

SunWize[®] Sizing Sheet for Grundfos SQ Flex Pumps

WATER, WHEREVER, WHATEVER



The SQFlex system is more than just a pump. It's a total concept tailored to any individual requirements. By examining some variables, SunWize can put together the perfect combination for any purpose. All we need to know is the location, the water table depth and how much water is needed, and we will be able to find the most efficient energy source for the system.

The complete SQFlex pump range consists of 7 different pump sizes: 4 centrifugal and 3 helical rotor pumps. All pumps are fitted with the same size motor which, together with the new sizing tools, makes system sizing simple.

<u>Model</u>	<u>Pump Type</u>
3 SQF-2	Helical Rotor
6 SQF-2	Helical Rotor
11 SQF-2	Helical Rotor
25 SQF-3	Centrifugal
25 SQF-6	Centrifugal
40 SQF-3	Centrifugal
75 SQF-3	Centrifugal



CU 200 Control Unit

A user-friendly interface box that maintains two-way communication with the pump and monitors the operating conditions. Built-in diagnostics indicate faults and dry-running, display operating status power consumption and level switch input.



IO 100 Switch Box

A very simple and easy-to-use system with cable interface. Controlled by a manual on/off switch.

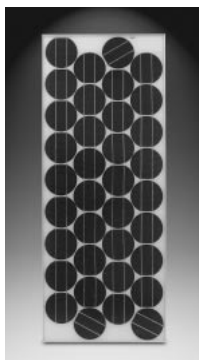
IO 101 Switch Box

Acts as interface for powering back-up supplies, providing automatic change-over. For instance when changing from generator to solar energy, the solar panels automatically power the system as soon as the fuel tank runs dry.



Level Switch

Save energy as you save water. With a level switch inside the storage tank connected to the CU 200 control unit, the pump knows when the tank is full and shuts itself off.



SunWize SW Modules

SunWize solar modules deliver top-quality performance for water pumping applications and are ideal for powering the SQFlex system. SunWize modules can be used in single-module and multi-module installations allowing the SQFlex system to be optimized to your location & water requirements. SunWize modules are available in 85, 90, 95, 115 and 120 watts. All SunWize modules carry a 20-year, 80% power output warranty and are ISPR certified to IEC 61215. SunWize SW Modules are currently undergoing the FM and UL certification process.

Ordering and Contact Information:

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Reliable People . . . Reliable Products . . . Reliable Power!

SunWize[®] Sizing Sheet for Grundfos SQFlex Pumps

TECHNOLOGIES

Solar Data with tilt angle set to 39 degrees
 January 2.6 Peak Sun Hours
 April 5.4 Peak Sun Hours
 July 6.6 Peak Sun Hours
 October 4.0 Peak Sun Hours

LOCATION: Topeka, KS

Head (Ft)	Watts:	160 W	270 W	345 W	380 W	450 W	540 W	690 W	805 W	900 W	1150 W
25	Pump Model:	11SQF-2	25SQF-3	25SQF-3	25SQF-3	40SQF-3	40SQF-3	40SQF-3	75SQF-3	75SQF-3	75SQF-3
	Jan Production (GPD)	1500	3500	5000	5400	6700	8300	9100	11400	14400	18500
	April	1800	4100	6000	6600	8000	10000	10900	13500	17400	21700
	July	2000	4300	6100	6800	8300	10300	11100	13800	17900	22500
	October	1700	3800	5400	6000	7300	9100	10100	12200	15900	20300
50	Pump Model:	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	25SQF-6	25SQF-6	25SQF-6	25SQF-6
	Jan Production (GPD)	1000	2400	3200	3300	3800	4200	4500	5600	7300	9500
	April	1300	2900	3700	4000	4500	5000	5200	6700	8800	11200
	July	1400	3000	3800	4200	4700	5200	5400	6800	9000	11600
	October	1200	2700	3400	3700	4100	4500	4800	6100	8100	10400
75	Pump Model:	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	25SQF-6	25SQF-6
	Jan Production	650	1700	2400	2600	3100	3600	3900	4200	4700	6700
	April	850	2100	2900	3100	3700	4300	4500	5000	5700	8000
	July	900	2200	3000	3300	3800	4500	4700	5200	5800	8200
	October	800	2000	2700	2900	3400	3900	4200	4500	5200	7400
100	Pump Model:		11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2
	Jan Production (GPD)		1100	1700	1900	2300	2800	3100	3600	4100	4500
	April		1300	2000	2300	2800	3400	3700	4300	4800	5300
	July		1400	2100	2400	2900	3500	3800	4400	5000	5500
	October		1200	1900	2100	2600	3100	3400	3900	4400	4800
133	Pump Model:		6 SQF-2	6SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2
	Jan Production (GPD)		800	1100	1200	1600	2000	2250	2850	3450	4000
	April		900	1300	1500	1950	2450	2750	3350	4050	4700
	July		1000	1350	1550	2000	2550	2750	3400	4300	4900
	October		900	1200	1400	1750	2250	2500	3100	3800	4300
166	Pump Model:		3SQF-2	6SQF-2	6SQF-2	6SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2	11SQF-2
	Jan Production (GPD)		600	950	1000	1250	1550	1750	2250	2900	3550
	April		800	1100	1250	1500	1800	2050	2650	3500	4100
	July		800	1100	1300	1550	1900	2100	2700	3600	4350
	October		700	1000	1100	1350	1700	1900	2450	3250	3850
200	Pump Model:		3 SQF-2	3SQF-2	6SQF-2	6SQF-2	6SQF-2	6 SQF-2	6 SQF-2	11SQF-2	11SQF-2
	Jan Production (GPD)		600	750	850	1000	1300	1450	1700	2350	3050
	April		700	900	1000	1250	1600	1750	2000	2850	3700
	July		700	950	1000	1300	1650	1800	2050	2950	3800
	October		600	850	950	1150	1450	1600	1850	2600	3400
233	Pump Model:		3SQF-2	3SQF-2	3SQF-2	6SQF-2	6SQF-2	6 SQF-2	6 SQF-2	11SQF-2	11SQF-2
	Jan Production (GPD)		500	700	700	900	1150	1250	1500	1800	2600
	April		600	850	900	1050	1350	1500	1800	2150	3100
	July		650	850	950	1100	1400	1550	1850	2250	3200
	October		550	750	850	1000	1250	1400	1650	2000	2850
266	Pump Model:		3SQF-2	3SQF-2	3SQF-2	3SQF-2	6SQF-2	6 SQF-2	6 SQF-2	6SQF-2	11SQF-2
	Jan Production (GPD)		450	650	700	800	950	1100	1350	1600	2100
	April		550	750	850	950	1150	1300	1650	1950	2500
	July		550	750	850	1000	1200	1300	1650	2000	2550
	October		500	700	750	850	1050	1150	1500	1800	2300
300	Pump Model:		3SQF-2	3 SQF-2	3SQF-2	3SQF-2	3SQF-2	3SQF-2	6 SQF-2	6SQF-2	6SQF-2
	Jan Production (GPD)		400	550	600	750	850	900	1200	1450	1700
	April		450	700	750	900	1000	1050	1400	1750	2050
	July		500	700	800	900	1050	1100	1450	1850	2150
	October		450	600	700	800	900	950	1250	1600	1900
340	Pump Model:			3SQF-2	3SQF-2	3SQF-2	3SQF-2	3SQF-2	6SQF-2	6SQF-2	6SQF-2
	Jan Production (GPD)			500	550	650	750	800	1000	1300	1600
	April			600	650	800	950	950	1150	1600	1900
	July			600	700	800	950	1000	1200	1650	1950
	October			500	600	750	850	900	1050	1450	1750
390	Pump Model:					3SQF-2	3SQF-2	3SQF-2	3SQF-2	6SQF-2	6SQF-2
	Jan Production (GPD)					550	650	750	850	1100	1450
	April					650	800	850	950	1300	1700
	July					700	850	900	1000	1350	1750
	October					600	750	800	900	1200	1550