Service part catalogue

SelfCookingCenter® ab 09/2016
Combi Master 101 - 10 x 1/1 GastronormG

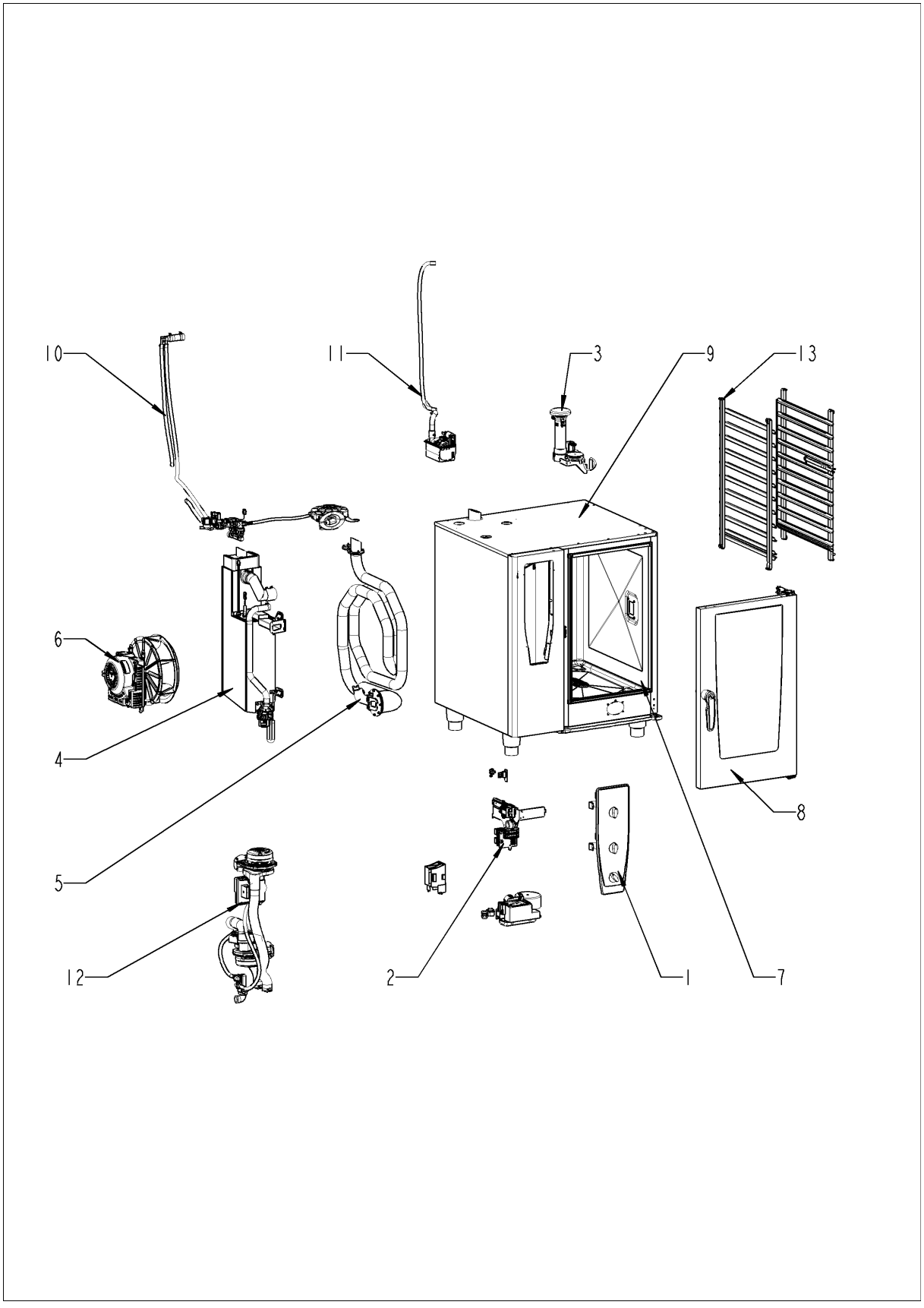
G11MI1705



7/10/2017
1NAC120 V 60Hz UL

Kat-RTS_140922
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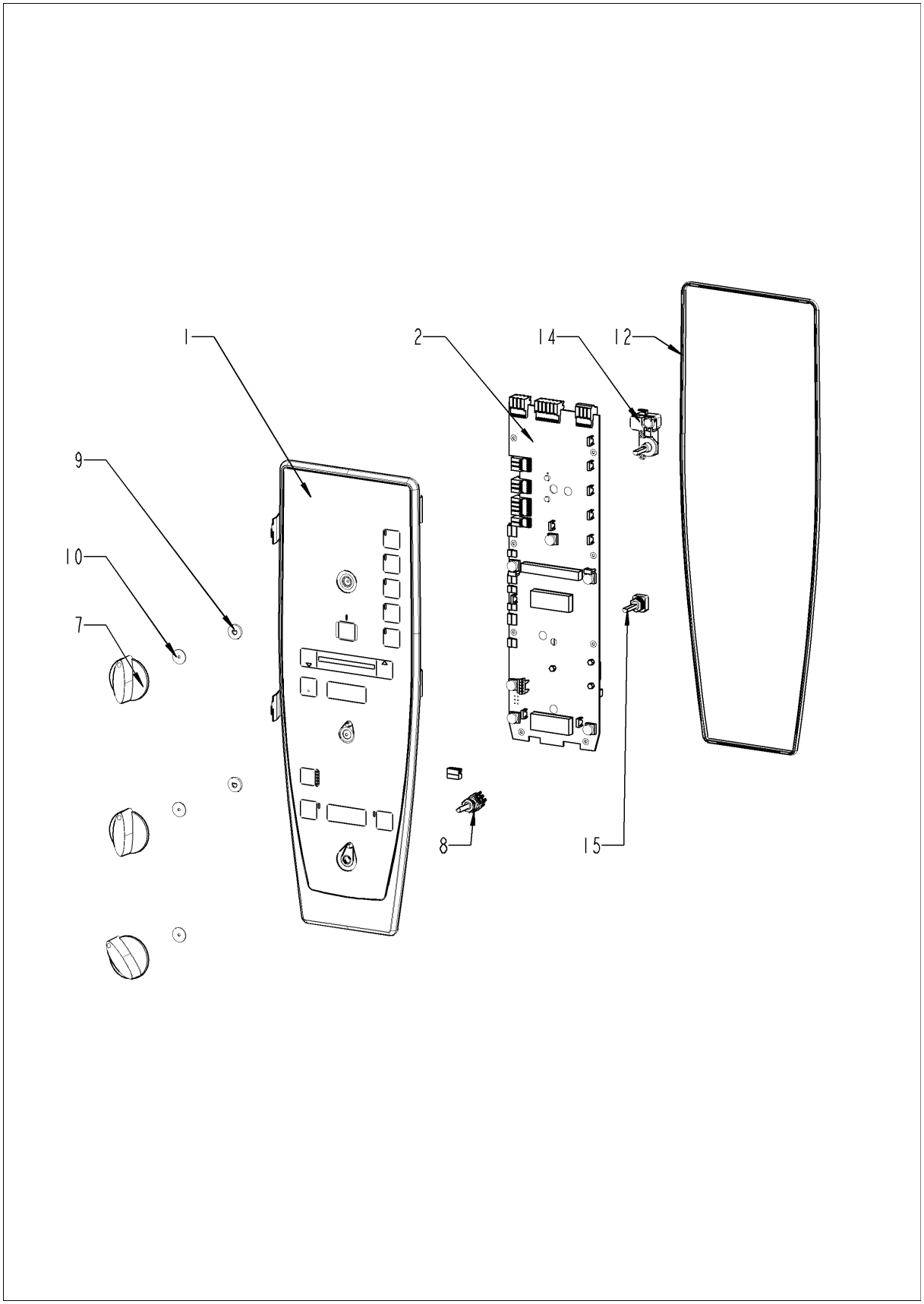
Overview



Overview

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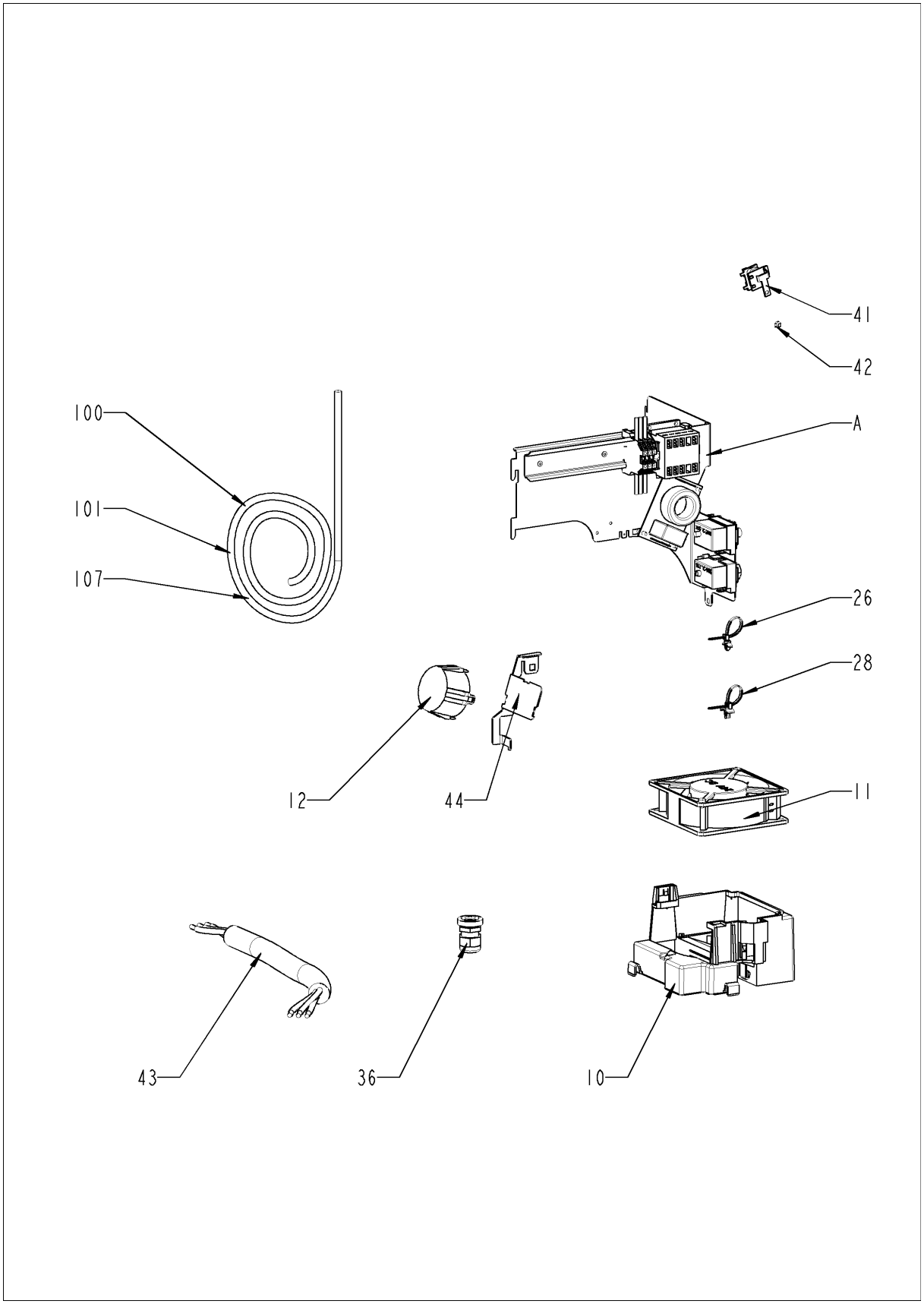
Control panel



Control panel

Pos.	Part no.	Description	Qty.
1	87.01.302	Control panel insert with overlay *RAT*	1
2	42.00.272	Control pcb	1
7	16.03.205	Dial	3
8	40.00.464	Potentiometer CT	1
9	5110.1027	Distance plate for front panel	2
10	5110.1029	Gasket mode switch	3
12	16.02.865	Sealing f. panel insert	1
13	42.00.007	External memory	1
14	42.00.094	Mode switch mechanism	1
15	42.00.044	Pot. Hot Air	1

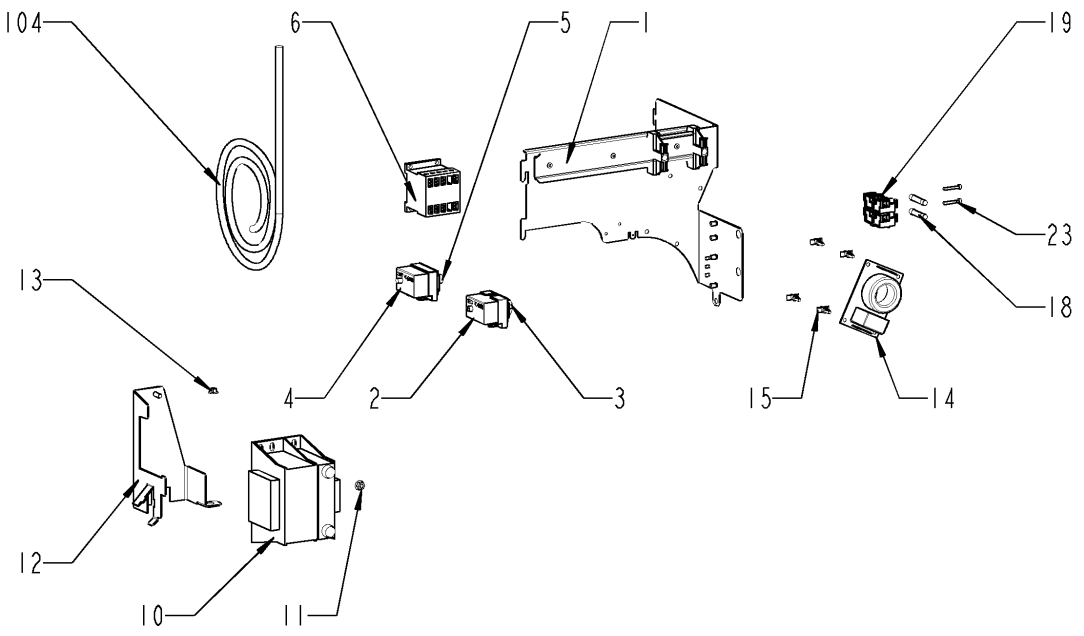
Electrical installation



Electrical installation

Pos.	Part no.	Description	Qty.
10	40.03.660	Fan housing	1
11	40.03.428	Cooling fan with NTC	1
12	40.03.257	Converter 230VAC 24VDC	1
26	40.03.732	Tie rap 160 mm	1
28	40.03.769	Tie rap 173 mm	2
29	40.00.279	Power transformer	1
30	1008.0769	Ornamental screw M8x30	1
31	10.01.348	Distance plate 15mm	1
32	40.01.600	Insulating screw joint 2pol.	1
36	40.00.320	Cable connection M20x1.5	1
41	40.04.048	Buzzer	1
42	1104.0121	Hex nut M4 self locking	1
43	40.01.597	Power supply cable 3xAWG14	1
44	40.03.391	Mounting device converter	1
100	40.03.996	Bus cable 1.15m	1
101	40.03.996	Bus cable 1.15m	1
104	40.00.237	Ground wire	2
107	40.04.362	Wiring interior light	1
A		Electrical installation	1

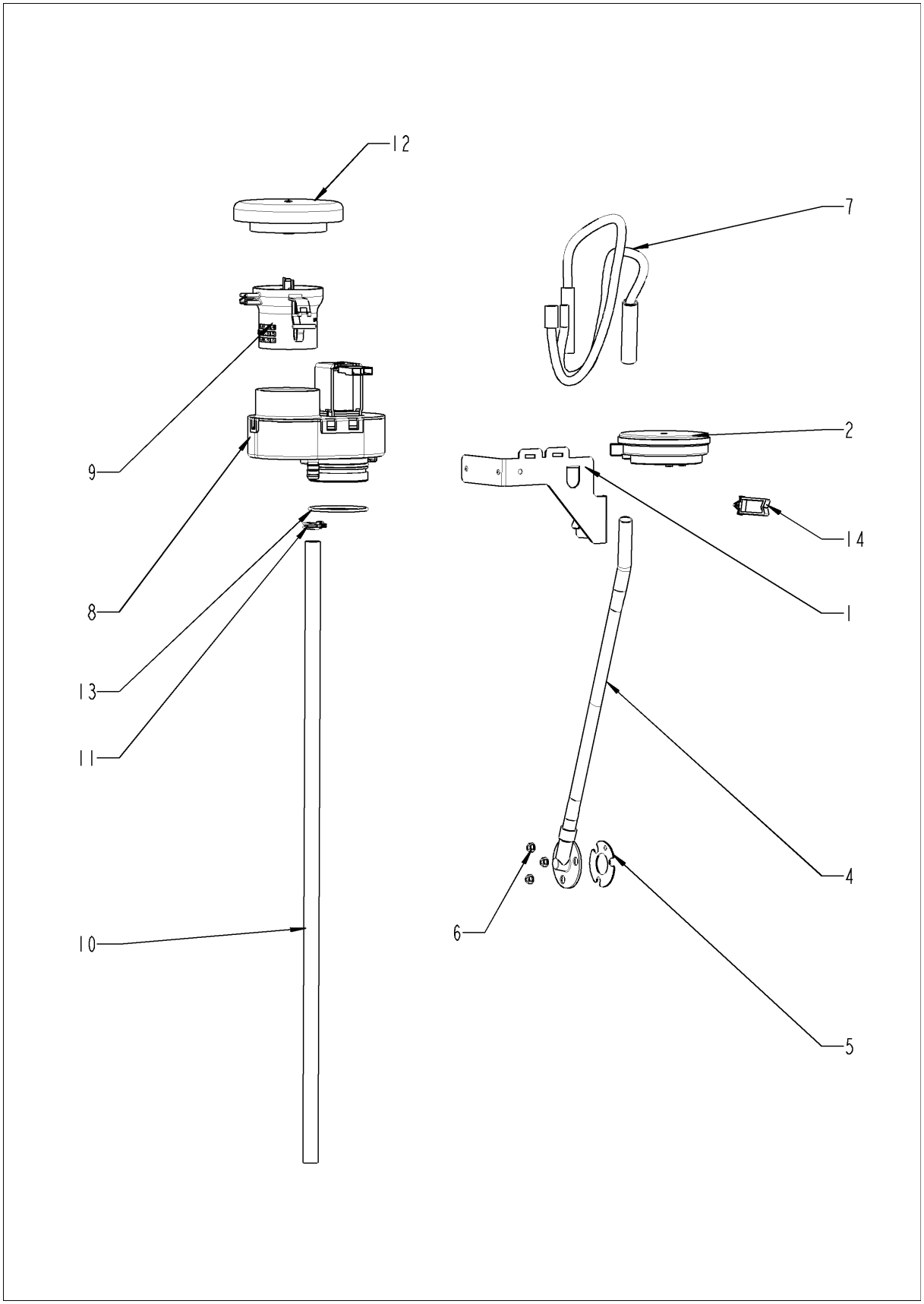
Electrical installation



Electrical installation

Pos.	Part no.	Description	Qty.
1	40.03.322	Contactor assembly	1
2	40.02.515	Dry up protector 315°F/157°C	1
3	3014.0327	Hex nut M10x1,0	1
4	40.01.482	Safety temperature limiter 365°C	1
5	3014.0327	Hex nut M10x1,0	1
6	40.03.761	Contactor B&J K1-09F00 230R	1
10	40.03.348	Control transformer T1	1
11	10.01.065	Hex nut M5	1
12	40.03.404	Mounting support transformer	1
13	10.01.065	Hex nut M5	1
14	40.01.483	Electronic noise filter	1
15	40.01.579	Fixing clip f. pcb	4
18	4001.0224	Fuse 6.35x32mm	2
18	40.01.873	Fuse SC-15A 10x38	2
19	40.01.487	Fuse holder 2pol	1
19	40.02.512	Fuse holder 2x6.3A	1
23	10.00.365	Pan head screw Torx M3x20	2
104	40.04.994	Cable control harness	1
105	40.04.181	Cable harness isolating transformer	1

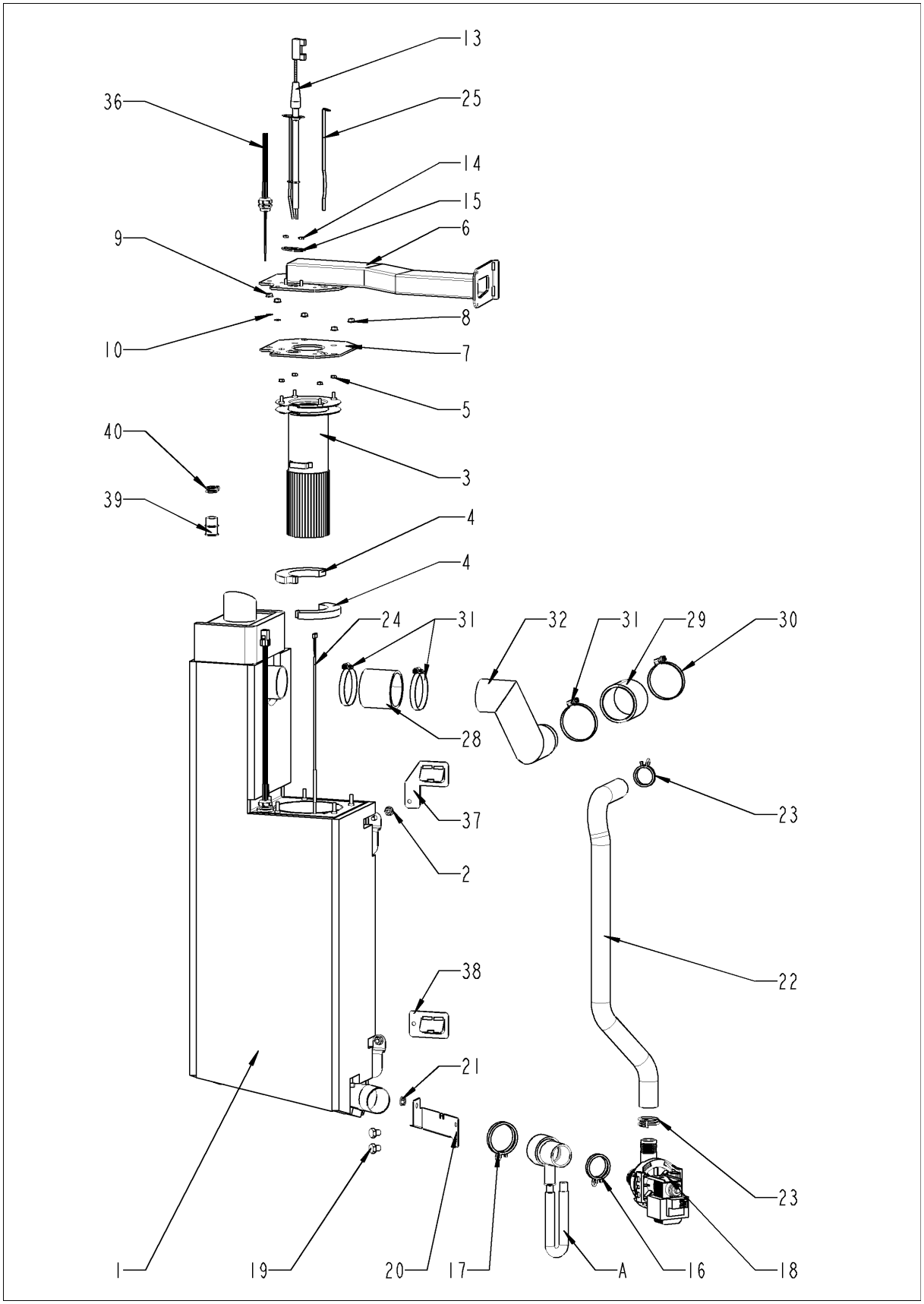
ClimaPlus



ClimaPlus

Pos.	Part no.	Description	Qty.
1	22.00.882	Mounting device f. pressure sensor	1
2	3017.1011	Pressure sensor for humidity control Huba 401	1
4	22.00.850	Outer humidity meas. Piece	1
5	22.00.881	Gasket f. hum. meas. Pipe	1
6	1104.0122	Hex combination nut M4 galv	3
7	22.00.525	Hose set f. humidity control	1
8	22.00.725	Humidity control cpl.	1
9	22.00.915	Air inlet pipe	1
10	22.00.959	Drain hose for humidity control	1
11	2066.0527	Hose clamp ø14mm	2
12	22.00.767	Vent cover	1
13	22.00.837	O-ring for humidity control	2
14	10.00.111	Cable clip long	2

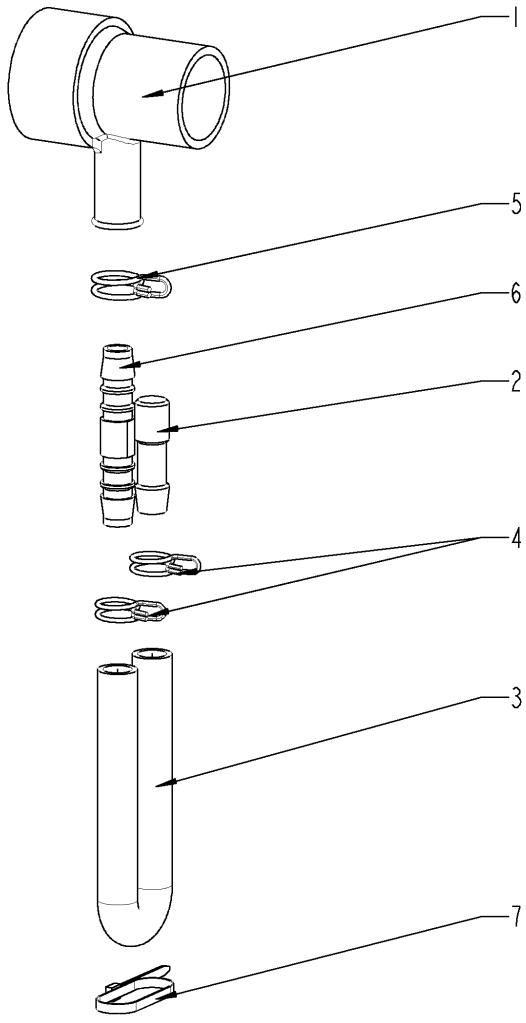
Steam generator



Steam generator

Pos.	Part no.	Description	Qty.
1	44.00.942	Steam generator insolated	1
2	10.00.709	Hex nut M6 w. locking	1
3	72.00.076	Burner steam gen.	1
4	72.00.077	Insulation f. burner steam gen.	2
5	1104.0122	Hex combination nut M4 galv	4
6	70.00.477	Burner pipe	1
7	72.00.067	Gasket f. burner carrier	1
8	1105.0121	Hex combination nut M5 galv	3
9	1105.0120	Hex nut M5	1
10	1205.0120	Tooth lock washer A5,3	1
11	4002.0110	Cable connector, junction	1
12	10.01.065	Hex nut M5	1
13	44.01.237	Ignition electrode steam generator	1
14	1104.0121	Hex nut M4 self locking	2
15	44.00.250	Gasket f. ignition electrode	1
16	2066.0519	Hose clamp Ø35,6mm	1
17	2066.0526	Hose clamp ø46mm	1
18	44.00.207	Emptying pump	1
19	1006.0762	Hex screw M6x10	2
20	44.01.280	Fixing device f. pump steam generator	1
21	10.00.709	Hex nut M6 w. locking	2
22	44.01.213	Drain hose steam generator	1
23	2066.0518	Hose clamp 30mm	2
24	40.04.109	Thermocouple steam generator *B5*	1
25	44.00.517	Fixing plate steam generator thermostat	1
28	2112.1006	Steam hose Ø50x50mm	1
29	2112.1006	Steam hose Ø50x50mm	1
30	2066.0504	Hose clamp 40-60mm	1
31	2066.0504	Hose clamp 40-60mm	3
32	44.01.075	Steam pipe	1
36	44.01.420	Filling level electrode 135mm	1
37	44.01.168	Fixing angle steam generator	1
38	44.01.181	Fixing angle steam generator	1
39	44.01.031	Closing cap for steam generator	1
40	10.00.982	Hose clamp D=18.2	1
A	8354.1320	Pump connection spout cpl.	1

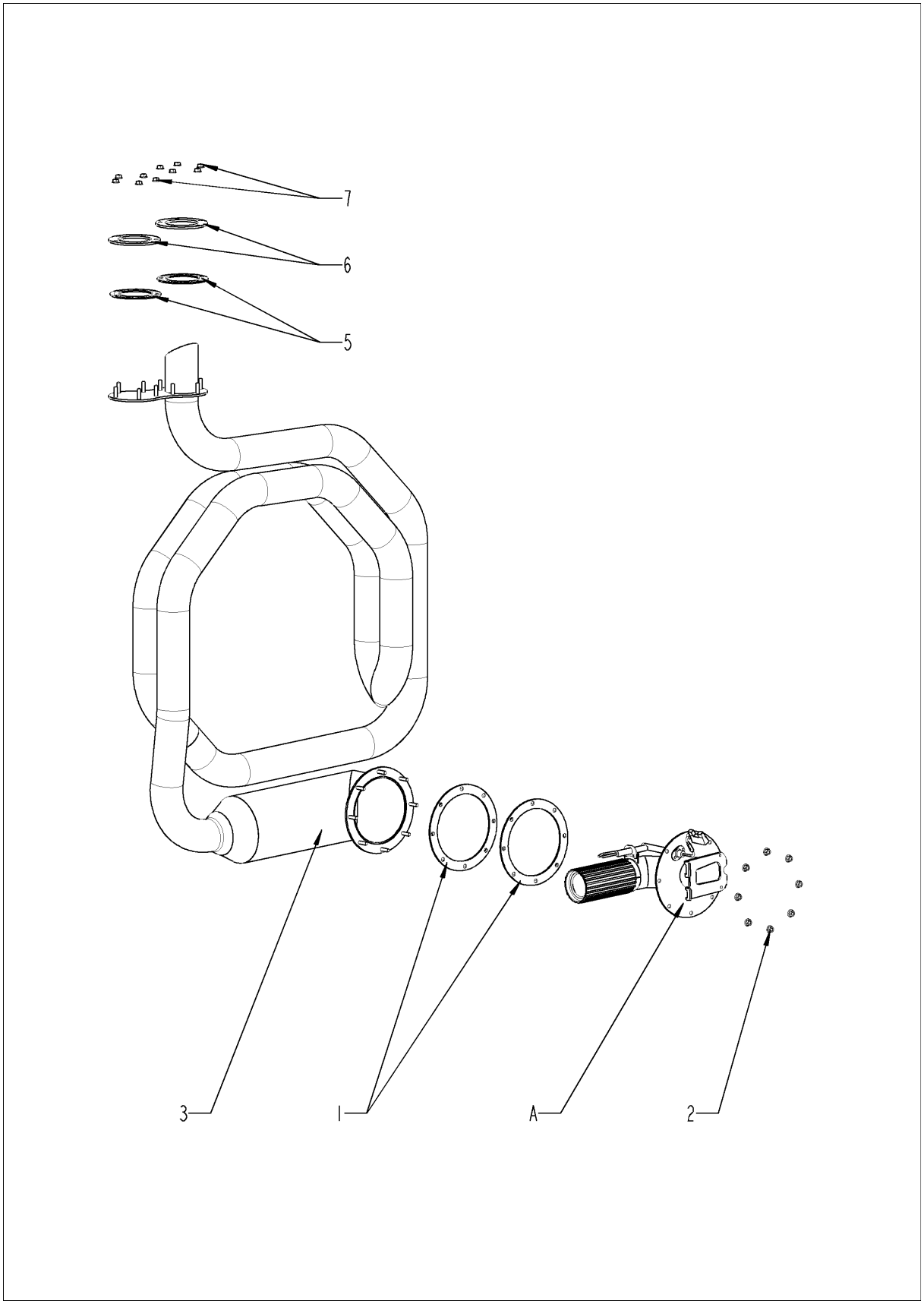
Pump connection spout



Pump connection spout

Pos.	Part no.	Description	Qty.
1	2118.1000	Pump connection spout	1
2	2120.1259	Stop plug 10mm	1
3	2110.1008	Silicon hose ø10x2mm	1
4	2066.0527	Hose clamp ø14mm	2
5	2066.0530	Hose clamp ø16.4mm	1
6	2062.0331	Junction pressure hose GS 10	1
7	4005.0101	Tie rap 145 mm	1

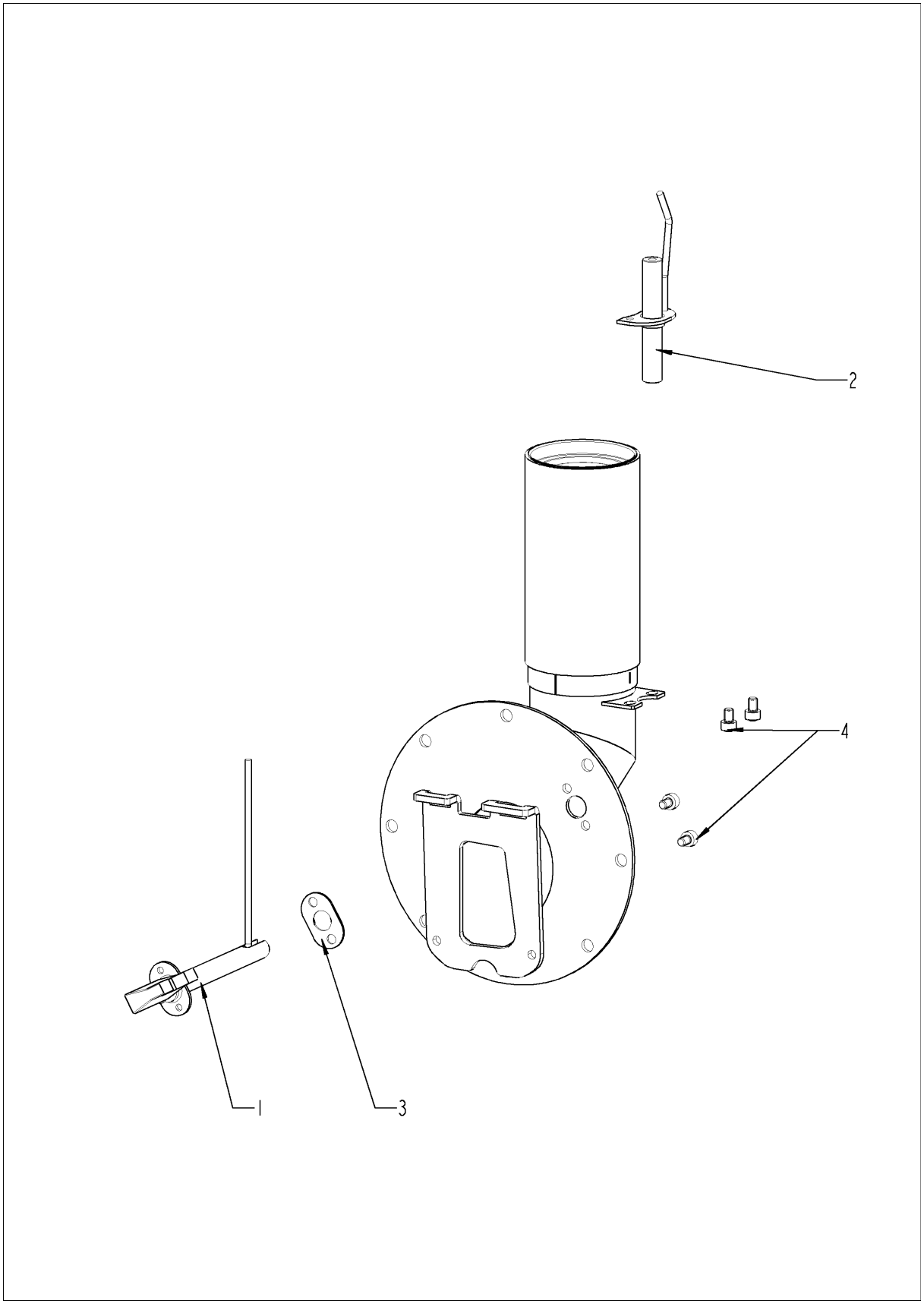
Hot air heating



Hot air heating

Pos.	Part no.	Description	Qty.
1	74.00.296	Gasket f. heat exchanger below	2
2	10.01.065	Hex nut M5	8
3	74.00.745	Hot air heat exchanger	1
5	74.00.814	Gasket hot air heat exchanger/interior cabinet	2
6	74.00.813	Mating flange heat exchanger	2
7	10.01.065	Hex nut M5	10
A	74.00.631	Burner hot air	1

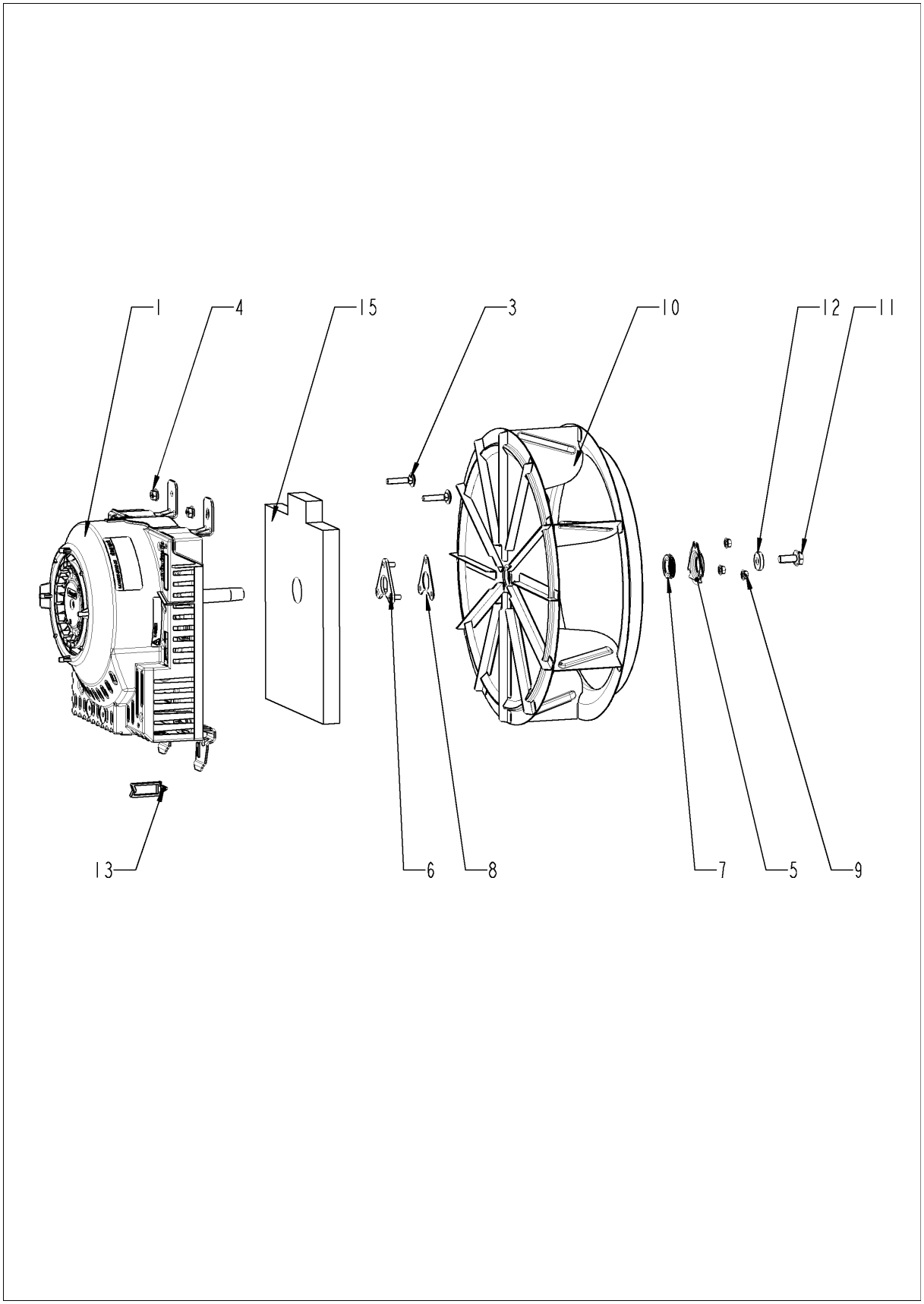
Burner hot air



Burner hot air

Pos.	Part no.	Description	Qty.
1	74.00.034	Ignitionelectrode, hot air	1
2	74.00.873	Earth electrode, hot air	1
3	74.00.290	Gasket electrode hot air	1
4	10.00.696	Allen screw M4x6 w. Precoat 85	4

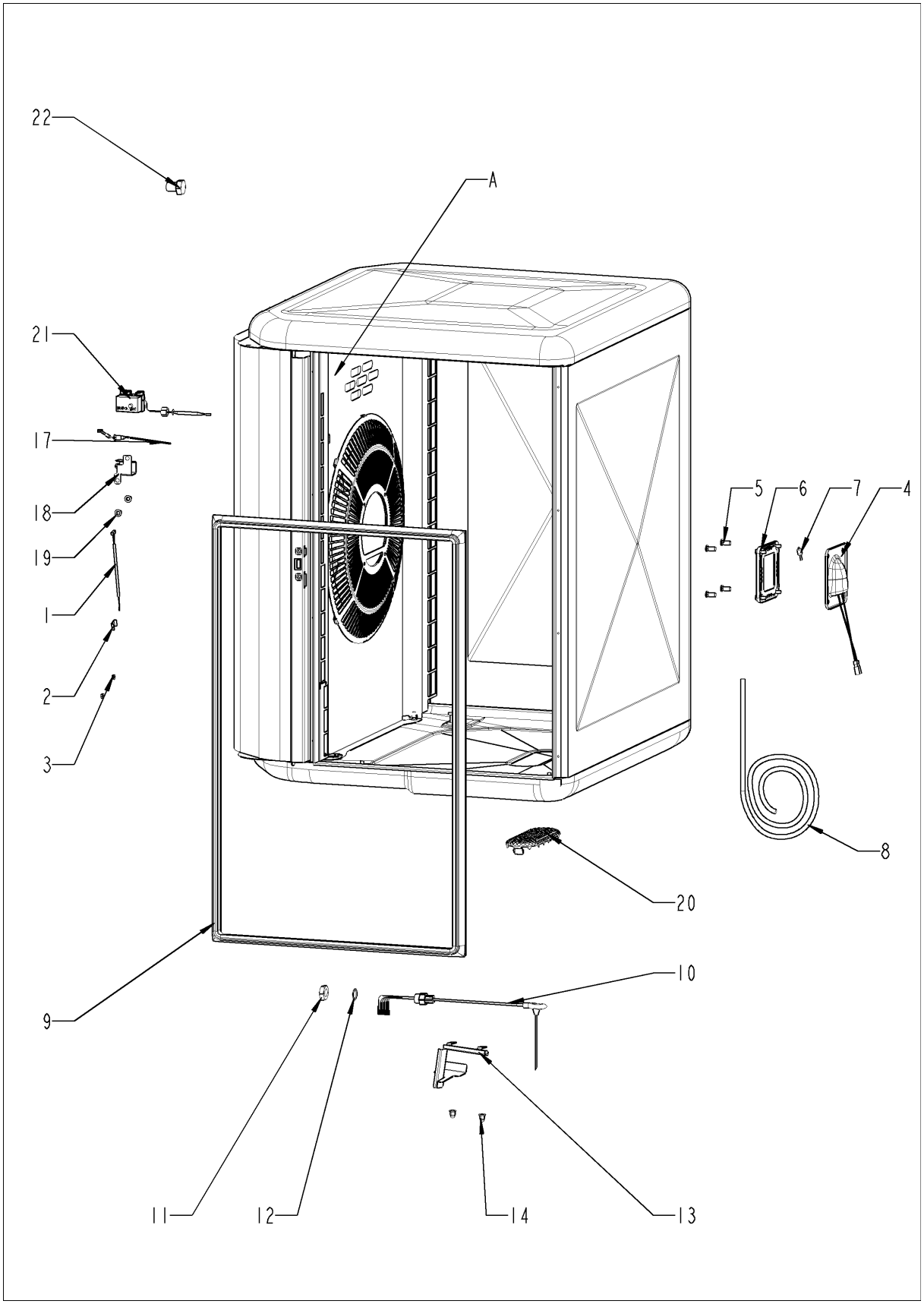
Motor and fan wheel



Motor and fan wheel

Pos.	Part no.	Description	Qty.
1	40.03.378	Fan motor with motor shaft gasket	1
3	10.01.049	Square necked mushroom head bolt 6x30	4
4	10.00.709	Hex nut M6 w. locking	2
5	22.00.721	Flange f. motor shaft gasket	1
6	22.00.722	Mounting support f. gasket flange	1
7	22.00.985	Motor shaft gasket D15	1
8	22.01.196	Graphit seal for gasket flange	1
9	10.01.065	Hex nut M5	3
10	22.00.828	Fan wheel	1
11	10.00.936	Hex screw M8x20	1
12	1308.0162	Washer A8,4	1
13	10.00.112	Cable clip short	1
15	20.01.755	Isolation for mounting plate for motor	1

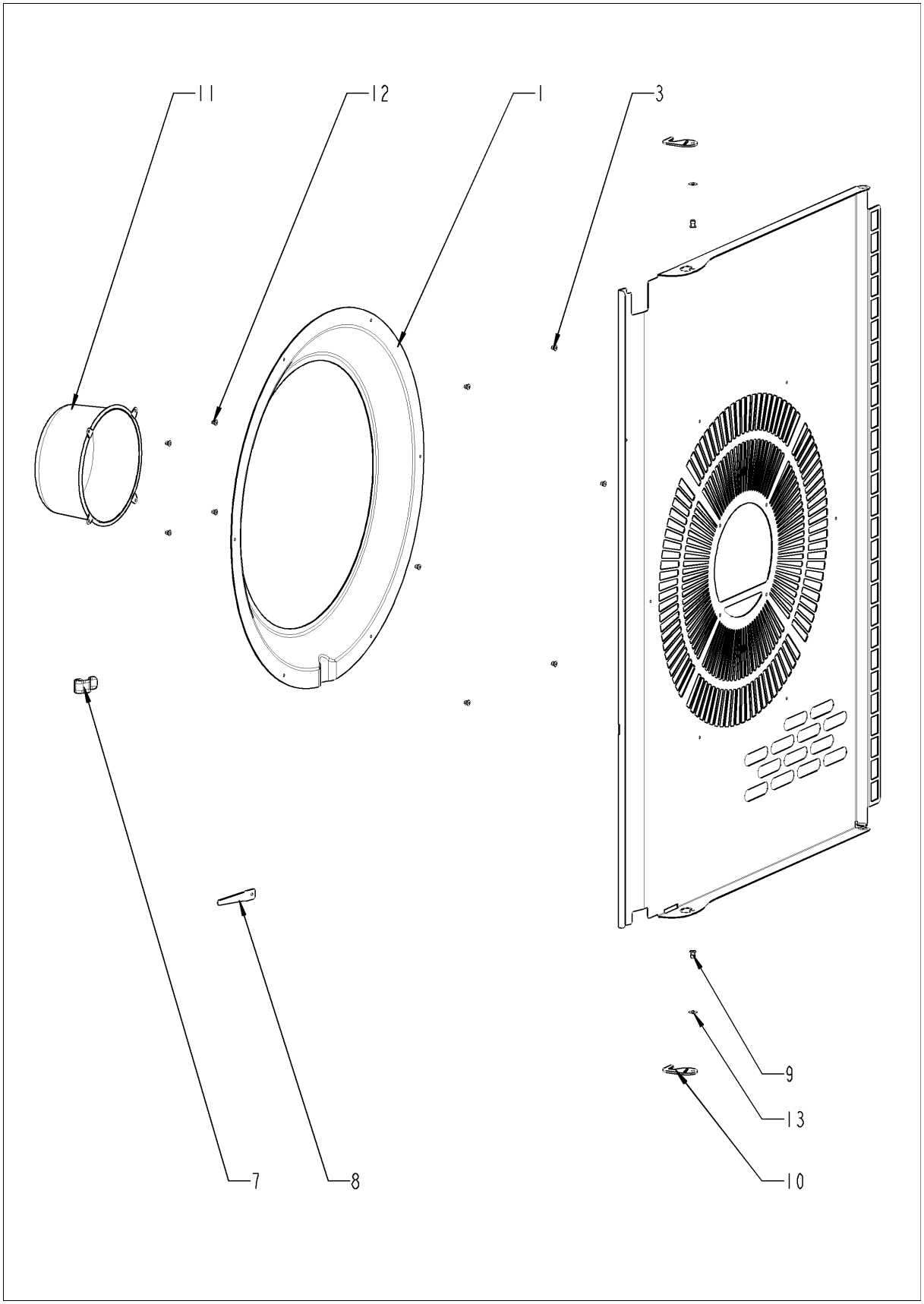
Interior cabinet



Interior cabinet

Pos.	Part no.	Description	Qty.
1	40.00.290	Thermocouple humidity *B4*	1
2	10.00.087	Clamp strap f. sensor	1
3	10.00.100	Hex nut M4, self-locking	1
4	40.00.098	Reflector f. interior light	1
5	10.01.429	Rivet nut M5 hexagon closed with gasket	4
6	40.00.091	Gasket frame w. glass a. gaskets	1
7	40.03.994	Halogen bulb 300°C	1
8	40.04.362	Wiring interior light	1
9	20.02.552	Door gasket	1
10	40.04.039	Meat probe sensor	1
11	10.00.612	Hex nut M16 flat	1
12	1315.0104	Copper washer 16x20x1,5	1
13	40.01.317	Screen core temperature sensor	1
14	10.01.076	Cap nut M5*A2	2
17	40.04.085	Thermocouple interior cabinet B1	1
18	40.03.782	Screen interior cabinet sensor	1
19	10.01.076	Cap nut M5*A2	2
20	54.01.117	Outlet sieve	1
21	40.01.482	Safety temperature limiter 365°C	1
22	3014.0327	Hex nut M10x1,0	1
A	22.00.705	Air baffle	1

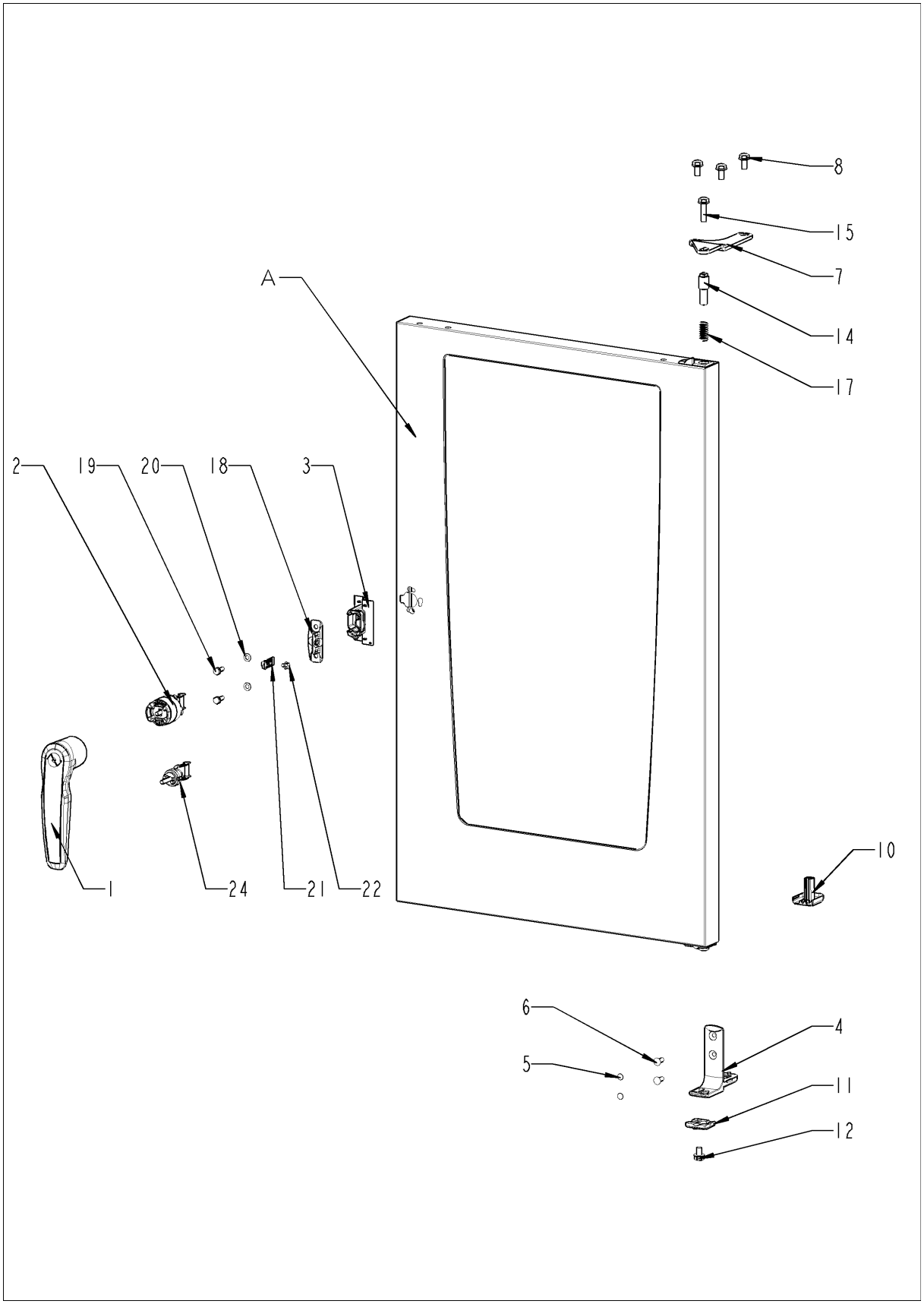
Air baffle



Air baffle

Pos.	Part no.	Description	Qty.
1	22.00.835	Air sucking ring f. air baffle	1
3	10.00.515	Rivet 3,2x5 A4	6
7	40.03.780	Fixing clip core temp. cable	1
8	22.00.491	Surge guard for Meat probe sensor	1
9	2760.1370	Latch hook for air baffle	2
10	1604.0167	Rivet 4x10	3
11	22.00.361	Deep-draw f. air baffle	1
12	10.00.515	Rivet 3,2x5 A4	4
13	10.00.744	Washer A4,3 *A4	3

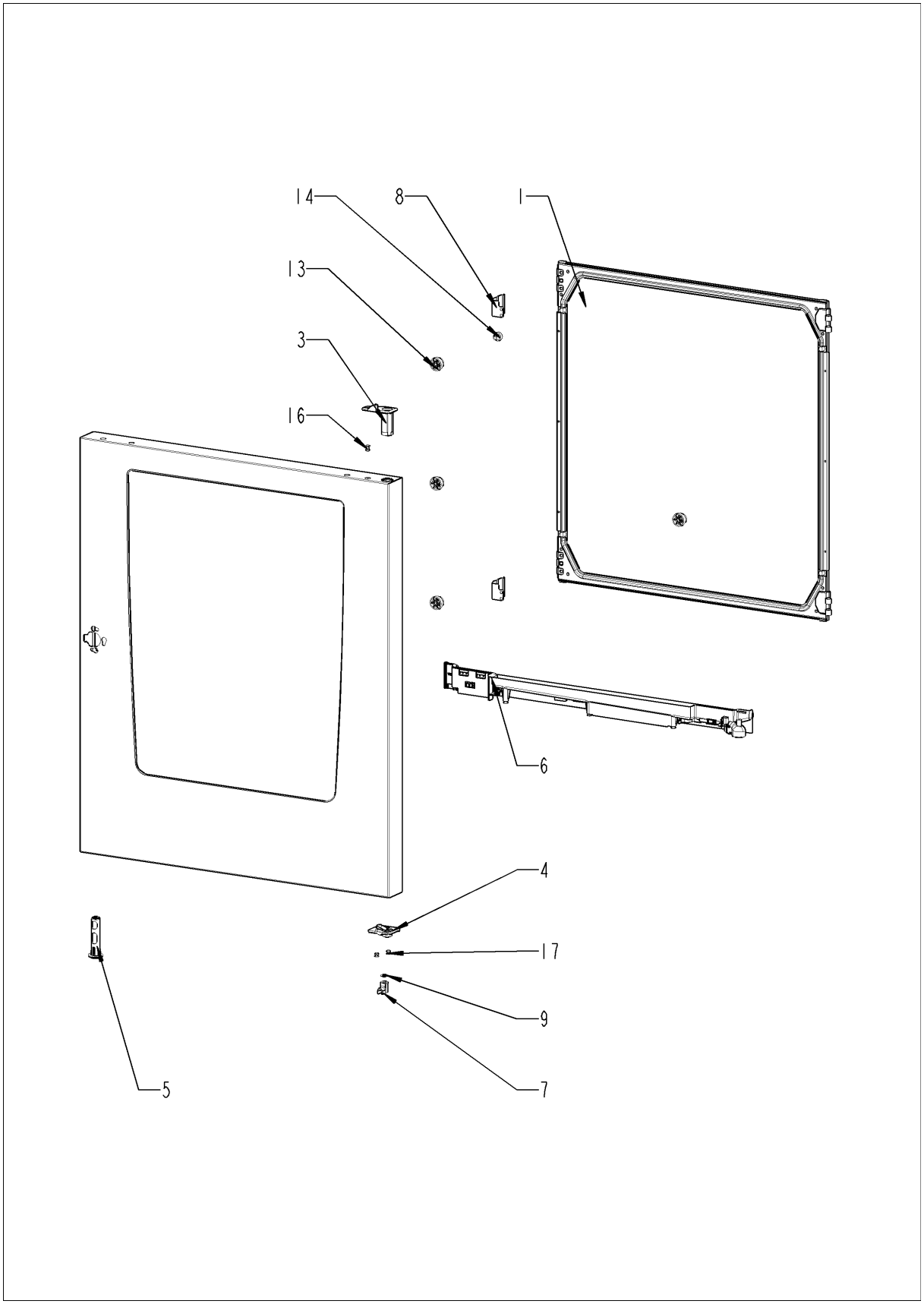
Door



Door

Pos.	Part no.	Description	Qty.
1	24.02.923	Door handle	1
2	24.03.041	Door lock with spring U-bolt	1
3	24.03.184	Lock cover	1
4	24.02.814	Door mounting support bottom	1
5	10.00.090	Cap f. Torx T30	2
6	1006.1962	Countersunk screw Torx M6x16	2
7	24.00.133	Door mounting support top	1
8	1008.0768	Ornamental screw M8x16	3
10	24.02.967	Cable cover	1
11	24.02.951	Door bolt	1
12	10.01.527	Hex screw M8x12	1
14	24.03.040	Door bolt	1
15	1008.0769	Ornamental screw M8x30	1
17	2001.0109	Compression spring	1
18	24.02.958	Holding bracket f. door catch	1
19	1006.0760	Hex screw M6x16	2
20	1306.0120	Washer A6,4	2
21	24.02.959	Door catch	1
22	24.02.960	Interlocking tooth screw M5x6	1
24	24.03.288	Spring U-bolt for door lock	1
A	24.03.601	Door	1

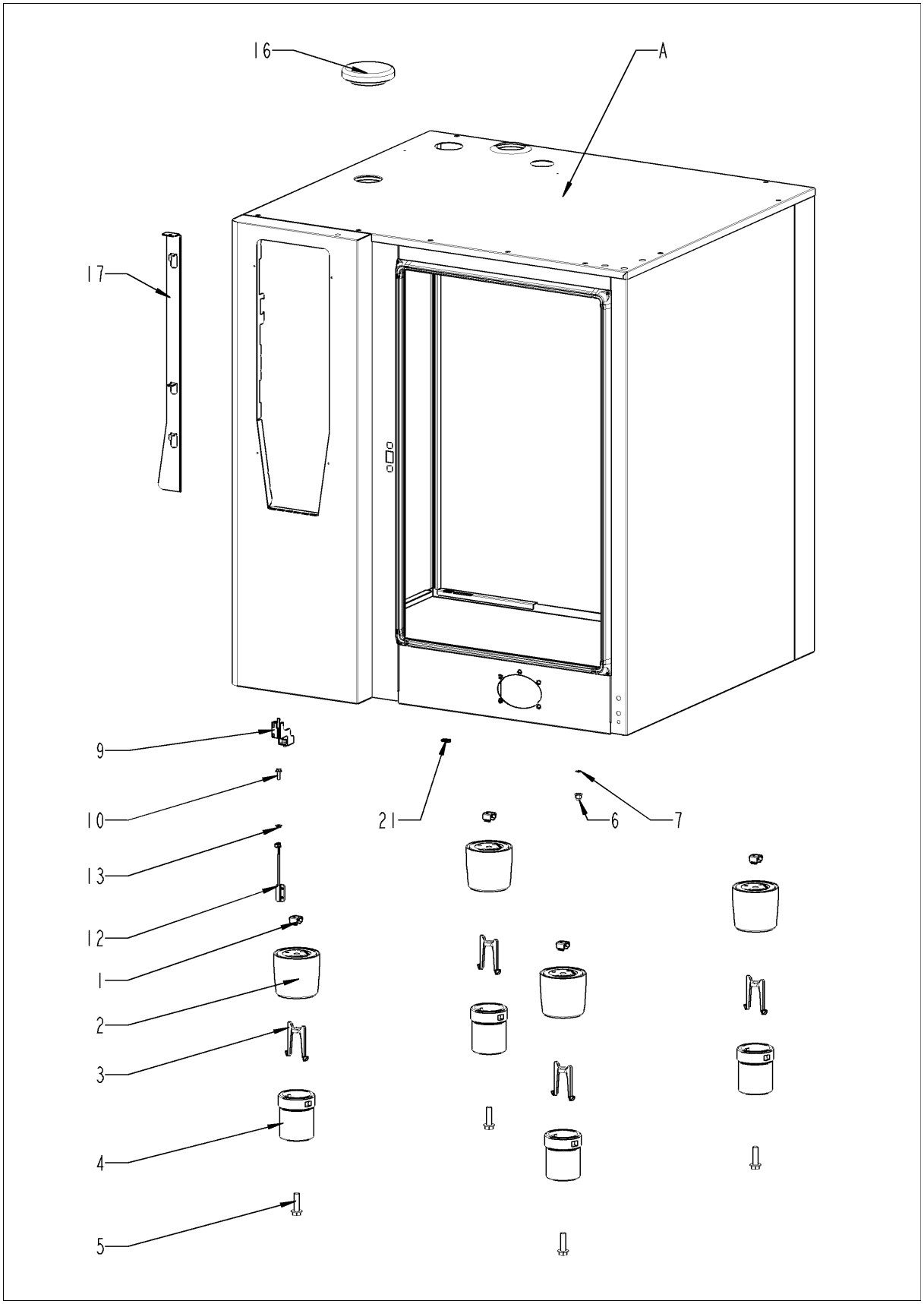
Door



Door

Pos.	Part no.	Description	Qty.
1	24.03.607	Inner door pane	1
3	24.03.052	Sleeve for door bolt top	1
4	24.02.966	Door setting bolt	1
5	24.00.502	Fixing device f. magnet with magnet	1
6	87.01.428	Door drip collector	1
7	24.03.056	Slide bush for door	1
8	24.03.060	Fixing bracket for interior glass pane	2
9	24.03.057	Abrasion protection for glide socket	1
13	24.03.762	Base for spacer	6
14	24.00.171	Silicone buffer 7mm for door	6
16	10.00.890	Rivet 4x10	1
17	10.00.904	Rivet B4x8	2

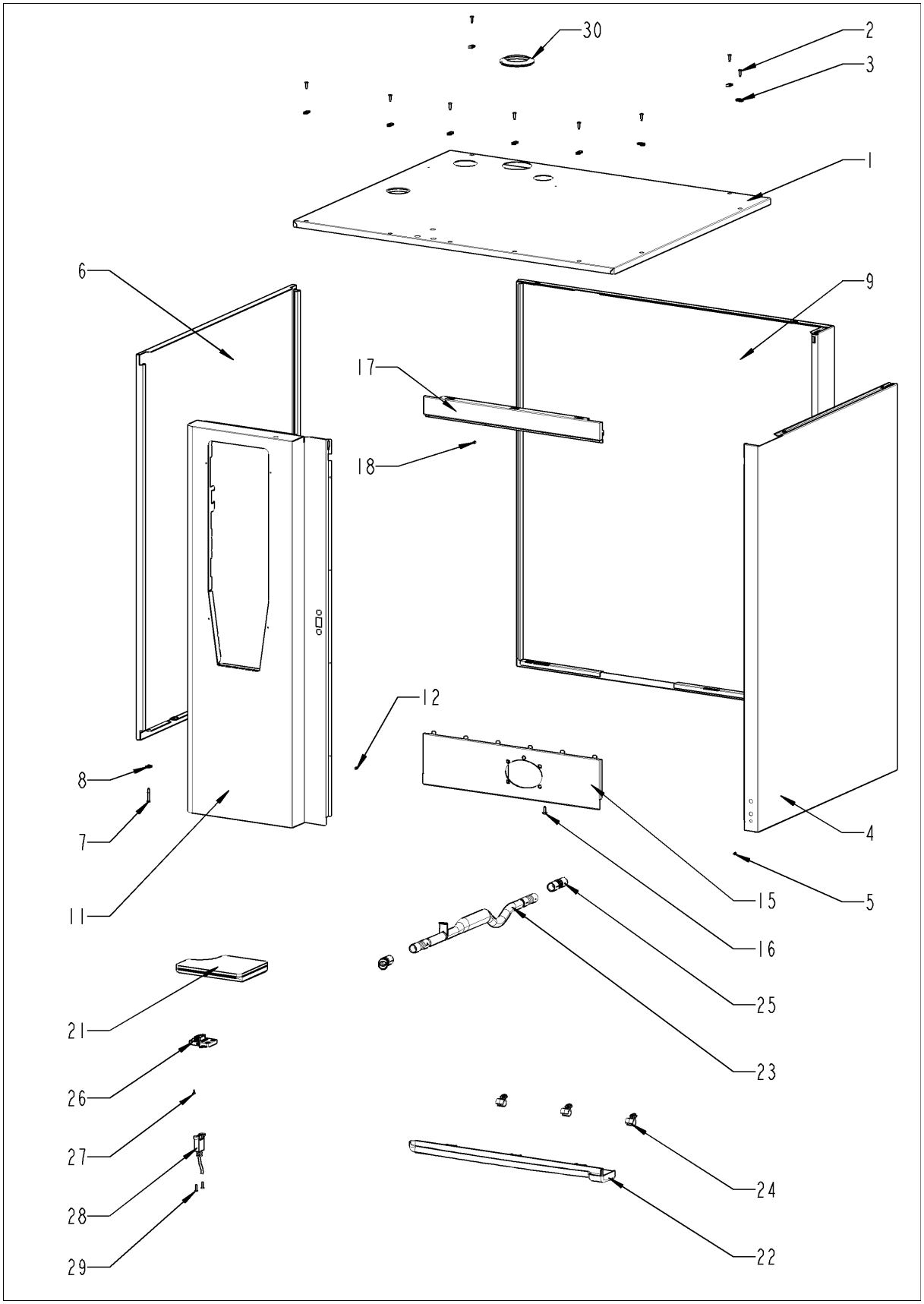
Exterior cabinet



Exterior cabinet

Pos.	Part no.	Description	Qty.
1	1110.0800	Cage nut M10	4
2	12.00.205	Upper part of pedestal	1
3	12.00.516	Turning lock f. lower part of pedestal	1
4	12.01.133	Lower part of pedestal	4
5	10.00.975	Hex screw M10x35	1
6	10.00.745	Cap nut M6*A2	1
7	1206.0120	Tooth lock washer A6,4	1
9	16.01.146	Bracket for door contact switch	1
12	40.04.342	Door switch 0.45m	1
13	10.00.916	Hex nut M4 w. locking	1
16	22.00.767	Vent cover	1
17	16.02.870	Opening mechanism for panel insert	1
21	1104.0820	Snap nut 4,2mm	2
A		Exterior cabinet	1

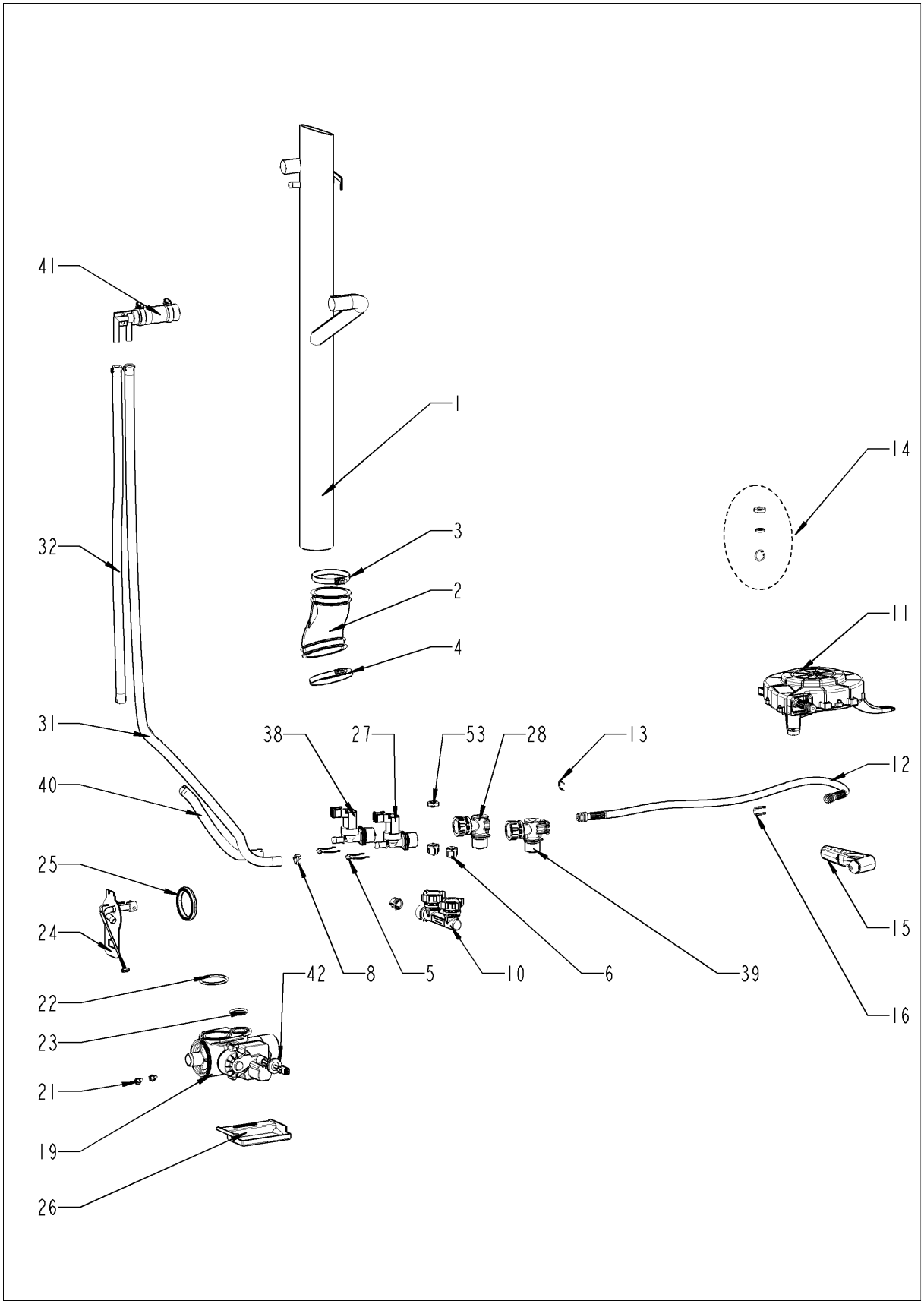
Exterior cabinet



Exterior cabinet

Pos.	Part no.	Description	Qty.
1	16.02.160	Top cover	1
2	1003.2265	Countersunk self tapping screw 4,2x16	9
3	1104.0820	Snap nut 4,2mm	7
4	16.00.127	Side panel right	1
5	1603.0166	Rivet 3,2x7,9 CNS closed	4
6	16.00.128	Side panel left	1
7	10.00.992	Hex self tapping screw B4,2x32	2
8	1104.0820	Snap nut 4,2mm	2
9	16.01.926	Back panel	1
11	16.02.737	Front panel	1
12	1603.0166	Rivet 3,2x7,9 CNS closed	4
15	16.02.098	Crossbar below	1
16	1004.2160	Hex self tapping screw 4,2x16	2
17	16.00.180	Crossbar top	1
18	1603.0166	Rivet 3,2x7,9 CNS closed	4
21	40.02.684	Air inlet filter cpl.	1
22	50.00.286	Drip collector	1
23	50.01.613	Drain pipe with bushing	1
24	50.00.296	Clip f. drip collector	3
25	50.00.303	Bushing drip collector	2
26	16.00.329	Cover f. USB interface	1
27	10.00.103	EJOT PT-screw KA 3.5x10	1
28	40.04.046	Interface cable USB 1.0m	1
29	10.00.460	EJOT PT-Screw Torx 3,5x14	2
30	16.01.748	Gasket f. breather tube d=63mm	1
31	1004.2160	Hex self tapping screw 4,2x16	2

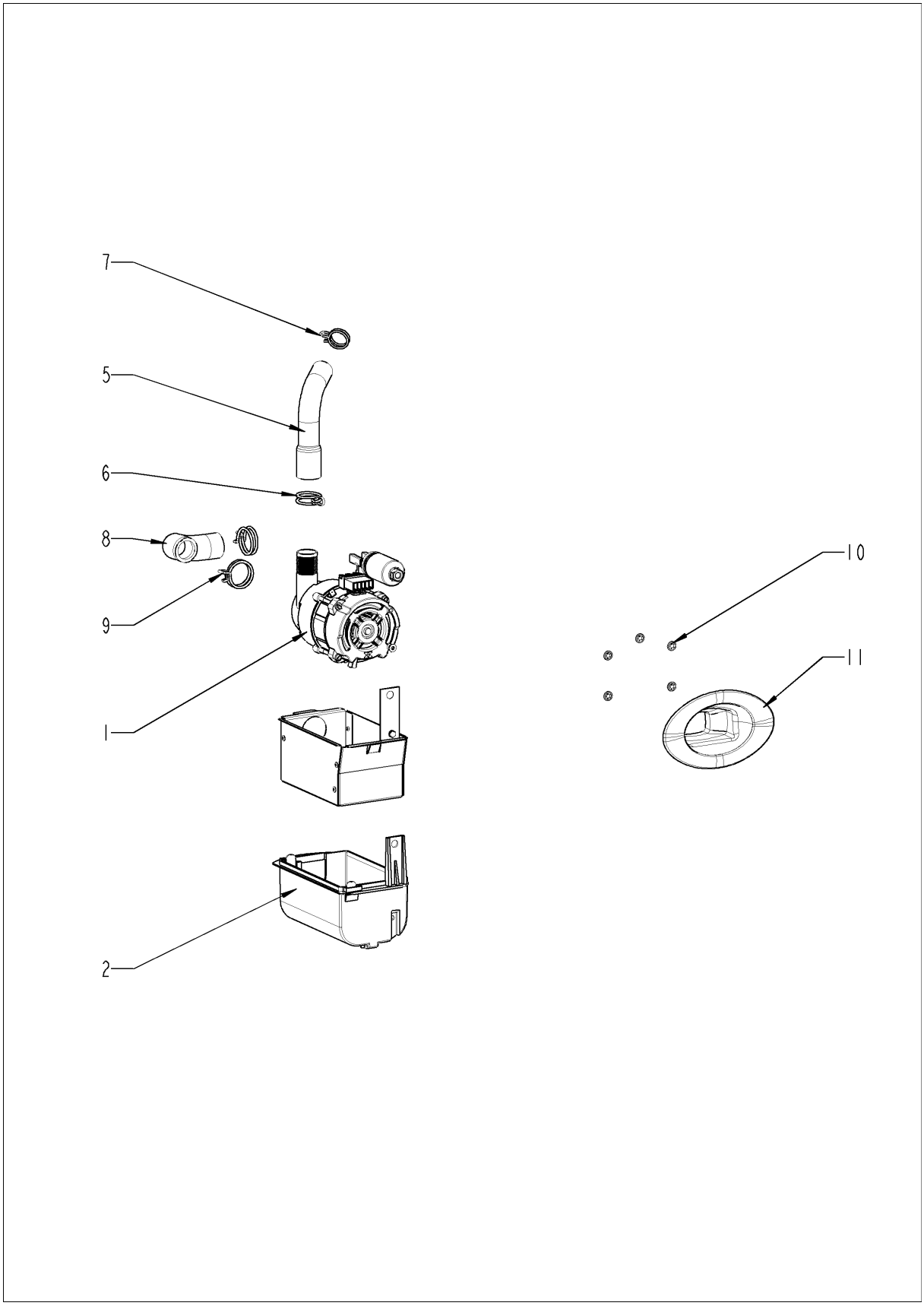
Water


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Water

Pos.	Part no.	Description	Qty.
1	54.00.738	Ventilation pipe	1
2	54.01.141	Rubber form piece venting pipe	1
3	10.01.261	Hose clamp 66 mm	1
4	10.01.262	Hose clamp 76 mm	1
5	50.00.086	Locking plate f. water distribution	1
6	1900.0202	Water filter	2
8	2066.0205	Hose clamp 8-16x9 mm SW 7mm	1
10	50.00.313	T-fitting water connection	1
11	52.00.060	Hand shower roll guide	1
12	50.01.818	Connect. hose f. hand shower roll guide	1
13	50.00.085	Plug-in spring f. hand shower roll guide	1
14	87.00.417	Repair set shaft seal 01/2004	1
15	50.00.282	Hand shower black	1
16	50.00.156	Clamp f. hand shower roll guide	1
18	1105.0121	Hex combination nut M5 galv	1
19	56.00.618	Ball valve drain SCC cpl.	1
21	10.00.449	Pan head screw M6x16	2
22	10.00.511	O-ring for ball valve drain 46x3.5	1
23	10.00.512	O-ring for ball valve drain 26x3.5	1
24	54.01.148	Inspection lid, quenching nozzle, B2	1
25	54.01.168	Gasket f. inspection lid	1
26	54.01.191	Collecting pan	1
27	50.01.147	Single solenoid valve Y1	1
28	50.00.071	Water distribution hor. w/o roll guide con.	1
31	2067.0050	Pressure hose d10mm	1.2
32	2067.0050	Pressure hose d10mm	.65
38	50.01.146	Single solenoid valve Y2	1
39	50.00.070	Water distribution hor roll guide con.	1
40	2067.0050	Pressure hose d10mm	.31
41	8354.1304	Venting valve for steam generator	1
42	2022.0101	Grommet d8mm	1
53	1900.0102	Flow controller red 5 l/min	1
54	50.00.554	O-ring for hand shower 11x2mm	2

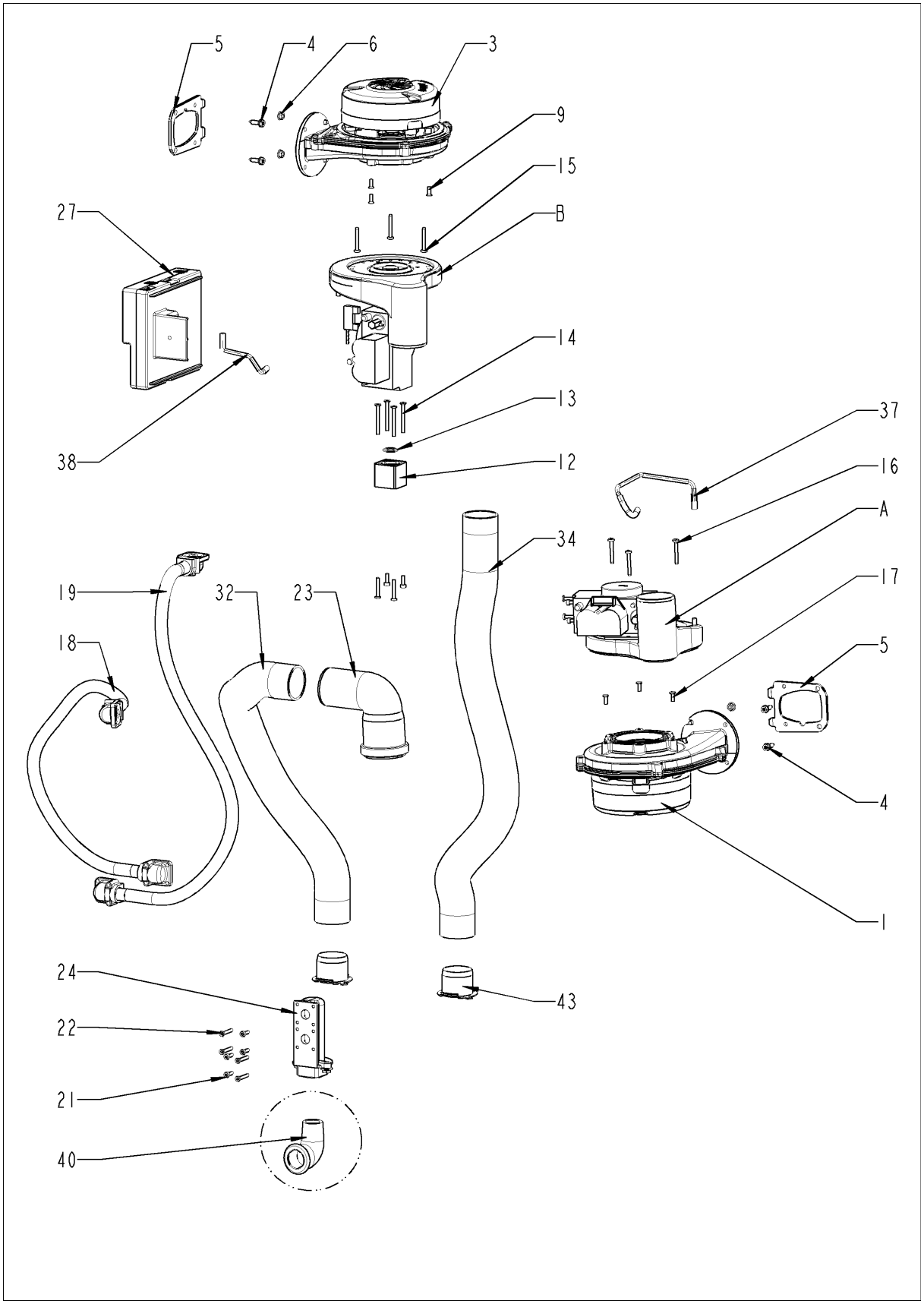
CleanJet + Care



CleanJet + Care

Pos.	Part no.	Description	Qty.
1	56.00.153	Pump f. cleaning UP30	1
2	12.00.319	Housing f. Cleaning pump	1
5	56.00.166	Pressure hose f. cleaning	1
6	2066.0518	Hose clamp 30mm	1
7	2066.0521	Hose clamp 27mm	1
8	56.00.605	Suction hose f. cleaning	1
9	2066.0518	Hose clamp 30mm	2
10	1107.0100	Star lock ø4	5
11	50.00.754	Tulip for handshower with tape black	1

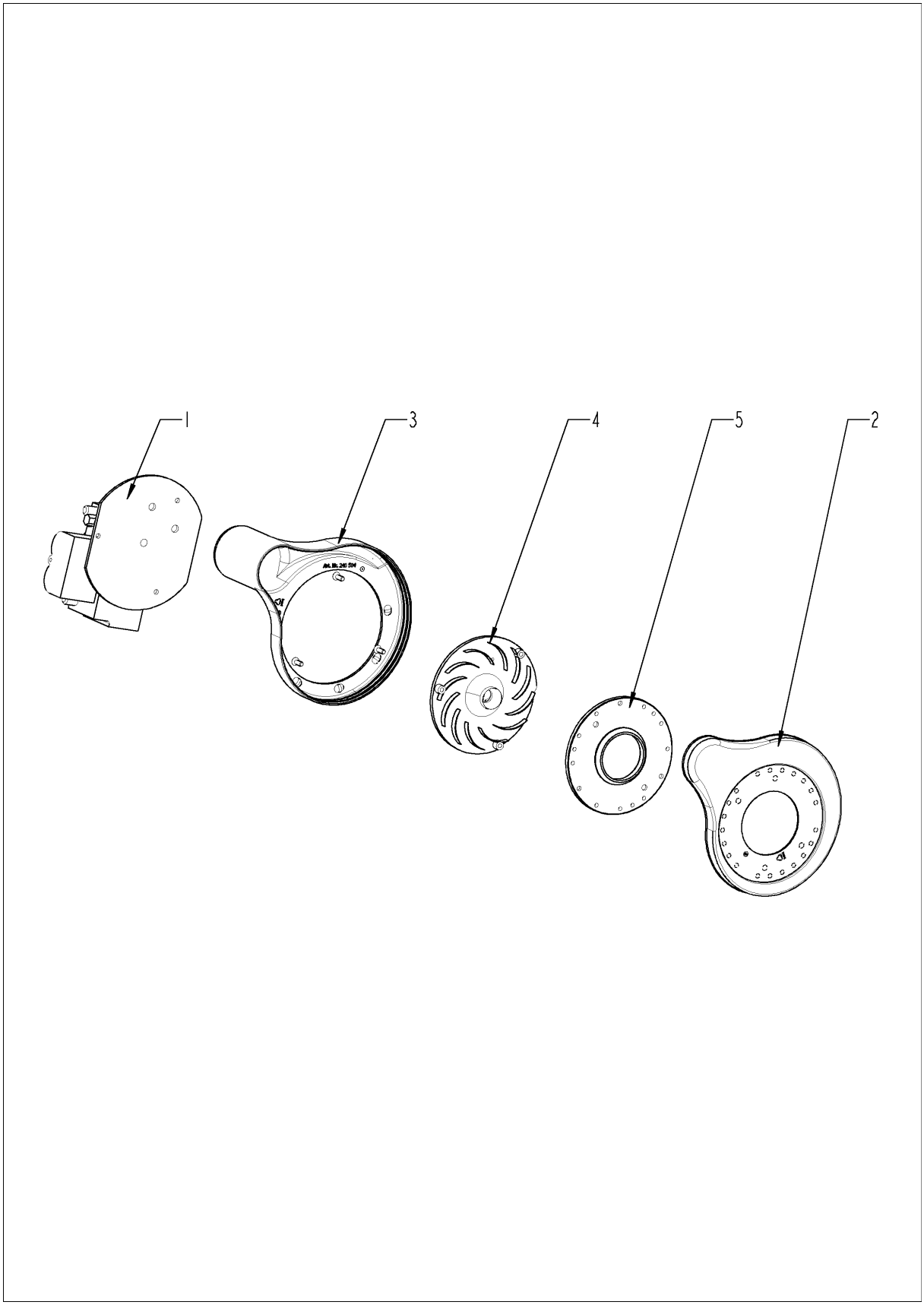
Gas parts



Gas parts

Pos.	Part no.	Description	Qty.
1	70.00.566	Blower for burner NRG118	1
3	70.00.566	Blower for burner NRG118	1
4	10.00.990	Hex screw M5x16 Torx T20	4
5	70.00.871	Flange f. burner blower RG118 with gasket	2
6	10.01.065	Hex nut M5	4
9	10.00.065	Countersunk screw Torx T20 M4x12	3
12	70.00.637	Spacer sleeve f. gas burner blower	1
13	70.00.262	O-ring 21.89x2.62	2
14	10.00.068	Countersunk screw Torx T20 M4x40	4
15	10.00.456	Truss head screw Torx M4x30 T20	3
16	10.00.456	Truss head screw Torx M4x30 T20	3
17	10.00.065	Countersunk screw Torx T20 M4x12	3
18	70.00.090	Corrugated hose 600mm	1
19	70.00.090	Corrugated hose 600mm	1
21	10.00.061	Pan head screw Torx T20 M4x12	8
22	10.00.063	Pan head screw Torx T20 M4x25	8
23	70.00.301	Combustion air angle pipe hot air	1
24	74.00.308	Gas connection manifold 2x3/4"	1
25	1006.0762	Hex screw M6x10	2
26	1306.0222	Washer A6,4x15x1,5	2
27	74.00.883	Automatic ignition controller	1
29	10.00.062	Pan head screw Torx T20 M4x20	1
32	70.00.454	Air hose D40x600mm	1
34	70.00.093	Air hose D40x650mm	1
35	2066.0507	Hose clamp 32-50mm	2
37	70.00.624	Connection compensation tube	1
38	70.00.623	Silicone hose ø8x1,6x115mm	1
40	70.00.188	Hose fitting 3/4"-3/4"	1
43	70.00.221	Air hose fixing device 40mm	2
A		Gas valve RH	1
B		Gas valve SEP	1

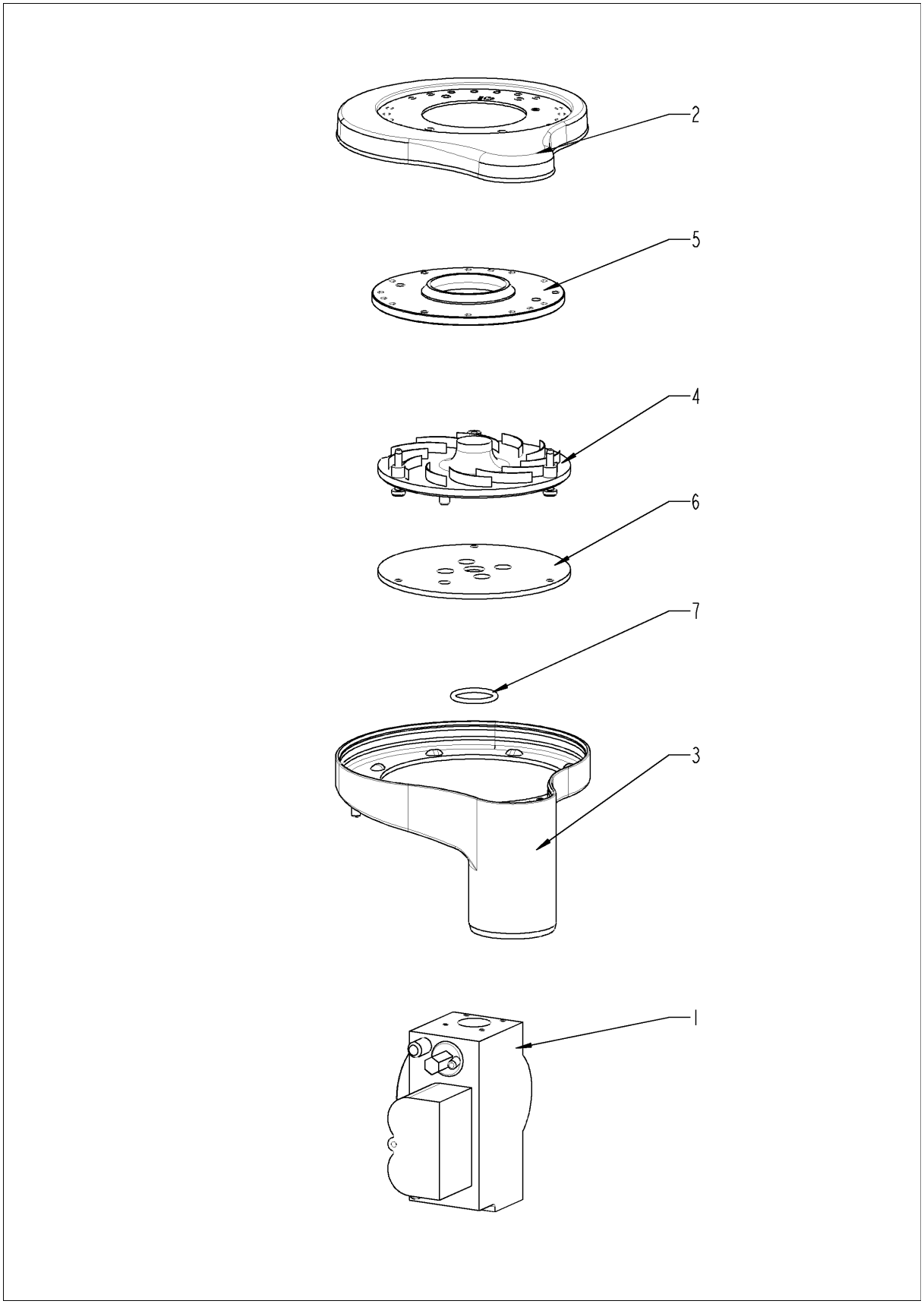
Gas valve, hot air



Gas valve, hot air

Pos.	Part no.	Description	Qty.
1	70.00.577	Gas valve RH *hot air*	1
2	70.00.255	Premix chamber cover gas f. RG130	1
3	70.00.030	Premix chamber gas f. RG130	1
4	70.00.580	Premix disc gas	1
5	70.00.256	Disc premix chamber-blower RG130	1

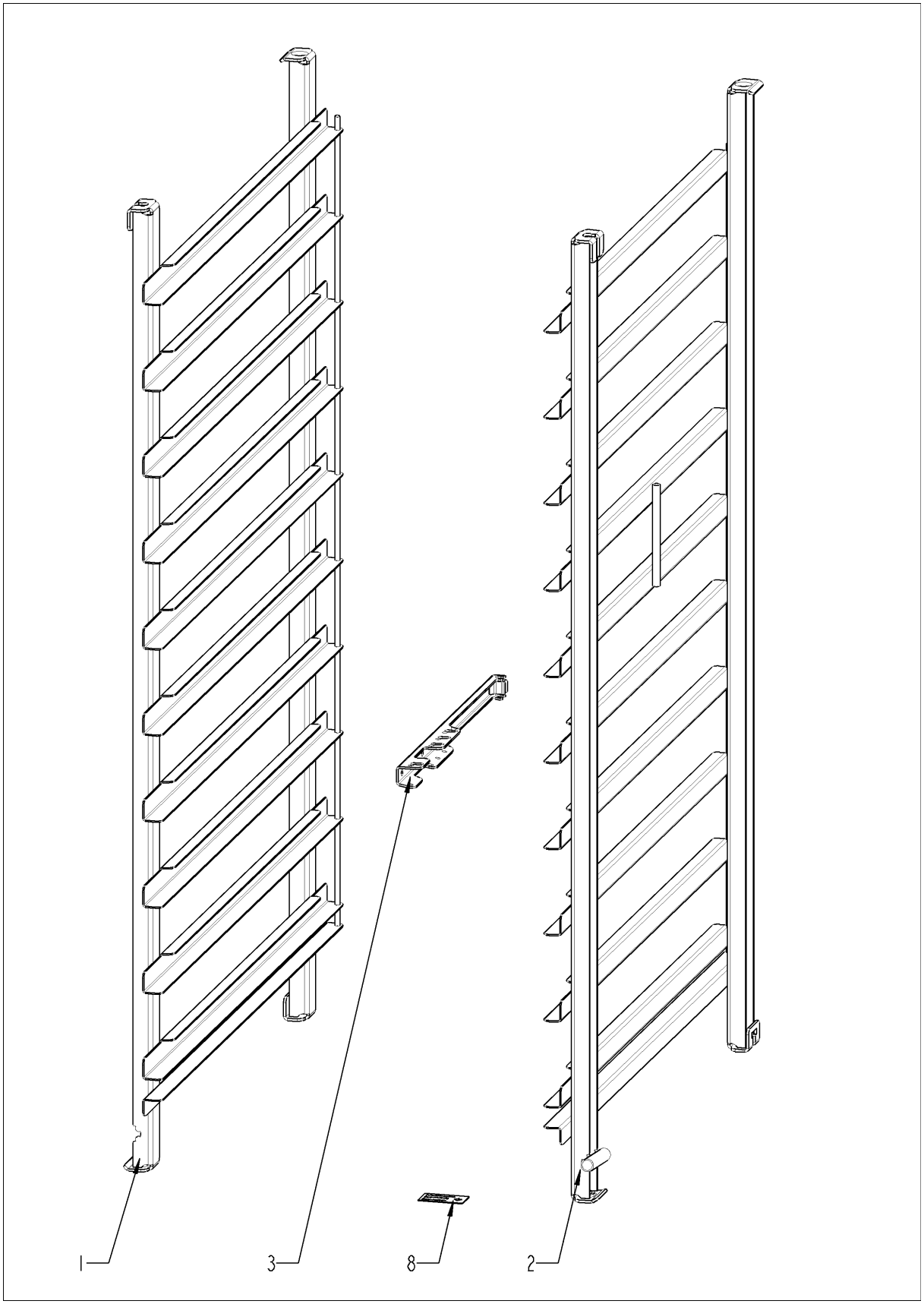
Gas valve, Steam



Gas valve, Steam

Pos.	Part no.	Description	Qty.
1	70.00.576	Gas valve SEP *steam*	1
2	70.00.255	Premix chamber cover gas f. RG130	1
3	70.00.030	Premix chamber gas f. RG130	1
4	70.00.580	Premix disc gas	1
5	70.00.256	Disc premix chamber-blower RG130	1
6	70.00.108	Disc gas valve-premix chamber	1
7	70.00.261	O-ring 17x1.5	1

Standard accessory



Standard accessory

Pos.	Part no.	Description	Qty.
3	60.71.022	Positioning support f. core sensor	1
8	10.01.192	Sticker set	1
10	60.71.381	Water connection kit, table unit G/USA	1

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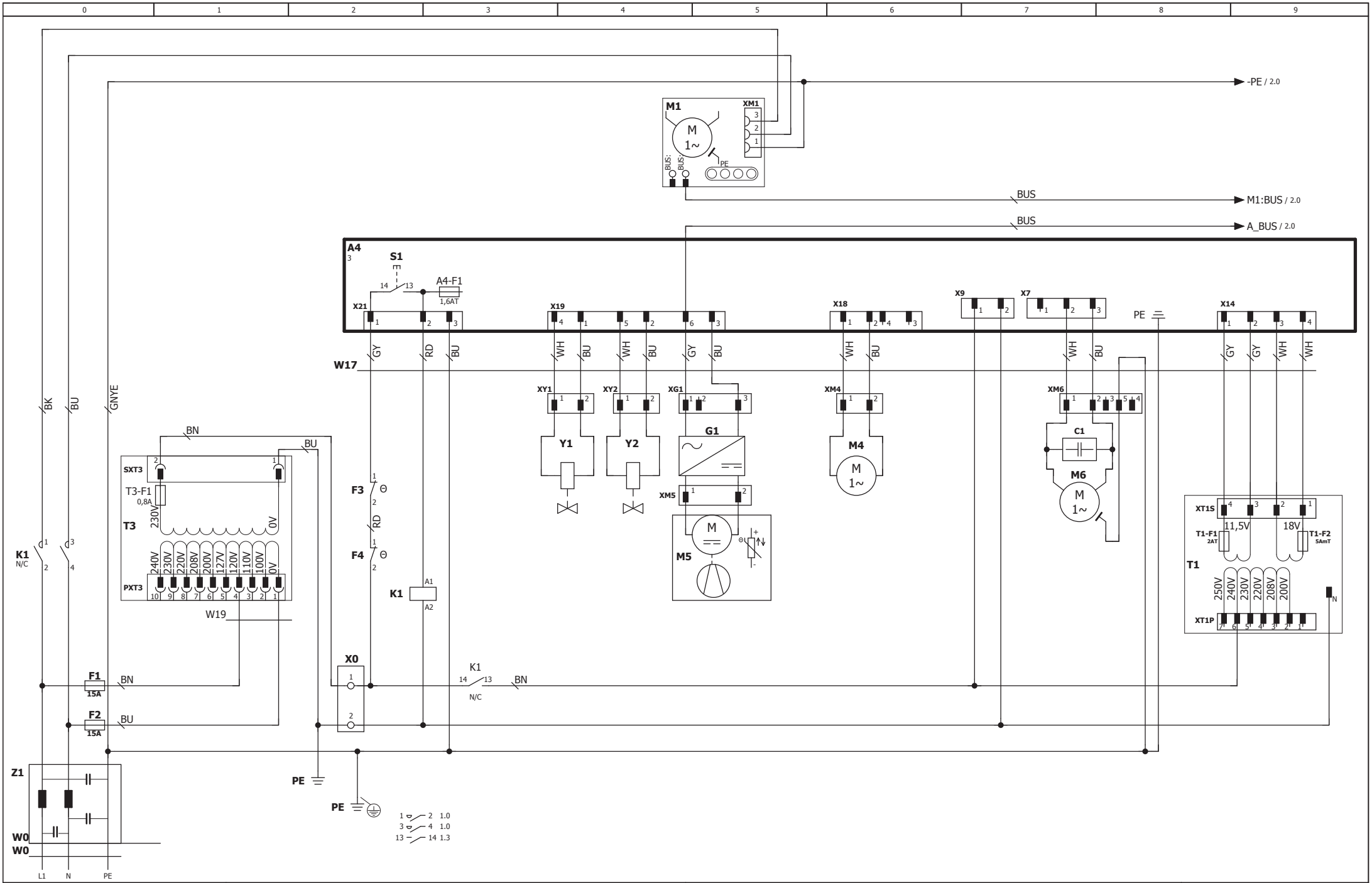
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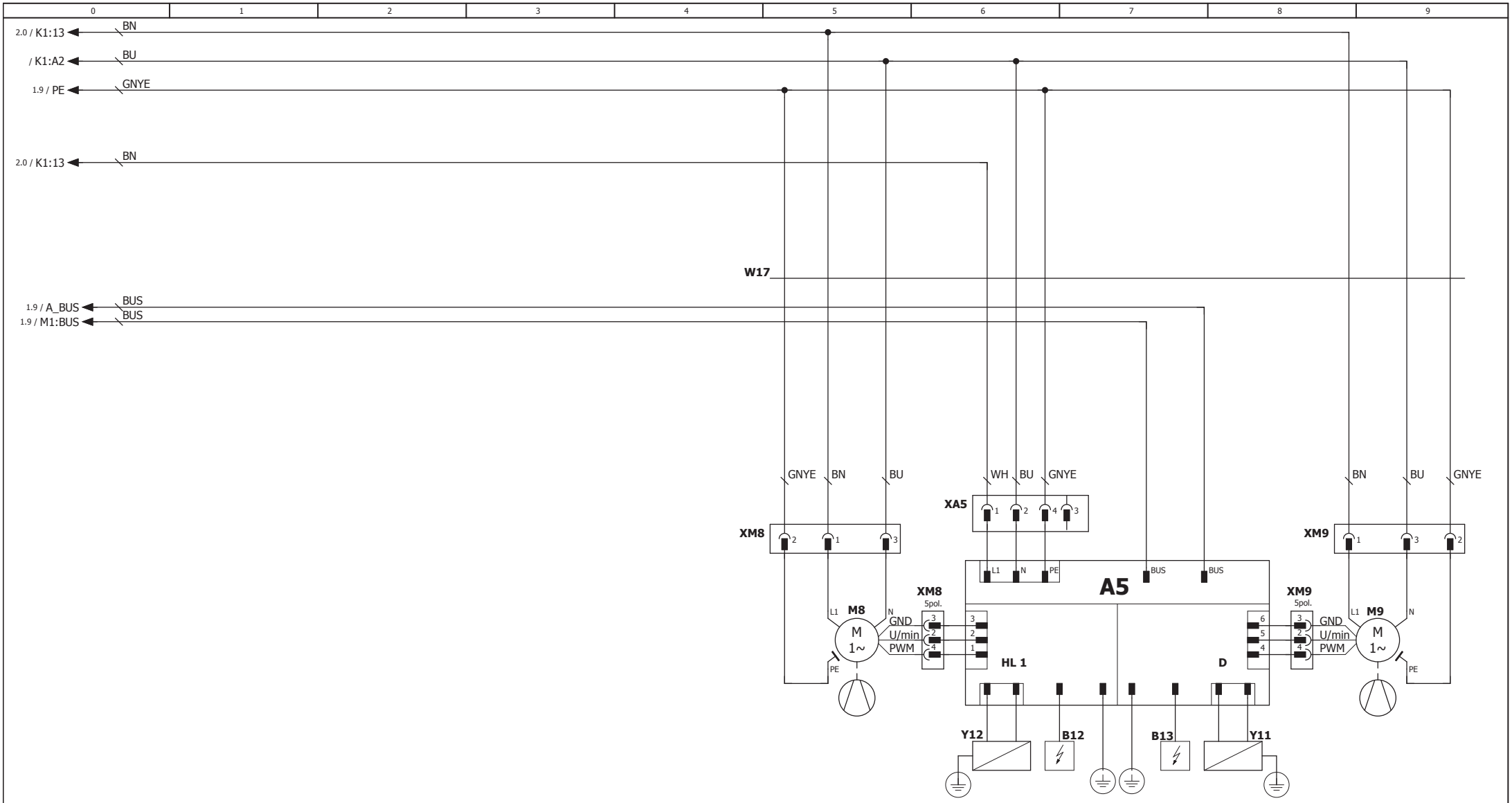
Deckblatt Elektrische Dokumentation, Cover sheet electrical Documentation

Die Elektrische Dokumentation besteht aus: 1. diesem Deckblatt, 2. dem Schaltplan und 3. der Legende der elektrischen Bauteile
The electric documentation contains: 1. this cover sheet, 2. the wiring diagram and 3. the bill of material (BOM)

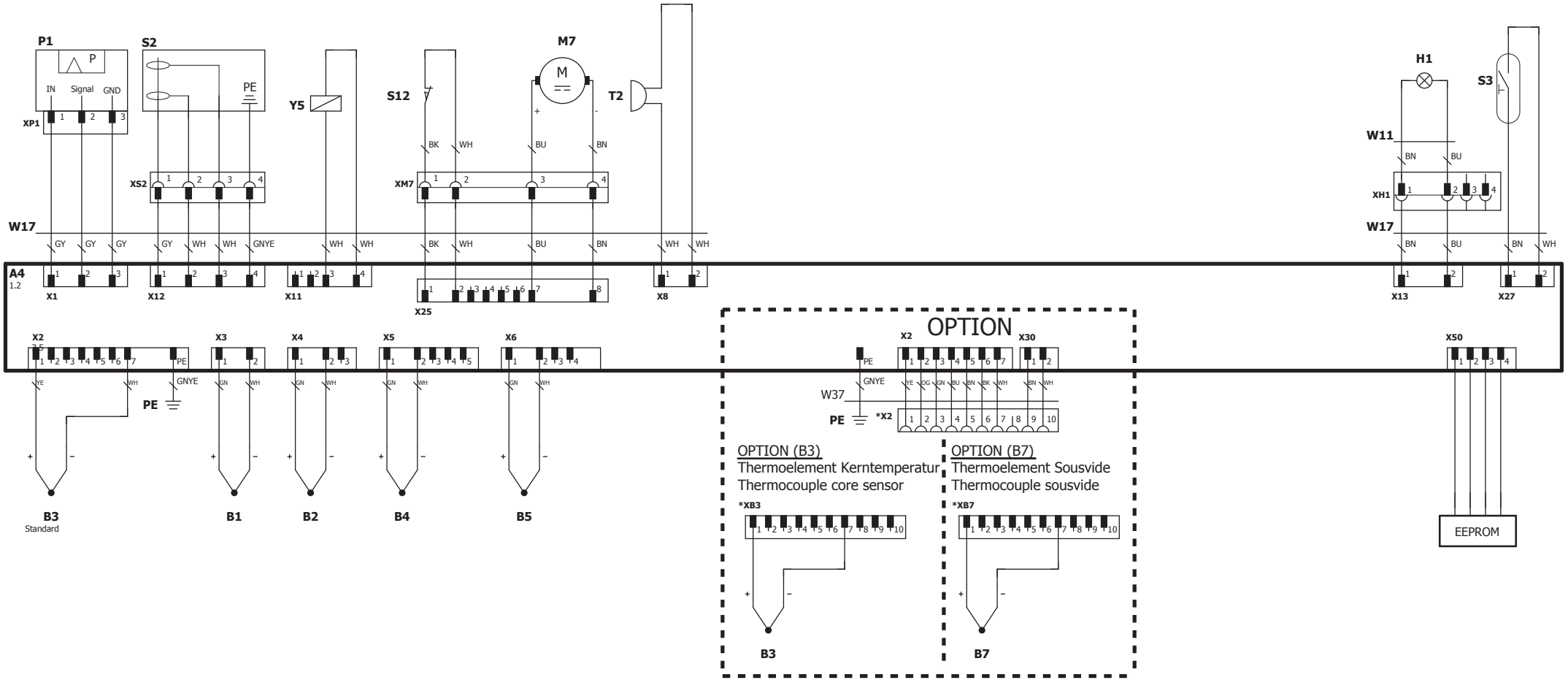
Typ **Type**	CMP 101G		
Spannung (SPL) **Voltage**	1NAC120 V 60 Hz		
Deckblatt-Nr. **Front Page No.**	75-22476	**Version**	1
Schaltplan **Wiring diagram**	76-00987	**Version**	1
Legende **Legend electr. components**	78-01924	**Version**	0
Geräteserialnr. **Serial number**	G11MI1703	**Version**	1703
Erstellt am **Created at**	16.02.2017	**Ersteller** **Creator**	HEJA
Gültig ab **Valid from**	10.05.2017	**Änderung** **Modification**	20170011



76-00987	MODUL 1 Leistung/Power	CMP 101G UL/CANADA 1NAC120 V 60 Hz	Erstellt von HEJA Datum 10.05.2017 Blatt 1
Version 1			



76-00987	MODUL 2 Heizung/Heating	CMP 101G UL/CANADA 1NAC120 V 60 Hz	Erstellt von HEJA Datum 10.05.2017 Blatt 2
Version 1			



76-00987	MODUL 3 Sensoren/Sensors	CMP 101G UL/CANADA 1NAC120 V 60 Hz	Erstellt von HEJA Datum 10.05.2017 Blatt 3
Version 1			

Positionsliste
Bill of material

Name **Name**	**Artikelnr.** **Item number**	**Artikelbezeichnung**	**Item description**
-A4	42.00.272	Bedienplatine CMP	Operator PCB CMP
-A5	74.00.883	Feuerungsautomat Brenner 61-202	Ignition box
-B1	40.04.085	Thermoelement Garraum	Thermocouple interior cabinet
-B2	54.01.148	Thermoelement Steuerventil	Thermocouple control valve
-B3	40.04.039	Thermoelement Kerntemperatur	Thermocouple core sensor
-B4	40.00.290	Thermoelement Feuchte	Thermocouple humidity
-B5	40.04.109	Thermoelement Dampfgenerator	Thermocouple steam generator
-F1/F2	40.01.873	Steuersicherung	Control fuse
-F3	40.02.515	Sicherheitstemperaturbegrenzer DG	Safety thermostat steam generator SG
-F4	40.01.482	Sicherheitstemperaturbegrenzer 360°C/680°F	Safety thermostat interior cabinet 360°C/680°F
-G1	40.03.257	Gleichrichter Kühllüfter	DC converter cooling fan
-H1	3024.0201	Garraumbeleuchtung	Interior cabinet light
-K1	40.03.761	Hauptschütz	Main contactor
-M1	40.03.378	Lüftermotor	Fan motor
-M4	44.00.207	SC-Pumpe	SC-pump
-M5	40.03.428	Kühllüfter	Cooling fan
-M6	56.00.153	CleanJet Pumpe SCC WE	CleanJet pump SCC WE
-M7	56.00.618	Kugelhahn Ablauf	Drain valve
-M8	70.00.566	Gasgebläse HL	Gas blower hot air
-M9	70.00.566	Gasgebläse DG	Gas blower steam
-P1	3017.1011	Differenzdrucksensor	Differential pressure sensor
-S2	44.01.420	Niveauelektrode	Water level electrode
-S3	40.04.342	Türkontaktschalter	Door contact switch
-S7	40.00.464	Potentiometer Zeit / Kerntemperatur	Time / Core potentiometer
-T1	40.03.348	Steuertrafo	Control transformer
-T1-F1	3019.0120	Sicherung Steuertrafo T1 2AT	Fuse control transformer T1 2AT
-T1-F2	3019.0114	Sicherung Steuertrafo T1 5AmT	Fuse control transformer T1 5AmT
-T2	40.04.048	SCC WE: Lautsprecher / CMP: Alarmsummer	SCC WE: Speaker / CMP: Buzzer
-T3	40.00.279	Sondertrafo	Special transformer
-T3-F1	3019.0124	Sicherung Sondertrafo T3	Fuse special transformer
-W0	40.01.597	Anschlusskabel	Cable: power supply

Änderungsdatum	**16.02.2017**	Name	**CMP 101G UL/CANADA**	Dokument-Nr.	**78-01924**
Erzeuger	**HEJA**	Spannung	**1NAC120 V 60 Hz**	Version	**0**

Positionsliste
Bill of material

Name **Name**	**Artikelnr.** **Item number**	**Artikelbezeichnung**	**Item description**
-W11	40.04.362	Kabel: Garraumbeleuchtung	Cable: interior cabinet light
-W17	40.04.994	Kabel: Steuerstamm	Cable: control harness
-W19	40.04.181	Kabel: Zusatzstamm Gas	Cable: power supply gas
-Y1	50.01.147	Magnetventil Füllen	Solenoid valve filling
-Y11	70.00.576	Gasventil D	Gas valve steam
-Y12/Y13	70.00.577	Y12: Gasventil HL1 / Y13: Gasventil HL2 201/202G	Y12: Gas valve hot air / Y13: Gas valve hot air (bottom)
-Y2	50.01.146	Magnetventil Steuerventil	Solenoid valve control valve
-Y5	22.00.725	Klimaventil	Clima valve
-Z1	40.01.483	Entstörfilter/Varistor	Electronic noise filter