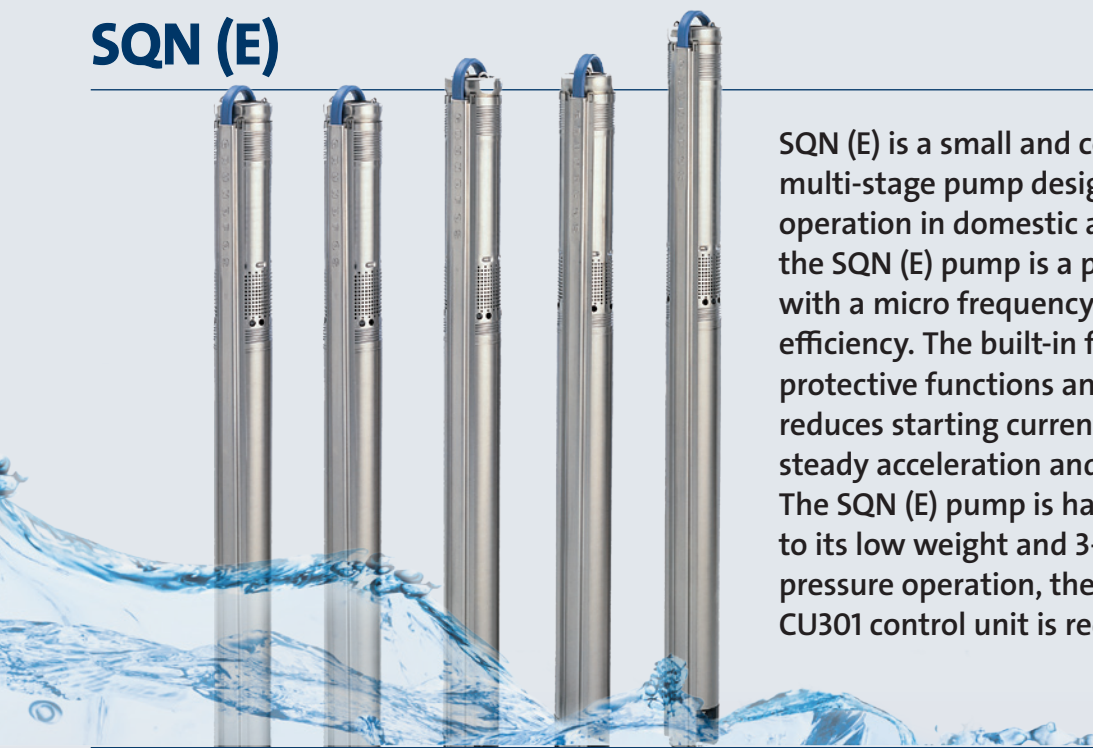


SQN (E)



SQN (E) is a small and compact submersible multi-stage pump designed for constant pressure operation in domestic applications. The motor of the SQN (E) 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 (E) pump is handy and user-friendly due to its low weight and 3-inch diameter. For constant pressure operation, the SQE coupled the CU300 or CU301 control unit is required



Features

Constant pressure operation

Using a CU300/301 with the SQNE your water pressure will always remain constant pressure regardless of how many family members are consuming water. As more taps are opened, the pump automatically increases its speed, maintaining your chosen pressure at any flow rate. Greater comfort is added to your life and greater value added to your home.

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(E) 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 (E) 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

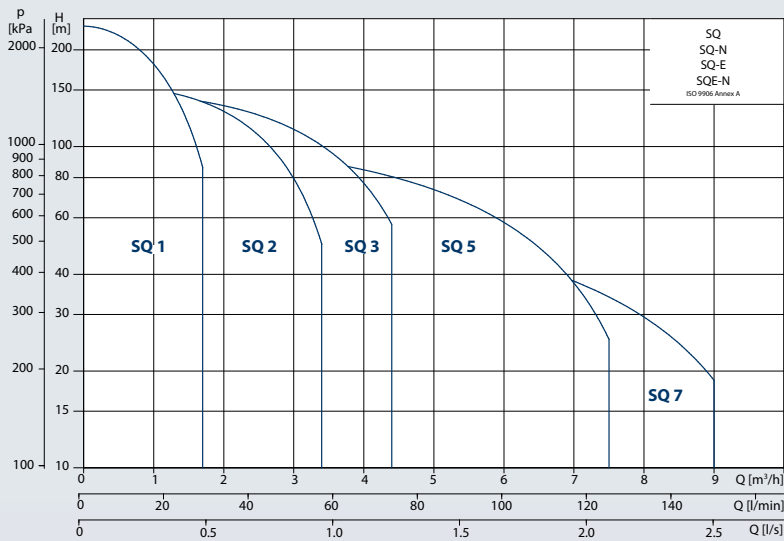
Borehole diameter

Min. 76 mm

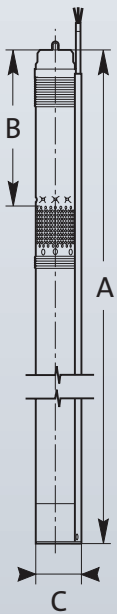
Approvals and markings

CE, UL, cUL

Performance



Dimensions



Technical Data

Model	Power-P2 (kW)	Max Current (A)	Outlet	Dimensions (mm)			Weight (kg)
				A	B	C	
SQN/SQNE 1-80	1.15	8.4	1¼" F	825	346	74	5.6
SQN/SQNE 2-55	0.7	5.2	1¼" F	741	265	74	5.8
SQN/SQNE2-70	1.15	8.4	1¼" F	768	292	74	6.4
SQN/SQNE 2-85	1.15	8.4	1¼" F	825	346	74	6.5
SQN/SQNE 3-40	0.7	5.2	1¼" F	741	265	74	5.8
SQN/SQNE 3-55	1.15	8.4	1¼" F	768	292	74	6.4
SQN/SQNE 3-65	1.15	8.4	1¼" F	825	346	74	6.8
SQN/SQNE 3-105	1.85	12	1¼" F	942	427	74	7.4
SQN/SQNE 5-50	1.68	11.2	1½" F	824	346	74	6.1
SQN/SQNE 5-70	1.85	12	1½" F	941	427	74	6.4
SQN/SQNE 7-40	1.68	11.2	1½" F	860	346	74	7.1
SQN/SQNE 7-55	1.8	12	1½" F	860	346	74	8

Model	Discharge pressure (kPa/psi)	Pumping water level (m)							
		9	12	15	18	21	24	27	30
		Output (L/min)							
SQN/SQNE 1-80	300/43	28	27	26	25	24	23	22	21
SQN/SQNE 2-55	300/43	44	41	39	37	34	30	27	-
SQN/SQNE2-70	300/43	49	47	46	45	43	41	40	38
SQN/SQNE 2-85	300/43	53	51	50	49	48	47	46	44
SQN/SQNE 3-40	300/43	48	43	36	-	-	-	-	-
SQN/SQNE 3-55	300/43	60	58	56	53	50	46	43	39
SQN/SQNE 3-65	300/43	67	65	63	61	60	57	55	53
SQN/SQNE 3-105	300/43	-	-	73	71	70	69	68	67
SQN/SQNE 5-50	300/43	95	91	86	80	75	67	63	50
SQN/SQNE 5-70	300/43	111	109	106	103	100	98	95	91
SQN/SQNE 7-40	300/43	111	103	93	83	70	-	-	-
SQN/SQNE 7-55	300/43	132	125	118	111	104	96	86	75