

**The beginning of the pump revolution starts today.**

Grundfos has broken the mold to design a radically new submersible pump that will bring about a whole new era in pumping equipment. Grundfos is proud to introduce the new SQ Series of submersible pumps.

The SQ pump series was designed for the professional dealer. These pumps incorporate many protection and applications features giving dealers confidence in their installation with the flexibility to adapt the pump to many different applications. There are two models of the SQ Series of pumps: the standard SQ and the advanced SQE. Both models offer five flow sizes from 5 to 30 gpm and a horsepower range of 1/3 to 1.5 Hp.

Both the SQ and SQE incorporate the following common features:

- ◆ Dry-run protection
- ◆ High efficiency pump and motor
- ◆ Protection against up-thrust
- ◆ Soft-start
- ◆ Over-voltage and under-voltage protection
- ◆ Overload protection
- ◆ Over-temperature protection
- ◆ High starting torque

Additionally benefits of SQE pumps with SmartFlo:

- ◆ Constant pressure control
- ◆ Variable speed regulation
- ◆ Electronic control and communication



## Technical Data

Supply Voltage:	1x200-240V +6%/-10%, 50/60 Hz, PE 1x100-115V +6%/-10%, 50/60 Hz, PE
Operation via Generator:	As a minimum, the generator output must be equal to the motor P1[KW] +10%
Starting Current:	The motor starting current is equal to the highest value stated on the motor nameplate
Starting:	Soft starting
Run-up Time:	Maximum : 2 seconds
Motor Protection:	The motor is protected against: Dry running, overvoltage, undervoltage, overload, overtemperature
Power Factor:	PF= 1
Service Factor:	0.33-0.50A[HP]-1.75 at 115V/230V 0.50-0.75A[HP]-1.4 at 230V 1.0-1.5C[HP]-1.15 at 230V
Motor Cable: Length	3 Wre, 14 AWG XLPE 5 ft
Motor Liquid: pH Values:	Type SML 2 SQ and SQE: 5 to 9
Liquid Temperature:	The temperature of the pumped liquid must not exceed 104°F.
<b>Note: If liquids with a viscosity higher than that of water are to be pumped, please contact GRUNDFOS</b>	
Discharge Port:	5SQ/SQE- 1" NPT 10-15SQ/SQE- 1 1/4" NPT 22-30SQ/SQE- 1 1/2" NPT
<b>STORAGE CONDITIONS</b>	
Minimum Ambient Temperature:	-4°F
Maximum Ambient Temperature:	+140°F
Freeze Protection:	If the pump has to be stored after use, it must be stored on a frost-free location or it must be ensured that the motor liquid is frost-proof. (The motor must be stored without being filled with motor liquid.)
<b>OPERATING CONDITIONS</b>	
Minimum Ambient Fluid Temperature:	-4°F
Maximum Ambient Fluid Temperature:	+104°F
<b>APPROXIMATED DIMENSIONS AND WEIGHT</b>	
Motor Dimensions (MS 3 & MSE 3): 0.33-0.50A[hp] 0.50-0.75B[hp] 1.0-1.5C[hp]	20.9" length x 2.68" diameter 20.9" length x 2.68" diameter 22.3" length x 2.68" diameter
Motor Weights (MS 3 & MSE 3): 0.33-0.50A[hp] 0.50-0.75B[hp] 1.0-1.5C[hp]	6.0 Lbs 7.1 Lbs 8.2 Lbs
Pump End Dimensions: Pump Diameter: Pump Diameter, Incl. cable guard: Pump End Dimensions(min. and max.): 5SQ/SQE 10SQ/SQE 15SQ/SQE 22SQ/SQE 30SQ/SQE	2.68" 2.91"  10.6" to 18.0" 10.6" to 16.9" 10.6" to 16.9" 10.6" to 16.9" 10.6" to 13.7"
Pump End Weights(min. and max.): All SQ/SQE Models Well Diameter (minimum): Installation Depth (Maximum):	2.2 lbs to 3.5 lbs 3" 500 feet, below static water level.