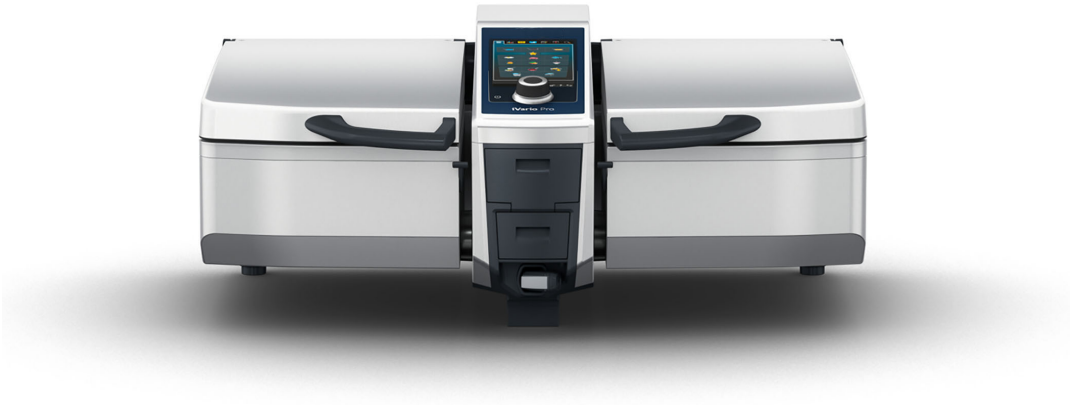
Service part catalogue

iVario® as of 03/2020 Pro 2-S (112) - 2 x 19 dm², 2 x 25 L

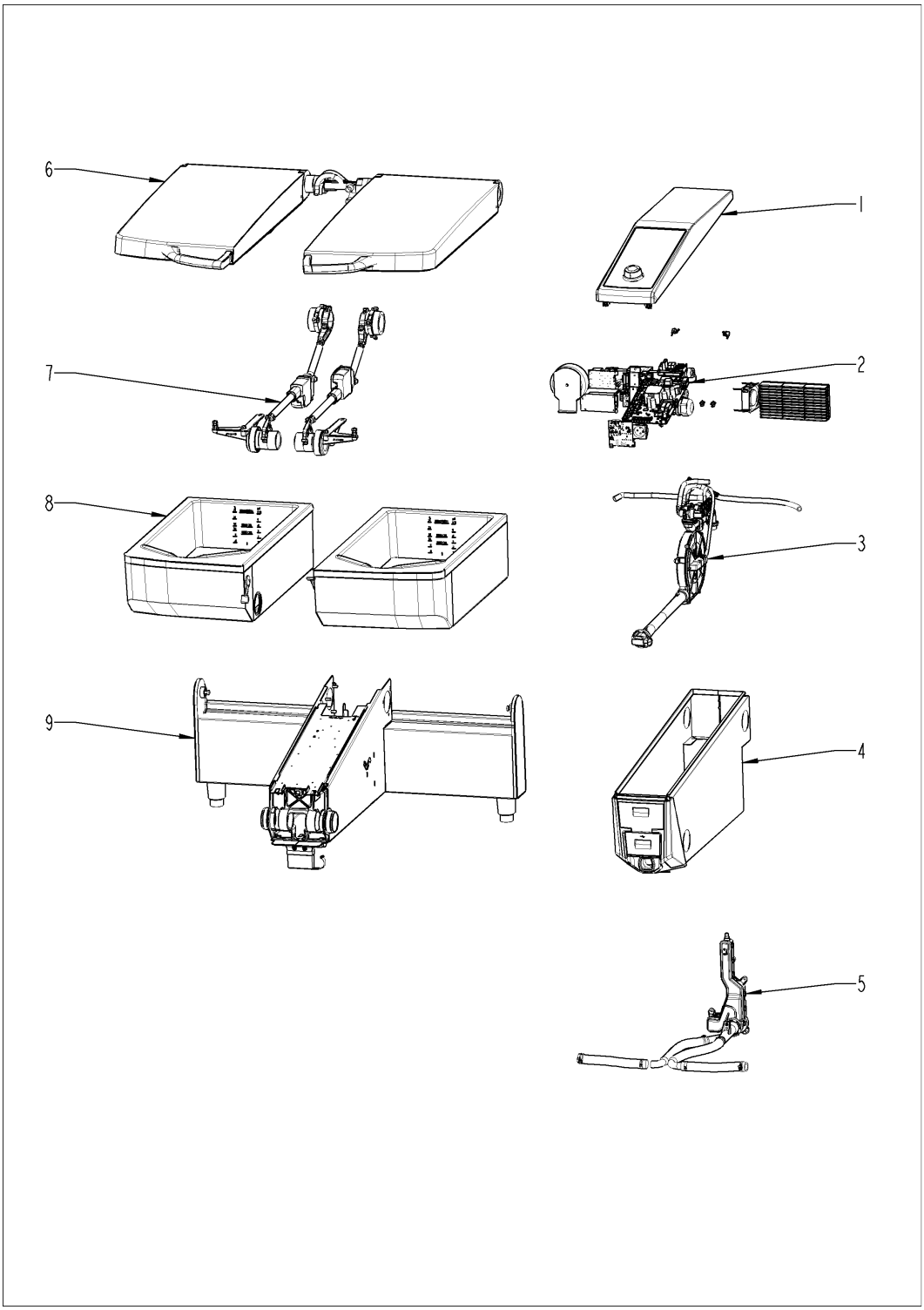
E11VK2210XXXXXXX



9/30/2024
3NAC400 V 50/60Hz

© Copyright by RATIONAL Technical Service
All Rights reserved

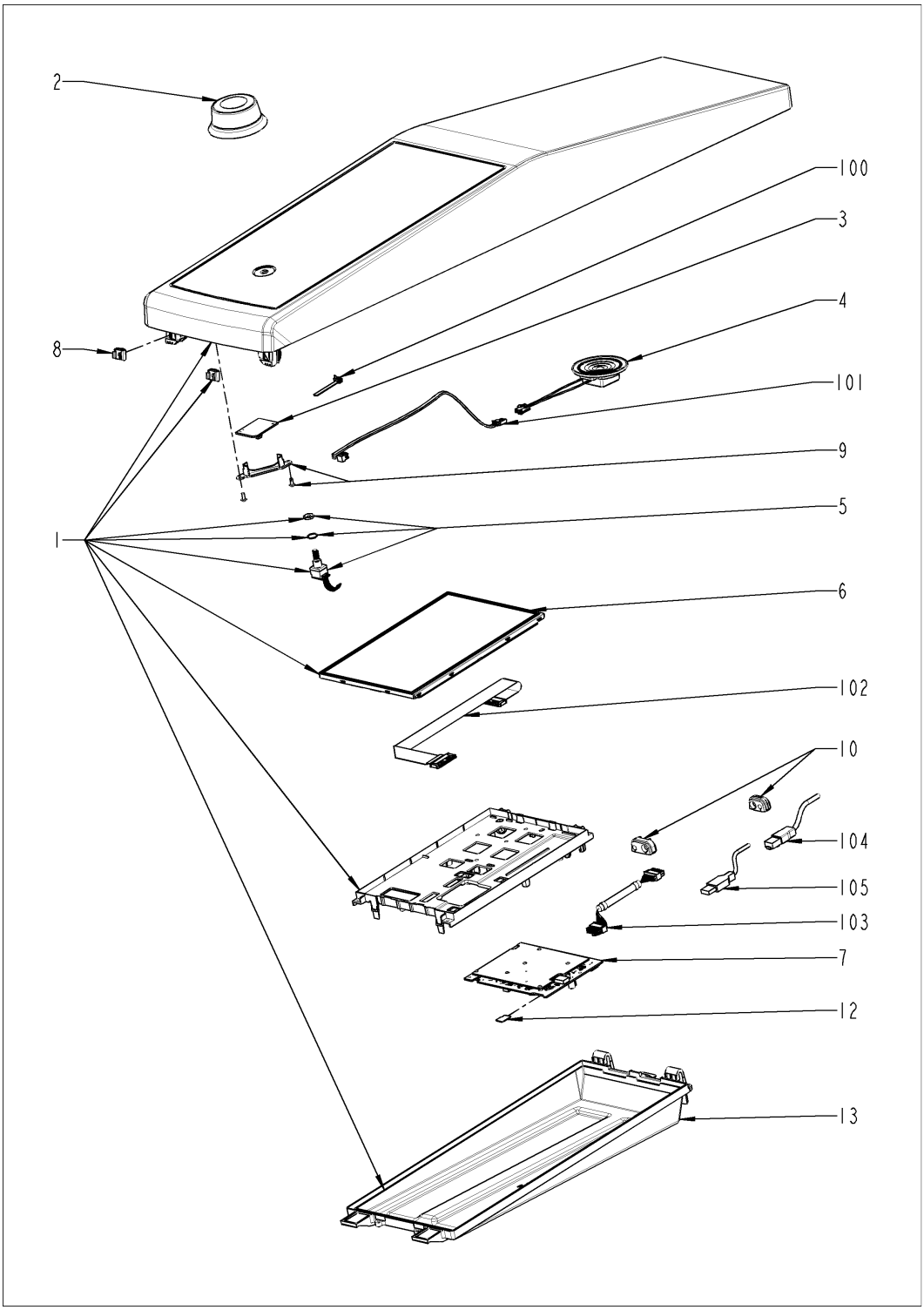
Overview



Overview

Pos. 1 Control panel	**4**
Pos. 2 Electrical installation	**6**
Pos. 3 Water distribution	**9**
Pos. 4 Console	**11**
Pos. 5 Water drain	**13**
Pos. 6 Lid	**15**
Pos. 7 Kinematic	**17**
Pos. 8 Pan	**19**
Pos. 9 Base structure	**25**
Pos. 20 Accessories	**28**
Pos. 30 Repair and retrofit kit	**48**

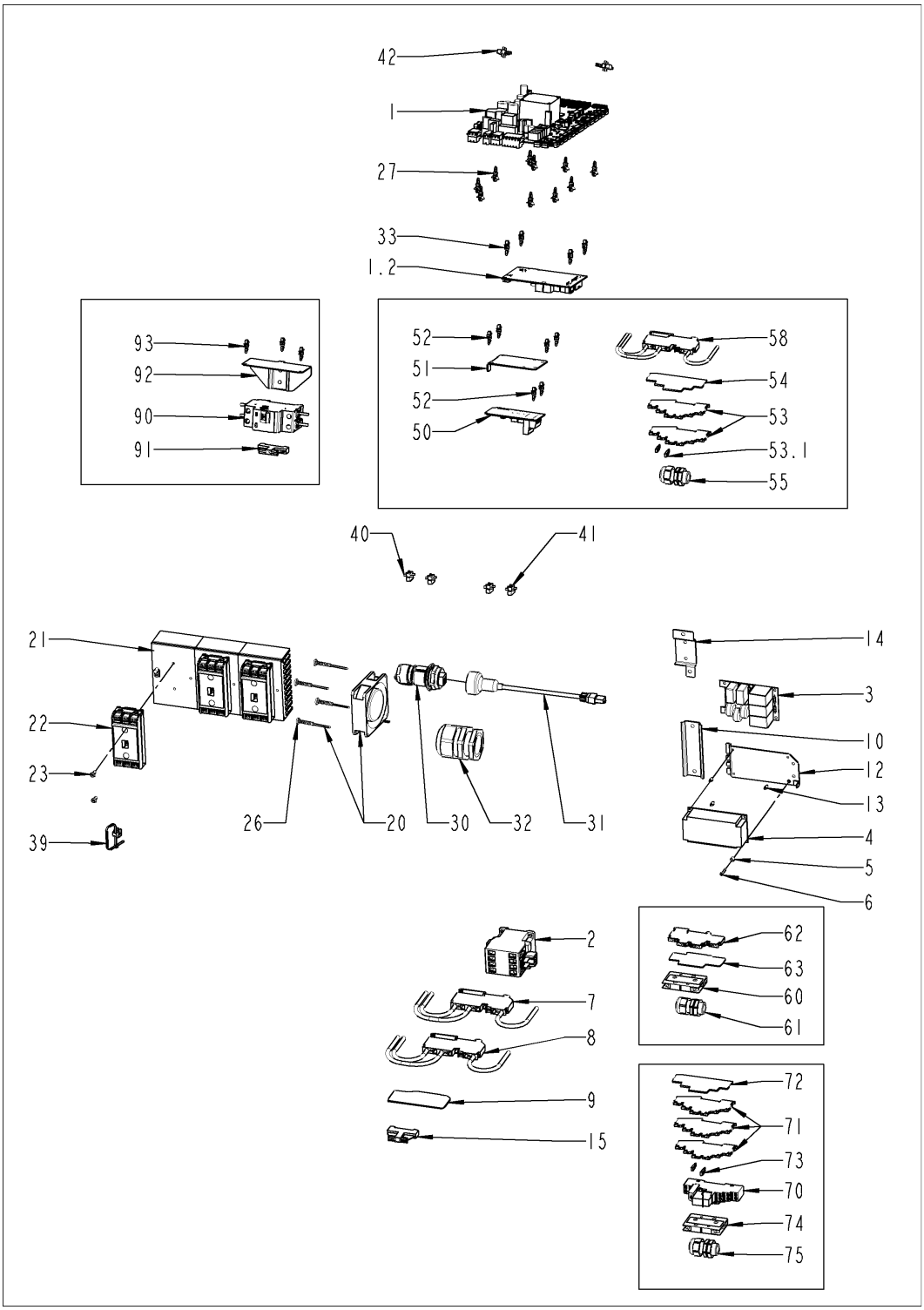
Pos. 1 Control panel



Pos. 1 Control panel

Pos.	Part no.	Description	Qty.
1	16.03.565P	Control panel RATIONAL	1
2	16.03.756P	Dial f. pulse generator	1
3	42.00.346P	Sensor on / off	1
4	40.07.746P	Loudspeaker SL 64 FR 8W	1
5	40.07.493P	Pulse generator	1
6	42.00.287P	Display *TFT*	1
7	42.00.251P	Control pcb (w/o SD-Card)	1
8	10.01.862P	Cage nut M5 for 1.7 up to 2.5mm	2
9	16.04.204S	On-Off sensor support	1
10	87.01.774S	Gasket kit for control panel cable	1
12	42.00.359P	Micro SD card	1
13	16.04.064P	Inner protective cover of the control panel	1
100	40.06.760P	Cable control pcb - capacitive switch	1
101	40.06.076P	Loudspeaker cable	1
102	40.06.569P	Cable CPU - TFT	1
103	40.06.103P	Bus cable 0,7m	1
105	40.06.583P	Interface cable USB 1,4m	1

Pos. 2 Electrical installation



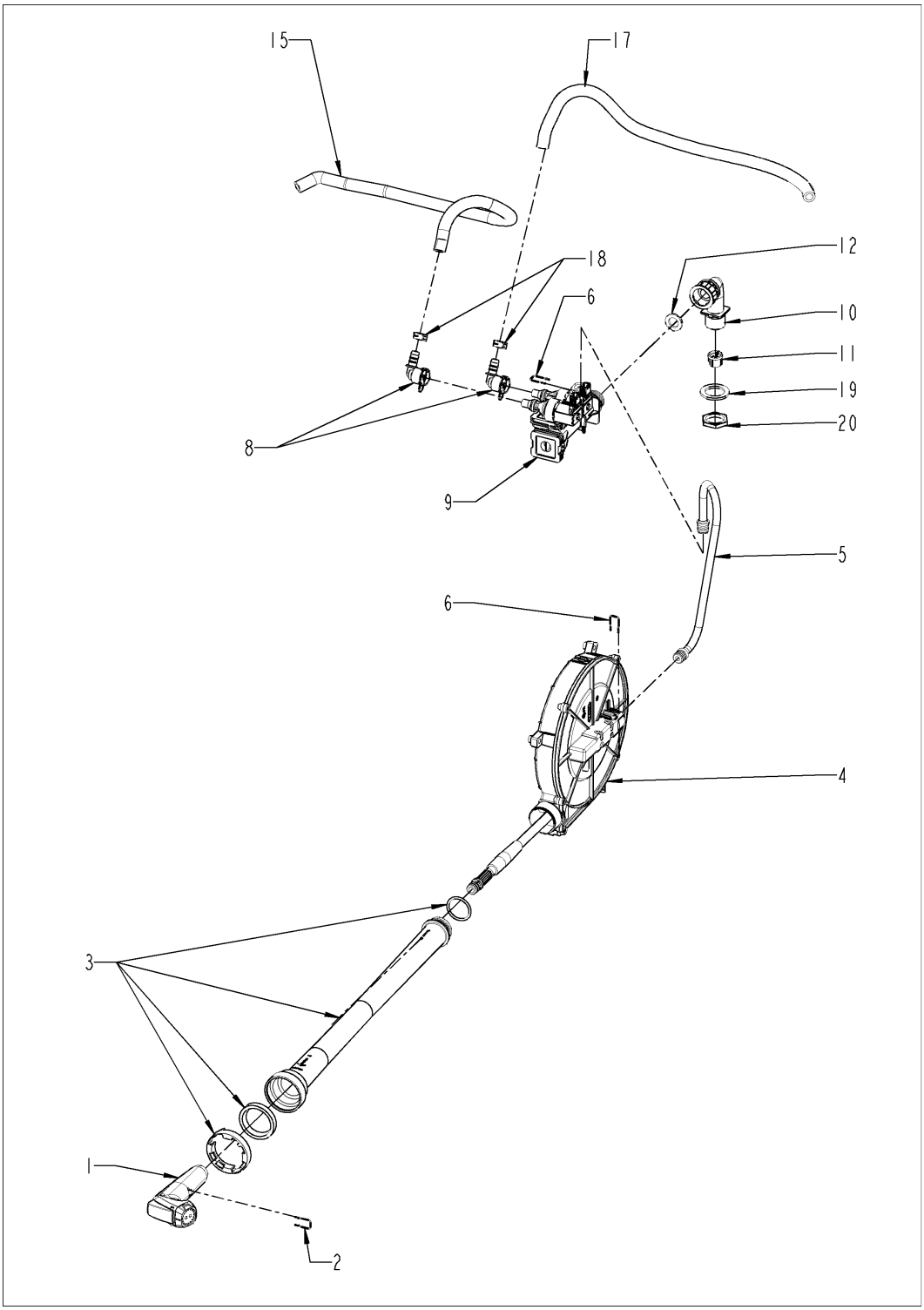
Pos. 2 Electrical installation

Pos.	Part no.	Description	Qty.
1	87.01.860S	Relay-I/O pcb A10	1
1.1	40.06.252P	Termination resistor	1
1.2	42.00.413P	I/O movement PCB A13	1
1.3	40.07.637P	Bus cable for A13 I/O board	1
2	40.07.420P	Contactor K3-18NBV10 190R T B01 AZ	1
3	42.00.322P	Electronic noice filter	1
4	40.06.712P	Power supply	1
5	10.01.907P	Spacer Ø int = 3,2mm, H = 6mm	1
6	10.00.144P	Socket cap screw M3x16mm	1
7	40.06.427P	Double level terminal block 10mm² blue	1
8	40.04.643P	Double leven earth terminal 10mm² yellow/green	1
9	40.07.120P	End flask for block APFN 6 D1/2/35	1
10	12.02.769P	Installation rail for Contactor Din 46277	1
12	12.02.985P	Power supply support	1
13	10.01.906P	Printed circuit board holder, clip-on H=6mm	3
14	12.02.902P	Contactor support	1
15	4001.1203P	End plate for mounting rail	1
20	40.06.806S	Cooling fan	1
21	40.06.028P	Heat sink 1 SSR	3
22	40.01.589P	Solid state relais	4
22.1	40.05.670P	Solid state relais	1
23	10.02.263P	Raised countersunk head screw Torx M4x10 T20	10
26	10.01.339P	Fixing Elastomer	4
27	10.01.336P	Plastic spacer 7mm 12	11
30	40.06.327P	Interface LAN IPX6	1
31	40.06.732P	Interface cable LAN 2,3m	1
32	40.02.594P	Screwed cable gland PG 29	1
33	10.01.336P	Plastic spacer 7mm 12	4
39	10.02.547P	Edge clip for SSR wiring	1
40	40.06.710P	Micro switch bundle lifting cylinder left S23/S24 X138	1

iVario® as of 03/2020 Pro 2-S (112) - 2 x 19 dm², 2 x 25 L, E11VK2210XXXXXXX

Pos.	Part no.	Description	Qty.
41	40.06.711P	Micro switch bundle lifting cylinder right S29/S30 X138	1
42	40.06.709P	Micro switch bundle lid up S10/S12 X150	1
90	40.05.437P	Residual current operated circuit breaker 25A 30mA	1
91	4001.1203P	End plate for mounting rail	1
92	12.03.058P	Differential switch fixiing device	1
93	10.02.200P	Plastic clip spacer 4.8mm	3
94	40.07.424P	Wiring harness for option "Differential switch"	1
100	40.07.530P	Control harness	1
103	40.07.883P	Additional control harness SSR	1
109	40.04.656P	Micro switch NC, NO with strip	1

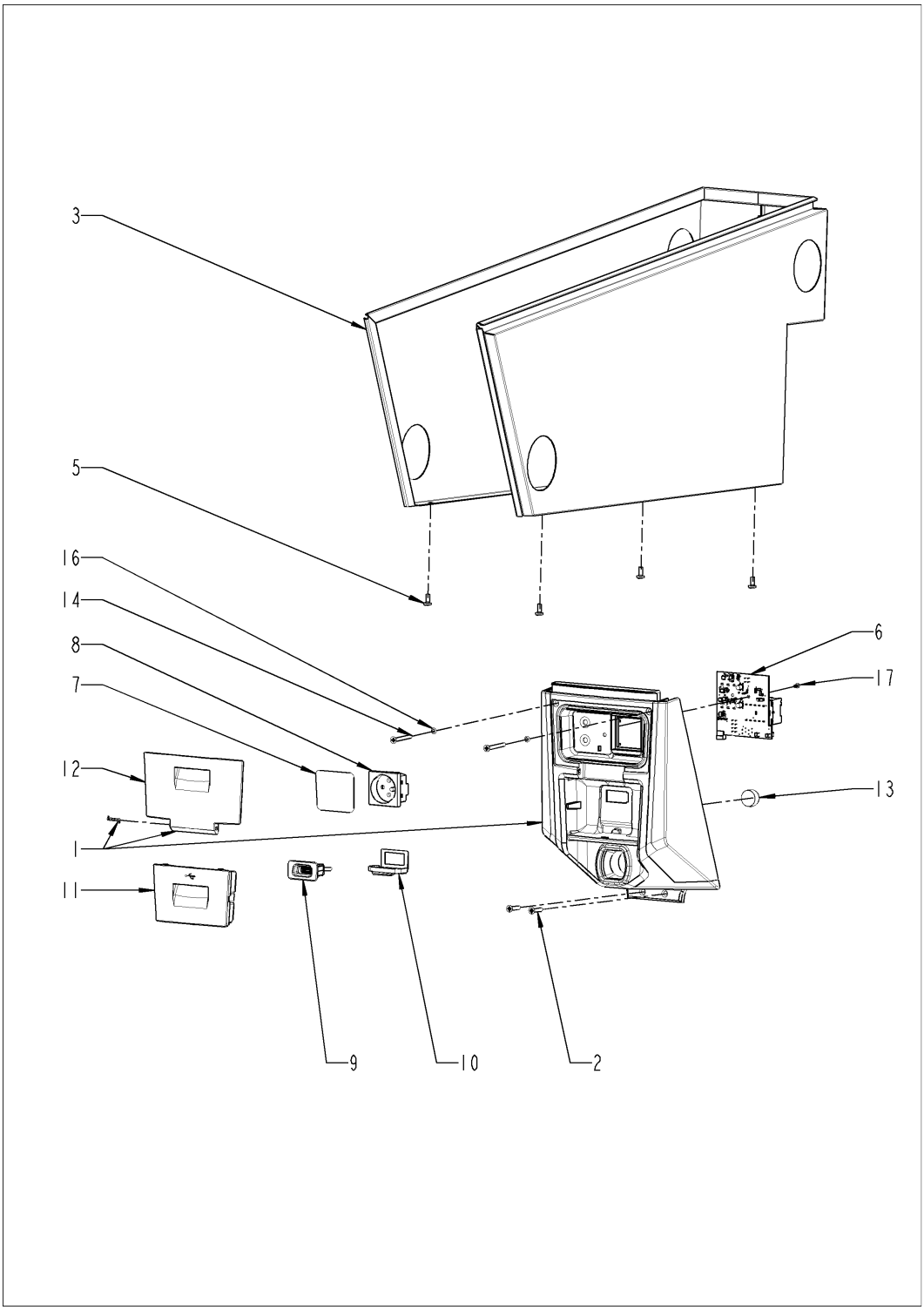
Pos. 3 Water distribution



Pos. 3 Water distribution

Pos.	Part no.	Description	Qty.
1	52.00.127S	Hand shower black	1
2	50.00.156P	Clamp f. hand shower roll guide	1
3	87.01.615S	Connection pipe hand shower roll guide	1
4	52.00.085P	Hand shower roll guide	1
5	52.00.094P	Hand shower roll guide water supply	1
6	50.00.085P	Retractor locking spring	2
8	52.00.017P	Angle plug PS3 6-6-90°	2
9	50.02.064P	Double solenoid valve block with flowmeter	1
10	50.02.087P	Elbow fitting 3/4" M/F	1
11	1900.0202P	Water filter	1
12	50.02.337P	Gasket for G3/4" threaded joint	1
18	10.02.239P	Hose clamp clic R86-145	2
19	50.02.351P	Gasket 26.8x38.8x3mm	1
20	50.02.325P	Fixing nut 3/4"	1
100	40.07.208P	Flowmeter cable	1

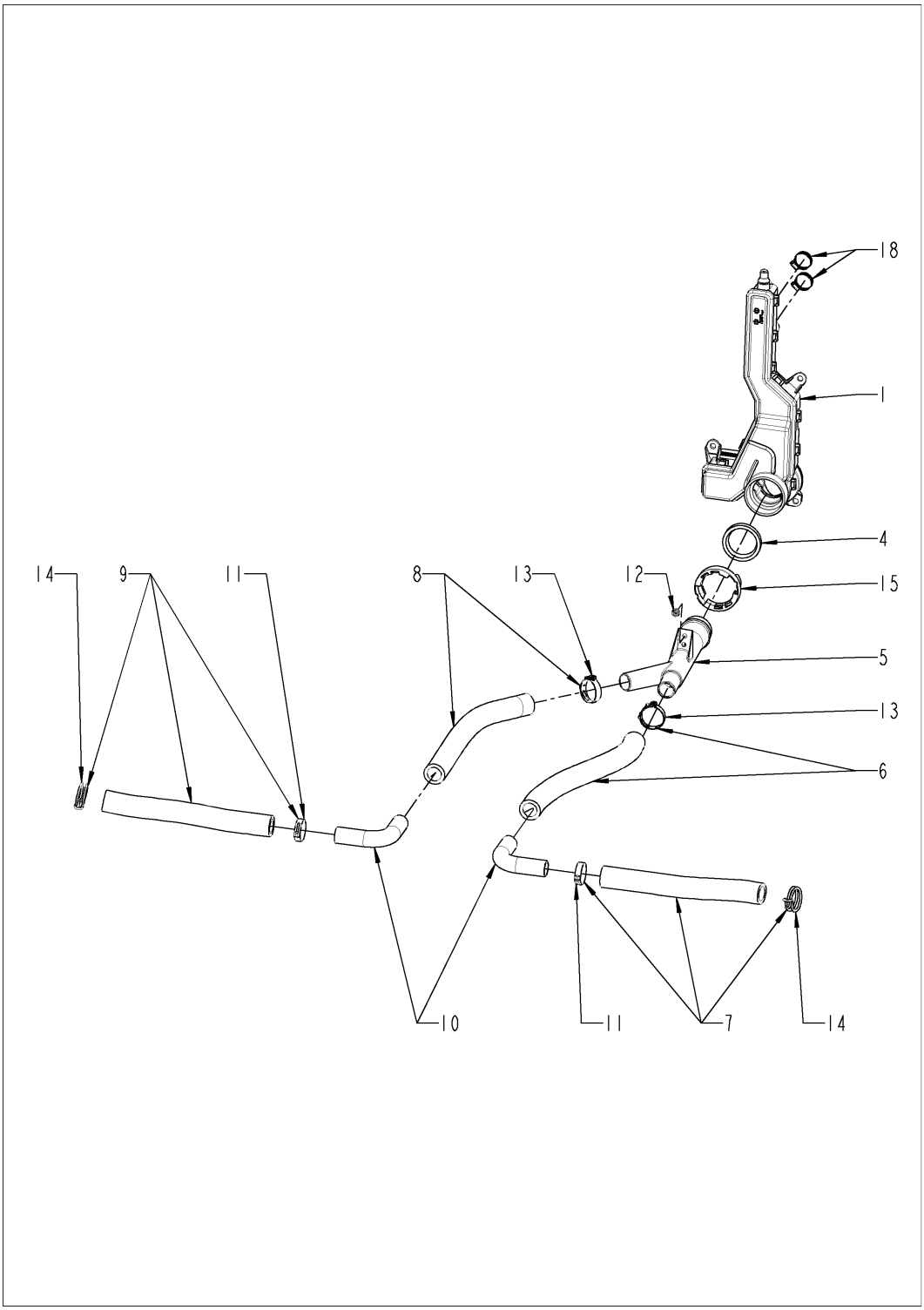
Pos. 4 Console



Pos. 4 Console

Pos.	Part no.	Description	Qty.
1	16.03.791P	Front panel console	1
2	10.01.669P	Slot counter head secur screw M5X20 Phillips	2
3	16.03.859P	Chassis central panelling	1
5	10.01.615P	Pan head screw Torx M5x16	4
6	42.00.356P	Protection board for socket outlet protection	1
7	16.04.236P	Shutter sticker option without differential protection	1
8	40.02.096P	Socket 2P+T 10A (CH)	1
9	40.06.583P	Interface cable USB 1,4m	1
10	40.06.045P	USB socket cover	1
11	16.03.878P	Front panel cover for USB assembly	1
12	16.03.997P	Socket flap	1
13	24.02.804P	Magnet 22x10mm	1
14	10.01.923P	Counter head screw M5x45 DIN965-H	2
16	10.02.001P	Gasket D4/8 x1	2
17	10.01.899P	Pan head screw Torx Delta PT WN5412 30x8 A2	1

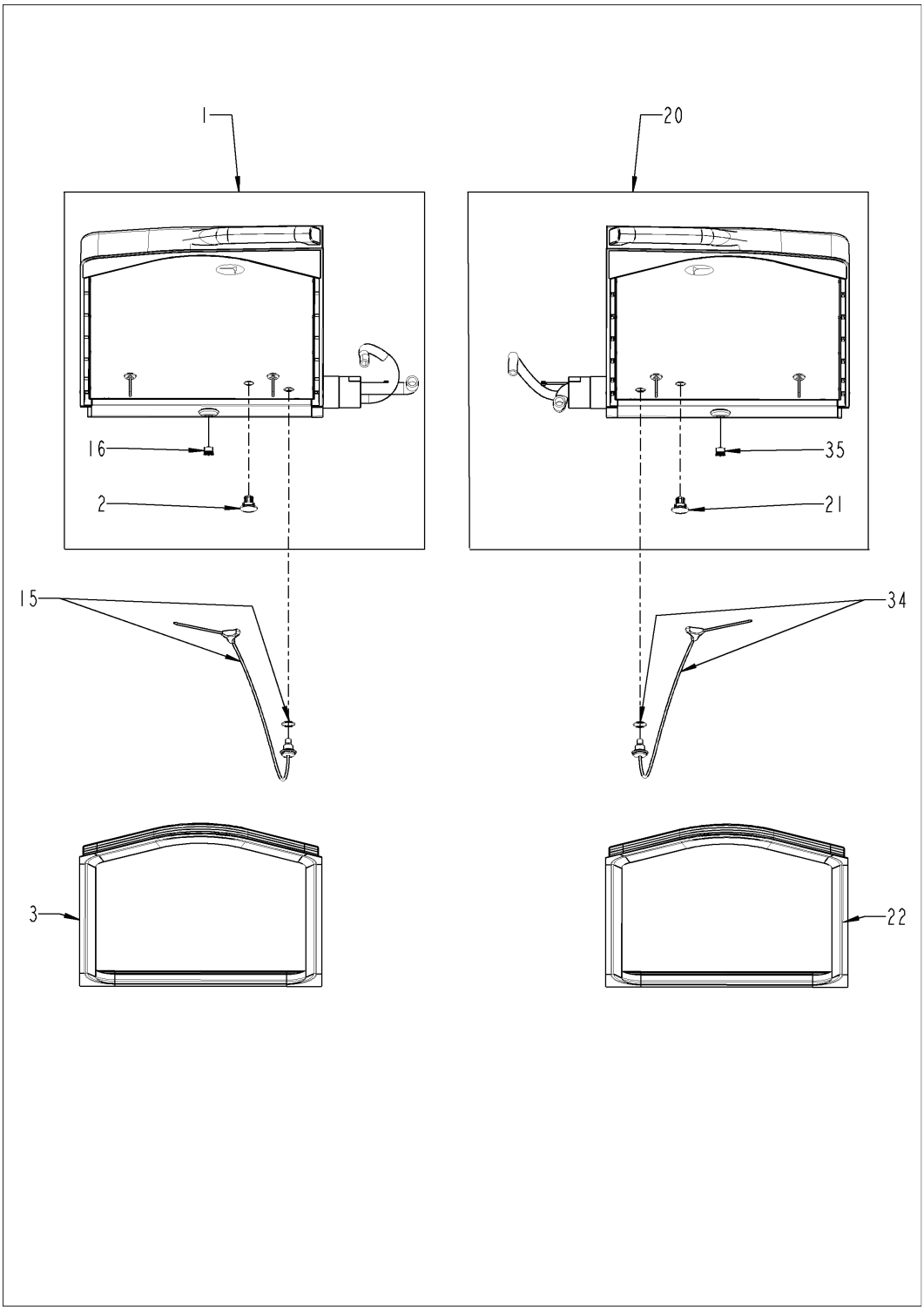
Pos. 5 Water drain



Pos. 5 Water drain

Pos.	Part no.	Description	Qty.
1	54.02.063P	Control chamber	1
4	54.01.935P	Lip seal D40	1
5	54.01.899P	Discharge pipe 2xØ22/Ø40	1
6	54.01.997S	Drain hose	1
7	54.01.996S	Pan drain pipe	1
8	54.01.997S	Drain hose	1
9	54.01.996S	Pan drain pipe	1
10	50.01.670P	Ellbow stainless 90° Ø22x1	2
11	10.01.446P	Hose clamp clic R96-300	2
12	10.01.054P	Hexagonal nut with notched flange M5	1
13	10.02.238P	Hose clamp clic R96-315	2
14	2066.0522P	Hose clamp ø 31,3 mm	2
15	54.02.053P	Locking ring	1
18	10.02.313P	Clamp 21,8-27	2

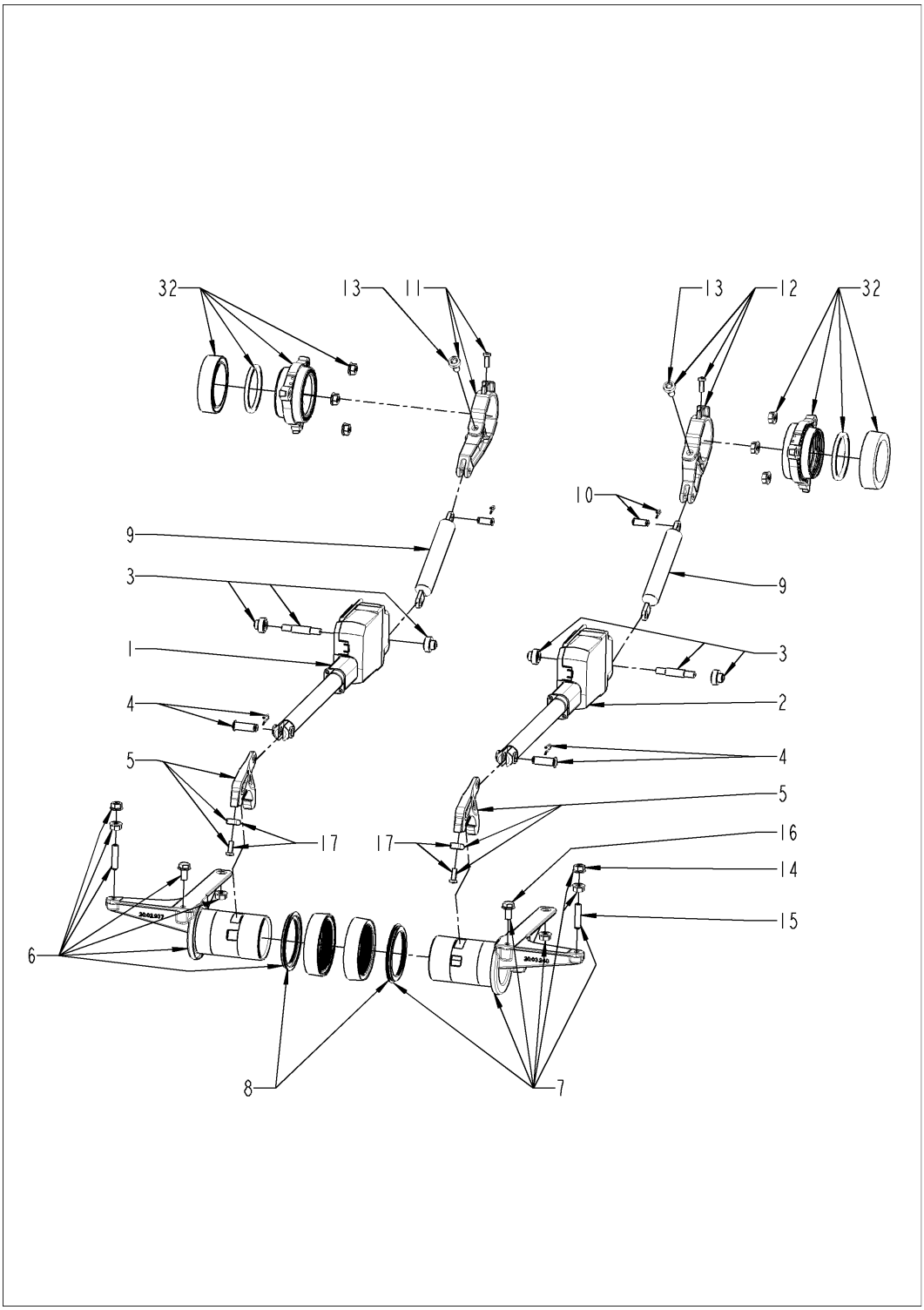
Pos. 6 Lid



Pos. 6 Lid

Pos.	Part no.	Description	Qty.
1	24.04.293S	Lid left	1
2	24.04.711P	Cover for pressure connection	1
3	24.04.951P	Lid gasket	1
15	40.07.165S	Core temperature probe	1
16	50.02.248S	Aerator with service key	1
20	24.04.292S	Lid right	1
21	24.04.711P	Cover for pressure connection	1
22	24.04.951P	Lid gasket	1
34	40.07.164S	Core temperature probe, right lid	1
35	50.02.248S	Aerator with service key	1

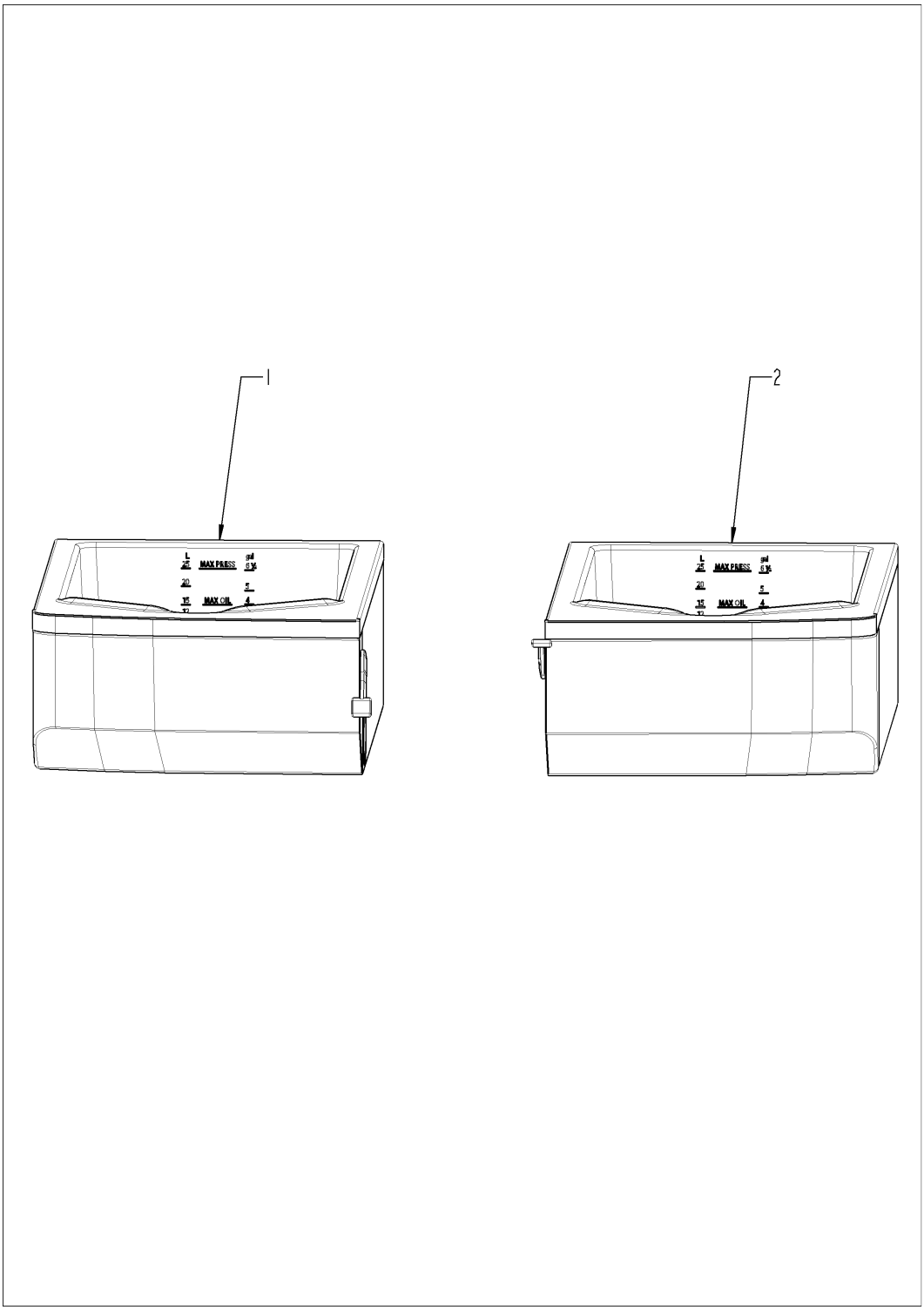
Pos. 7 Kinematic



Pos. 7 Kinematic

Pos.	Part no.	Description	Qty.
1	20.03.678P	Lifting cylinder for pan and lid	1
1.1	40.08.011P	Motor harness M2-M6 / X138-X139	1
2	20.03.678P	Lifting cylinder for pan and lid	1
2.1	40.08.011P	Motor harness M2-M6 / X138-X139	1
3	24.04.882S	Axis Autolift	2
4	20.02.130S	Shaft jack	2
5	20.02.872S	Lift arm for pan	2
6	20.02.937S	Left pan shaft	1
7	20.03.248S	Pan shaft right	1
8	20.04.049P	Sealing ring for pan shaft	2
9	24.04.307P	Jack gas 900N	2
10	24.04.155S	Shaft jack D8 with staple pin	1
11	24.03.808S	Lift arm for lid left	1
12	24.04.148S	Lift arm for lid right	1
13	10.01.616P	Pan head screw Torx T40 M8x16	2
14	10.01.851P	Collar nut M8 locking teeh	6
15	10.02.329P	Hex socket set screw cup point A2 M8x40 Tuflok	2
16	1008.0768P	Ornamental screw M8x16	2
17	20.02.588S	Fixing plate lever pan	2
32	24.04.424S	Lid bearing with sealing ring	2
100	40.04.656P	Micro switch NC, NO with strip	1

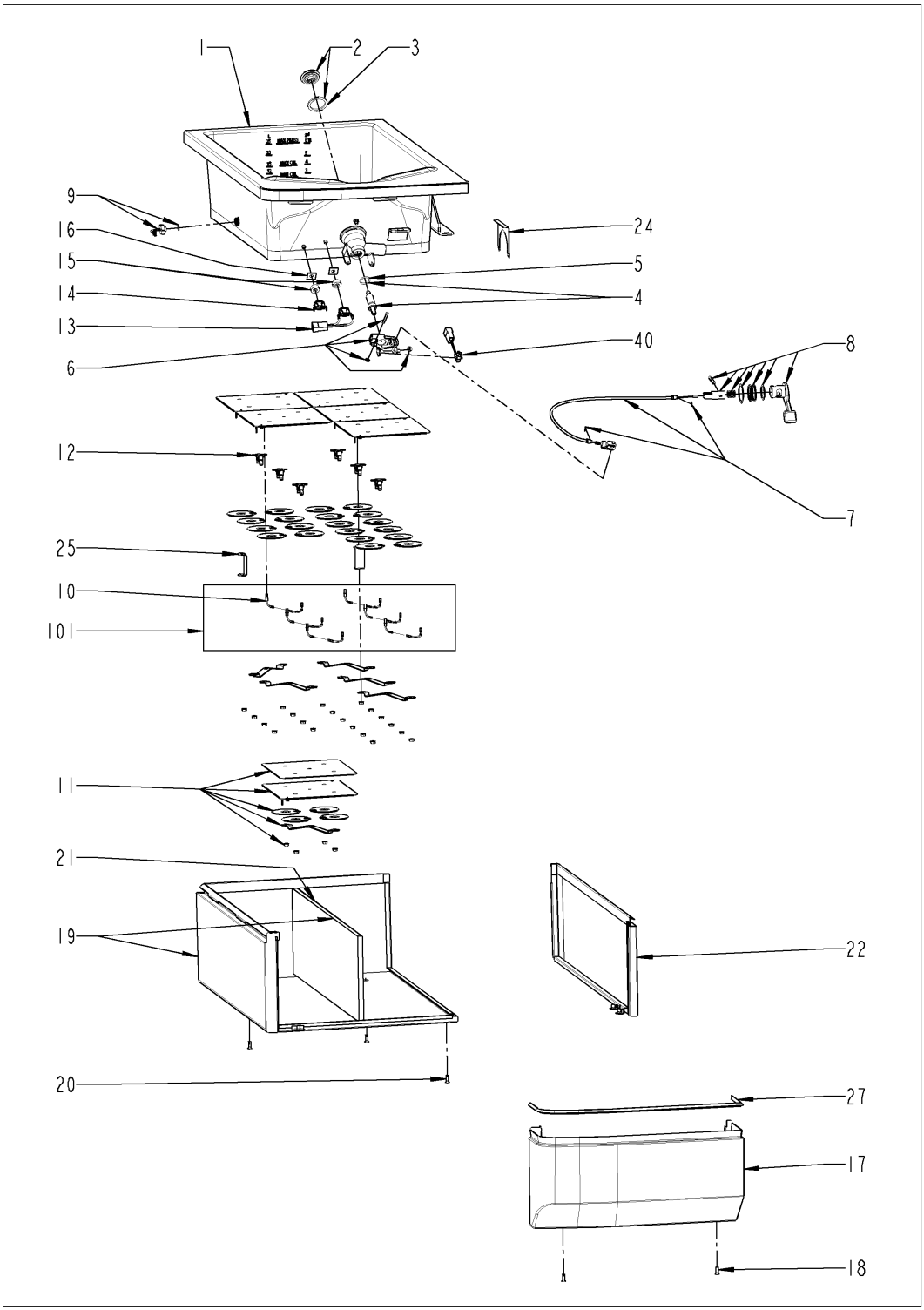
Pos. 8 Pan



Pos. 8 Pan

Pos.	Part no.	Description	Qty.
1		Pan left	1
2		Pan right	1

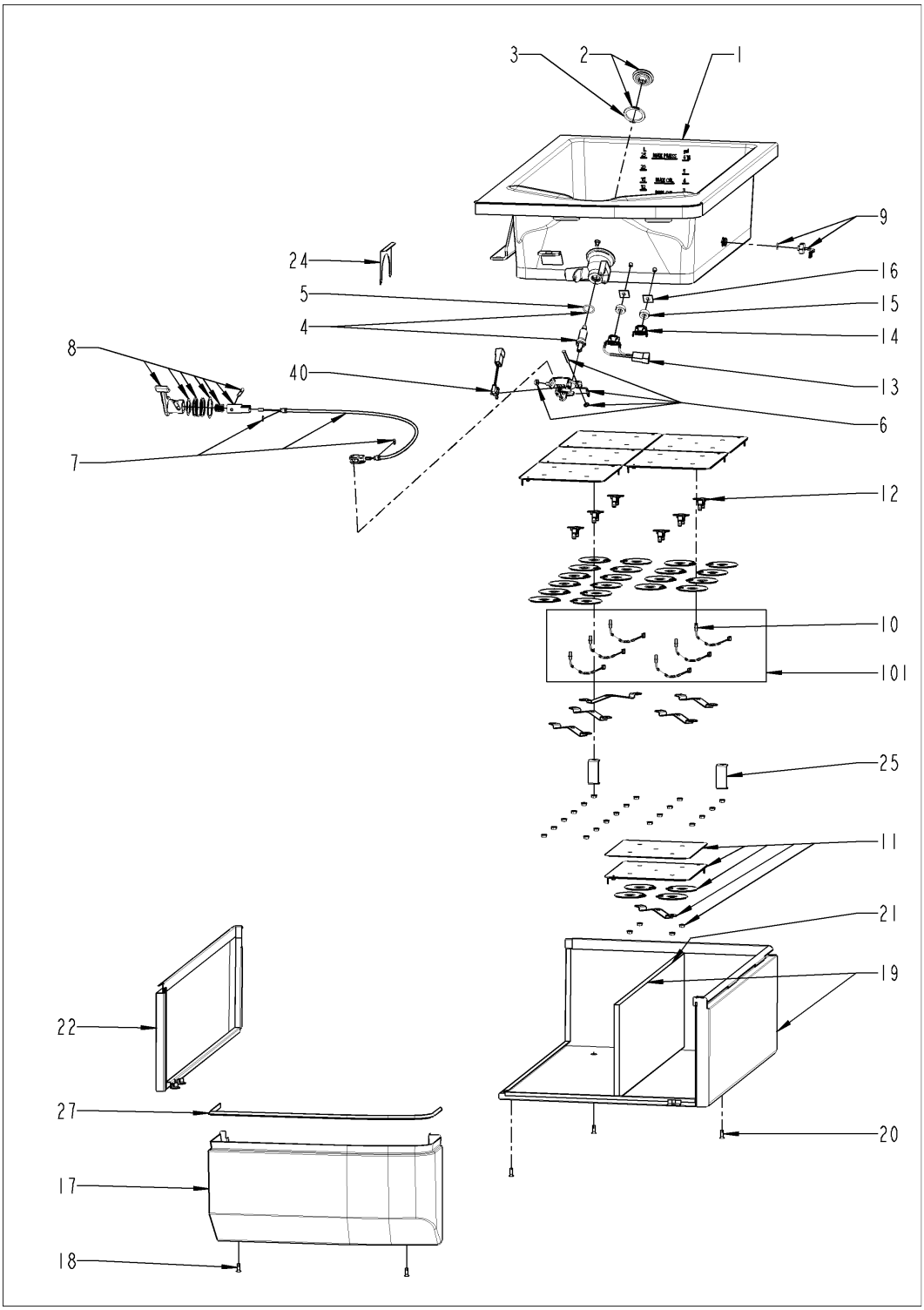
Pos. 1 Pan left



Pos. 1 Pan left

Pos.	Part no.	Description	Qty.
1	87.01.775S	Kit pan left without pressure	1
2	20.01.712S	Plug for pan valve with gasket	1
3	20.00.992P	Gasket for plug pan valve	1
4	20.00.905S	Sheath for pan valve	1
5	10.00.675P	O-ring f. pan valve 17.3 x 2.4	1
6	20.04.036S	Actuation for pan valve	1
7	20.02.168P	Pan valve cable	1
8	87.00.618	Control lever left of pan valve	1
9	40.06.857S	Thermocouple pan left	1
10	87.00.339	Thermocouple for heating element	1
11	87.00.674	Conversion kit heating element 2287W 230V	6
12	40.04.370P	Safety temperature limiter heating element	6
13	40.04.501P	Safety temperature limiter 130°	1
14	40.04.512P	Safety temperature limiter 205°C	1
15	20.01.508P	Spacer for safety temperature limiter	2
16	20.01.518P	Graphit plate for safety temperature limiter	2
17	20.03.563P	Left pan front panel	1
18	10.01.808P	Hex socket countersunk head screw M5x16	2
19	20.03.877P	Side panel left of pan left	1
20	10.01.808P	Hex socket countersunk head screw M5x16	3
21	20.03.472P	Pan insulation	1
22	20.03.869P	Side panel right for pan left	1
24	20.03.324P	Clip of pan side panel	1
25	20.03.265P	Mounting angle for pan panel	2
27	20.03.466P	V-profile gasket	1
40	40.05.712P	Micro switch pan valve position	1
100	40.05.944P	Power harness heating element pan left	1
101	40.05.931P	Thermocouple harness left and right	1

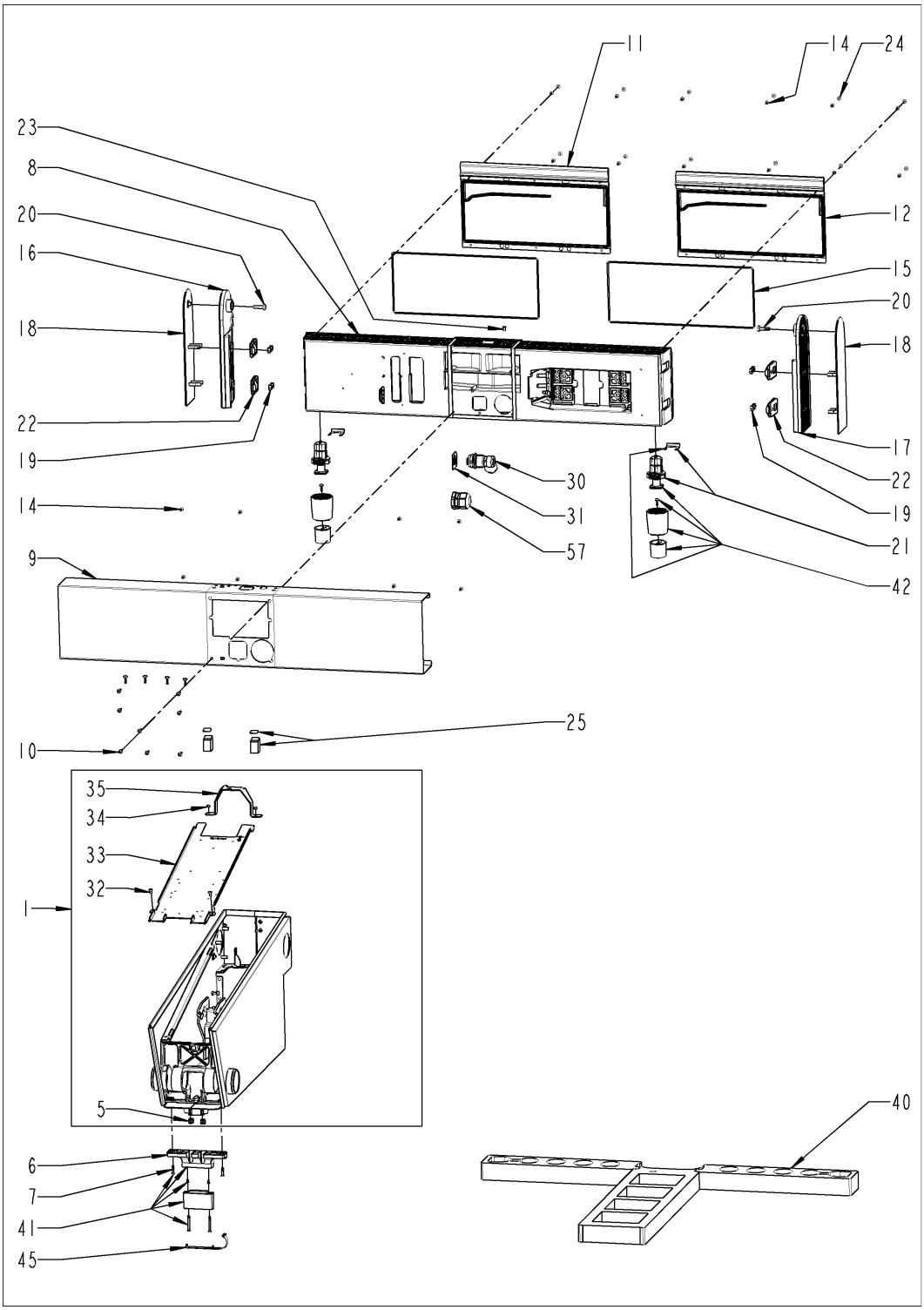
Pos. 2 Pan right



Pos. 2 Pan right

Pos.	Part no.	Description	Qty.
1	87.01.776S	Kit pan right without pressure	1
2	20.01.712S	Plug for pan valve with gasket	1
3	20.00.992P	Gasket for plug pan valve	1
4	20.00.905S	Sheath for pan valve	1
5	10.00.675P	O-ring f. pan valve 17.3 x 2.4	1
6	20.04.036S	Actuation for pan valve	1
7	20.02.168P	Pan valve cable	1
8	87.00.619	Control lever right of pan valve	1
9	40.06.858S	Thermocouple pan right	1
10	87.00.339	Thermocouple for heating element	1
11	87.00.674	Conversion kit heating element 2287W 230V	6
12	40.04.370P	Safety temperature limiter heating element	1
13	40.04.501P	Safety temperature limiter 130°	1
14	40.04.512P	Safety temperature limiter 205°C	1
15	20.01.508P	Spacer for safety temperature limiter	2
16	20.01.518P	Graphit plate for safety temperature limiter	2
17	20.03.565P	Right pan front panel	1
18	10.01.808P	Hex socket countersunk head screw M5x16	2
19	20.03.881P	Side panel right of pan right	1
20	10.01.808P	Hex socket countersunk head screw M5x16	3
21	20.03.472P	Pan insulation	1
22	20.03.873P	Side panel left of pan right	1
24	20.03.324P	Clip of pan side panel	1
25	20.03.265P	Mounting angle for pan panel	2
27	20.03.466P	V-profile gasket	1
40	40.05.712P	Micro switch pan valve position	1
100	40.05.945P	Power harness heating element pan right	1
101	40.05.931P	Thermocouple harness left and right	1

Pos. 9 Base structure

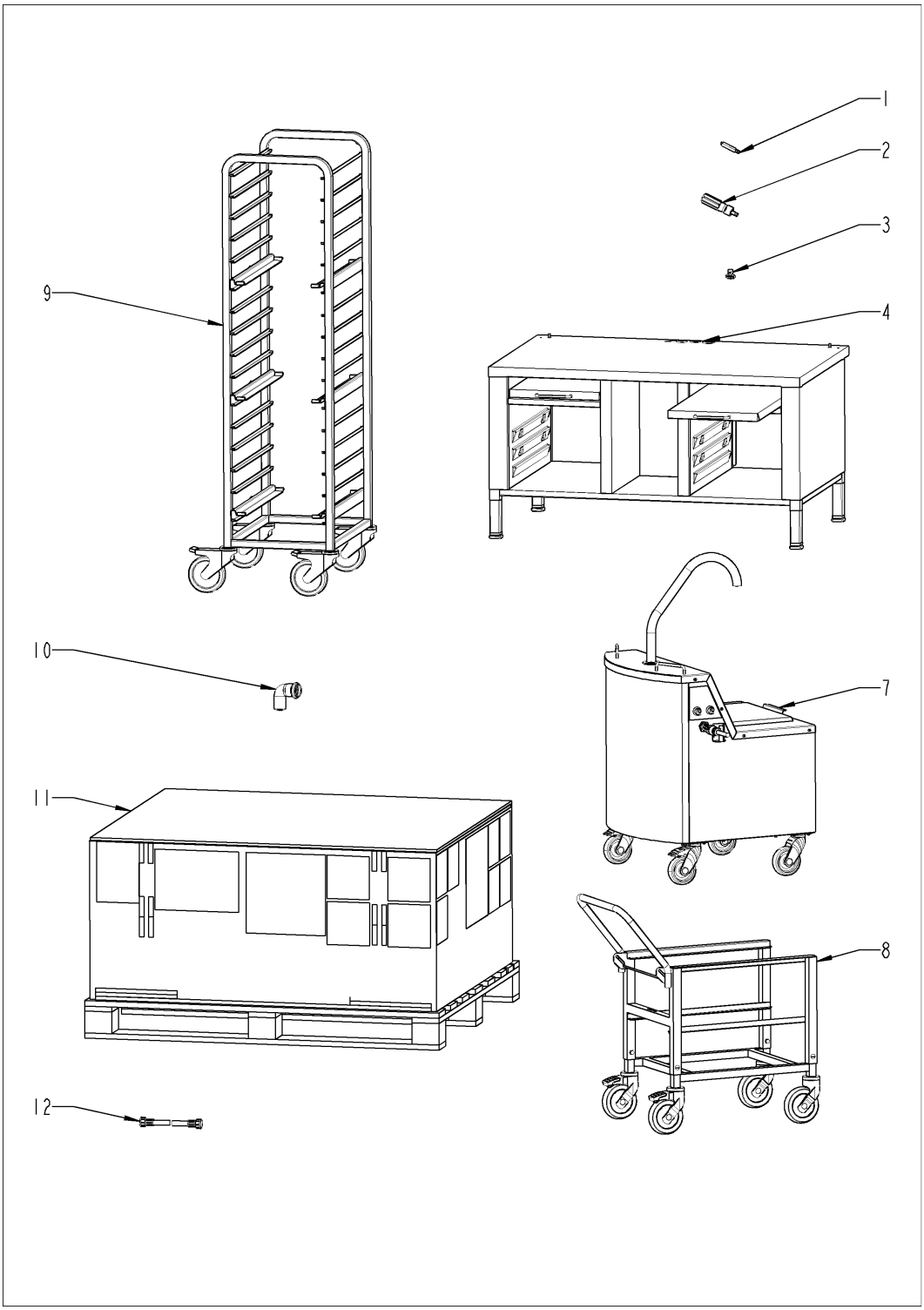


Pos. 9 Base structure

Pos.	Part no.	Description	Qty.
1	12.02.979P	Chassis central	1
5	10.01.862P	Cage nut M5 for 1.7 up to 2.5mm	2
6	12.02.707P	Front foot 45mm	1
7	10.01.669P	Slot counter head secur screw M5X20 Phillips	2
8	12.02.088P	Rear technical compartment	1
9	16.03.552P	Rear technical compartment panelling	1
10	10.01.842P	Pan head screw Torx Ejot PT WA5463 60x1,8x18	12
11	12.02.159P	Cover left - right for rear technical compartment	1
12	12.02.159P	Cover left - right for rear technical compartment	1
14	10.02.080P	Countersunk screw DELTA PT 50*16 T+25 A2	14
15	12.02.434P	Gasket for rear technical compartment cover	2
16	12.02.157P	Outer bearing for lid left	1
17	12.02.397P	Outer bearing for lid right	1
18	12.02.408P	Protection for lid outer bearing	2
19	10.01.851P	Collar nut M8 locking teeh	8
20	10.01.616P	Pan head screw Torx T40 M8x16	2
21	12.02.423S	Adjustable rear foot 45mm with locking clip	2
22	12.02.472P	Spacer for rear technical compartment	4
23	54.02.012P	Plug D7x10mm	1
24	10.02.227P	Cap for T25 Torx screws	14
25	12.01.855S	Shock absorber	2
30	40.06.327P	Interface LAN IPX6	1
31	12.02.450P	Fixing device for Ethernet connector	1
32	10.01.878P	Cylinder head screw torx M5x10	2
33	12.02.623P	Electric circuit board support	1
34	10.01.054P	Hexagonal nut with notched flange M5	2
35	12.02.643P	Slides linkage	1
40	87.01.834S	Foam support	1
41	87.01.591S	Front foot 90mm	1
42	87.01.590S	Rear foot 90mm	2

Pos.	Part no.	Description	Qty.
45	60.75.016P	Securing device for discharge pipe	1
57	40.02.594P	Screwed cable gland PG 29	1

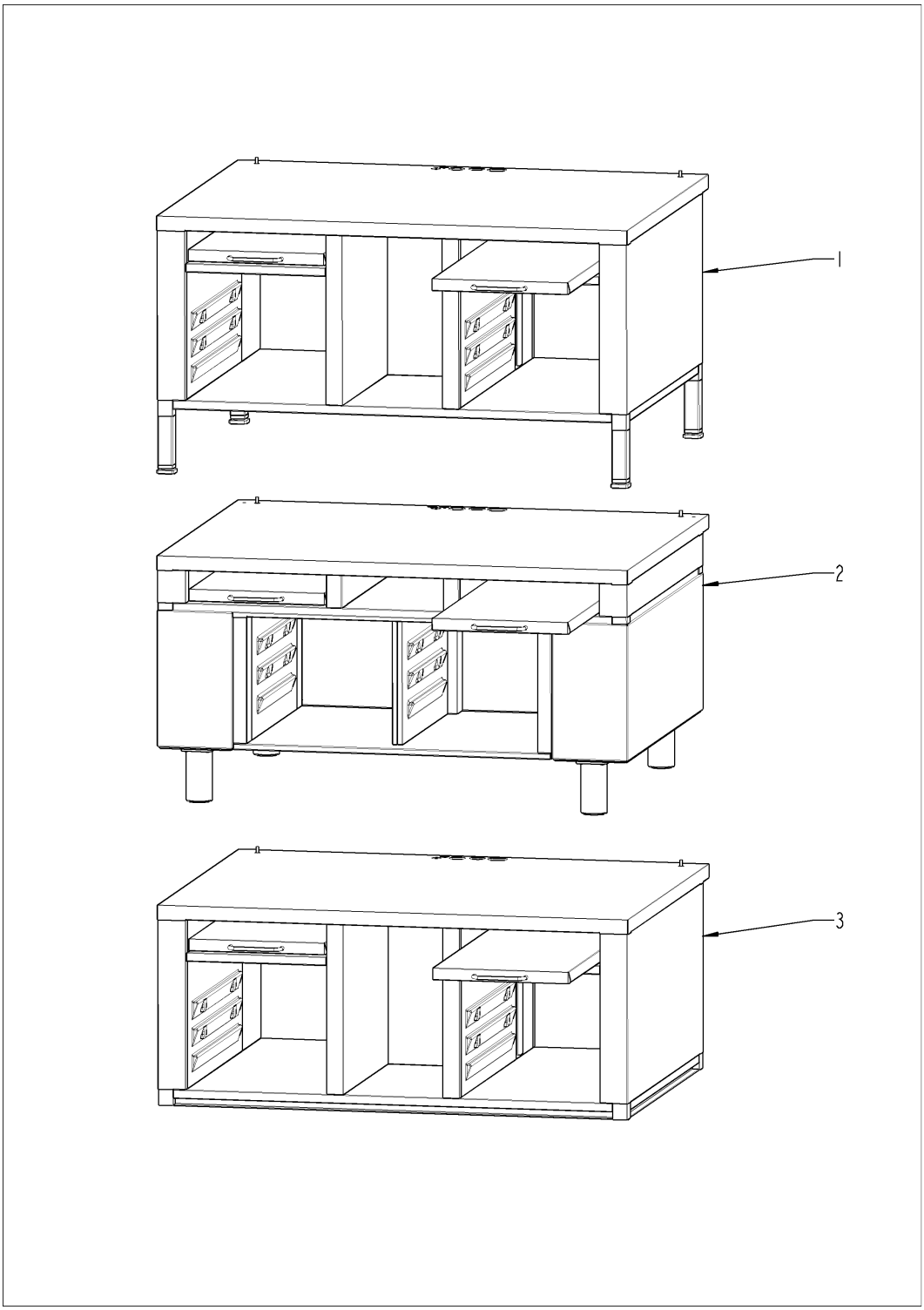
Pos. 20 Accessories



Pos. 20 Accessories

Pos.	Part no.	Description	Qty.
1	87.01.758	Memory-Stick USB iVario	1
2	W24001	Dynamometric screwdriver 4Nm	1
3	50.02.319P	Aerator service key	1
4		Installation variants	1
7		Oil cart	1
8		VarioMobil	1
9		Basket cart	1
10	87.00.745	Waste water connection kit	1
11	90.00.954	Complete packaging	1
12	50.01.711P	Hose for water supply 1500mm	1

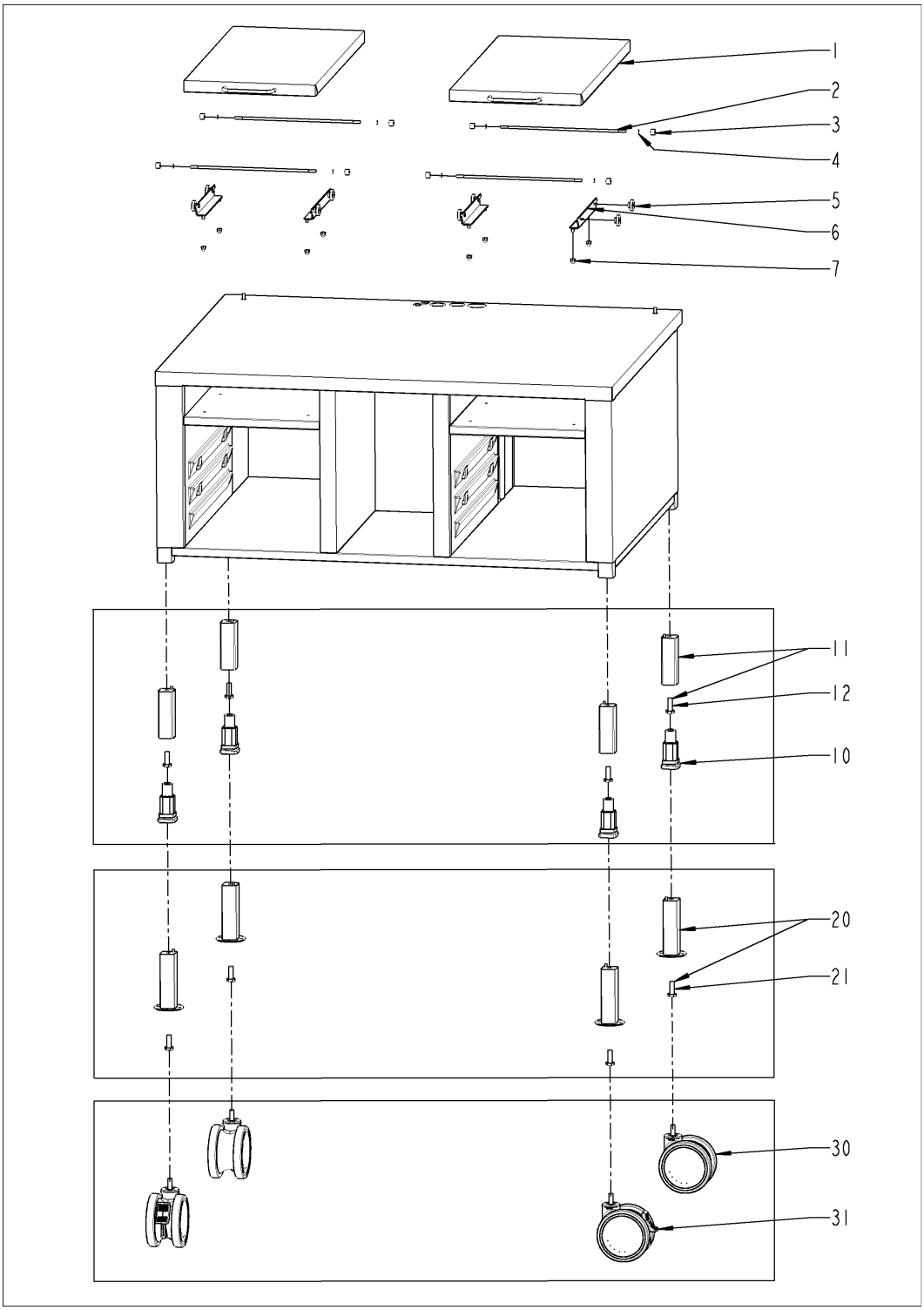
Pos. 4 Installation variants



Pos. 4 Installation variants

Pos.	Part no.	Description	Qty.
1		Underframe	1
2		Stand with electric height adjustment	1
3		Base installation kit	1

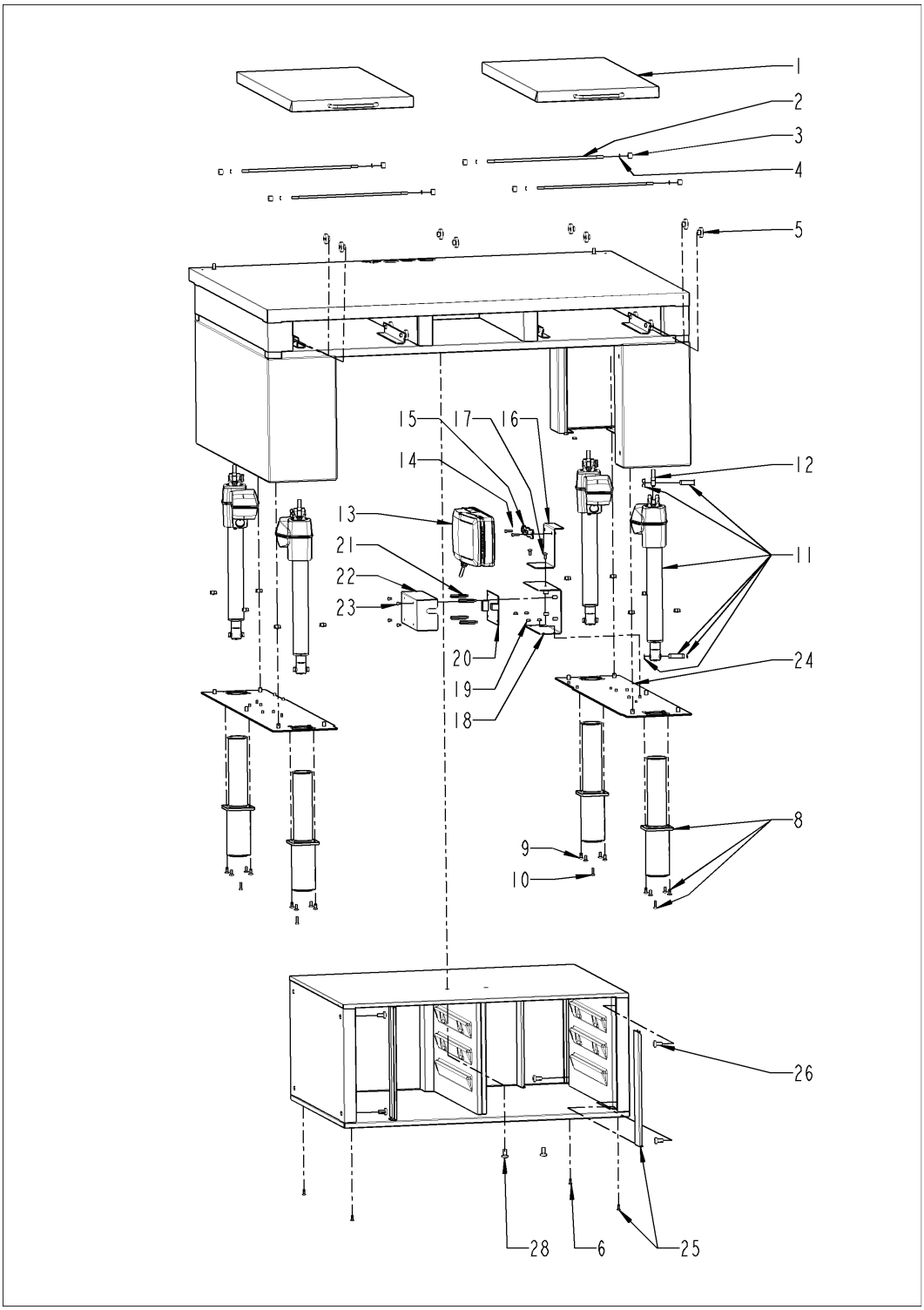
Pos. 1 Underframe



Pos. 1 Underframe

Pos.	Part no.	Description	Qty.
1	60.75.425P	Retractable shelf	2
2	60.30.928P	Stop for retractable shelf	4
3	2039.0326V	Spacer for pcb	8
4	10.02.229P	Circlips Øint 5mm	8
5	60.70.131P	Roller 25/6.5 HM5 stainless steel	8
6	60.76.712P	Drawer rail	4
7	1106.0360P	Cap nut M6, high shape	8
10	12.01.290P	Adjustable foot	4
11	60.75.429S	Plastic foot adaptor for substructure	4
12	1010.0761P	Hex screw M10x30	4
20	60.31.542S	Stainless steel substructure foot	4
21	1010.0761P	Hex screw M10x30	4
30	60.74.680P	Castor without brake ø125mm	1
31	60.74.681P	Castor with brake ø125mm	2

Pos. 2 Stand with electric height adjustment

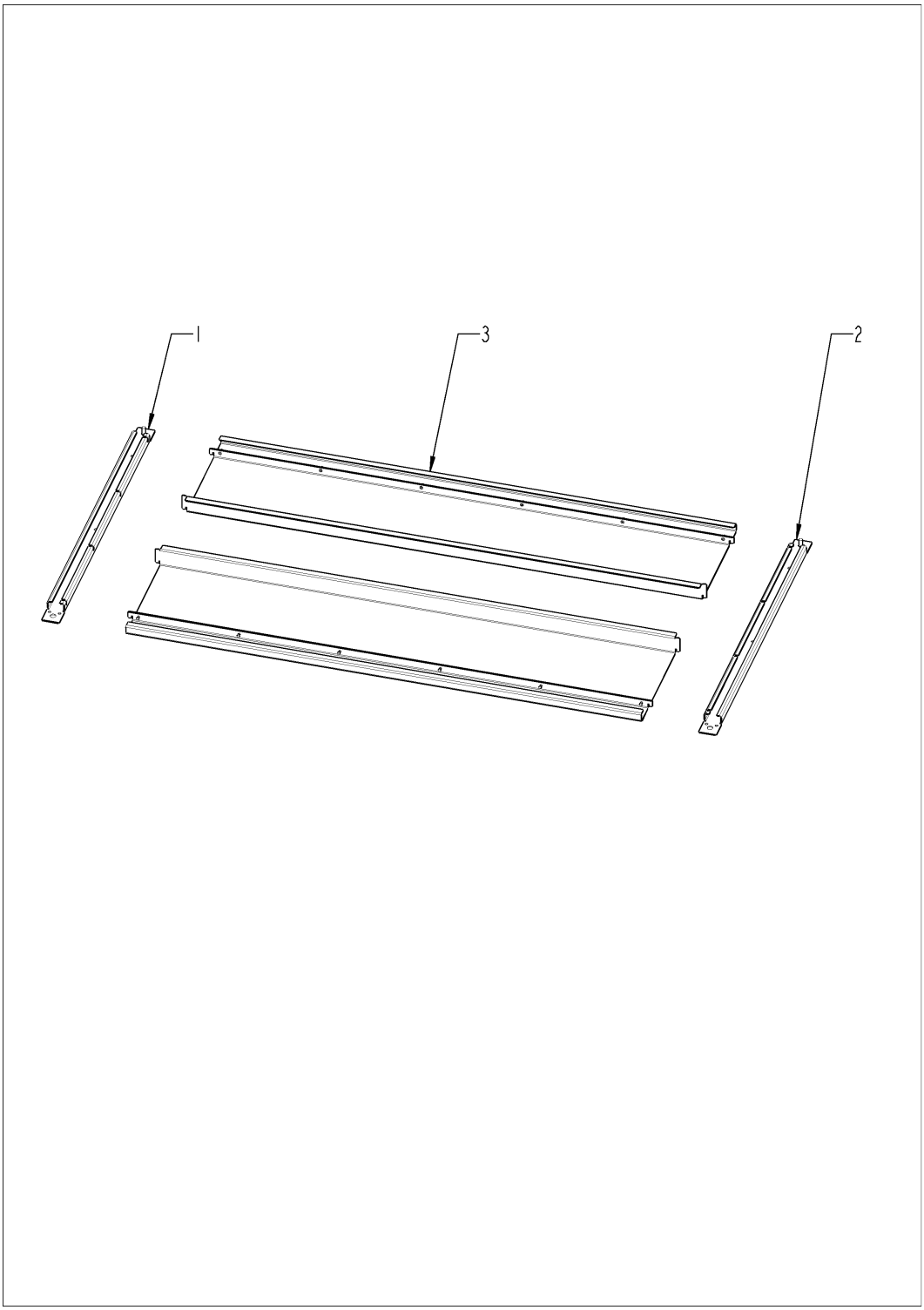


Pos. 2 Stand with electric height adjustment

Pos.	Part no.	Description	Qty.
1	60.75.425P	Retractable shelf	2
2	60.30.928P	Stop for retractable shelf	4
3	2039.0326V	Spacer for pcb	8
4	10.02.229P	Circlips Øint 5mm	8
5	60.70.131P	Roller 25/6.5 HM5 stainless steel	8
6	10.01.776P	Pan head screw Torx T20 M4x12	4
8	60.74.713S	Telescopic foot	4
9	10.01.912P	Crosshead screw M5x12	16
10	10.01.778P	Pan head screw Torx M4x16	4
11	87.01.759S	Lifting cylinder for height adjustable substructure	4
12	60.74.853P	Eye socket with threaded shank M8x20	4
13	42.00.305S	Module CO61	1
14	10.01.778P	Pan head screw Torx M4x16	2
15	42.00.342P	Holder for module CO61	1
16	42.00.351P	CO61 module carrier	1
17	10.01.912P	Crosshead screw M5x12	2
18	42.00.374P	Converter holder part 1	1
19	10.01.054P	Hexagonal nut with notched flange M5	4
20	42.00.352P	RS232 converter for adjustable height	1
21	10.02.121P	Hexagonal spacer M4x40	4
22	42.00.375P	Converter protection cover	1
23	10.00.061P	Pan head screw Torx T20 M4x12	4
24	60.31.359P	Bottom plate for a height-adjustable substructure	2
25	60.76.630S	Side hatch for substructure box	4
26	10.01.616P	Pan head screw Torx T40 M8x16	8
28	10.01.616P	Pan head screw Torx T40 M8x16	2
30	54.02.056P	Flexible drain pipe DN50	1
100	40.06.499P	Power + bus cable for height-adjustable substructure W21	1
101	40.07.161P	Bus cable extender W66	1
102	40.06.762P	Short power supply cable height adjustable cylinder W67	2

Pos.	Part no.	Description	Qty.
103	40.06.763P	Cylinder connection cable to CO61 module W69	2
104	40.06.765P	Connection cable CO61 - RS232 converter W68	1

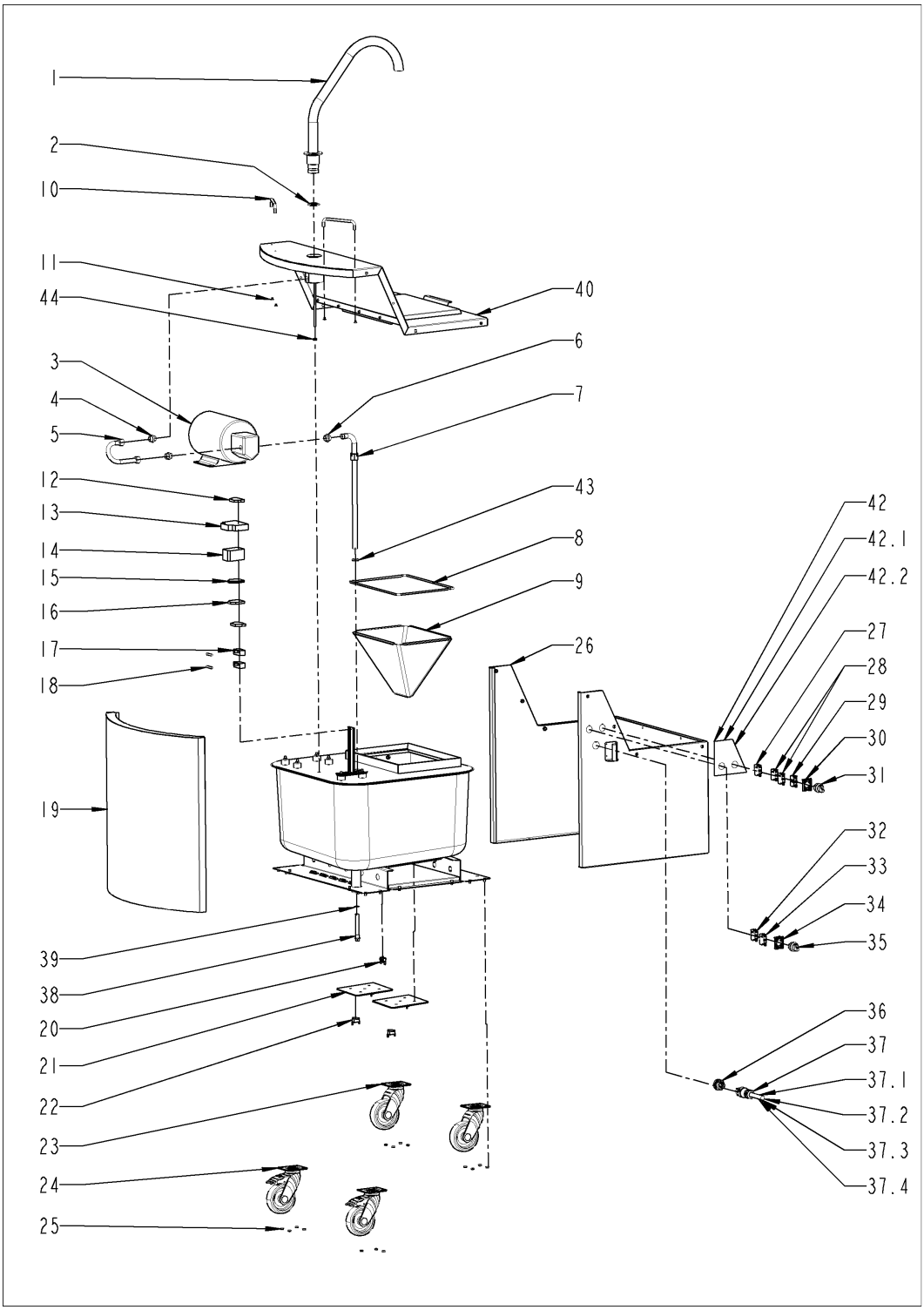
Pos. 3 Base installation kit



Pos. 3 Base installation kit

Pos.	Part no.	Description	Qty.
1	60.77.050P	Left profile of base kit	1
2	60.77.049P	Right profile of base kit	1
3	60.77.045P	Crosspiece for base kit	2

Pos. 7 Oil cart



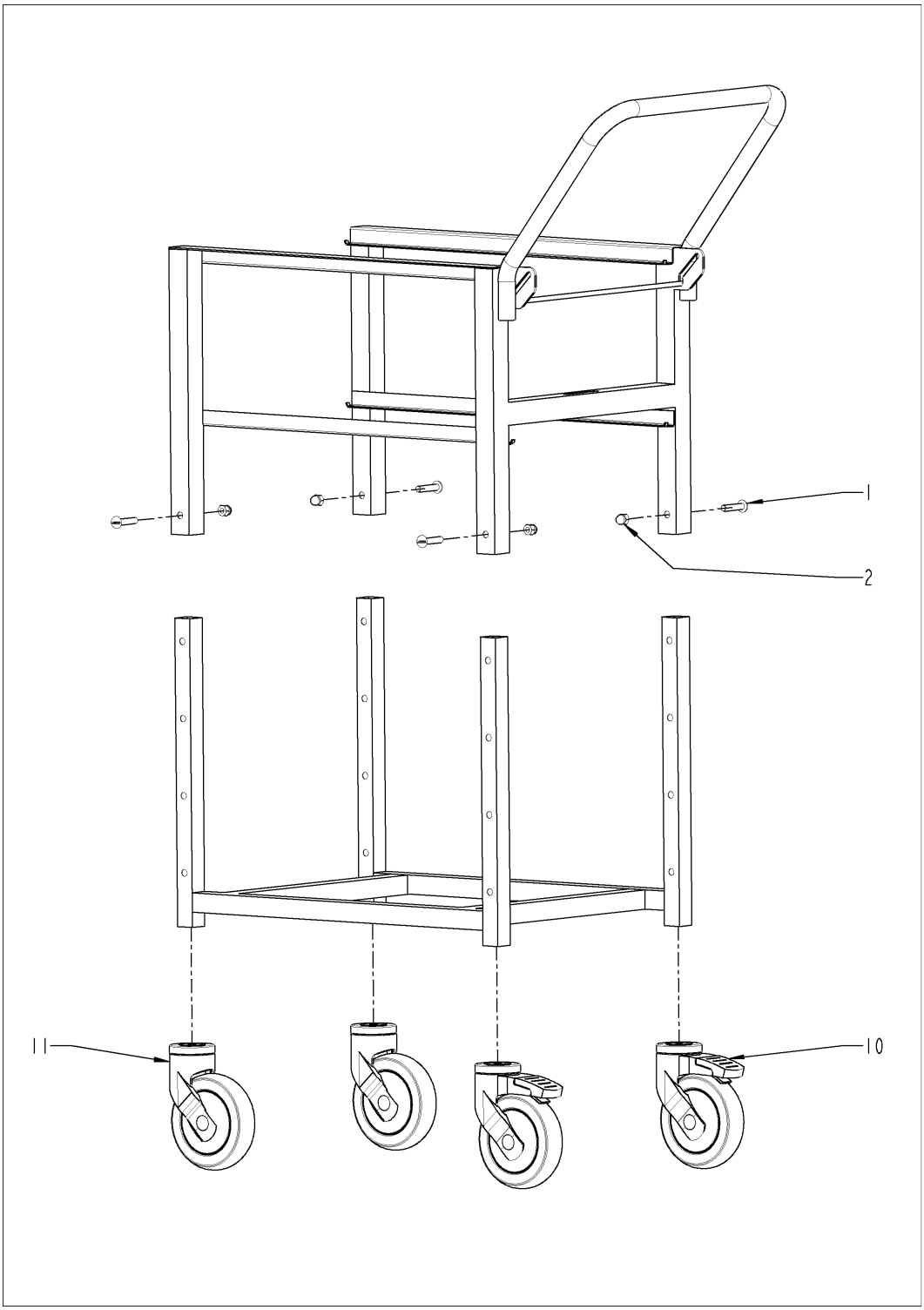
Pos. 7 Oil cart

Pos.	Part no.	Description	Qty.
1	82.00.247	Kit filling pipe	1
1.01	82.00.674P	Filling pipe for 100mm extension	1
2	82.00.240	O-ring 34x3	1
3	82.00.235	Kit pump	1
4	82.00.243	Hex double nipple G 3/8"	2
5	82.00.291	Flexible pipe 350mm for oil troley	1
6	82.00.268	Hex nipple M3/8"-F1/4"	1
7	82.00.246	Suction pipe complete	1
8	60.71.850	Support of oil filter	1
9	60.71.599	Oil filter	1
10	2610.400279F	Handle	1
11	1004.0665F	Allen screw M4x6	2
12	82.00.250	End plate for mounting rail	2
13	82.00.254	Timing relay	1
14	40.02.917	Contactor 3TG1010-2AK2	1
15	82.00.248	Terminal block 4mm²	1
16	82.00.249	Terminal block 4mm² blue	1
17	82.00.251	Fuse holder	2
18	4001.0226V	Fuse 6.35x32mm 16A, time-lag	2
19	82.00.288	Round panel	1
20	40.02.337	Safety temperature limiter 215°C	1
21	82.00.265	Kit heating element	1
22	82.00.261	Klixon 240°	2
23	82.00.230	Castor without brake	2
24	82.00.231	Castor with brake	2
25	1105.0121V	Hex combination nut M5 galv	16
26	82.00.289	External panel	1
27	82.00.259	Contact NC	1
28	82.00.258	Contact NO	2
29	82.00.260	Blue Led indicator	1

iVario® as of 03/2020 Pro 2-S (112) - 2 x 19 dm², 2 x 25 L, E11VK2210XXXXXXX

Pos.	Part no.	Description	Qty.
30	82.00.257	Adaptator for contact element	1
31	82.00.255	Selector 2 positions lighted	1
32	82.00.258	Contact NO	1
33	82.00.259	Contact NC	1
34	82.00.257	Adaptator for contact element	1
35	82.00.256	Selector 3 positions spring return	1
36	82.00.300	Connector for socket-outlet	1
37	40.04.518	Spiral cable FR/DE	1
37.1	40.04.519	Spiral cable UK	1
37.2	40.04.520	Spiral cable CH	1
37.3	40.04.522	Spiral cable AUS	1
37.4	40.04.521	Spiral cable DK	1
38	60.74.412	Drain plug oil reserve	1
39	60.99.244	Drain plug gasket	1
40	60.71.704	Lid complete oil cart	1
41	82.00.617	Insulation set for oil cart	1
42	82.00.363	Overlay FRIMA oil cart	1
42.1	60.74.940	Overlay RATIONAL oil cart	1
42.2	82.00.234	Overlay OEM oil cart	1
43	40.03.330P	Cable grommet Ø16	1
44	40.03.331P	Cable grommet Ø10	1

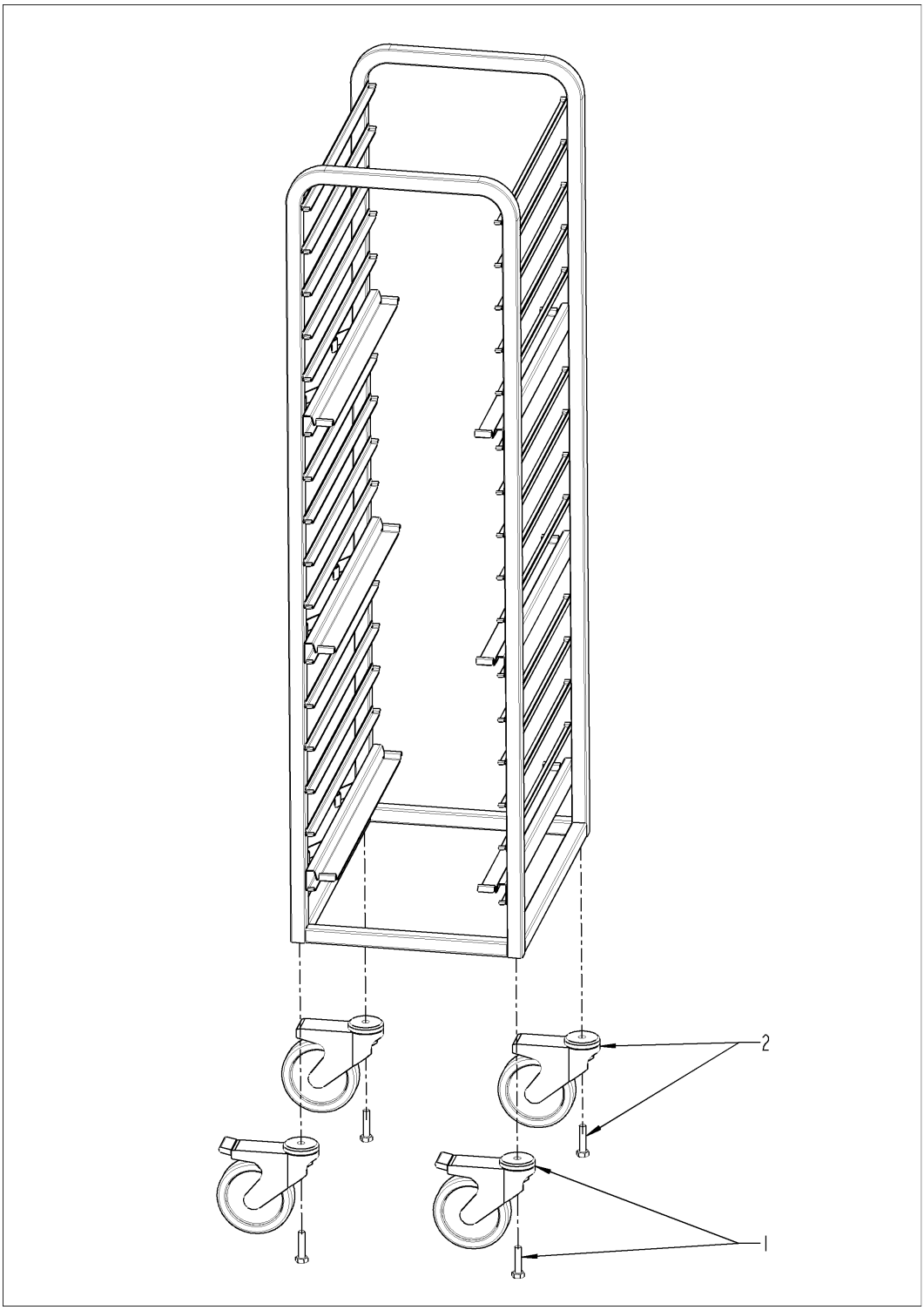
Pos. 8 VarioMobil



Pos. 8 VarioMobil

Pos.	Part no.	Description	Qty.
1	10.01.377P	Round head screw 8x38	4
2	10.00.175P	Cap nut M5	4
10	60.60.667S	Castor with brake ø125mm, screw M10 and M12	2
11	60.60.666S	Castor without brake ø125mm, screw M10 and M12	2

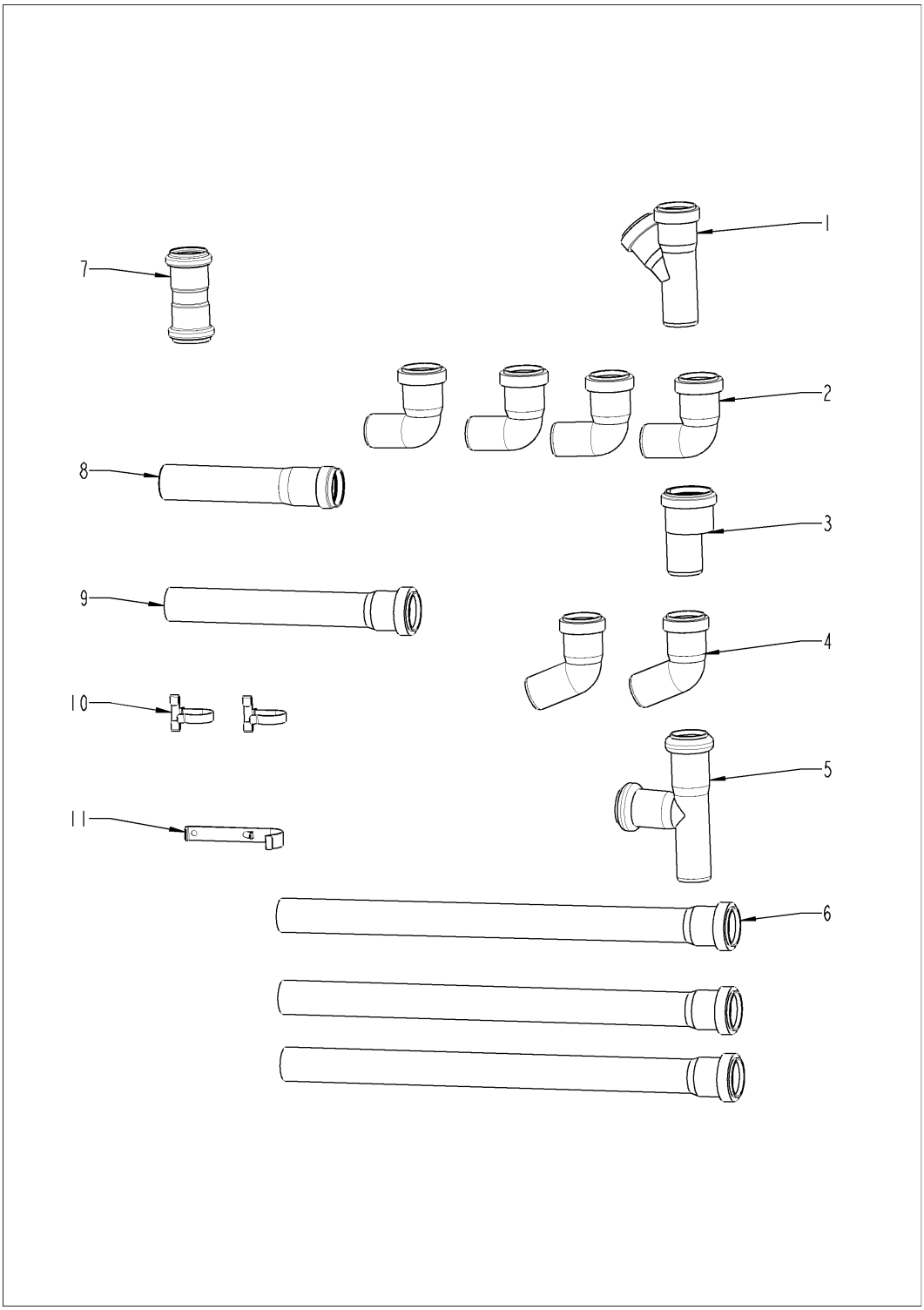
Pos. 9 Basket cart



Pos. 9 Basket cart

Pos.	Part no.	Description	Qty.
1	60.71.146	Castor with brake ø125mm, screw M12	2
2	60.71.147	Castor without brake ø125mm, screw M12	2

Pos. 10 Waste water connection kit



Pos. 10 Waste water connection kit

Pos.	Part no.	Description	Qty.
1	54.00.589P	Y-Fitting PP DN40 45°	1
2	2070.0050P	Elbow-pipe PP DN40 87°	4
3	50.00.680P	Bushing PP D50/D40	1
4	54.00.573P	Elbow-pipe PP DN40 67.5°	2
5	54.00.571P	Y PP DN40 87°	1
6	54.01.360P	PP-Pipe DN40 x 500mm	3
7	54.01.359P	Sliding sleeve DN40	1
8	54.00.567P	PP-Pipe DN40 x 150mm	1
9	54.01.358P	PP-Pipe DN40 x 250mm	1
10	60.76.403P	Securing device for discharge pipe on underframe	2
11	60.75.016P	Securing device for discharge pipe	1

Pos. 30 Repair and retrofit kit

Pos. 30 Repair and retrofit kit

Pos.	Part no.	Description	Qty.
1	87.01.813S	Kit connection to energy optimiser	1
2	87.01.643S	Retrofit kit interface Ethernet	1
3	87.01.821S	Potential free contact adapter kit	1
4	87.01.833S	Hand shower removal kit	1
5	87.01.848S	Retrofit kit lockable control panel RATIONAL	1
6	87.01.819S	Differential Switch-Adapter-Kit	1
8	87.01.986S	Retrofit kit 4 way relay S	1
10	87.01.783S	Repair kit for technical box thread	1
11	87.01.822S	Control panel fixing repair kit	1
12	87.01.858S	Speaker support repair kit without loudspeaker	1
13	87.01.876S	CPU fan retro fit kit	1
15	87.01.907S	Hose repair kit D10mm	1
18	87.01.926S	Repair kit exhaust pipe left lid	1
19	82.00.759S	Rear central cover with steam guide for technical compartment	1
20	56.02.167P	Overflow detour	1