** Cast iron
- **Shaft:** Stainless steel AISI 431
- **Cable:** 8 m power cable

SATTE SWWHP

Technical Data

Technical Data

	Motor		Voltage	Current (A)		m	m ³ /h		Inch	kg	mm
Model	kW	HP	Supply	In	Ist	Max H	Max Q	rpm	DN	Weight	L x W x H
SWWHP 15G	3.0	4.0	3~ 380-415 V	6.3	28	34.0	18	2850	2"	48.5	305x255x625
SWWHP 30J	4.0	5.5	3~ 380-415 V	8.2	37	31.5	36	2850	3"	66.5	365x265x675
SWWHP 30L	5.5	7.5	3~ 380-415 V	11.1	50	38.0	36	2850	3"	73	365x265x705
SWWHP 100Q	7.5	10.0	3~ 380-415 V	14.9	67	21.0	120	2850	6"	103	410x320x765

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.

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	6	12	18	24	30	36	48	72	96	120
SWWHP 15G	3.0	4.0	34.0	32.0	30.0	27.5							
SWWHP 30J	4.0	5.5	31.5	29.8	28.5	27.0	25.5	23.0	21.0				
SWWHP 30L	5.5	7.5	38.0	36.0	35.5	35.0	33.5	31.8	29.0				
SWWHP 100Q	7.5	10.0	21.0	20.4	19.9	19.4	18.8	18.5	18.1	17.5	16.0	13.2	10.0

Blank cells indicate flows outside the published range for that model.
Solids handling: Solids to 100 mm. Discharge connection: 2" - 6".

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.