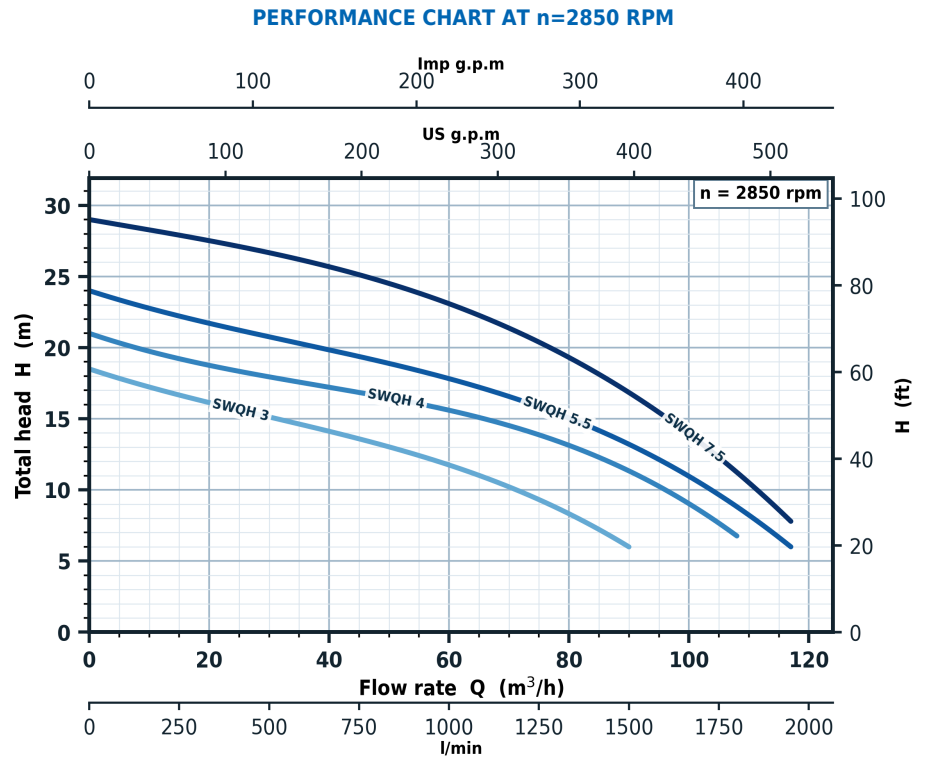


SATTE SWQH

High-Flow 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

- Municipal sewage pumping stations requiring high flow at moderate head.
- Storm water and surface water transfer through 100 mm rising mains.
- Large commercial and industrial effluent collection systems.
- Drainage of flooded basements, car parks and underpasses.
- Irrigation return water and agricultural effluent handling.

Operating Conditions

- Sewage and dirty water not chemically aggressive towards the pump materials.
- 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 standard across the range.
- Guide-rail duckfoot bend recommended for permanent wet-well installation.
- Select the duty point within the published flow range to avoid motor overload.

Materials of Construction

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

SATTE SWQH 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
SWQH 3	3.0	4.0	3~ 380-415 V	6.3	28	18.5	90	2850	4"	16.5	330x300x595
SWQH 4	4.0	5.5	3~ 380-415 V	8.2	37	21.0	108	2850	4"	17.5	330x300x610
SWQH 5.5	5.5	7.5	3~ 380-415 V	11.1	50	24.0	117	2850	4"	19.5	345x295x650
SWQH 7.5	7.5	10.0	3~ 380-415 V	14.9	67	29.0	117	2850	4"	21.5	345x295x680

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

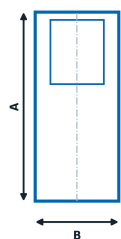
Total head H (m) against flow rate Q (m³/h) at 2850 rpm, on clean water at 20 C. Motor power P2 is the standard motor rating for each model.

	Motor								Q (m ³ /h)							
Model	kW	HP	0	9	18	27	36	45	54	63	72	81	90	99	108	117
SWQH 3	3.0	4.0	18.5	17.5	16.5	15.5	14.5	13.5	12.5	11.5	10.0	8.0	6.0			
SWQH 4	4.0	5.5	21.0	20.0	19.0	18.0	17.5	17.0	16.0	15.3	14.5	13.3	11.0	9.0	7.0	
SWQH 5.5	5.5	7.5	24.0	23.0	22.0	21.0	20.0	19.5	18.5	17.5	16.5	15.0	13.0	11.0	9.0	6.0
SWQH 7.5	7.5	10.0	29.0	28.0	27.5	26.8	26.0	25.0	24.0	22.5	21.0	19.0	17.0	14.0	11.0	8.0

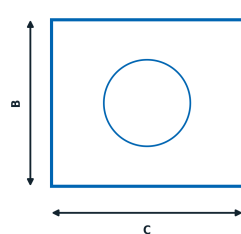
Blank cells indicate flows outside the published range for that model.
Solids handling: Solids to 60 mm. Discharge connection: 4" (DN100).

Dimensions

Front elevation



Plan view



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.