



The BasicLine by Grundfos SQN is a small and compact submersible multi-stage pump designed for constant pressure operation in domestic applications. The motor of the SQN pump is a permanent magnet motor with a micro frequency converter ensuring optimum efficiency. The built-in frequency converter features protective functions and soft-starting, which reduces starting current and gives smooth and steady acceleration and dry running protection. The SQN pump is handy and user-friendly due to its low weight and 3-inch diameter.



## FEATURES

### High Efficiency

The SQ pump is fitted with high efficiency permanent magnet motor that ensure lower running cost while providing higher starting torque to ensure the pump starts every time.

### Excellent starting capabilities

The soft starter minimises the risk of wear on the pump and prevents overloading of the mains during start-up. Its soft-start system also reduces water hammering, light flickering and other electrical disturbances.

### Overvoltage and undervoltage protection

The integrated protection prevents damage to the motor in case the supply voltage moves outside the permissible voltage range.

### Overload protection

The SQN eliminates the need for motor protection. If the pump is exposed to heavy load the motor will automatically reduce its speed, or if the pump is blocked it automatically stops pumping.

### Over-heating protection

As an extra protection, the electronic unit has a built-in temperature sensor. When the temperature exceeds a critical limit, the pump is stopped and when the temperature has dropped, the pump automatically starts.

### Protection against upthrust

The SQN is fitted with an upthrust bearing protecting both pump and motor against upthrust, thus preventing breakdown during the critical start-up phase.

## OPERATING CONDITIONS

### pH values

5 to 8

### Liquid temperature

0 °C to 35 °C

## TECHNICAL DATA

### Mains voltage

1 x 240 V, 50 Hz

### Enclosure class

IP68

### Insulation class

F

### Installation depth

Max. 150 m below static water level

### Pump diameter

74 mm

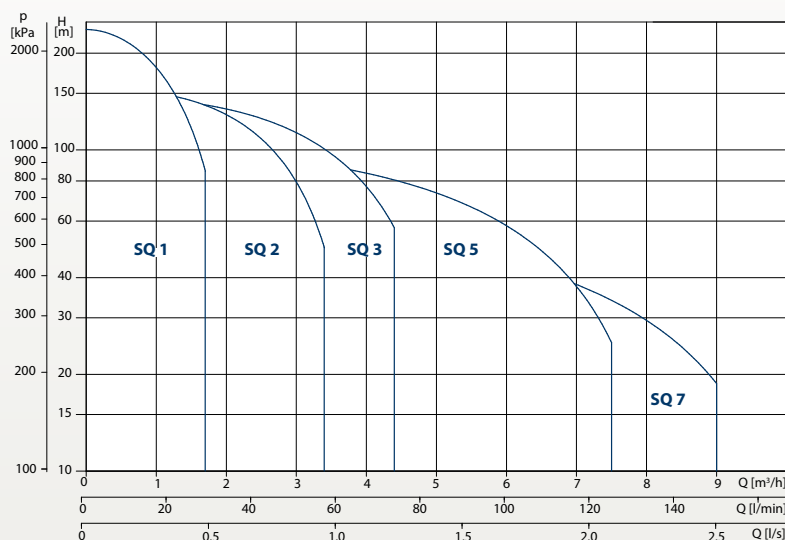
### Borehole diameter

Min. 76 mm

### Approvals and markings

CE, UL, cUL

## PERFORMANCE



Model	Power-P2 (kW)	Max Current (A)	Outlet	Dimensions (mm)			Weight (kg)
				A	B	C	
SQ 1-35 N	0.7	2.5	1 ¼"	741	265	74	4.7
SQ 1-50 N	0.7	3.3	1 ¼"	741	265	74	4.8
SQ 1-65 N	0.7	4.3	1 ¼"	768	592	74	4.9
SQ 1-80 N	1.15	5.1	1 ¼"	825	346	74	5.6
SQ 1-95 N	1.15	6.0	1 ¼"	825	346	74	5.6
SQ 1-110 N	1.15	7.0	1 ¼"	852	373	74	5.7
SQ 1-125 N	1.68	7.8	1 ¼"	942	427	74	6.4
SQ 1-140 N	1.68	8.6	1 ¼"	942	427	74	6.5
SQ 1-155 N	1.85	9.6	1 ¼"	969	454	74	6.7
SQ 2-35 N	0.7	3.0	1 ¼"	741	265	74	4.7
SQ 2-55 N	0.7	4.3	1 ¼"	741	265	74	4.8
SQ 2-70 N	1.15	5.5	1 ¼"	768	292	74	5.4
SQ 2-85 N	1.15	6.8	1 ¼"	825	346	74	5.5
SQ 2-100 N	1.68	8.0	1 ¼"	861	346	74	6.2
SQ 2-115 N	1.85	9.3	1 ¼"	888	373	74	6.3
SQ 3-30 N	0.7	3.0	1 ¼"	741	265	74	4.8
SQ 3-40 N	0.7	4.2	1 ¼"	741	265	74	4.8
SQ 3-55 N	1.15	5.4	1 ¼"	768	292	74	5.4
SQ 3-65 N	1.15	6.7	1 ¼"	825	346	74	6.1
SQ 3-80 N	1.68	7.8	1 ¼"	861	346	74	6.3
SQ 3-95 N	1.68	9.0	1 ¼"	888	373	74	6.4
SQ 3-105 N	1.85	10.3	1 ¼"	942	427	74	6.5
SQ 5-15 N	0.7	2.3	1 ½"	743	265	74	4.7
SQ 5-25 N	0.7	3.9	1 ½"	743	265	74	4.8
SQ 5-35 N	1.15	5.6	1 ½"	824	346	74	5.5
SQ 5-50 N	1.68	7.3	1 ½"	260	346	74	6.1
SQ 5-60 N	1.68	8.9	1 ½"	941	427	74	6.4
SQ 5-70 N	1.85	10.7	1 ½"	941	427	74	6.4
SQ 7-15 N	0.7	3.1	1 ½"	743	265	74	4.7
SQ 7-30 N	1.15	5.5	1 ½"	743	265	74	5.2
SQ 7-40 N	1.68	7.8	1 ½"	860	346	74	6.1

## DIMENSIONS

