

Product Data Sheet according to Regulation (EU): No 811/2013 & 812/2013.

Kingspan Thermomax Evacuated Tube Collectors.

	DF400		HP400/450	
Number of Tubes	20	30	20	30
Aperture Area (m ²)	2.15	3.23	2.13	3.2
Optical Efficiency η_0	0.768	0.768	0.75	0.75
1 st order loss coefficient a_1 (W/m ² K)	1.36	1.36	1.18	1.18
2 nd order loss coefficient a_2 (W/m ² K ²)	0.0053	0.0053	0.0095	0.0095
IAM (50°)	1.01	1.01	0.99	0.99
η_{cal} (40K, 1000W) (%)	71	71	69	69
Solar Keymark Licence Nos	011-7S1946 R		011-751793R	

Kingspan Solar FPW Flat Panel Collectors.

Specification / Type	FPW18	FPW21	FPW25
Aperture Area (m ²)	1.62	1.92	2.23
Optical Efficiency η_0	0.785		
1 st order loss coefficient a_1 (W/m ² K)	3.722		
2 nd order loss coefficient a_2 (W/m ² K ²)	0.012		
IAM (50°)	0.94		
η_{cal} (40K, 1000W)(%)	62		
Solar Keymark Licence No	011-7S2039 F		

Kingspan Varisol Evacuated Tube Collectors.

Specification / Type	Varisol DF	Varisol HP95	Varisol HP135
Aperture Area (m ²)	0.105	0.106	0.106
Optical Efficiency η_0	0.783	0.76	0.78
1 st order loss coefficient a_1 (W/m ² K)	1.061	1.621	2.112
2 nd order loss coefficient a_2 (W/m ² K ²)	0.023	0.008	0.006
IAM (50°)	1.01	1.03	1.03
η_{cal} (40K, 1000W)(%)	70	68	69
Solar Keymark Licence Nos	011-751238F	011-751936R	011-751935R

Pump Stations

Product Code	Description	Primary Pump	Secondary Pump	Solpump (W)
KSP0679	2-12L SINGLE STREAM PUMP STATION HIGH EFFICIENCY	Grundfos UPM3 Solar 25-75		30
KSP0680	8-28L SINGLE STREAM PUMP STATION HIGH EFFICIENCY	Wilo Yonos Para ST 25/7.5		37.5
KSP0681	2-12L DUAL STREAM PUMP STATION HIGH EFFICIENCY	Grundfos UPM3 Solar 25-75		30
KSP0682	8-28L DUAL STREAM PUMP STATION HIGH EFFICIENCY	Wilo Yonos Para ST 25/7.5		37.5
KSP0699	EAST WEST PUMP STATION SET 2-12L H.EFF	Grundfos UPM3 Solar 25-75 (x2)		60
KSP0700	2-12L DUAL STREAM PUMP STATION (3/4" MALE ENDS) H.EFF	Grundfos UPM3 Solar 25-75		30
KSP0701	2-12L SINGLE STREAM PUMP STATION (3/4" MALE ENDS) H.EFF	Grundfos UPM3 Solar 25-75		30
KSP0702	CSLM MINI 30 H - DN15	Grundfos UPM3 Solar 15-145	Grundfos UPM3 Solar 15-75	60
KSP0727	CSLM MINI 30 D - DN15	Grundfos UPM3 Solar 15-145	Grundfos UPM3 15-75 CIL	60

Solar Controllers

Product Code	Description	Class	Energy Efficiency (%)	Solstandby (W)
KEK0056	SC400 CONTROLLER	I	1	0.8
KEK0057	SC500 CONTROLLER	I	1	2

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