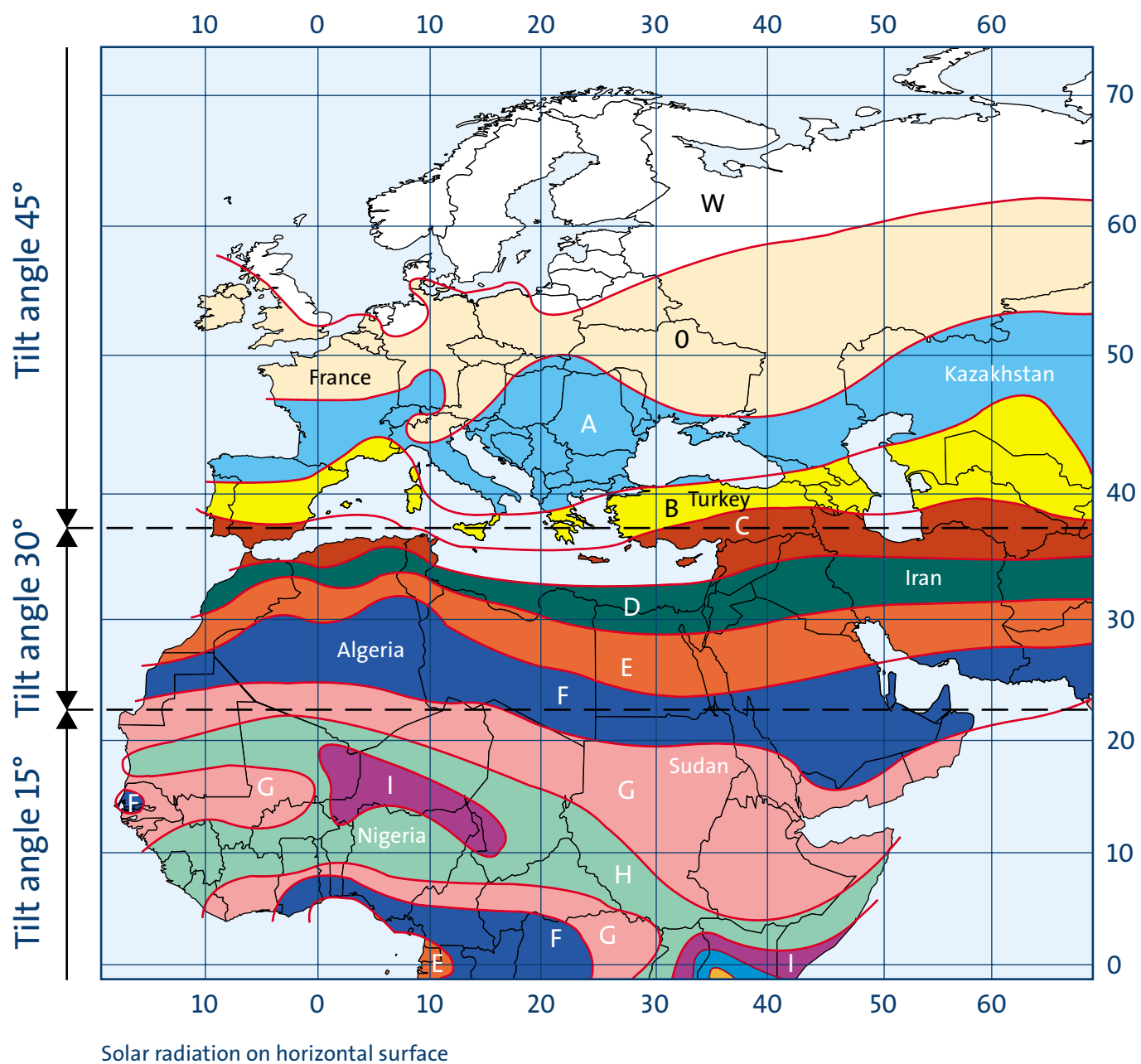


EUROPE/MIDDLE EAST/NORTHERN AFRICA JANUARY



Zone	W	O	A	B	C	D	E	F	G	H	I
Colour											
kWh/m ² day	0.3	0.9	1.5	2.0	2.6	3.2	3.8	4.4	4.9	5.5	6.1

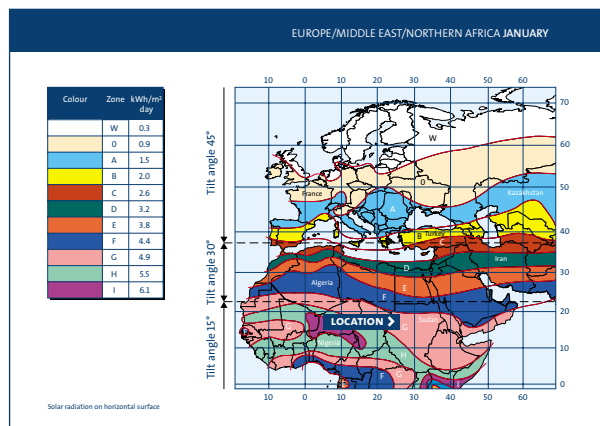
SQFLEX SYSTEM SIZING

Before starting to size the system, you need to determine three things:

- location
- total head
- required water quantity per day

Select the map for July or January, depending on which period of the year you want the system to be sized for.

The following example shows how the hardcopy version is used to select the correct SQFlex system for a person in Sudan.



The map shows how particular locations belong to various zones, and this is marked by different colours to make it easier to read. From the map, it is possible to ascertain two important details: the zone and the solar panel tilt angle.

Our location is situated in Zone G, and the solar panel tilt angle is 15°.

Now it is possible to choose the relevant sizing chart according to the given zone and colour. Here's where the total head and water requirements are used to select the correct pump and number of solar panels.

With a required total head of 50 m, and a daily water requirement of 9.5 m³, the correct pump is an SQFlex 2.5-2. Furthermore, the number of solar panels necessary to power this SQFlex system is 12, corresponding to 516 Wp.

Europe/Middle East/Northern Africa
SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110		
ZONE G tilt angle 15°	18.9	10.5	7.3	3.7	2.6	2.3	2.1	1.8	1.6	1.4	1.2	0.9	0.6	4	172
	SQF 5A-3	SQF 2.5-2				SQF 1.2-2		SQF 0.6-2							
	46.1	21.8	15.2	10.4	7.2	5.6	4.8	3.9	3.6	3.4	3.2	2.7	2.4	8	344
	SQF 8A-3	SQF 5A-3				SQF 2.5-2		SQF 1.2-2		SQF 0.6-2					
	69.6	35.3	19.3	15.6	12.2	9.5	7.3	6.6	5.8	4.9	4.2	3.8	3.6	12	
	SQF 2.5-2	SQF 2.5-2				SQF 2.5-2		SQF 2.5-2		SQF 0.6-2					

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
		ZONE W tilt angle 15°, 0.3 kWh/m² day														
		ZONE W tilt angle 30°, 0.3 kWh/m² day														
		ZONE W tilt angle 45°, 0.3 kWh/m² day														
		ZONE 0 tilt angle 15°, 0.9 kWh/m² day														
		ZONE 0 tilt angle 30°, 0.9 kWh/m² day														
ZONE 0 tilt angle 45°	0.9 kWh/m² day	1.4	1.0	0.3	0.1	0.1									4	172
		SQF 2.5-2			SQF 0.6-2											
		5.6	4.2	2.5	1.1	0.9	0.8	0.7	0.5	0.4	0.2	0.2			8	344
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		12.2	7.2	4.8	2.2	1.7	1.5	1.4	1.1	1.0	0.8	0.7	0.5	0.3	12	516
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		18.3	9.5	6.9	3.8	2.6	2.2	2.0	1.8	1.6	1.3	1.1	0.9	0.8	16	688
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		25.5	11.5	8.9	5.4	3.5	2.9	2.5	2.3	2.1	1.9	1.6	1.4	1.1	20	860
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]	
		5	10	20	30	40	50	60	70	80	90	100	110	120			
ZONE A tilt angle 15°	1.5 kWh/m² day	Not actual													4	172	
															8	344	
															12	516	
															16	688	
															20	860	
ZONE A tilt angle 30°		2.1	1.5	0.7	0.3	0.2	0.1	0.1							4	172	
		SQF 2.5-2			SQF 0.6-2												
		8.1	5.6	3.5	1.5	1.3	1.1	1.0	0.8	0.6	0.5	0.3	0.1	0.1	8	344	
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2												
		16.4	9.1	6.2	3.2	2.3	2.0	1.8	1.6	1.4	1.2	1.0	0.7	0.5			
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2								12	516	
		24.7	12.1	8.9	5.2	3.5	2.8	2.5	2.2	2.0	1.8	1.6	1.3	1.1			
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								16	688
		32.4	14.6	11.2	7.0	4.7	3.8	3.2	2.9	2.6	2.4	2.1	1.9	1.6			
		SQF 8A-3	SQF 2.5-2				SQF 1.2-2		SQF 0.6-2							20	860
7.4		5.3	3.3	1.4	1.2	1.0	0.9	0.7	0.6	0.4	0.3	0.1					
ZONE A tilt angle 45°		SQF 5A-3	SQF 2.5-2		SQF 0.6-2										4	172	
		23.1	11.4	8.3	4.8	3.2	2.6	2.4	2.1	1.9	1.7	1.5	1.2	1.0			
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							8	344	
		37.2	17.6	12.6	8.3	5.8	4.5	3.9	3.2	3.0	2.7	2.5	2.2	2.0			
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2					12	516	
		50.7	25.2	15.5	11.7	8.5	6.5	5.4	4.7	4.0	3.4	3.2	2.9	2.7			
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2				16	688	
		61.8	31.5	17.1	14.1	11.1	8.8	6.8	5.8	5.3	4.6	4.0	3.4	3.1			
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2					SQF 0.6-2	20	860	

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]	
		5	10	20	30	40	50	60	70	80	90	100	110			120
ZONE B tilt angle 15°	2.0 kWh/m² day	2.9	2.1	0.9	0.5	0.3	0.2	0.1	0.1						4	172
		SQF 2.5-2			SQF 0.6-2											
		10.8	6.9	4.3	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.5	0.3	0.1	8	344
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		19.9	10.9	7.7	4.0	2.8	2.4	2.2	1.9	1.7	1.5	1.3	1.0	0.7	12	516
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		30.3	14.1	10.7	6.5	4.2	3.4	3.1	2.8	2.5	2.2	1.9	1.7	1.4	16	688
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		39.8	17.7	13.3	8.8	5.8	4.7	3.9	3.5	3.2	2.9	2.7	2.3	2.0	20	860
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
ZONE B tilt angle 30°		4.7	3.6	2.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1				4	172
		SQF 2.5-2			SQF 0.6-2											
		16.4	9.2	6.3	3.2	2.3	2.0	1.8	1.6	1.4	1.2	1.0	0.7	0.5	8	344
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		28.6	13.5	10.2	6.1	4.0	3.3	2.9	2.6	2.3	2.1	1.9	1.6	1.4	12	516
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		40.3	18.8	13.5	9.1	6.2	4.8	4.1	3.4	3.2	3.0	2.7	2.3	2.1	16	688
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		50.3	24.9	15.9	11.7	8.4	6.3	5.4	4.6	3.9	3.5	3.3	3.0	2.7	20	860
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
ZONE B tilt angle 45°	15.5	8.7	5.9	2.9	2.1	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5	4	172	
	SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2										
	38.2	17.7	12.9	8.5	5.8	4.5	3.9	3.3	3.1	2.8	2.5	2.2	2.0	8	344	
	SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
	57.9	29.1	16.9	13.4	10.0	7.7	6.3	5.5	4.7	4.0	3.5	3.3	3.0	12	516	
	SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2						
	74.2	41.2	20.3	16.0	13.5	11.1	8.8	6.9	6.3	5.6	5.1	4.5	3.9	16	688	
	SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2								
87.1	53.9	26.8	17.3	15.3	13.4	11.5	9.2	7.2	6.5	6.1	5.5	5.1	20	860		
SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2								

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE C tilt angle 15°	2.6 kWh/m² day	5.0	4.0	2.2	1.1	0.8	0.7	0.6	0.4	0.2	0.1				4	172
		SQF 2.5-2			SQF 0.6-2											
		17.6	10.0	6.9	3.5	2.5	2.2	2.0	1.7	1.5	1.3	1.1	0.8	0.6	8	344
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		31.5	14.5	11.0	6.7	4.4	3.6	3.2	2.9	2.6	2.3	2.0	1.7	1.5	12	516
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		43.9	20.3	14.4	9.9	6.8	5.3	4.5	3.7	3.5	3.2	3.0	2.6	2.3	16	688
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2								
		55.5	27.4	17.1	12.7	9.3	6.8	5.9	5.0	4.2	3.7	3.6	3.3	3.0	20	860
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
ZONE C tilt angle 30°		9.3	6.2	3.9	1.7	1.4	1.3	1.1	0.9	0.7	0.5	0.4	0.2	0.1	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		26.9	13.0	9.7	5.7	3.7	3.1	2.8	2.5	2.2	2.0	1.8	1.5	1.2	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		43.7	20.5	14.4	9.9	6.8	5.3	4.5	3.7	3.4	3.2	3.0	2.6	2.3	12	516
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		58.8	29.5	17.2	13.6	10.1	7.6	6.4	5.5	4.7	3.9	3.6	3.4	3.1	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		71.7	37.1	18.6	15.8	13.0	10.3	8.0	6.7	6.1	5.3	4.7	4.0	3.5	20	860
		SQF 14A-3		SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
ZONE C tilt angle 45°		23.9	12.2	8.9	5.0	3.4	2.8	2.5	2.2	2.0	1.8	1.6	1.3	1.0	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		54.4	26.9	16.7	12.5	9.1	6.7	5.8	4.9	4.1	3.7	3.5	3.2	2.9	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		78.0	42.7	21.1	16.7	14.2	11.7	9.2	7.2	6.7	6.0	5.3	4.6	4.0	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		94.7	60.6	30.5	18.5	16.3	14.8	12.8	10.4	8.2	7.1	6.7	6.2	5.6	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
		108	75.5	38.0	23.5	17.7	16.1	14.6	12.8	10.9	8.7	7.4	7.0	6.5	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2					SQF 1.2-2					

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]	
		5	10	20	30	40	50	60	70	80	90	100	110			120
ZONE D tilt angle 15°	3.2 kWh/m² day	8.2	5.8	3.5	1.6	1.3	1.1	1.0	0.8	0.6	0.4	0.3	0.1		4	172
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2											
		25.1	12.7	9.3	5.3	3.5	2.9	2.7	2.4	2.1	1.8	1.6	1.4	1.1	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		42.3	19.1	13.9	9.4	6.4	5.0	4.2	3.6	3.4	3.1	2.9	2.5	2.1	12	516
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		57.2	28.3	17.4	13.0	9.6	7.0	6.1	5.2	4.4	3.8	3.6	3.3	3.1	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		70.5	35.8	19.2	15.7	12.4	9.8	7.4	6.7	6.0	5.1	4.4	3.8	3.6	20	860
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2				SQF 0.6-2			
ZONE D tilt angle 30°		14.7	8.6	5.8	2.7	2.0	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.4	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		37.9	16.8	12.7	8.3	5.5	4.4	3.7	3.3	3.1	2.8	2.5	2.1	1.9	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		58.0	28.9	17.2	13.3	9.8	7.3	6.3	5.4	4.5	3.8	3.6	3.3	3.1	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		74.7	39.4	19.4	16.3	13.6	10.9	8.4	7.0	6.4	5.7	5.0	4.3	3.7	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		87.6	52.2	26.4	17.7	15.6	13.6	11.5	8.7	7.3	6.7	6.2	5.6	5.0	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
ZONE D tilt angle 45°	Not actual												4	172		
													8	344		
													12	516		
													16	688		
													20	860		

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE E tilt angle 15°	3.8 kWh/m² day	12.3	7.6	4.9	2.1	1.7	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.2	4	172
		SQF 5A-3	SQF 2.5-2		SQF 1.2-2	SQF 0.6-2										
		33.5	15.0	11.5	7.2	4.7	3.8	3.3	3.0	2.7	2.4	2.2	1.8	1.6	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		52.1	25.6	16.7	11.9	8.6	6.4	5.5	4.7	3.9	3.6	3.4	3.1	2.8	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		69.4	35.3	19.1	15.5	12.2	9.5	7.3	6.6	5.8	4.9	4.2	3.8	3.6	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2					SQF 0.6-2			
		82.3	45.5	23.0	17.5	14.9	12.6	10.0	7.5	7.0	6.3	5.8	5.0	4.3	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
ZONE E tilt angle 30°		19.4	10.7	7.5	3.9	2.8	2.4	2.1	1.8	1.6	1.4	1.2	0.9	0.7	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		46.9	22.4	15.3	10.7	7.5	5.7	4.9	4.0	3.6	3.4	3.2	2.8	2.5	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		70.3	35.8	19.0	15.7	12.5	9.8	7.5	6.7	6.0	5.1	4.4	3.8	3.6	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2				SQF 0.6-2			
		86.9	51.2	25.8	17.8	15.6	13.6	11.2	8.4	7.3	6.7	6.2	5.6	4.9	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		100	66.7	33.4	19.3	17.0	15.4	13.7	11.5	9.3	7.4	7.0	6.6	6.1	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2					SQF 1.2-2					
ZONE E tilt angle 45°	Not actual													4	172	
														8	344	
														12	516	
														16	688	
														20	860	

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE F tilt angle 15°	4.4 kWh/m² day	15.8	9.3	6.3	3.0	2.2	2.0	1.8	1.5	1.3	1.1	0.9	0.6	0.5	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		40.9	18.1	13.6	9.0	6.0	4.8	4.0	3.5	3.3	3.0	2.7	2.4	2.0	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		62.4	31.2	18.4	14.2	10.6	8.0	6.7	5.8	5.0	4.1	3.8	3.6	3.3	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		79.2	42.3	21.3	17.2	14.4	11.8	9.3	7.4	6.8	6.1	5.4	4.6	4.0	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		92.1	57.3	28.6	18.9	16.3	14.4	12.4	9.6	7.6	7.1	6.6	6.0	5.5	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
ZONE F tilt angle 30°		24.2	12.4	9.1	5.1	3.4	2.8	2.6	2.3	2.0	1.8	1.6	1.3	1.0	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		55.9	27.6	17.3	12.7	9.3	6.8	6.0	5.1	4.2	3.8	3.6	3.3	3.0	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2				SQF 0.6-2					
		79.8	42.9	21.6	17.2	14.5	11.9	9.4	7.4	6.9	6.2	5.5	4.7	4.0	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		96.5	62.5	31.2	19.4	16.8	15.2	13.2	10.7	8.3	7.3	6.9	6.4	5.8	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
		111	77.6	38.9	24.1	18.4	16.6	15.0	13.2	11.2	8.7	7.6	7.2	6.7	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2							SQF 1.2-2				
ZONE F tilt angle 45°	Not actual													4	172	
														8	344	
														12	516	
														16	688	
														20	860	

SQFlex Sizing Table – performance [m³/day], January

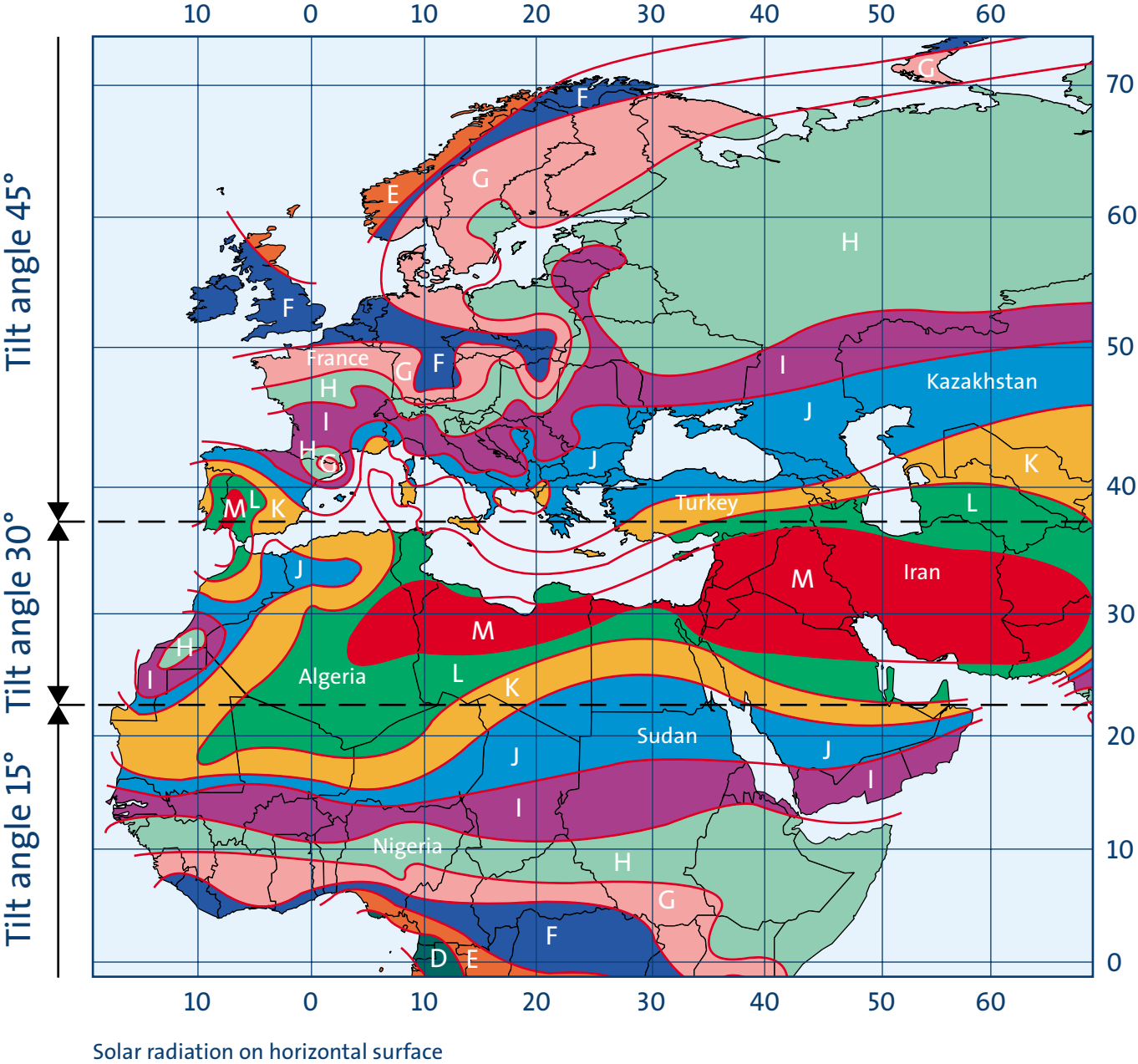
Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE G tilt angle 15°	4.9 kWh/m² day	18.9	10.5	7.3	3.7	2.6	2.3	2.1	1.8	1.6	1.4	1.2	0.9	0.6	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		46.1	21.8	15.2	10.4	7.2	5.6	4.8	3.9	3.6	3.4	3.2	2.7	2.4	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		69.6	35.3	19.3	15.6	12.2	9.5	7.3	6.6	5.8	4.9	4.2	3.8	3.6	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2					SQF 0.6-2			
		86.2	50.0	25.1	18.2	15.5	13.4	10.9	8.1	7.3	6.7	6.1	5.5	4.7	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		100.0	65.7	32.7	19.7	17.3	15.5	13.7	11.3	8.9	7.5	7.1	6.6	6.1	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE G tilt angle 30°		28.1	13.5	10.1	5.9	3.9	3.1	2.9	2.6	2.3	2.0	1.8	1.5	1.3	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		62.1	30.9	18.6	14.0	10.5	7.9	6.7	5.7	4.9	4.0	3.8	3.6	3.3	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		85.7	49.3	24.7	18.3	15.6	13.3	10.7	7.9	7.4	6.7	6.1	5.4	4.6	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		104	69.6	34.6	20.2	17.9	16.0	14.3	12.0	9.7	7.8	7.3	6.9	6.4	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
		119	83.8	41.9	26.8	19.3	17.6	15.8	14.0	12.3	9.9	7.9	7.6	7.2	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE G tilt angle 45°	Not actual													4	172	
														8	344	
														12	516	
														16	688	
														20	860	

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE H tilt angle 15°	5.5 kWh/m² day	22.2	11.8	8.5	4.5	3.1	2.7	2.4	2.1	1.9	1.6	1.4	1.1	0.9	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		52.4	25.7	16.9	11.9	8.6	6.4	5.5	4.7	3.9	3.7	3.5	3.2	2.8	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		76.7	39.2	20.4	17.0	13.9	11.1	8.6	7.2	6.6	5.8	5.1	4.3	3.8	12	516
		SQF 14A-3		SQF 2.5-2					SQF 1.2-2					SQF 0.6-2		
		93.4	58.6	29.1	19.3	16.6	14.7	12.6	9.8	7.7	7.2	6.8	6.2	5.6	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		109	74.2	37.0	22.4	18.4	16.3	14.8	12.6	10.7	8.0	7.5	7.1	6.6	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2						SQF 1.2-2				
ZONE H tilt angle 30°		31.1	14.7	10.9	6.6	4.3	3.5	3.1	2.8	2.5	2.3	2.0	1.7	1.4	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		66.9	33.5	19.6	15.3	11.4	8.8	7.2	6.3	5.4	4.5	4.0	3.8	3.5	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		91.9	54.8	27.1	19.4	16.8	14.4	11.8	8.9	7.7	7.2	6.6	6.0	5.2	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		112	75.2	37.3	22.4	19.0	17.0	15.1	12.9	10.7	8.2	7.7	7.3	6.8	16	688
		SQF 14A-3		SQF 5A-6		SQF 2.5-2					SQF 1.2-2					
		127	88.6	44.9	28.9	20.2	18.6	16.9	14.8	13.2	10.9	8.3	7.9	7.5	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2						SQF 1.2-2				
ZONE H tilt angle 45°	Not actual													4	172	
														8	344	
														12	516	
														16	688	
														20	860	

SQFlex Sizing Table – performance [m³/day], January

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]	
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE I tilt angle 15°	6.1 kWh/m² day	25.8	12.9	9.5	5.4	3.6	3.0	2.7	2.4	2.1	1.9	1.6	1.4	1.1	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		58.6	29.0	18.1	13.2	9.7	7.2	6.2	5.3	4.5	3.9	3.7	3.4	3.2	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		82.5	45.3	22.8	17.9	15.0	12.5	9.9	7.7	7.1	6.4	5.8	5.0	4.2	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		101	65.7	32.6	20.0	17.6	15.6	13.7	11.3	8.8	7.6	7.1	6.7	6.1	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
		116	80.7	40.3	25.4	19.1	17.3	15.5	13.7	11.8	9.3	7.8	7.5	7.0	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE I tilt angle 30°	6.1 kWh/m² day	Not actual													4	172
															8	344
															12	516
															16	688
															20	860
ZONE I tilt angle 45°	6.1 kWh/m² day	Not actual													4	172
															8	344
															12	516
															16	688
															20	860



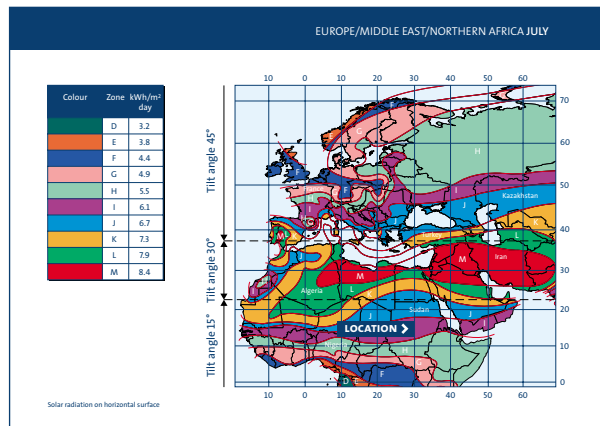
SQFLEX SYSTEM SIZING

Before starting to size the system, you need to determine three things:

- location
- total head
- required water quantity per day

Select the map for July or January, depending on which period of the year you want the system to be sized for.

The following example shows how the hardcopy version is used to select the correct SQFlex system for a person in Sudan.



The map shows how particular locations belong to various zones, and this is marked by different colours to make it easier to read. From the map, it is possible to ascertain two important details: the zone and the solar panel tilt angle.

Our location is situated in Zone I, and the solar panel tilt angle is 15°.

Now it is possible to choose the relevant sizing chart according to the given zone and colour. Here's where the total head and water requirements are used to select the correct pump and number of solar panels.

With a required total head of 40 m, and a daily water requirement of 7 m³, the correct pump is an SQFlex 2.5-2. Furthermore, the number of solar panels necessary to power this SQFlex system is 8, corresponding to 344 Wp.

Europe/Middle East/Northern Africa
SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110		
E1 tilt angle 15°	18.5	10.4	7.1	3.4	2.5	2.3	2.0	1.8	1.5	1.3	1.1	0.8	0.5	4	172
	SQF 5A-3	SQF 2.5-2				SQF 0.6-2									
	45.6	21.2	15.4	10.2	7.0	5.5	4.7	3.9	3.6	3.4	3.1	2.7	2.4		
	SQF 8A-3	SQF 2.5-2				SQF 1.2-2								8	344
	69.3	34.9	20.1	16.0	11.9	9.3	7.4	6.6	5.7	4.8	4.2	3.9	3.6		
	SQF 14A-3	SQF 2.5-2				SQF 1.2-2									
	124.4	19.0	16.0	13.0	11.0	9.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	12	516
	SQF 5A-3	SQF 2.5-2				SQF 0.6-2									
	124.4	19.0	16.0	13.0	11.0	9.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0		
	SQF 5A-3	SQF 2.5-2				SQF 0.6-2									

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]	
		5	10	20	30	40	50	60	70	80	90	100	110			120
ZONE D tilt angle 15°	3.2 kWh/m² day	5.5	4.2	2.3	1.1	0.9	0.7	0.6	0.4	0.2	0.1				4	172
		SQF 2.5-2			SQF 0.6-2											
		19.2	10.8	7.4	3.6	2.6	2.3	2.1	1.8	1.6	1.3	1.1	0.8	0.6	8	344
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		34.0	15.9	12.0	7.2	4.7	3.9	3.4	3.0	2.8	2.5	2.2	1.9	1.5	12	516
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		47.1	22.1	15.9	10.6	7.3	5.7	4.8	4.0	3.8	3.5	3.2	2.8	2.5	16	688
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		59.8	29.5	18.9	13.8	9.9	7.3	6.3	5.4	4.6	4.1	3.9	3.5	3.2	20	860
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
ZONE D tilt angle 30°		5.0	3.8	2.0	1.0	0.8	0.6	0.5	0.3	0.1	0.1				4	172
		SQF 2.5-2			SQF 0.6-2											
		17.9	10.4	7.0	3.2	2.4	2.2	2.0	1.7	1.5	1.2	1.0	0.7	0.5	8	344
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		31.9	15.5	11.5	6.7	4.5	3.6	3.3	2.9	2.6	2.3	2.1	1.7	1.4	12	516
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		45.7	20.5	15.4	10.1	6.7	5.3	4.5	4.0	3.7	3.3	3.0	2.6	2.3	16	688
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		57.4	27.9	18.8	13.2	9.3	7.1	6.0	5.1	4.3	4.1	3.9	3.5	3.0	20	860
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
ZONE D tilt angle 45°	4.7	3.5	1.8	0.9	0.7	0.5	0.4	0.2	0.1					4	172	
	SQF 2.5-2			SQF 0.6-2												
	17.0	10.2	6.7	3.0	2.4	2.1	1.9	1.6	1.4	1.1	0.9	0.6	0.4	8	344	
	SQF 5A-3	SQF 2.5-2			SQF 0.6-2											
	30.4	15.3	11.2	6.3	4.3	3.5	3.2	2.9	2.5	2.2	2.0	1.6	1.3	12	516	
	SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2										
	44.7	19.8	15.2	9.8	6.3	5.2	4.3	4.0	3.6	3.3	2.9	2.5	2.2	16	688	
	SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2									
	56.6	26.9	18.8	12.9	9.0	6.9	5.9	4.8	4.4	4.1	3.9	3.4	3.0	20	860	
	SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2							

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE E tilt angle 15°	3.8 kWh/m² day	7.4	5.7	3.3	1.5	1.2	1.1	0.9	0.7	0.5	0.3	0.2	0.1		4	172
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2											
		24.6	12.9	9.3	5.1	3.5	2.9	2.6	2.3	2.1	1.8	1.6	1.3	1.0	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		42.0	18.7	14.3	9.2	6.2	5.0	4.2	3.7	3.4	3.1	2.8	2.4	2.1	12	516
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		57.2	28.1	18.4	13.1	9.4	6.9	6.0	5.1	4.3	4.0	3.7	3.4	3.1	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2				SQF 0.6-2					
		70.9	35.8	20.5	16.5	12.4	9.6	7.6	6.7	5.9	5.0	4.3	4.0	3.7	20	860
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2					SQF 0.6-2			
ZONE E tilt angle 30°		6.7	5.3	3.0	1.4	1.1	1.0	0.8	0.6	0.4	0.3	0.1			4	172
		SQF 2.5-2			SQF 0.6-2											
		23.0	12.6	8.9	4.7	3.3	2.8	2.5	2.2	2.0	1.7	1.4	1.1	0.9	8	344
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		40.1	18.0	13.9	8.7	5.7	4.7	4.0	3.6	3.3	2.9	2.6	2.3	2.0	12	516
		SQF 8A-3	SQF 2.5-2				SQF 1.2-2	SQF 0.6-2								
		55.1	26.6	18.1	12.6	8.8	6.7	5.7	4.8	4.2	4.0	3.7	3.3	2.9	16	688
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		69.5	34.8	20.7	16.1	11.9	9.0	7.5	6.5	5.5	4.7	4.3	4.0	3.7	20	860
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
ZONE E tilt angle 45°	6.5	5.1	2.9	1.3	1.1	0.9	0.8	0.5	0.4	0.2	0.1			4	172	
	SQF 2.5-2			SQF 0.6-2												
	22.4	12.5	8.7	4.5	3.1	2.7	2.5	2.1	1.9	1.6	1.4	1.1	0.8	8	344	
	SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2										
	39.6	18.0	13.8	8.6	5.5	4.6	4.0	3.6	3.2	2.9	2.6	2.2	1.9	12	516	
	SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2									
	54.7	25.8	18.1	12.4	8.6	6.6	5.6	4.7	4.3	4.0	3.7	3.2	2.8	16	688	
	SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2							
69.2	34.4	21.2	15.9	11.7	8.7	7.5	6.4	5.4	4.5	4.3	4.0	3.7	20	860		
SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2							

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE F tilt angle 15°	4.4 kWh/m² day	10.4	7.0	4.4	1.9	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.1	4	172
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2											
		31.0	14.9	11.0	6.5	4.3	3.5	3.1	2.8	2.5	2.3	2.0	1.6	1.4	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		49.2	23.6	16.5	11.2	7.8	6.0	5.1	4.3	3.9	3.6	3.4	3.0	2.6	12	516
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		66.7	33.4	19.9	15.4	11.3	8.7	7.2	6.2	5.4	4.5	4.1	3.8	3.5	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		81.2	41.4	21.7	18.2	14.7	11.7	9.2	7.6	6.9	6.1	5.4	4.6	4.0	20	860
		SQF 14A-3		SQF 2.5-2					SQF 1.2-2					SQF 0.6-2		
ZONE F tilt angle 30°		9.4	6.7	4.1	1.8	1.5	1.3	1.1	0.9	0.7	0.5	0.3	0.1		4	172
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2											
		29.2	14.6	10.7	6.1	4.1	3.3	3.0	2.7	2.4	2.1	1.9	1.5	1.2	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		48.0	22.2	16.1	10.7	7.3	5.7	4.9	4.1	3.8	3.5	3.2	2.8	2.5	12	516
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		64.3	32.0	19.9	14.9	10.9	8.2	7.0	5.9	5.1	4.3	4.1	3.8	3.5	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		80.1	40.8	21.9	18.1	14.3	11.1	8.6	7.6	6.7	5.8	5.1	4.3	4.1	20	860
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2				SQF 0.6-2			
ZONE F tilt angle 45°	9.0	6.5	4.0	1.8	1.5	1.3	1.1	0.9	0.7	0.4	0.3	0.1		4	172	
	SQF 5A-3	SQF 2.5-2		SQF 0.6-2												
	28.6	14.5	10.6	6.0	4.0	3.3	3.0	2.6	2.4	2.1	1.8	1.5	1.2	8	344	
	SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2										
	48.0	21.8	16.1	10.7	7.2	5.7	4.8	4.1	3.9	3.5	3.2	2.8	2.4	12	516	
	SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
	64.5	31.9	20.2	14.9	10.8	8.0	6.9	5.8	5.0	4.4	4.2	3.8	3.5	16	688	
	SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2						
	80.6	40.9	22.5	18.2	14.2	10.9	8.5	7.6	6.7	5.7	5.0	4.4	4.1	20	860	
	SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2					SQF 0.6-2				

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE G tilt angle 15°	4.9 kWh/m² day	12.7	8.1	5.3	2.2	1.9	1.7	1.5	1.2	1.0	0.8	0.6	0.4	0.2	4	172
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2											
		35.8	16.4	12.4	7.7	5.0	4.2	3.5	3.2	2.9	2.6	2.3	2.0	1.7	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		55.8	27.3	18.1	12.7	9.1	6.7	5.9	5.0	4.2	3.9	3.6	3.3	3.0	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2				SQF 0.6-2					
		73.3	37.3	20.7	16.9	13.0	10.2	7.8	7.0	6.2	5.3	4.6	4.0	3.8	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2					SQF 0.6-2			
		88.6	49.4	24.6	19.1	16.1	13.3	10.7	8.1	7.5	6.8	6.2	5.4	4.6	20	860
		SQF 14A-3	SQF 14A-3	SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
ZONE G tilt angle 30°		11.7	7.7	5.0	2.1	1.8	1.6	1.4	1.1	0.9	0.7	0.5	0.3	0.1	4	172
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2											
		34.0	16.0	12.1	7.2	4.7	3.9	3.4	3.1	2.8	2.5	2.2	1.9	1.6	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		53.7	26.0	17.8	12.3	8.6	6.5	5.6	4.7	4.1	3.9	3.6	3.2	2.9	12	516
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		72.1	36.3	20.8	16.7	12.5	9.6	7.7	6.8	5.9	5.0	4.3	4.1	3.8	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		87.7	46.6	23.2	19.1	15.9	12.8	10.1	8.2	7.4	6.6	5.9	5.1	4.3	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
ZONE G tilt angle 45°		11.6	7.7	4.9	2.1	1.8	1.6	1.4	1.1	0.9	0.7	0.5	0.3	0.1	4	172
		SQF 5A-3	SQF 2.5-2		SQF 0.6-2											
		33.8	16.1	12.1	7.2	4.7	3.9	3.5	3.1	2.7	2.5	2.2	1.9	1.5	8	344
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
		54.1	25.8	17.8	12.3	8.5	6.5	5.5	4.7	4.2	3.9	3.7	3.2	2.8	12	516
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		72.8	36.6	21.3	16.8	12.5	9.5	7.8	6.8	5.8	5.0	4.4	4.1	3.8	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		88.6	46.2	23.2	19.4	16.1	12.8	10.1	8.3	7.5	6.6	5.9	5.0	4.4	20	860
		SQF 14A-3		SQF 2.5-2				SQF 1.2-2					SQF 0.6-2			

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE H tilt angle 15°	5.5 kWh/m² day	15.8	9.3	6.3	2.8	2.2	2.0	1.8	1.5	1.3	1.1	0.9	0.6	0.4	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		41.0	18.0	14.0	9.0	5.9	4.8	4.0	3.6	3.3	3.0	2.7	2.4	2.0	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		63.0	31.3	19.3	14.5	10.6	8.0	6.7	5.8	5.0	4.1	3.9	3.6	3.4	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		81.2	41.8	21.7	18.2	14.8	11.8	9.3	7.6	6.9	6.2	5.4	4.6	4.0	16	688
		SQF 14A-3		SQF 2.5-2					SQF 1.2-2					SQF 0.6-2		
		96.5	57.8	28.6	20.0	17.3	14.8	12.4	9.5	8.0	7.3	6.8	6.2	5.5	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
ZONE H tilt angle 30°		14.8	8.9	5.9	2.5	2.1	1.9	1.7	1.4	1.2	1.0	0.8	0.5	0.3	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		39.3	17.7	13.6	8.5	5.5	4.6	3.9	3.5	3.2	2.9	2.6	2.2	1.9	8	344
		SQF 8A-3	SQF 2.5-2				SQF 1.2-2	SQF 0.6-2								
		60.9	30.0	19.2	14.1	10.1	7.5	6.5	5.5	4.7	4.2	4.0	3.6	3.3	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		80.2	40.9	21.7	18.1	14.3	11.2	8.8	7.6	6.8	5.9	5.1	4.3	4.0	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2					SQF 0.6-2		
		95.7	55.3	27.2	20.1	17.3	14.6	11.9	9.0	8.0	7.3	6.6	6.0	5.2	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
ZONE H tilt angle 45°		14.8	9.0	5.9	2.5	2.1	1.9	1.7	1.4	1.2	0.9	0.8	0.5	0.3	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		39.4	17.8	13.7	8.6	5.5	4.6	3.9	3.5	3.2	2.9	2.6	2.2	1.9	8	344
		SQF 8A-3	SQF 2.5-2				SQF 1.2-2	SQF 0.6-2								
		61.1	30.1	19.4	14.2	10.2	7.5	6.5	5.5	4.7	4.2	4.0	3.7	3.3	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		81.4	41.4	22.2	18.3	14.5	11.2	8.8	7.7	6.9	5.9	5.1	4.4	4.1	16	688
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2				SQF 0.6-2			
		97.0	55.4	27.3	20.4	17.5	14.8	11.9	9.0	8.2	7.4	6.7	6.0	5.3	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]	
		5	10	20	30	40	50	60	70	80	90	100	110			120
ZONE I tilt angle 15°	6.1 kWh/m² day	18.5	10.4	7.1	3.4	2.5	2.3	2.0	1.8	1.5	1.3	1.1	0.8	0.5	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		45.6	21.2	15.4	10.2	7.0	5.5	4.7	3.9	3.6	3.4	3.1	2.7	2.4	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		69.3	34.9	20.1	16.0	11.9	9.3	7.4	6.6	5.7	4.8	4.2	3.9	3.6	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		88.0	49.1	24.4	19.0	16.0	13.2	10.7	8.1	7.4	6.8	6.2	5.4	4.6	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		104	65.1	32.1	20.7	18.1	16.0	13.8	11.0	8.6	7.7	7.2	6.7	6.1	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE I tilt angle 30°		17.6	10.1	6.8	3.2	2.4	2.2	2.0	1.7	1.4	1.2	1.0	0.7	0.5	4	172
		SQF 5A-3	SQF 2.5-2			SQF 0.6-2										
		44.1	20.1	15.0	9.8	6.6	5.3	4.5	3.9	3.6	3.2	3.0	2.6	2.3	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2							
		67.4	33.7	20.2	15.7	11.5	8.8	7.3	6.3	5.4	4.5	4.2	3.9	3.6	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2				
		87.2	46.7	23.3	19.0	15.9	12.7	10.2	8.1	7.4	6.6	5.9	5.1	4.3	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		103	62.8	30.9	20.8	18.1	15.9	13.4	10.5	8.5	7.7	7.1	6.6	6.0	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE I tilt angle 45°	17.7	10.2	6.8	3.2	2.4	2.2	2.0	1.7	1.4	1.2	1.0	0.7	0.5	4	172	
	SQF 5A-3	SQF 2.5-2			SQF 0.6-2											
	44.9	20.3	15.2	9.9	6.7	5.3	4.5	3.9	3.6	3.3	3.0	2.6	2.3	8	344	
	SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2		SQF 0.6-2								
	68.5	34.3	20.5	15.9	11.7	8.9	7.4	6.3	5.5	4.6	4.3	4.0	3.6	12	516	
	SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2				SQF 0.6-2					
	88.7	47.2	23.5	19.3	16.1	12.9	10.3	8.3	7.5	6.7	6.0	5.2	4.4	16	688	
	SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2								
	104	63.4	31.3	21.1	18.4	16.1	13.6	10.6	8.6	7.9	7.3	6.7	6.1	20	860	
	SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2						

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE J tilt angle 15°	6.7 kWh/m² day	20.9	11.4	8.0	4.1	2.9	2.5	2.3	2.0	1.7	1.5	1.3	1.0	0.7	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		49.6	24.1	16.6	11.3	8.0	6.1	5.2	4.4	3.9	3.6	3.4	3.0	2.7	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		74.6	38.0	20.8	17.1	13.2	10.4	8.0	7.1	6.3	5.4	4.7	4.1	3.8	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2				SQF 0.6-2			
		94.0	55.5	27.5	19.7	17.0	14.4	11.9	9.1	7.8	7.2	6.6	6.0	5.3	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		110	71.4	35.4	21.1	18.8	16.7	14.7	12.4	9.9	8.1	7.5	7.1	6.6	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE J tilt angle 30°		20.1	11.1	7.7	3.9	2.7	2.4	2.2	1.9	1.7	1.4	1.2	0.9	0.7	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		48.7	23.1	16.3	11.0	7.6	5.8	5.0	4.2	3.9	3.6	3.3	2.9	2.5	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		73.4	37.2	20.9	17.0	12.9	10.0	7.8	7.0	6.1	5.2	4.5	4.1	3.8	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2				SQF 0.6-2			
		93.3	53.4	26.4	19.8	16.9	14.2	11.5	8.6	7.8	7.1	6.5	5.8	5.0	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		109	69.4	34.4	21.3	18.9	16.8	14.4	11.9	9.4	8.1	7.5	7.0	6.5	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE J tilt angle 45°	20.4	11.4	7.8	3.9	2.8	2.5	2.2	1.9	1.7	1.4	1.2	0.9	0.7	4	172	
	SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2										
	49.8	23.4	16.6	11.2	7.7	5.9	5.1	4.2	3.9	3.7	3.4	2.9	2.6	8	344	
	SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2							
	75.2	38.0	21.2	17.3	13.1	10.2	8.0	7.1	6.2	5.3	4.6	4.2	3.9	12	516	
	SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2				SQF 0.6-2				
	95.1	54.3	26.7	20.1	17.2	14.5	11.6	8.7	8.0	7.2	6.6	5.9	5.1	16	688	
	SQF 14A-3 S		SQF 5A-6	SQF 2.5-2					SQF 1.2-2							
	111	70.3	35.1	21.6	19.2	17.1	14.8	12.1	9.6	8.3	7.7	7.1	6.6	20	860	
	SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2						

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE K tilt angle 15°	7.3 kWh/m≤day	23.0	12.3	8.7	4.7	3.3	2.8	2.5	2.2	2.0	1.7	1.4	1.2	0.9	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		54.5	26.6	17.8	12.4	8.8	6.6	5.7	4.8	4.1	3.8	3.6	3.3	2.9	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		79.5	40.4	21.5	17.9	14.4	11.5	9.0	7.5	6.8	6.0	5.3	4.5	4.0	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2					SQF 0.6-2		
		99.2	61.0	30.1	20.3	17.6	15.3	13.1	10.2	8.2	7.4	7.0	6.5	5.9	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		115	76.8	38.3	23.2	19.4	17.4	15.3	13.2	11.1	8.4	7.8	7.3	6.9	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2					SQF 1.2-2					
ZONE K tilt angle 30°		22.3	12.1	8.5	4.5	3.1	2.7	2.4	2.1	1.9	1.6	1.4	1.1	0.8	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		52.8	25.7	17.5	12.1	8.5	6.4	5.5	4.7	4.1	3.8	3.5	3.2	2.8	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		78.8	40.2	21.5	17.9	14.1	11.1	8.6	7.4	6.7	5.8	5.1	4.3	4.0	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2					SQF 0.6-2		
		98.6	59.1	29.1	20.4	17.6	15.2	12.7	9.7	8.2	7.5	6.9	6.3	5.7	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		115	75.0	37.6	22.2	19.5	17.4	15.4	12.9	10.6	8.4	7.9	7.3	6.8	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2					SQF 1.2-2					
ZONE K tilt angle 45°		22.7	12.4	8.7	4.6	3.2	2.7	2.5	2.2	1.9	1.6	1.4	1.1	0.8	4	172
		SQF 5A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		54.0	26.2	17.9	12.4	8.7	6.5	5.6	4.8	4.2	3.9	3.6	3.2	2.9	8	344
		SQF 8A-3	SQF 5A-3	SQF 2.5-2			SQF 1.2-2			SQF 0.6-2						
		80.8	41.2	21.9	18.2	14.4	11.3	8.8	7.6	6.8	5.9	5.2	4.4	4.1	12	516
		SQF 14A-3	SQF 5A-3	SQF 2.5-2					SQF 1.2-2					SQF 0.6-2		
		101	60.4	29.6	20.8	18.0	15.6	12.9	9.9	8.4	7.6	7.0	6.5	5.8	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2					SQF 1.2-2						
		117	76.3	38.5	22.7	19.9	17.8	15.7	13.2	10.9	8.6	8.1	7.5	6.9	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2					SQF 1.2-2					

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]													No. of GF 43	Power [Wp]
		5	10	20	30	40	50	60	70	80	90	100	110	120		
ZONE L tilt angle 15°	7.9 kWh/m ² day	25.4	13.1	9.4	5.3	3.6	3.0	2.7	2.4	2.1	1.9	1.6	1.3	1.1	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		58.5	28.8	18.5	13.3	9.6	7.1	6.2	5.3	4.5	4.0	3.8	3.5	3.1	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		83.9	44.9	22.5	18.5	15.4	12.4	9.8	7.8	7.2	6.5	5.7	4.9	4.2	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		104	65.6	32.4	20.7	18.2	16.1	13.9	11.1	8.7	7.7	7.2	6.8	6.2	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
		120	81.1	40.8	25.2	19.8	17.9	15.9	13.8	11.9	9.2	8.1	7.6	7.1	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE L tilt angle 30°		24.5	12.9	9.2	5.1	3.5	2.9	2.6	2.3	2.1	1.8	1.6	1.2	1.0	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		57.1	28.0	18.4	13.1	9.3	6.9	6.0	5.1	4.3	4.0	3.8	3.4	3.1	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		83.4	43.4	22.0	18.6	15.2	12.1	9.5	7.8	7.1	6.3	5.6	4.8	4.1	12	516
		SQF 14A-3		SQF 2.5-2				SQF 1.2-2					SQF 0.6-2			
		103	64.1	31.5	20.8	18.2	16.0	13.7	10.8	8.5	7.8	7.2	6.7	6.1	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		119	79.8	40.3	24.5	19.9	18.0	15.9	13.7	11.7	8.9	8.2	7.6	7.1	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
ZONE L tilt angle 45°		25.2	13.3	9.5	5.2	3.6	2.9	2.7	2.4	2.1	1.9	1.6	1.3	1.0	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		58.4	28.6	18.8	13.4	9.5	7.1	6.1	5.2	4.4	4.1	3.9	3.5	3.1	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		85.6	44.7	22.4	18.9	15.6	12.3	9.8	8.1	7.3	6.5	5.7	4.9	4.2	12	516
		SQF 14A-3		SQF 2.5-2				SQF 1.2-2					SQF 0.6-2			
		106	65.5	32.3	21.2	18.6	16.4	13.9	11.0	8.7	8.0	7.4	6.8	6.3	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		122	81.5	41.4	25.1	20.2	18.4	16.3	13.9	11.9	9.2	8.4	7.8	7.2	20	860
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					

SQFlex Sizing Table – performance [m³/day], July

Zone	Solar radiation	Total Head [m]												No. of GF 43	Power [Wp]	
		5	10	20	30	40	50	60	70	80	90	100	110			120
ZONE M tilt angle 15°	8.4 kWh/m² day	27.2	13.6	9.9	5.7	3.8	3.1	2.9	2.5	2.3	2.0	1.7	1.4	1.1	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		61.3	30.3	19.0	14.0	10.2	7.6	6.5	5.6	4.7	4.1	3.9	3.6	3.3	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		86.9	48.1	23.9	18.9	15.9	13.0	10.4	8.0	7.4	6.7	6.1	5.3	4.5	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		107	68.8	34.0	20.9	18.6	16.4	14.3	11.8	9.3	7.9	7.4	7.0	6.4	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
		123	83.8	42.4	26.5	20.0	18.3	16.3	14.2	12.3	9.8	8.2	7.8	7.3	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2						SQF 1.2-2				
ZONE M tilt angle 30°		26.5	13.5	9.8	5.5	3.7	3.0	2.8	2.5	2.2	1.9	1.7	1.4	1.1	4	172
		SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2									
		60.2	29.7	19.0	13.8	9.9	7.4	6.4	5.5	4.6	4.1	3.9	3.5	3.2	8	344
		SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2					
		86.7	46.9	23.4	18.9	15.9	12.8	10.2	8.1	7.4	6.6	5.9	5.1	4.4	12	516
		SQF 14A-3		SQF 5A-6	SQF 2.5-2				SQF 1.2-2							
		107	67.6	33.3	21.1	18.6	16.5	14.2	11.5	9.0	8.0	7.4	7.0	6.4	16	688
		SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2					
		123	83.0	42.1	26.0	20.1	18.5	16.4	14.2	12.2	9.6	8.3	7.8	7.3	20	860
		SQF 14A-3		SQF 5A-6		SQF 2.5-2						SQF 1.2-2				
ZONE M tilt angle 45°	27.3	13.9	10.1	5.7	3.9	3.1	2.9	2.5	2.3	2.0	1.8	1.4	1.1	4	172	
	SQF 8A-3	SQF 2.5-2			SQF 1.2-2	SQF 0.6-2										
	61.7	30.4	19.4	14.2	10.2	7.7	6.5	5.6	4.8	4.2	4.0	3.6	3.3	8	344	
	SQF 14A-3	SQF 5A-3	SQF 2.5-2				SQF 1.2-2			SQF 0.6-2						
	89.0	48.5	24.2	19.3	16.3	13.1	10.5	8.3	7.6	6.8	6.1	5.3	4.5	12	516	
	SQF 14A-3		SQF 5A-6	SQF 2.5-2			SQF 2.5-2	SQF 1.2-2								
	109	69.3	34.3	21.4	19.0	16.9	14.5	11.8	9.3	8.2	7.6	7.1	6.5	16	688	
	SQF 14A-3		SQF 5A-6	SQF 2.5-2						SQF 1.2-2						
	125	85.3	43.3	26.7	20.5	18.8	16.8	14.5	12.5	9.9	8.5	8.1	7.4	20	860	
	SQF 14A-3		SQF 5A-6		SQF 2.5-2						SQF 1.2-2					