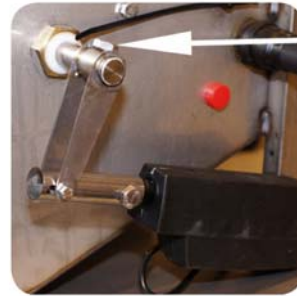


SMARTER WAREWASHING



Granule Maxi

Spare parts list

Granule Maxi serial # 910010-



Art. No. EN 21110-2010-03.

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0. Contents

- 1. Front**
- 2. Front open**
- 3. Spray pipe system**
- 4. Rinse system, electrically heated /
Steam reduction unit**
- 5. Granule valve / Wash tank / Drain**
- 6. Wash pump-right**
- 7. Wash pump-left**
- 8. Rinse pump**
- 9. Spray pipe motor**
- 10. Heaters**
- 11. Cassette trolley**
- 12. Components in electrical cabinet**
- 13. Hydraulic drawing**

1 Front

Position	Part number	Description	Quantity
1	20742	Control panel, spare part kit.....	1
Contents:			
	20668	Panel foil.....	1
	18321	Panel plate	1
	18322	Circuit board control panel.....	1
2	20799	Door stop, complete.....	2
3	20509	Door handle	1
4	20581	Door cover, lower right.....	1
5	20579	Door cover, lower left.....	1
6	20580	Door cover, upper left	1
7	20582	Door cover, upper right	1
8	12158	Bolt MFS M5x60, door covers	8
9	12190	Bolt LKCS M6x25.....	20
10.....	14156	Expander nut.....	20
11.....	14400	Foot.....	4
12.....	19671	Drain valve with handle	1
13.....	14121	Cover plate, front - central.....	1
14.....	21185	Cover plate, front – left	1
15.....	21184	Cover plate, front – right	1
16.....	21182	Cover plate, right	1
17.....	21183	Cover plate, left	1
18.....	21187	Cover plate, back left	1
19.....	21186	Cover plate, back right	1
20.....	20578	Roof, plastic	1
21.....	18549	Control cable for display	1

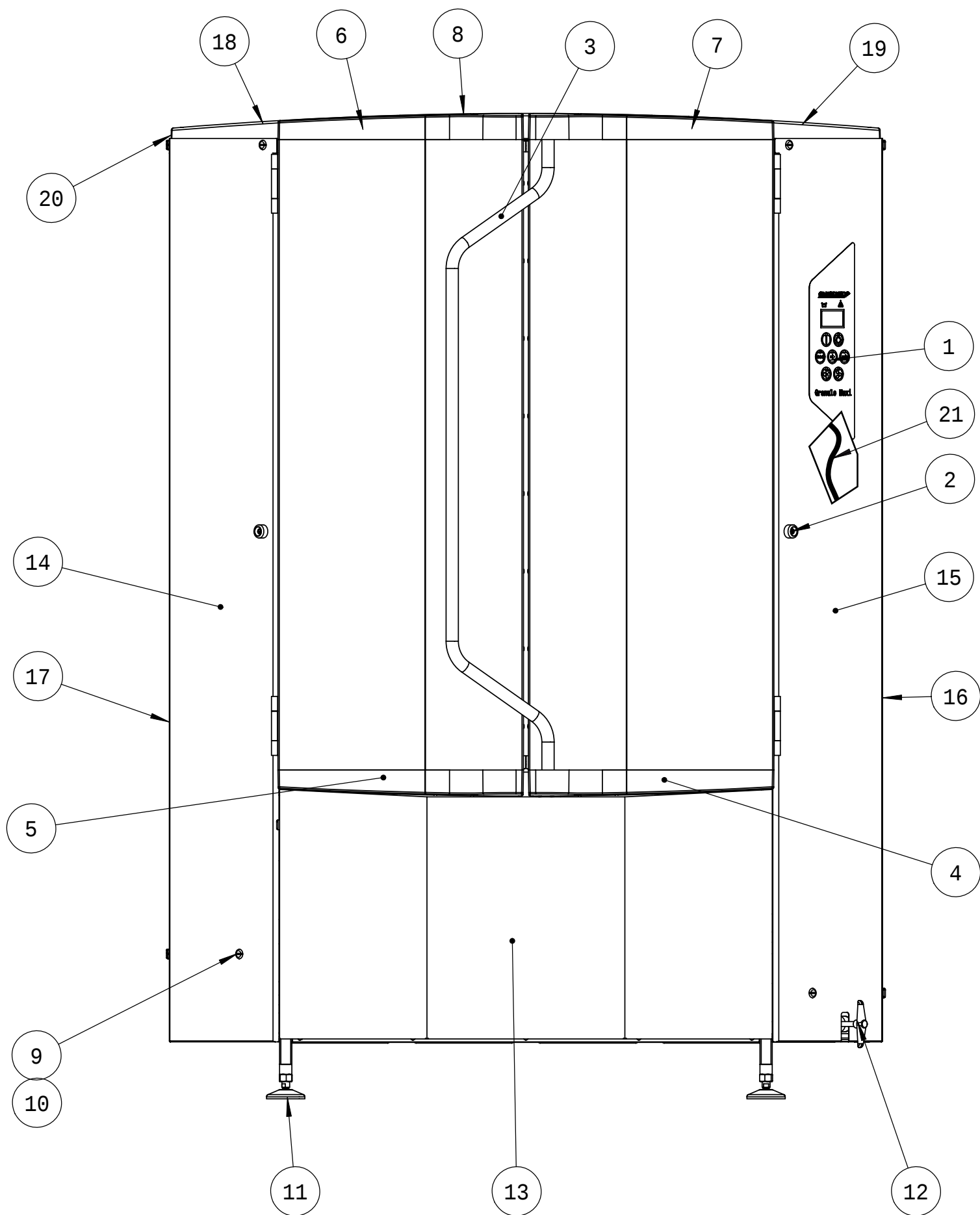
Not in the picture, Cable fitting:

Low current, 400 V and higher or steam heated:

.....	13155	Nut PG36	1
.....	19179	Cable fitting PG29	1
.....	20825	Reduction PG36-PG29	1

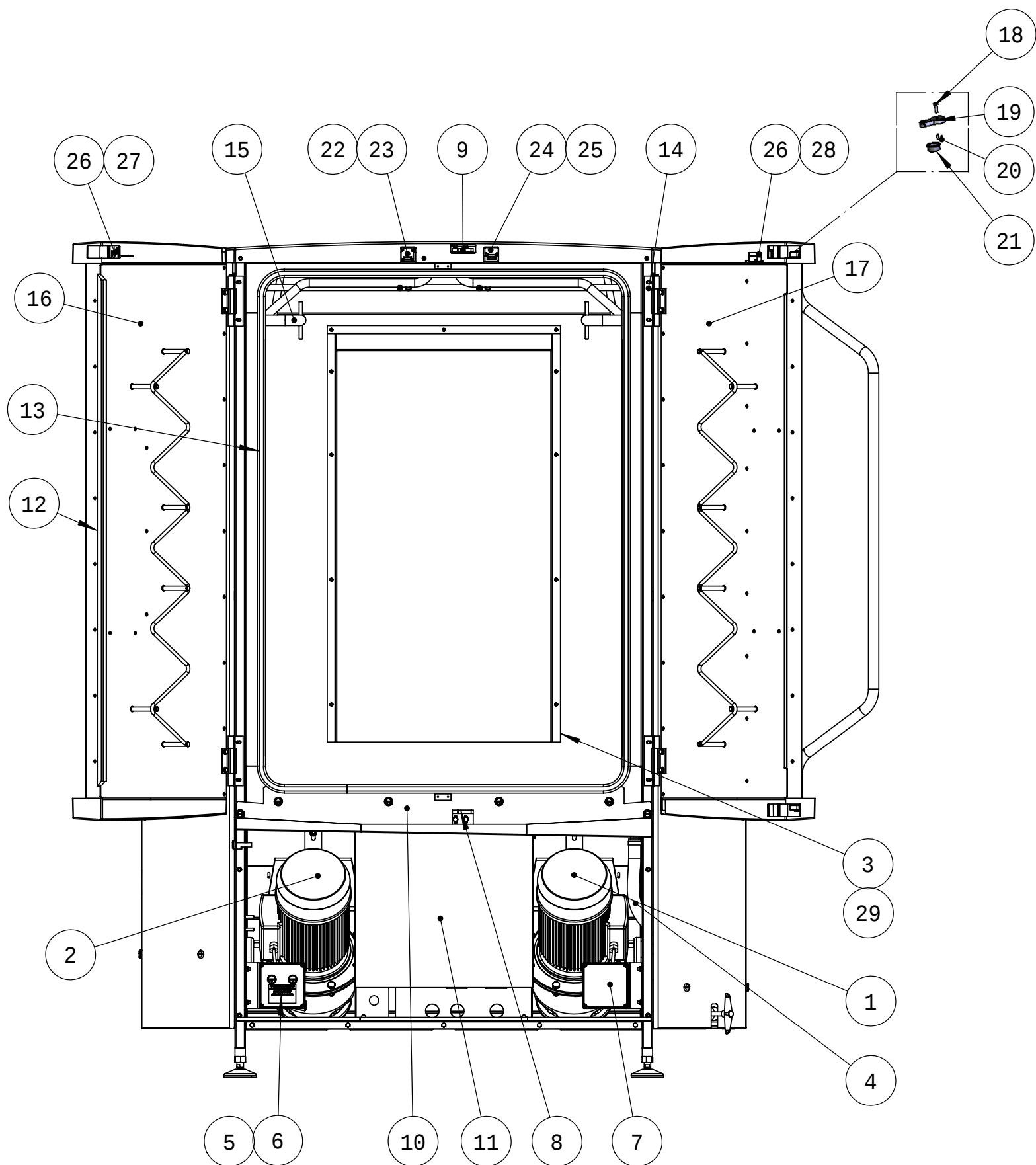
High current, CW, <400V:

.....	13155	Nut PG36	1
.....	13154	Cable fitting PG36	1



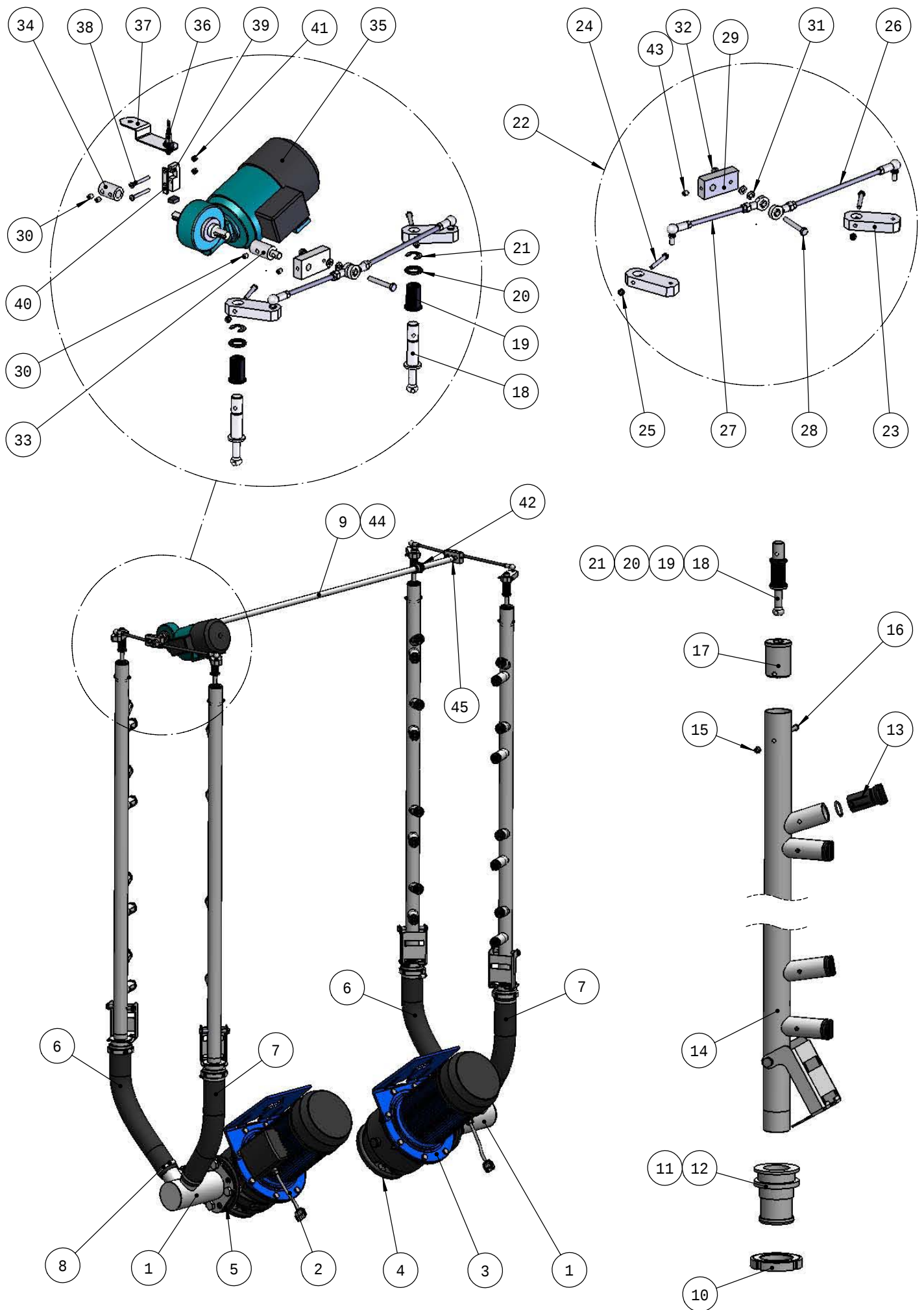
2 Front, open

Position	Part number	Description	Quantity
1	see section 6	Wash pump right	1
2	see section 7	Wash pump left	1
3	19228	Gasket	1
4	18304	Hose, drain 3/4" L=605	1
5	20786	Box with overheating protectors	1
Contents:			
6	14425	Overheating protector, wash/rinse	2
7	18772	Junction box, detergent/rinse agent	1
8	14575	Door lock guide, lower	1
9	14574	Door lock guide, upper	1
10	18302	Drain trench	1
11	see section 12	Electrical cabinet	1
12	11772	Middle seal	1
13	19891	Seal, cabin	1
14	13811	Hinge	4
15	14032	Cassette guide	2
16	20741	Door, left complete	1
17	20740	Door, right complete	1
18	12107	Bolt M6S M6x20	2
19	14704	Lock arm, complete	2
Contents:			
	14660	Lock arm	1
	12303	Washer 6,4x12x1,2	1
	10537	Bearing	1
	12084	Bolt MELC6S M6x10 A2	1
20	10907	Cylindrical pin 4x12	4
21	6000115	Bearing, door handle	2
22	14058	Door switch	1
23	13976	Bracket, door switch, left	1
24	14059	Door switch with lock	1
25	13975	Bracket, door switch with lock	1
26	14060	Key, door switch	2
27	13974	Bracket, key – door switch, left	1
28	13973	Bracket, key – door switch, right	1
29	5018	Nut M4 Locking	11



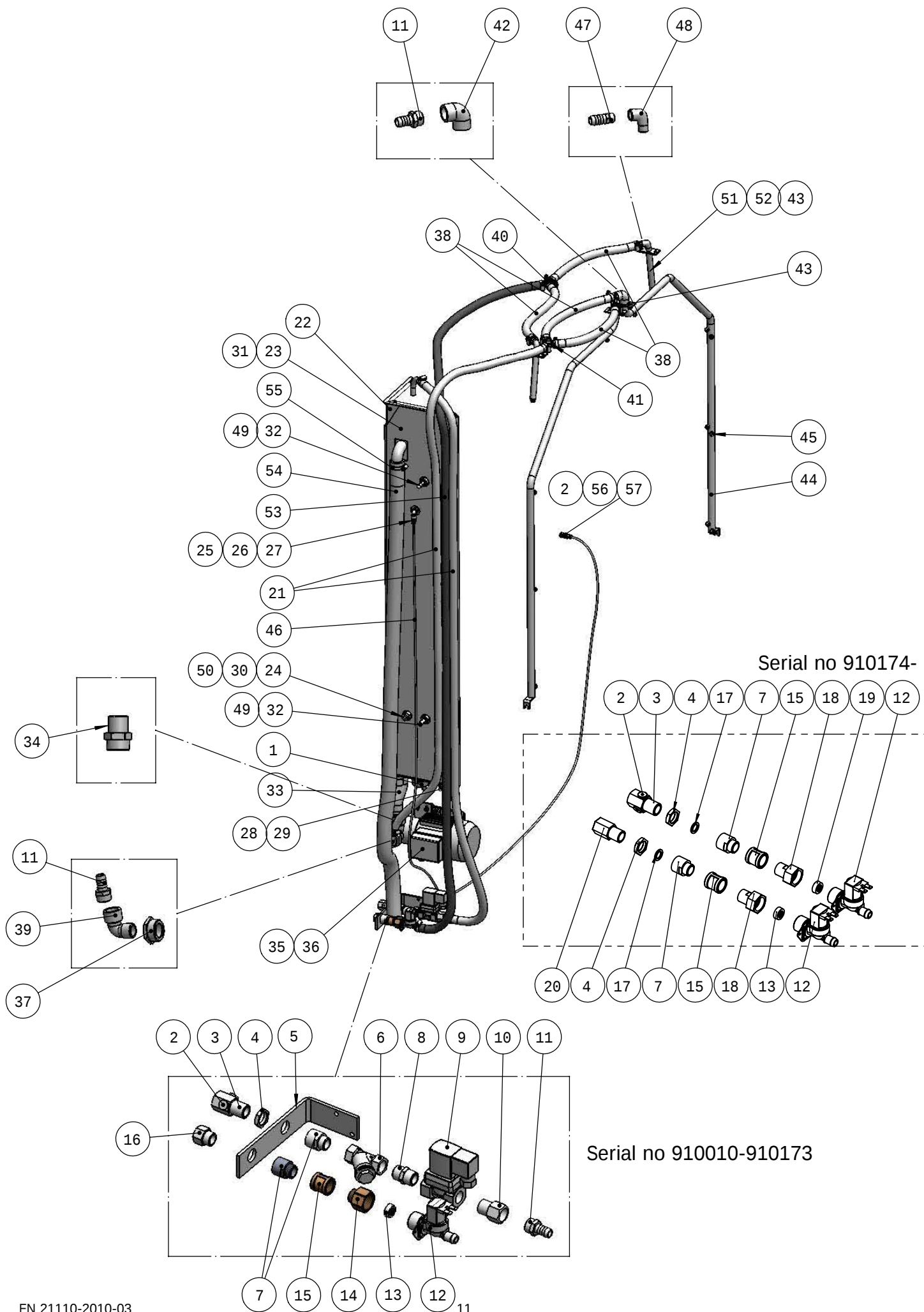
3 Spraypipe system

Position	Part number	Description	Quantity
1	14842	Distributor	2
2	see section 7	Wash pump, left.	1
3	see section 6	Wash pump, right.	1
4	14957	Gasket, pump inlet.....	2
5	14958	Gasket, pump outlet.....	2
6	18271	Hose L=420	2
7	18270	Hose L=360	2
8	60415	Hose clamp 40-60.....	8
9	18306	Shaft	1
10.....	11382	Nut, M50x1,5.....	4
11.....	11522	Bearing, spray pipe	4
12.....	10715	O-ring 49,5x3,0	4
13.....	20021	Wash nozzle kit 32 pcs	1
14.....	19550	Spray pipe with nozzles complete	4
Contents:			
		Wash nozzle	8
15	5116	Lock nut M5	1
16	12247	Bolt M6S M5 x 45.....	1
17	11528	Guide sealing.....	1
18.....	13125	Shaft with rod.....	4
19.....	13131	Slide bearing	4
20.....	11525	Washer	4
21.....	13132	Locking washer for shafts	4
22.....	14398	Linkage system.....	2
Contents:			
23	19826	Rocker arm	2
24	18141	Bolt M6S M5 x 40.....	2
25	5116	Lock nut M5	2
26	10704	Connector arm complete, long	1
27	10705	Connector arm complete, short	1
28	12248	Bolt M6S M6x45.....	1
29	19825	Motor arm.....	1
30	12186	Screw MSK6SS M6x8.....	4
31	12303	Washer 6,4x12x1,2	2
32	5143	Lock nut M6	1
33.....	13998	Coupling, motor - linkage.....	1
34.....	11779	Coupling, motor - shaft.....	1
35.....	see section 9	Motor, spray pipe.....	1
36.....	18332	Magnetic sensor complete	1
Contents:			
		Magnetic sensor.....	1
	18542	Magnet complete	1
37.....	18210	Bracket, magnetic sensor.....	1
38.....	18436	Bolt MRX-H M4x35	2
39.....	14779	Bracket, magnet	1
40.....	14780	Lock plate, magnet	1
41.....	5018	Lock nut M4	2
42.....	10055	Sealing.....	2
43.....		Screw M6x12 S6SSA2.....	2
44.....	13214	Tube for shaft.....	1
45.....	10037	Bearing	2



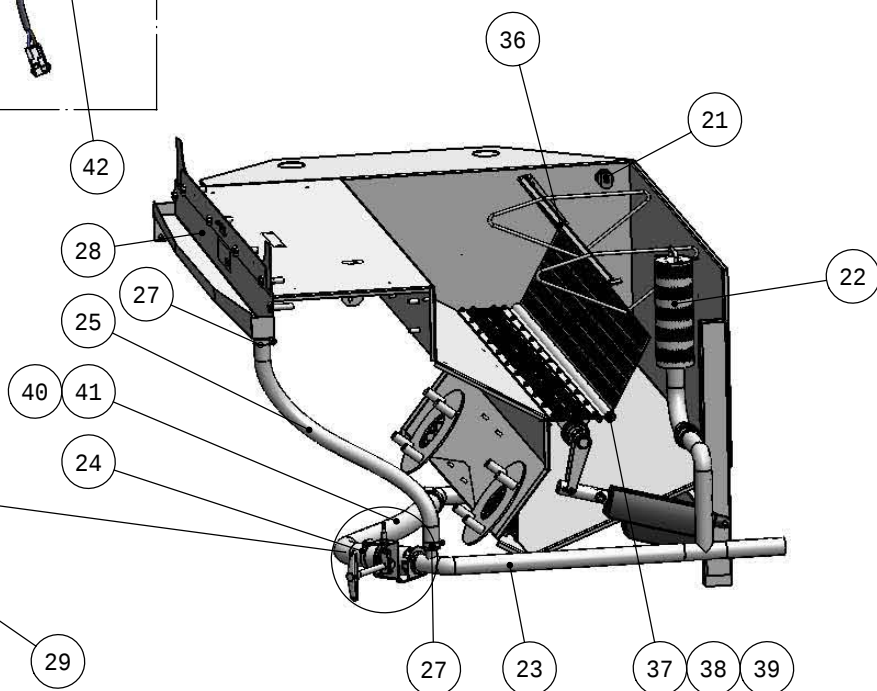
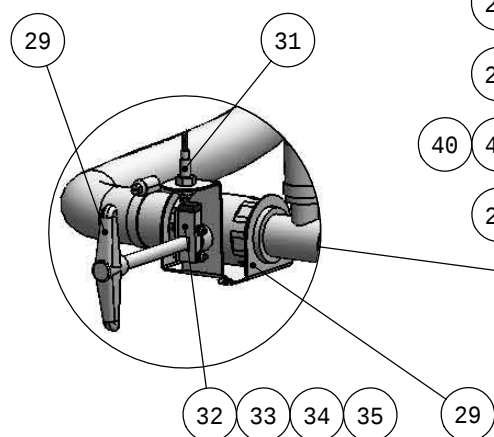
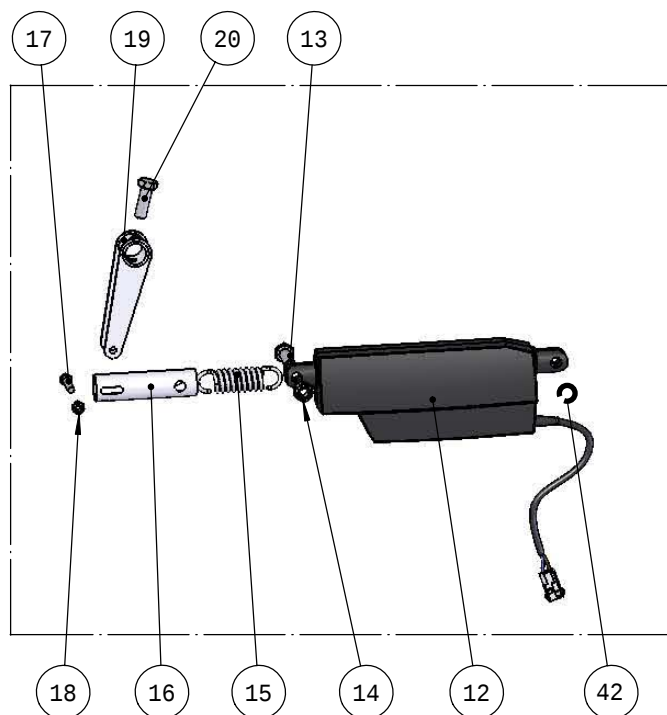
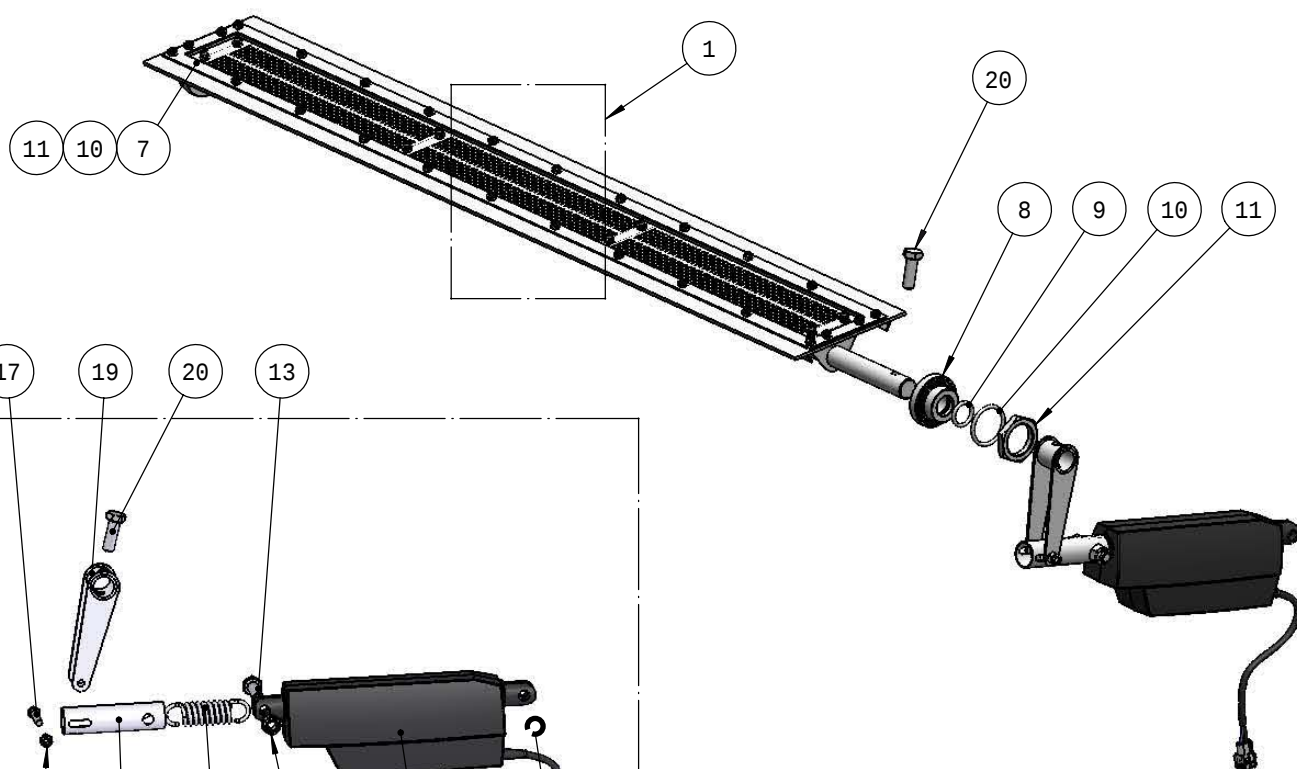
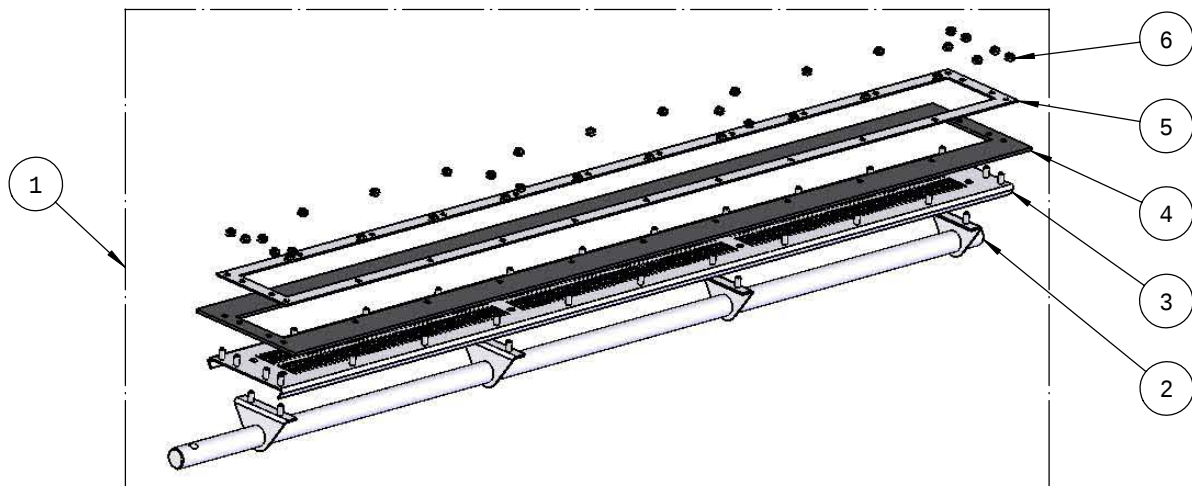
4 Rinse system, electrically heated/ Steam reduction unit

Position	Part number	Description	Quantity
1	see section 10	Heater, wash/rinse tank	1
2	10068	Plug, G1/8"	3
3	60289	Bushing G1/2"	1
4	60406	Nut G 1/2", brass	1(2)
5	13814	Bracket, solenoid valve	1
6	6005109	Filter G 1/2 "	1
7	18745	Back flow protection Valve G1/2"	2
8	19190	Nipple KR1/2" external thread.	1
9	6005145	Solenoid valve	1
10.....	18590	Constant flow valve G1/2" 23 l/min.....	1
11.....	60407	Nipple G1/2"- Ø15.....	4
12.....	18191	Solenoid valve, plastic	1(2)
13.....	18556	Constant flow valve 16 l/min (brown)	1
14.....	13755	Adapter G1/2" – G3/4"	1
15.....	6005046	Sleeve G1/2" int.....	1(2)
16.....	60528	Nipple G1/2" int – 1/2" ext.....	1
17.....	6001167	Gasket ½"	2
18.....	20877	Water supply connector (with gasket)	
19.....	20920	Flowregulator 20 L/min (red).....	1
20.....	20971	Nipple ½"	1
21.....	18273	Hose Ø13 L=1980.....	2
22.....	18193	Rinse tank (electric heater not included)	1
Contents:			
23	19394	Rinse tank electrical heated	1
24	18097	Bolt M14, temperature sensor	1
25	13846	Angle G1/8".....	1
26	11549	Sleeve G1/8"	1
27	11548	Hose connector G1/8"- Ø 6	1
28	5682	Tredo seal.....	1
29	19880	Drain plug	1
30	18205	O-ring 7.3x2.4	1
31	18262	Insulation.....	1
32	19879	Levelsensor	2
33.....	18272	Hose Ø28 L=230	1
34.....	18055	Nipple G1" - Ø28.....	1
33.....	see section 8	Rinse pump	1
36.....	18189	Bracket, rinse pump	1
37.....	60503	Nipple G1/2" int – G1" ext	1
38.....	18276	Hose Ø13 L=390.....	4
39.....	60531	Angle G1/2".....	1
40.....	18056	Y-coupling 1/2"	2
41.....	6005171	Hose clamp 12 – 22.....	14
42.....	5616	Angle G1/2".....	2
43.....	13401	Gasket.....	4
44.....	11508	Rinse pipe	2
45.....	20019	Nozzle kit, rinse pipe	1
46.....	18864	Hose 6/4 L=3100.....	1
47.....	18394	Nipple G1/4" - Ø15.....	2
48.....	18212	Angle 90° G1/4"	2
49.....	18943	Protective cap.....	1
50.....	18325	Temperature sensor with O-ring.....	1
51.....	14921	Condensing pipe	2
52.....	18349	Nozzle, condensing pipe G1/4"	2
53.....	18274	Hose Ø13 L=2530.....	1
54.....	18714	Hose Ø32 L=1600.....	1
55.....	6005092	Hose clamp 30 – 45.....	3
56.....	11549	Sleeve G1/8"	1
57.....	11548	Hose connector G1/8"- Ø 6	1

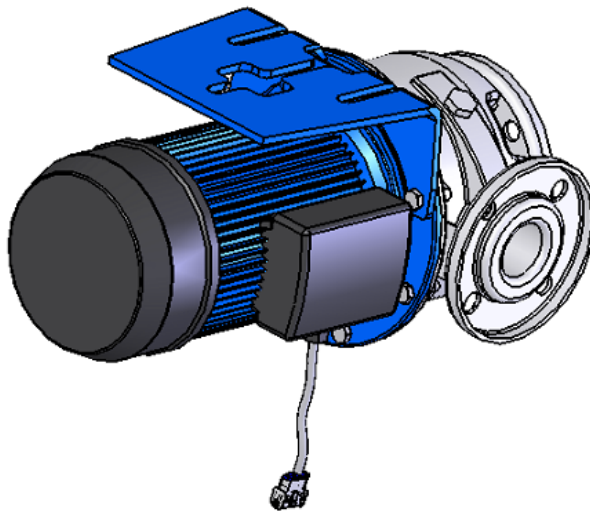


5 Granule valve / Wash tank / Drain

Position	Part no.	Description	Quantity
1	18046	Granule damper	1
Contents:			
2	18004	Damper shaft	1
3	14999	Damper	1
4	18070	Seal	1
5	18145	Mounting plate, seal	1
6	5116	Lock nut M5	34
.....	20001	Bearing damper shaft kit	1
Contents:			
7	18005	Bearing, damper shaft, left	1
8	18006	Bearing, damper shaft, right	1
9	60477	O-ring, shaft 19,2 x 3	1
10	10930	O-ring, bearing 39,2 x 3	2
11	18018	Nut G1", brass	2
12	18812	Linear actuator	1
13	12121	Bolt M6S M10x40	1
14	12213	Lock nut M10	1
15	14979	Spring, DF-AR 3,2x22x60,2	1
16	14980	Guide	1
17	12108	Bolt M6S M6x35	1
18	5143	Lock nut M6	1
19	18085	Arm	1
20	12119	Bolt M6S M10x30	1
21	20596	Level sensor	1
22	18208	Overflow filter	1
23	19699	Drain pipe	1
24	18595	Nipple 11/4"	1
25	10060-01	Hose (600 mm)	1
27	10059	Hose clamp Ø20-32	2
28	18302	Drip tray	1
29	19671	Drain valve with handle	1
30	18241	Bracket, drain valve	1
31	18332	Sensor kit	1
Contents:			
.....		Magnetic sensor	1
.....	18542	Magnet kit	1
32	14779	Bracket	1
33	14780	Lock plate	1
34	18218	Bolt, M6S M4x25	2
35	5018	Lock nut M4	2
36	19084	Strainer	1
37	18387	Axle	1
38	19415	Tredo gasket M8	2
39	12110	Bolt, M6S M8x16 A2	2
40	19768	Drain hose, front Ø32	1
41	6005092	Hose clamp Ø32-45	2
42	18419	Locking washer	1



6 Wash pump – right



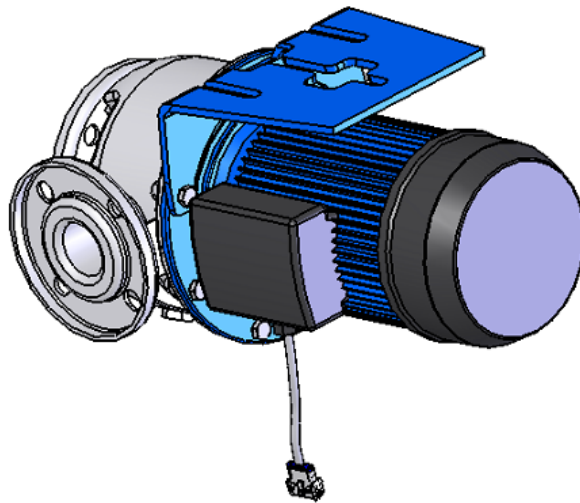
230V/400V/415V/50Hz	14956
Pump housing seal	18499
Shaft seal	18498
Impeller	18496
Cable	18148

575V/60Hz/CSA	19951
Pump housing seal	18499
Shaft seal	18498
Impeller	18497

230/60Hz	18882
Pump housing seal	18499
Shaft seal	18498
Impeller	18497
Cable	18148

440V/60Hz	18406
Pump housing seal	18499
Shaft seal	18498
Impeller	18497
Cable	18148

7 Wash pump – left



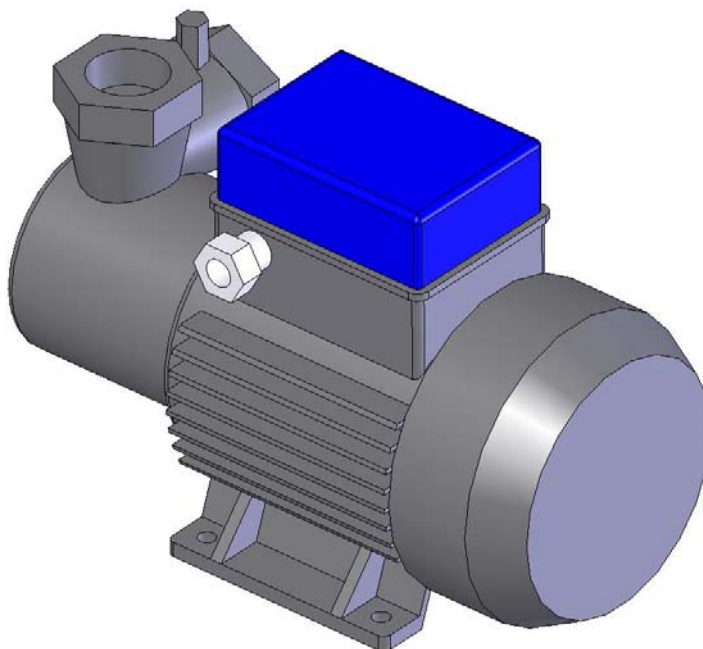
230V/400V/415V/50Hz	18147
Pump housing seal	18499
Shaft seal	18498
Impeller	18496
Cable	18148

575V/60Hz/CSA	19952
Pump housing seal	18499
Shaft seal	18498
Impeller	18497

230/60Hz	18883
Pump housing seal	18499
Shaft seal	18498
Impeller	18497
Cable	18148

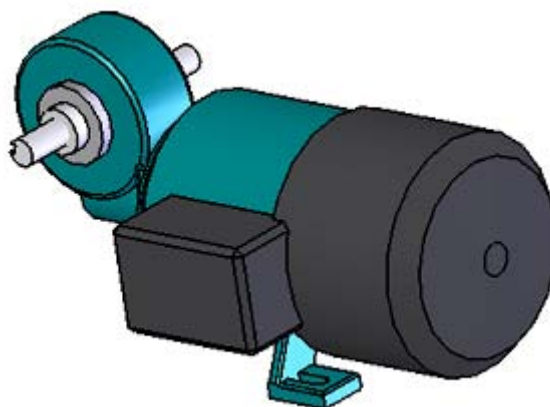
440V/60Hz	18407
Pump housing seal	18499
Shaft seal	18498
Impeller	18497
Cable	18148

8 Rinse pump



Performance	Pump
230V/400V/415V/50Hz	19481
200V/440V/60Hz	19484
230V/60Hz	19482
575V/60Hz/CSA	19483

9 Spray pipe motor



400V/415V/230V/50Hz ; 440V/200V/60Hz	13100
Cable	18692

575V/208V/60Hz/CSA	13687
Cable	18928

10 Heaters



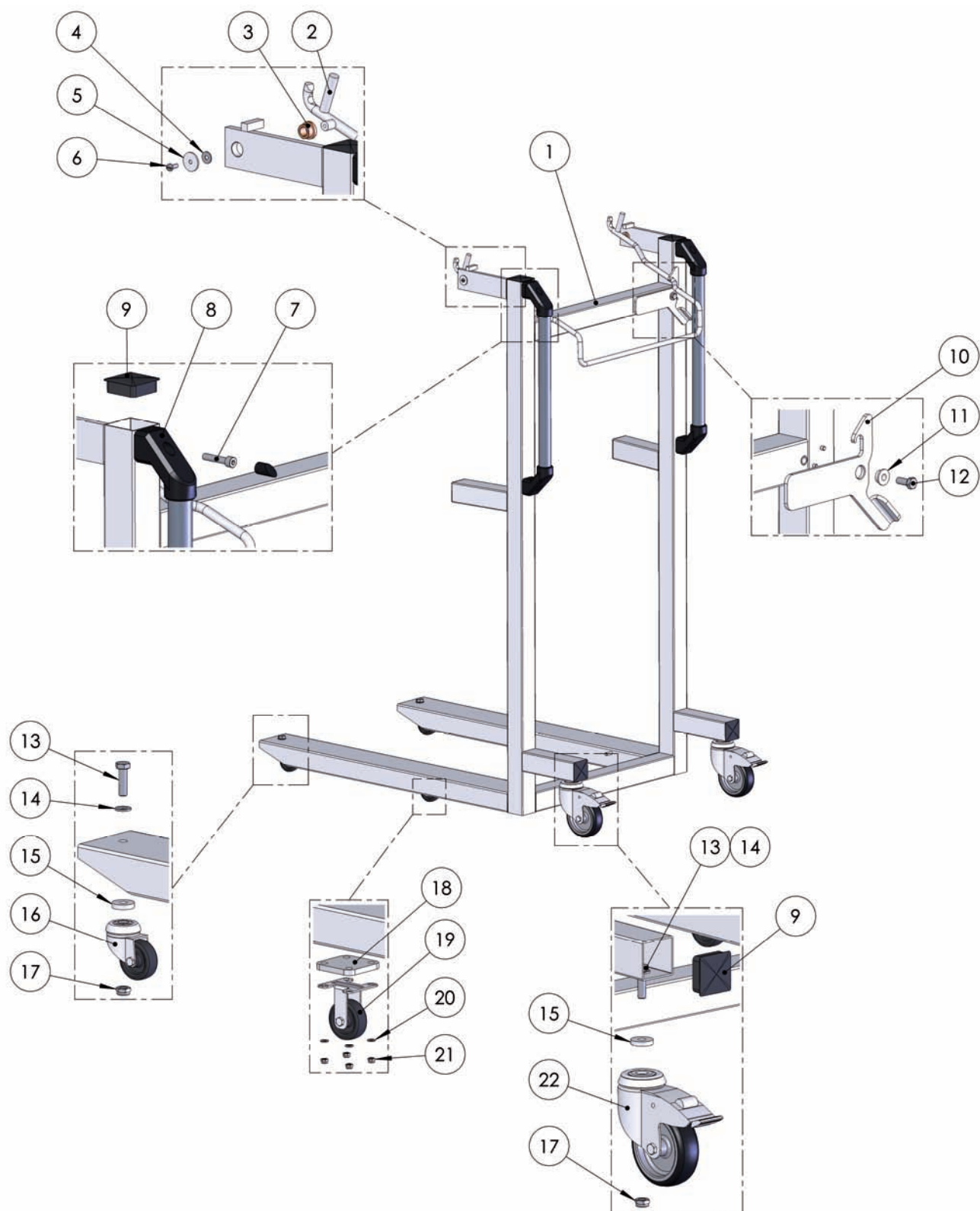
Heater complete		Heater	O-ring	Overheating protector
14336	400V/16kW	13947	6005136	14425
14337	230V/16kW	13948	6005136	14425
14338	440V/16kW	13949	6005136	14425
14339	575V/16kW	13950	6005136	14425
14340	400V/24kW	13951	6005136	14425
19161	208V/13kW	14653	6005136	14425
19160	200V/13kW	14654	6005136	14425

11 Cassette trolley

Position	Part no.	Description	Quantity
1	19138	Cassette trolley	1
Contents:			
2	19154	Lifting handle	1
3	19152	Flange bearing LMF D18 d12 L12	2
4	5200	Washer, 5,3x15x1,2 A2	2
5	13833	Washer, 5,3x24x2 A2	2
6	12187	Bolt, LKCS M5x12 A2	2
7	19159	Bolt, MC6S M8x40 A2	4
8	19155	Handle WN428 30-500	2
9	10035	End cap	6
10	19151	Lock, lifting handle	1
11	13709	Spacing Sleeve	1
12	12111	Bolt, M6S M8x20 A2	1
13	12119	Bolt, M6S M10x30 A2	4
14	12306	Washer 10,5x22x2 A2	4
15	12338	Washer, 10,5x28x6 A2	4
16	20894	Wheel - front, stainless**	2
17	12213	Lock Nut, M10 A2	4
18	19156	Distance plate*	2
19	19158	Wheel – middle*	2
20	12302	Washer, 5,3x10x1 A2*	8
21	5116	Lock Nut, M5 A2*	8
22	20893	Wheel – back, stainless**	2

*Machine number 910010-910105, six wheels. Not used on machine 910106 and higher.

** If 20893 and 20894 is replaced on machines 910010-910105 also replace 12338.



12 Components in electrical cabinet

Position	Description	200V 50Hz	230V 50/60Hz	230V 50Hz Steam	400/415/440V 50/60Hz	400V 50Hz Steam	400V 50Hz Cold Water	575V 60Hz CSA	575V 60Hz CSA Steam
	<u>Electrical cabinet</u>	18416	18413	18410	19686	18411	18412	18417	18418
Q1	Line breaker	18352	18352	18352	18352	18352	18352	19029	19029
QF1	Motorprotection w. pump *)	19375	19375	19375	19374	19374	19374	19374	19374
QF2	Motorprotection w. pump *)	19375	19375	19375	19374	19374	19374	19374	19374
QF3	Motorprotection r. pump *)				19371				
QF7	Motorprotection r. pump *)	19372	19372	19372		19371	19371	19371	19371
F1	Circuit breaker	18976	18976		13532		19298		
F2	Circuit breaker 6A				6007007				
F3	Circuit breaker 6A	6007007	6007007	6007007		6007007	6007007		
F1	Fuse 20A Slow							3x19791	
F2	Fuse 15A Slow							3x19399	
F3	Fuse 6.3A Fast							2x19031	2x19031
F4	Fuse 1A	18404	18404	18404	18404	18404	18404	19078	19078
F5	Fuse 2.5	18405	18405	18405	18405	18405	18405	19077	19077
F6	Fuse 6.3A Fast							3x19031	
F6	Fuse 15A Slow								3x19399
F7	Fuse 6.3A Fast								3x19031
K0	Contactor heaters protect	14625	14625				14625	10082	
K0	Relay with holder heat prot.			18983		18983			18983
K1	Contactor wash pump	19294	19294	19294	19294	19294	19294	19294	18365
K2	Contactor wash pump	19294	19294	19294	19294	19294	19294	19294	18365
K3	Contactor rinse pump				19294				
K7	Contactor rinse pump	19294	19294	19294		19294	19294	19294	18365
K13	Contactor wash tank heater	14625	14625		10082		14625	10082	
K13	Relay with holder, w.t. heater			18856		18856			18856
K14	Contactor rinse tank heater	14625	14625		10082		14625	10082	
K14	Relay with holder, r.t. heater			18856		18856			18856
T1	Transformer 230/400/415		18373	18373	18373	18373	18373		
T2	Transformer 208/440/575	18546						18546	18546

A1 Circuit board. language version:

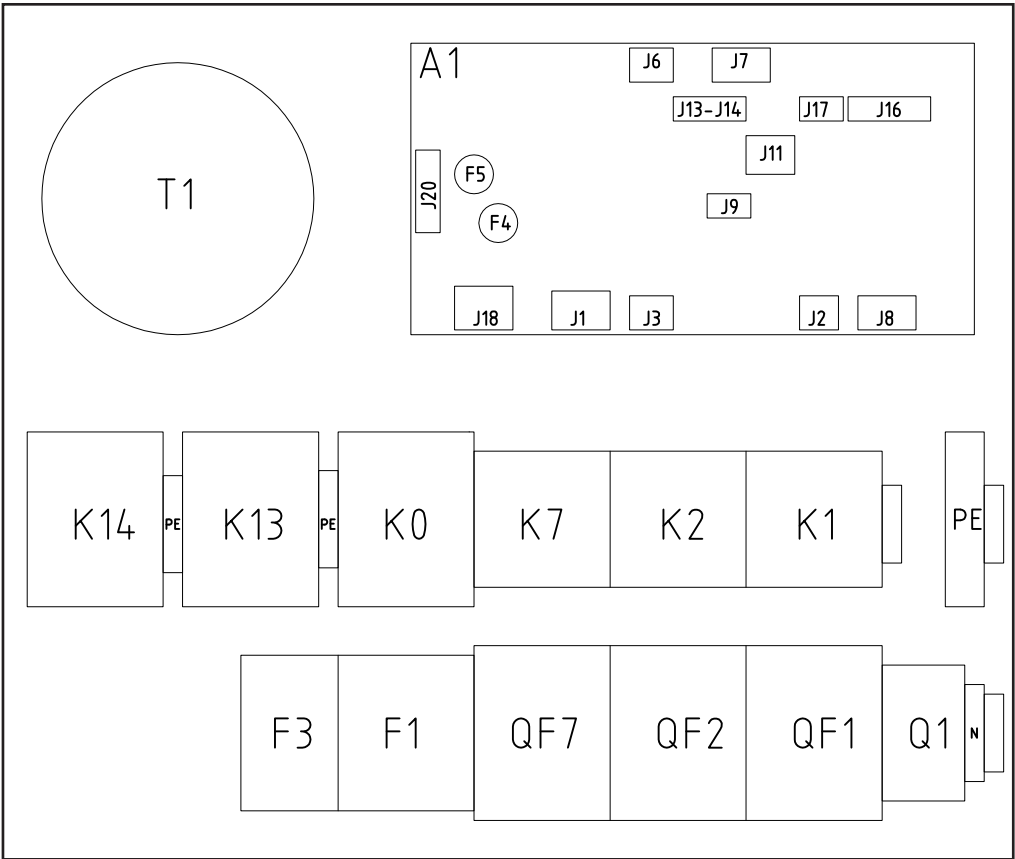
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Denmark / England
Norway / England
Finland / England
Germany / England

France / England
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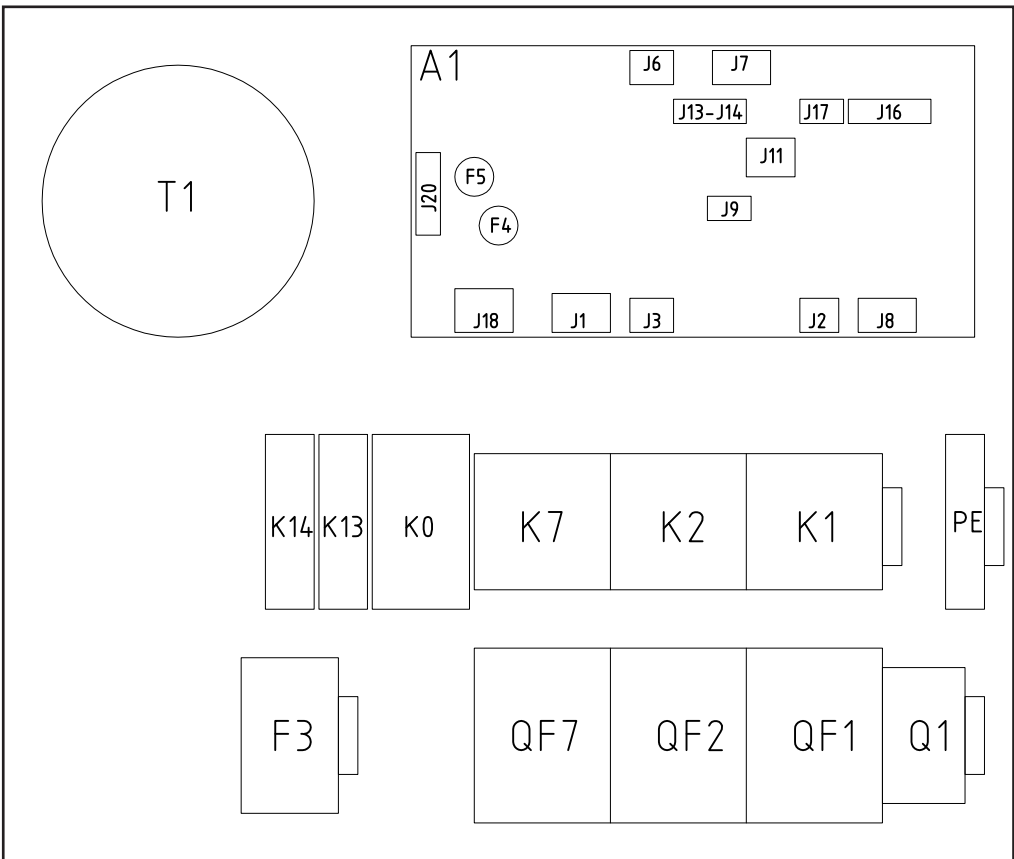
20671	20671	20671	20671	20671	20671	20671	20671
20672	20672	20672	20672	20672	20672	20672	20672
20673	20673	20673	20673	20673	20673	20673	20673
20674	20674	20674	20674	20674	20674	20674	20674
20675	20675	20675	20675	20675	20675	20675	20675
20676	20676	20676	20676	20676	20676	20676	20676
20677	20677	20677	20677	20677	20677	20677	20677
20678	20678	20678	20678	20678	20678	20678	20678
20679	20679	20679	20679	20679	20679	20679	20679
20680	20680	20680	20680	20680	20680	20680	20680
20681	20681	20681	20681	20681	20681	20681	20681

*) With auxiliary contact.

200V 50Hz / 230V 50/60Hz



400V 50Hz Steam heated / 230V 50Hz Steam heated



12 Components in electrical cabinet

Position	Description	200V 50Hz	230V 50/60Hz	230V 50Hz Steam	400/415/440V 50/60Hz	400V 50Hz Steam	400V 50Hz Cold Water	575V 60Hz CSA	575V 60Hz CSA Steam
		18416	18413	18410	19686	18411	18412	18417	18418
Q1	Line breaker	18352	18352	18352	18352	18352	18352	19029	19029
QF1	Motorprotection w. pump *)	19375	19375	19375	19374	19374	19374	19374	19374
QF2	Motorprotection w. pump *)	19375	19375	19375	19374	19374	19374	19374	19374
QF3	Motorprotection r. pump *)				19371				
QF7	Motorprotection r. pump *)	19372	19372	19372		19371	19371	19371	19371
F1	Circuit breaker	18976	18976		13532		19298		
F2	Circuit breaker 6A				6007007				
F3	Circuit breaker 6A	6007007	6007007	6007007		6007007	6007007		
F1	Fuse 20A Slow							3x19791	
F2	Fuse 15A Slow							3x19399	
F3	Fuse 6.3A Fast							2x19031	2x19031
F4	Fuse 1A	18404	18404	18404	18404	18404	18404	19078	19078
F5	Fuse 2.5	18405	18405	18405	18405	18405	18405	19077	19077
F6	Fuse 6.3A Fast							3x19031	
F6	Fuse 15A Slow								3x19399
F7	Fuse 6.3A Fast								3x19031
K0	Contactor heaters protect	14625	14625				14625	10082	
K0	Relay with holder heat prot.			18983		18983			18983
K1	Contactor wash pump	19294	19294	19294	19294	19294	19294	19294	18365
K2	Contactor wash pump	19294	19294	19294	19294	19294	19294	19294	18365
K3	Contactor rinse pump				19294				
K7	Contactor rinse pump	19294	19294	19294		19294	19294	19294	18365
K13	Contactor wash tank heater	14625	14625		10082		14625	10082	
K13	Relay with holder, w.t. heater			18856		18856			18856
K14	Contactor rinse tank heater	14625	14625		10082		14625	10082	
K14	Relay with holder, r.t. heater			18856		18856			18856
T1	Transformer 230/400/415		18373	18373	18373	18373	18373		
T2	Transformer 208/440/575	18546						18546	18546

A1 Circuit board. language version:

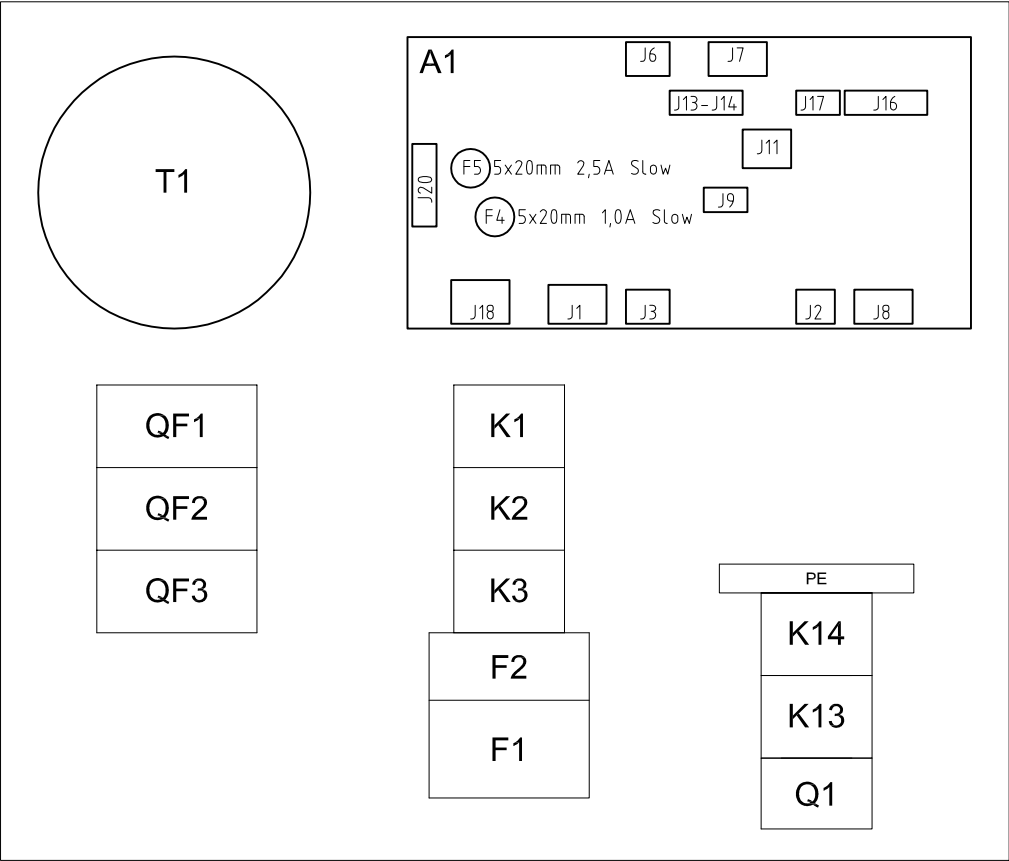
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Finland / England
Germany / England

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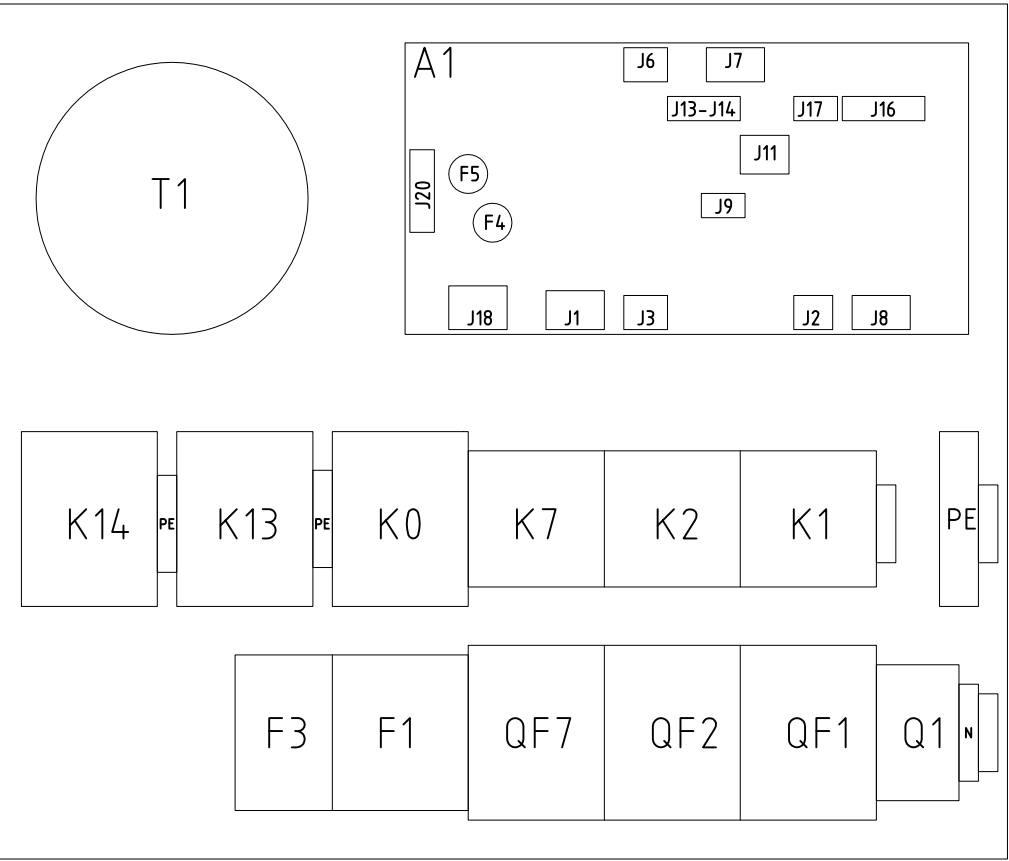
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20674	20674	20674	20674	20674	20674	20674	20674
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20677	20677	20677	20677	20677	20677	20677	20677
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20680	20680	20680	20680	20680	20680	20680	20680
20681	20681	20681	20681	20681	20681	20681	20681

*) With auxiliary contact.

400V/ 415V/ 440V 50/60Hz



400V 50 Hz Coldwater



12 Components in electrical cabinet

Position	Description							
		200V 50Hz	230V 50/60Hz	230V 50Hz Steam	400/415/440V 50/60Hz	400V 50Hz Steam	400V 50Hz Cold Water	575V 60Hz CSA
	Electrical cabinet	18416	18413	18410	19686	18411	18412	18417
Q1	Line breaker	18352	18352	18352	18352	18352	18352	19029
QF1	Motorprotection w. pump *)	19375	19375	19375	19374	19374	19374	19374
QF2	Motorprotection w. pump *)	19375	19375	19375	19374	19374	19374	19374
QF3	Motorprotection r. pump *)				19371			
QF7	Motorprotection r. pump *)	19372	19372	19372		19371	19371	19371
F1	Circuit breaker	18976	18976		13532		19298	
F2	Circuit breaker 6A				6007007			
F3	Circuit breaker 6A	6007007	6007007	6007007		6007007	6007007	
F1	Fuse 20A Slow						3x19791	
F2	Fuse 15A Slow						3x19399	
F3	Fuse 6.3A Fast						2x19031	2x19031
F4	Fuse 1A	18404	18404	18404	18404	18404	19078	19078
F5	Fuse 2.5	18405	18405	18405	18405	18405	19077	19077
F6	Fuse 6.3A Fast						3x19031	
F6	Fuse 15A Slow							3x19399
F7	Fuse 6.3A Fast							3x19031
K0	Contactor heaters protect	14625	14625				14625	10082
K0	Relay with holder heat prot.			18983		18983		18983
K1	Contactor wash pump	19294	19294	19294	19294	19294	19294	18365
K2	Contactor wash pump	19294	19294	19294	19294	19294	19294	18365
K3	Contactor rinse pump				19294			
K7	Contactor rinse pump	19294	19294	19294		19294	19294	18365
K13	Contactor wash tank heater	14625	14625		10082		14625	10082
K13	Relay with holder, w.t. heater			18856		18856		18856
K14	Contactor rinse tank heater	14625	14625		10082		14625	10082
K14	Relay with holder, r.t. heater			18856		18856		18856
T1	Transformer 230/400/415		18373	18373	18373	18373		
T2	Transformer 208/440/575	18546						18546

A1 Circuit board. language version:

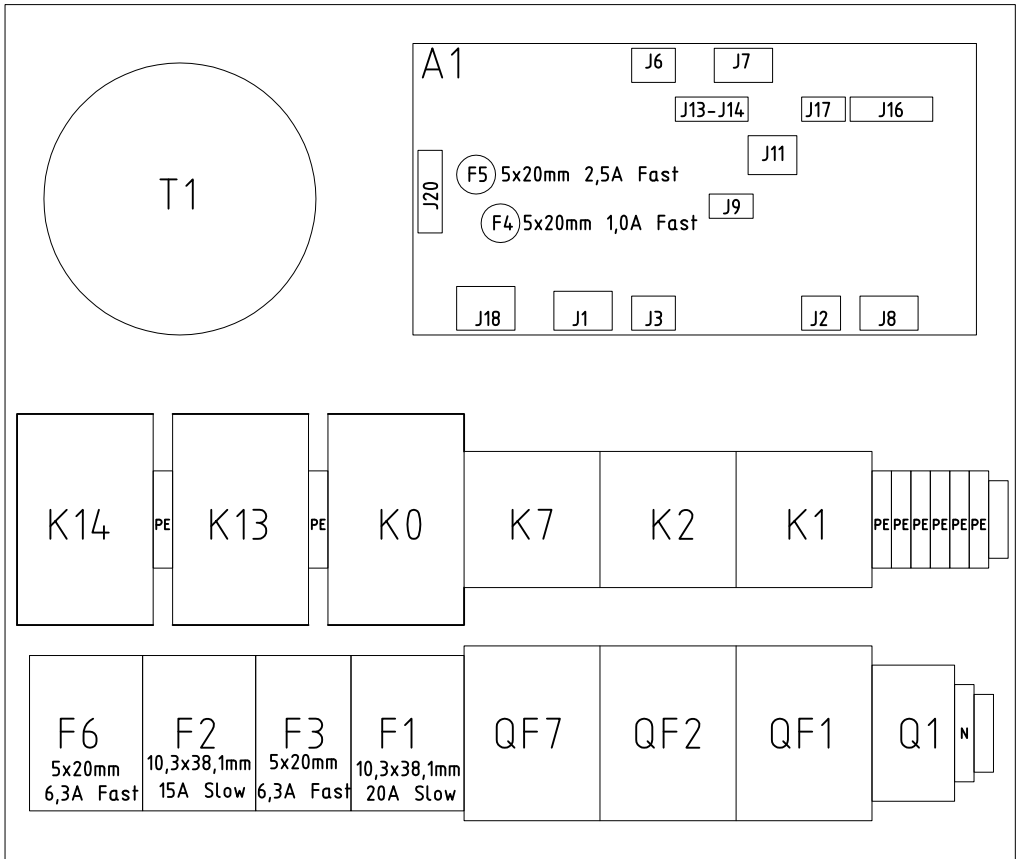
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Lithuania / England
Czech / England

20671	20671	20671	20671	20671	20671	20671	20671
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20676	20676	20676	20676	20676	20676	20676	20676
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20678	20678	20678	20678	20678	20678	20678	20678
20679	20679	20679	20679	20679	20679	20679	20679
20680	20680	20680	20680	20680	20680	20680	20680
20681	20681	20681	20681	20681	20681	20681	20681

*) With auxiliary contact.

575V 60Hz CSA



575V 60Hz CSA Steam heated

