

!!!Please note the change in pump designation!!!

- For lifting stations and lifting stations in the chamber (dry set-up)
- For replacing switching units in existing systems
- For installation and commissioning in 2013

Pump designation up to 03/2013						
No.	Type	P1 in [kW]	P2 in [kW]	Cable	Art. no.	is replaced by
1.	FPF 110W KE-FE (230V)	1.6	1.1	5m	367-001	8.
2.	FPF 110 KE-FE	1.4	1.1	5m	367-002	19.
3.	FPF 220 KE-FE	3.2	2.2	5m	367-003	10.
4.	FPF 110W KE-FE (230V)	1.6	1.1	10m	367-006	13.
5.	FPF 110 KE-FE	1.4	1.1	10m	367-004	24.
6.	FPF 220 KE-FE	3.2	2.2	10m	367-005	15.

Pump designation from 03/2013					
No.	Type	P1 in [kW]	P2 in [kW]	Cable	Art. no.
7.	SPF1400-S3 50%, with condenser	1.6	1.1	5m	28029
8.	SPF1400-S3 50%, without condenser	1.6	1.1	5m	367-001
9.	SPF1500-S3 50%	1.4	1.1	5m	28028
10.	SPF3000-S3 50%	3.2	2.7	5m	28027
11.	SPF4500-S3 50%	4.5	3.6	5m	28026
12.	SPF1400-S3 50%, with condenser	1.6	1.1	10m	421-021
13.	SPF1400-S3 50%, without condenser	1.6	1.1	10m	367-006
14.	SPF1500-S3 50%	1.4	1.1	10m	421-022
15.	SPF3000-S3 50%	3.2	2.7	10m	421-023
16.	SPF4500-S3 50%	4.5	3.6	10m	421-024
17.	SPF1400-S1, with condenser	1.6	1.1	5m	28066
18.	SPF1400-S1, without condenser	1.6	1.1	5m	367-001
19.	SPF1500-S1	1.4	1.1	5m	28065
20.	SPF3000-S1	3.2	2.7	5m	28064
21.	SPF4500-S1	4.5	3.6	5m	28063
22.	SPF1400-S1, with condenser	1.6	1.1	10m	421-121
23.	SPF1400-S1, without condenser	1.6	1.1	10m	367-006
24.	SPF1500-S1	1.4	1.1	10m	421-122
25.	SPF3000-S1	3.2	2.7	10m	421-123
26.	SPF4500-S1	4.5	3.6	10m	421-124
27.	SPF5500-S3 30%	5.4	4.5	5m	28025

Control unit setting for Aqualift F lifting station

valid for art. no.: 28751, 28752, 28753, 28754, 28764, 28765, 28766, 28767

- For lifting station with pump type SPF 1500
→ select in the control unit, under settings: Capacity sizes: 3.6.1 Lifting station 1.1kW
- For lifting station with pump type SPF 3000
→ select in the control unit, under settings: Capacity sizes: 3.6.1 Lifting station 2.2kW

Control unit settings for Aqualift F XL lifting station

valid for art. no.: 11000-11128

- Select the suitable station in the control unit, under settings: Capacity sizes 3.6.1
- If not available, selection is in the control unit under capacity sizes 3.6.1 Special station in terms of maximum current

max. current < 4.0 A for a pump of the type SPF 1500
max. current < 6.3 A for a pump of the type SPF 3000
max. current < 10.0 A for a pump of the type SPF 4500 or SPF 5500

and the respective parameters set as shown in the table below.

Control unit KESSEL Aqualift F Comfort 400V

	Special settings for pump type					Setting range	Remark
	SPF1400	SPF1500	SPF3000	SPF4500	SPF5500		
Mains-on delay [s]	5	5	5	5	5	0...60	B
Level of immersion pipe [mm]	130	130	130	130	130	0...999	A
Switch lock [s]	6	6	6	6	6	0...30	C
Measuring range [mm]	1000	1000	1000	1000	1000	0...3000	B
ON1 level [mm]	350	350	350	350	350	0...999	A
ON2 level [mm]	400	400	400	400	400	0...999	A
OFF1 level [mm]	160	160	160	160	160	0...999	A
Alarm level [mm]	450	450	450	450	450	0...999	A
On-delay [s]	1	1	1	1	1	1...10	B
Run-on time [sec.]							
- 200l tank	3	3	3	2	2	1...10	A
- 300l tank	6	6	5	5	3	1...10	A
- 450l tank	6	6	6	5	4	1...10	A
Pump mode (Duo only)	On	On	On	On	Om	Off/On	B
Running time limit [min]	240	240	240	240	240	40...640	B
Start-up cycle limit	20	20	20	20	20	5...30	B
min. current [A]	1	1	1	1	1	0...5	A
max. current [A]	10	4	6,3	10	14	0...5	A
Bubble formation offset [mm]	0	0	0	0	0	0...30	B
auto SDS [d]	7	7	7	7	7	0...14	B

¹⁾ **A = Set, check B = Optional C = Changes to be carried out only by trained KESSEL personnel..**

²⁾ Immersion pipe

³⁾ Time that elapses before the second pump starts (Duo) as well as the time that elapses before a pump can restart.

⁴⁾ Only in Duo version

⁵⁾ Length of delay to switch-off caused by ventilation of the level detector immersion pipe.

⁶⁾ Describes the sequence in which the pumps switch on/off. It is possible to switch between alternating and set sequence.

⁷⁾ Maximum run time of each pump. Observe pump types S1 and S3

⁸⁾ Maximum number of pump start-ups within 3 minutes. Error message (visual and acoustic) if exceeded.

⁹⁾ Offset required to adjust the pressure created if a compressor is used to create air bubbles.