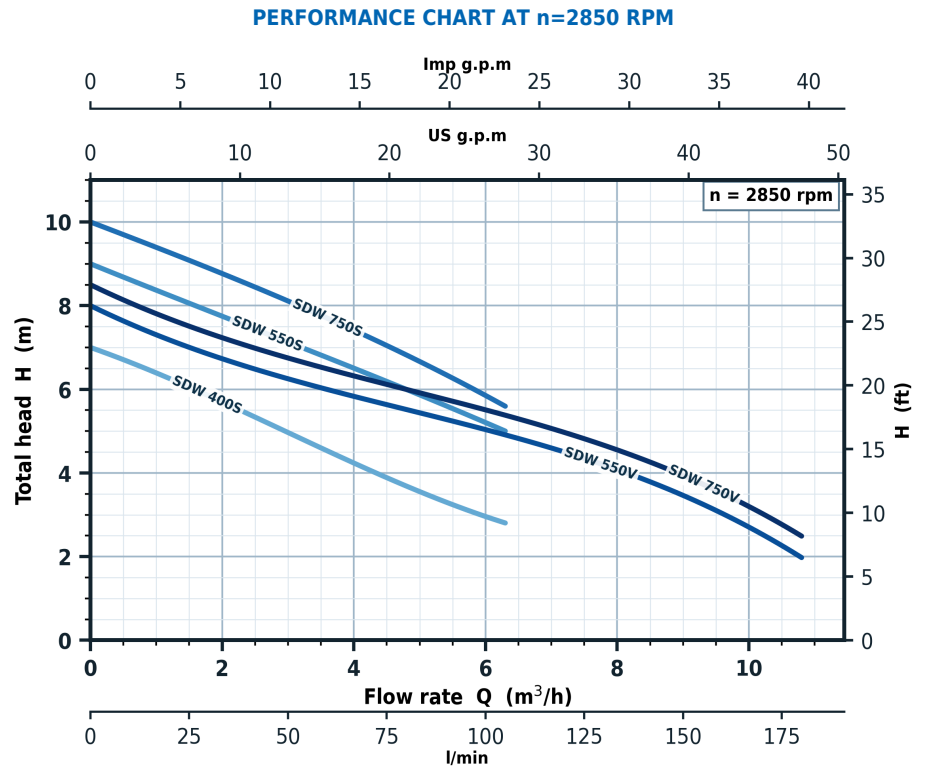


SATTE SDW Submersible Utility Drainage Pump



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

Typical Applications

- Emptying of domestic water tanks, ponds, fountains and small pools.
- Removal of standing rainwater from light wells, cellars and flat roofs.
- Garden and allotment water transfer from butts and shallow reservoirs.
- Emergency flood-water clearance in domestic and light commercial property.
- Low-head transfer duties where a compact, portable unit is preferred.

Operating Conditions

- Clean or lightly soiled water, free of abrasive particles and long fibres.
- Liquid temperature to +35 °C; maximum ambient temperature +40 °C.
- Maximum immersion depth 3 m; the pump must remain submerged in operation.
- Motor protection IP68, insulation class B, with built-in thermal protector.
- V versions (AW/BW) are fitted with a vertical float switch for automatic operation.
- S versions (A/B) are fitted with a side-hung float switch.
- Low-head range: check the discharge head before selection.

Materials of Construction

- **Pump body:** Reinforced thermoplastic
- **Impeller:** Thermoplastic, vortex
- **Mechanical seal:** Ceramic / graphite
- **Motor housing:** Thermoplastic
- **Shaft:** Stainless steel AISI 420
- **Cable:** 8 m power cable

SATTE SDW 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
SDW 400S	0.4	0.55	1~ 220-240 V	1.1	5	7.0	6	2850	1 1/2"	4.3	228x180x345
SDW 550S	0.55	0.75	1~ 220-240 V	1.4	6	9.0	6	2850	1 1/2"	4.5	228x180x345
SDW 750S	0.75	1.0	1~ 220-240 V	1.6	7	10.0	6	2850	1 1/2"	5	228x180x345
SDW 550V	0.55	0.75	1~ 220-240 V	1.4	6	8.0	11	2850	1 1/2"	4.7	228x180x345
SDW 750V	0.75	1.0	1~ 220-240 V	1.6	7	8.5	11	2850	1 1/2"	5.1	228x180x345

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

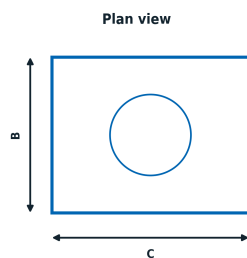
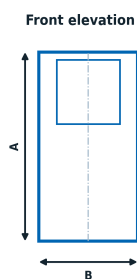
Total head H (m) against flow rate Q (m³/h) at 2850 rpm, on clean water at 20 C. Motor power P2 is the standard motor rating for each model.

	Motor								Q (m ³ /h)						
Model	kW	HP	0	1.2	1.6	2.4	3.2	3.6	4.8	6	6.3	7.2	8.4	9.6	10.8
SDW 400S	0.4	0.55	7.0	6.2	6.0	5.4	4.8	4.5	3.7	3.0	2.8				
SDW 550S	0.55	0.75	9.0	8.2	8.0	7.5	7.0	6.8	6.0	5.2	5.0				
SDW 750S	0.75	1.0	10.0	9.2	9.0	8.5	8.0	7.7	6.8	5.8	5.6				
SDW 550V	0.55	0.75	8.0	7.0	6.8	6.5	6.2	6.0	5.5	5.0	4.9	4.5	3.8	3.0	2.0
SDW 750V	0.75	1.0	8.5	7.7	7.5	7.0	6.7	6.5	6.0	5.5	5.4	5.0	4.3	3.5	2.5

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

Solids handling: Suspended solids to 5 mm. Discharge connection: 1 1/2".

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.

SATTE SDW Exploded View

Exploded View

Component breakdown for the series, for identification of parts when ordering spares. Item numbers correspond to the manufacturer parts list; quote the SATTE model and the item number when requesting spares.

