

SERVICE MANUAL



MULTI DECK HOT MERCHANDISERS MD CU / MD SQ 60 - 100 - 120 PREMIUM

Models:

MD Curved Solid back 3 - 4 - 5 level

MD Curved Pass through 3 - 4 - 5 level

MD Square Solid back 4 - 5 level

MD Square Pass through 4 - 5 level



MD Square glass 120 - 4 solid back



MD Curved glass 100 - 3 solid back

- NOTICE -

This manual is intended to be used by trained Service Technicians and should not be used by those not properly qualified.

The information presented in this document is valid for standard configurations, specifications for custom configurations may differ. No rights can be derived from this document, specifications and technical data are subject to amendment without prior notice.

EMPTY PAGE

Versions		
Version	Issue date dd/mm/yy	Remarks
06/2015	01/06/2015	4 shelve models added. Replacement side glass changed. Instruction mounting side glass added. Glass doors added. Update exploded views. Various updates.
12/2015	01/12/2015	Mounting of front doors adjusted. Electric diagrams adjusted. Various updates.
02/2017	01/02/2017	ERC thermostat added. New electric diagrams. Various updates.
10/2018	01/11/2018	MD Square added, textual changes
06/2021	28/06/2021	Front door ass. MD essential (UK) added

Index	4
General technical data	5
Removal and replacement of parts	8
Panels bottom side	8
Top cover	8
Display / illumination	9
Lamp holder	9
Tumble switch illumination (solid back)	10
Tumble switch illumination (pass through)	10
Electronic ballast / interference filter	10
Drawer with telescopic slide	11
Danfoss thermostat	11
Sensor Danfoss thermostat	11
Contactor	12
Swing door	12
Side glass	13
Top plate of the shelf (pass through)	14
Top plate of the shelf (solid back)	15
Blower	16
Mounting instruction glass door(s)	17
Changing Danfoss EKC to ERC thermostat	25
Replacement PL lamp md square	26
Electrical tests and service procedures	28
Heating element test	28
TL lamp test	28
PTC 1K Sensor test	28
Contactor and blower test	29
Adjusting Danfoss ERC 211 thermostat	30
Adjusting Danfoss ERC 211 thermostat (continued)	31
Error codes ERC 211	31
Danfoss ERC 211 settings	32
Danfoss ERC 211 settings (continued)	33
Danfoss ERC 211 settings (continued)	34
Adjusting Danfoss EKC 102A thermostat till serial number 100080280	35
Danfoss EKC 102A settings till serial number 100080280	36
Control locations	37
Troubleshooting	38
Trouble shooting Multi Deck 60/100/120 - 3-4-5 level	38
Exploded views & Part lists	40
Multi Deck CURVED 60/100/120 - 3 level solid back	40
Multi Deck CURVED 60/100/120 - 3 level pass through	44
Multi Deck CURVED 60/100/120 - 4 level solid back	48
Multi Deck CURVED 60/100/120 - 4 level pass through	52
Multi Deck CURVED 60/100/120 - 5 level solid back	56
Multi Deck CURVED 60/100/120 - 5 level pass through	60
Multi Deck square 60/100/120 - 4-5 level solid back	64
Multi Deck square 60 - 4 level solid back	66
Multi Deck square 60 - 5 level solid back	67
Multi Deck square 100 - 4 level solid back	68
Multi Deck square 100 - 5 level solid back	69
Multi Deck square 120 - 4 level solid back	70
Multi Deck square 120 - 5 level solid back	71
Electrical diagram	74
Circuit Diagram Multi Deck C 400/230V	74
Circuit Diagram Multi Deck C 400/230V till serial number 100080280	75

GENERAL TECHNICAL DATA

This manual covers the Multi Deck Curved and Square Merchandiser cabinets. Both cabinets are available in three sizes: 60, 100 and 120 centimeter.

- Multi Deck Curved 60, 3 - 4 - 5 level - Merchandiser 600 mm width.
- Multi Deck Curved 100, 3 - 4 - 5 level - Merchandiser 1000 mm width.
- Multi Deck Curved 120 3 - 4 - 5 level - Merchandiser 1200 mm width.
- Multi Deck Square 60 4 - 5 level - Merchandiser 600 mm width.
- Multi Deck Square 100 4 - 5 level - Merchandiser 1000 mm width.
- Multi Deck Square 120 4 - 5 level - Merchandiser 1200 mm width.

All information, illustrations and specifications in this manual are based on the product information available at version date.

TECHNICAL DATA

Type	MDC 60 - 3	MDC 60 - 4	MDC 60 - 5	MDC 100 - 3	MDC 100 - 4	MDC 100 - 5
Power (W)	2400	3000	3600	3500	4400	5400
Fuses needed with power connection 230V, 1N ~ 50...60Hz (1 phase with zero)	1x 16 A	1x 16 A	–	–	–	–
Fuses needed with power connection 400V, 3N ~ 50...60Hz (3 phases with zero)	–	–	3x 16 A	3x 16 A	3x 16 A	3x 16 A
Fuses needed with power connection 230V, 3 ~ 50...60Hz (3 phases without zero)	–	–	3x 16 A	3x 16 A	3x 16 A	3x 16 A
Standard plug from factory single pole	Two-pole earthed plug 16 A	Two-pole earthed plug 16 A	–	–	–	–
Standard plug from factory 5- pole Acc IEC309 and CEE-form	–	–	16 A 3P+N+E	16 A 3P+N+E	16 A 3P+N+E	16 A 3P+N+E
Net weight (kg)	155	190	209	200	235	274
Gross weight (kg)	182	225	246	235	275	322
Height (mm)	1420	1972	1972	1420	1972	1972
Width (mm)	600	600	600	1000	1000	1000
Depth (mm)	800	800	800	800	800	800

TECHNICAL DATA

Type	MDC 120 - 3	MDC 120 - 4	MDC 120 - 5
Power (W)	4300	5400	6500
Fuses needed with power connection 230V, 1N ~ 50...60Hz (1 phase with zero)	–	–	–
Fuses needed with power connection 400V, 3N ~ 50...60Hz (3 phases with zero)	3x 16 A	3x 16 A	3x 16 A
Fuses needed with power connection 230V, 3 ~ 50...60Hz (3 phases without zero)	3x 16 A	3x 20 A	3x 20 A
Standard plug from factory single pole	–	–	–
Standard plug from factory 5- pole Acc IEC309 and CEE-form	16 A 3P+N+E	16 A 3P+N+E	16 A 3P+N+E
Net weight (kg)	215	250	300
Gross weight (kg)	253	290	353
Height (mm)	1420	1972	1972
Width (mm)	1200	1200	1200
Depth (mm)	800	800	800

TECHNICAL DATA

Type	MDS 60 - 4 9229654	MDS 60 - 5 9229664	MDS -100 - 4 9229624	MDS 100 - 5 9229614	MDS - 120 - 4 9229634	MDC 120 - 5 9229644
Power (W)	2400	3000	3600	3500	4400	5400
Fuses needed with power connection 230V, 1N ~ 50...60Hz (1 phase with zero)	1x 16 A	1x 16 A	–	–	–	–
Fuses needed with power connection 400V, 3N ~ 50...60Hz (3 phases with zero)	–	–	3x 16 A	3x 16 A	3x 16 A	3x 16 A
Fuses needed with power connection 230V, 3 ~ 50...60Hz (3 phases without zero)	–	–	3x 16 A	3x 16 A	3x 16 A	3x 16 A
Standard plug from factory single pole	Two-pole earthed plug 16 A	Two-pole earthed plug 16 A	–	–	–	–
Standard plug from factory 5- pole Acc IEC309 and CEE-form	–	–	16 A 3P+N+E	16 A 3P+N+E	16 A 3P+N+E	16 A 3P+N+E
Net weight (kg)						
Gross weight (kg)						
Height (mm)						
Width (mm)						
Depth (mm)						

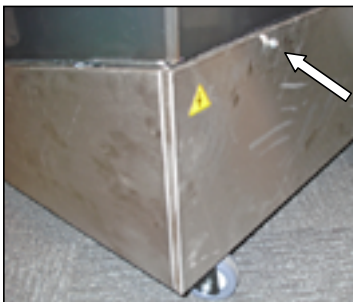
REMOVAL AND REPLACEMENT OF PARTS

WARNING: Disconnect the electrical power to the machine at the main circuit box. Place a tag on the circuit box indicating the circuit is being serviced.

PANELS BOTTOM SIDE



1. Open the front drawer.
2. Remove the bolts on the front panel and remove the panel.
3. Remove the bolt that secures the side panel and slide the panel to the backside to remove this.
4. Remove the bolts that secure the back panel and remove this panel.
5. Reverse the procedure to install.



Note: The panels are fitted with a folding inside a slotted hole.

TOP COVER



1. Remove the plastic plugs on the back side that cover the screws.
2. Loosen the screws that secure the panel and remove the panel.
3. Reverse the procedure to install.



DISPLAY / ILLUMINATION



1. Remove the plastic rail profile on the top side.
2. Pull, with both hands, on the bottom side of the plastic cover to remove the cover out of the "click system". Remove the total length out of the click system.
3. Lift the top side out of the Aluminium rail and remove the display.
4. Replace lamp.
5. Reverse the procedure to install.

LAMP HOLDER

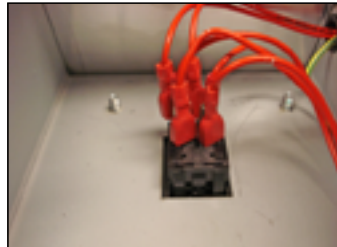
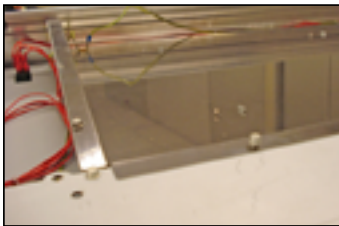


1. Remove the transparent price rail. Lift this up on the edge and remove this from the holder. Now slide the rail out to the side.
2. Remove the screws on top of the lamp holder.
3. Bend the lamp holder profile open. This is a special construction that enables you to open and close this profile.
4. Loosen the blocking clips on the sides of the lamp holder and lift the holder out.
5. Remove the wiring from the holder.
6. Reverse the procedure to install.

Note: If the lamp holder profile breaks, just screw it back on again.

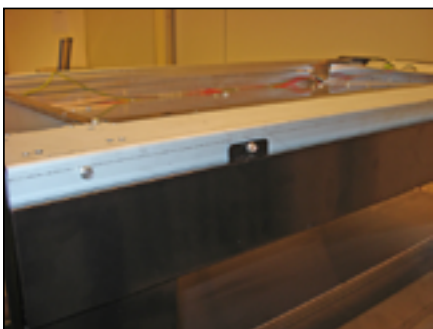


TUMBLE SWITCH ILLUMINATION (SOLID BACK)



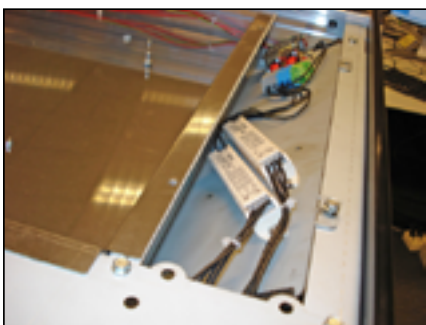
1. Remove the top cover according prior procedure.
2. Remove the wiring from the switch and remove the switch by pushing the clamps on both sides.
3. Reverse the procedure to install.

TUMBLE SWITCH ILLUMINATION (PASS THROUGH)



1. Remove the top cover according prior procedure.
2. Remove the bolts that secure the magnet holder profile and remove this profile.
3. Remove the bolt that secures the black cover plate and remove this plate by lifting this.
4. Remove the wiring from the switch and remove the switch by pushing the clamps on both sides.
5. Reverse the procedure to install.

ELECTRONIC BALLAST / INTERFERENCE FILTER



1. Remove the top cover according to prior procedure.
2. Remove the bolts on the mounting plate and lift the plate out.
3. Remove the screws on the ballast and remove the wiring.
- 3a. Remove the screws on the filter and remove the filter.
4. Reverse the procedure to install.

Note: There is also a ballast on the bottom side of the mounting plate.

DRAWER WITH TELESCOPIC SLIDE



1. Open the drawer and remove the bolt that secures the electric wiring box and lift the box out.
2. If necessary remove the wiring of the sensor on the thermostat.
3. Lift the black plastic locking pin of the telescopic slide on the right hand side up and push the locking pin on the left hand side down. Now you can pull the drawer out.
4. Reverse the procedure to install.

DANFOSS THERMOSTAT



1. Open the drawer and remove the bolt that secures the electric wiring box and lift the box out.
2. Remove the wiring from the thermostat.
3. Loosen the blocking clips on the side of the thermostat and remove the thermostat.
4. Reverse the procedure to install.

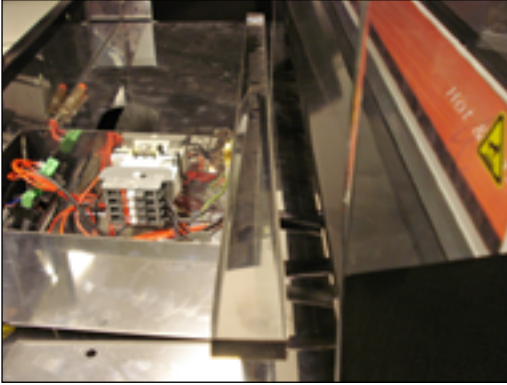
Note: When changing the thermostat verify all parameters after installation. Start with parameter 07 by setting it to heating HE.

SENSOR DANFOSS THERMOSTAT



1. Lift out the stainless steel drip tray from underneath.
2. Lift out the electric wiring box according prior procedure.
3. Remove the wiring of the sensor on the thermostat.
4. Remove the screws, under the bottom shelf, that secures the holder of the sensor and remove the holder with sensor.
5. Reverse the procedure to install.

CONTACTOR



1. Lift out the electric wiring box according prior procedure.
2. Remove the contactor by sliding it upwards over the rail.
3. Remove the wiring from the contactor.
4. Reverse the procedure to install.

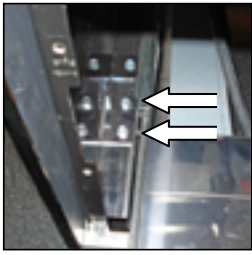
SWING DOOR



1. Open the swing door and remove the screws that secure the door hinges and remove the door.

Note: The doors are delivered as a total assembly with glass, hinges, handle and snap rivets.

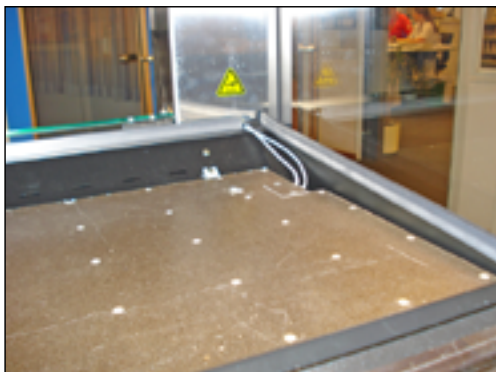
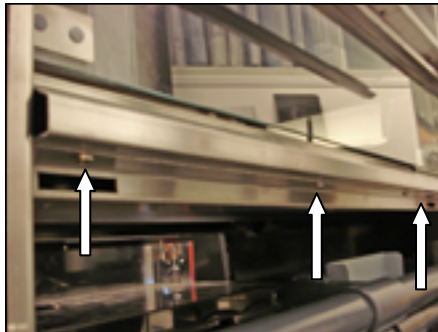
SIDE GLASS



1. **(Pass through only)** Remove the top and back panel(s) according prior procedures.
2. **(Solid back only)** Remove the top cover and the rear panel according prior procedures.
3. Open the drawer.
4. Remove the bolts that secure the brackets of the glass and remove the brackets.
5. Remove all broken glass and silicon residue and clean the surface.
6. Place the new glass and secure the glass to the machine with the 2 taptite bolts in each mounting bracket. Use the side panel on the bottom side as a support for the glass. To secure the glass with one or two clamps makes it easier.
7. Seal the edge between the bottom, black coloured, drip tray and the side glass. with transparent Dow Corning 732 Silicon sealant (part.nr. 4302373). See white line in picture below.



TOP PLATE OF THE SHELF (PASS THROUGH)

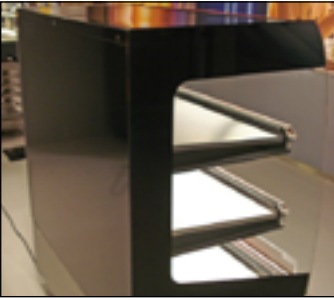


1. Remove the top cover, the magnet holder profile (**only for top shelf**) and the black cover plates on the backside according prior procedures.
2. (**Bottom shelf only**) Remove the bolts that secure the black horizontal cover profile on the bottom side and remove the profile.
3. Remove the screws on the bottom side of the cross sectional profile with the big plugs.
4. Remove the plastic plugs from this profile.
5. Loosen the screws through the big holes and remove the profile. Better to guide this with both hands on the outside of the profile.
6. Remove the transparent price rail according prior procedure.
7. Remove the plastic caps on the nuts on the front side of the shelf and remove the bolts and nuts.
8. Remove the screws on the back side that secure the top plate of the shelf and remove the plate by lifting it up from the back and remove the plate to the front side.

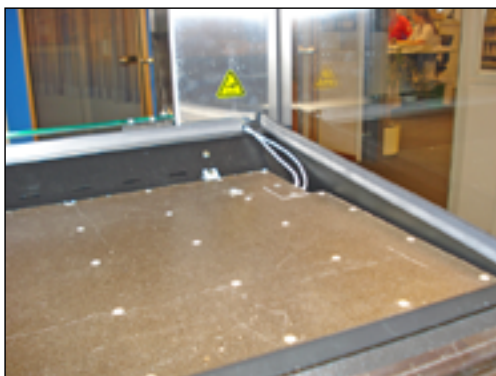
Note 1: When replacing the plate make sure the rubber profiles are in place.

Note 2: The plastic plugs can get damaged and need to be replaced. Part number plug is 9172419.

TOP PLATE OF THE SHELF (SOLID BACK)

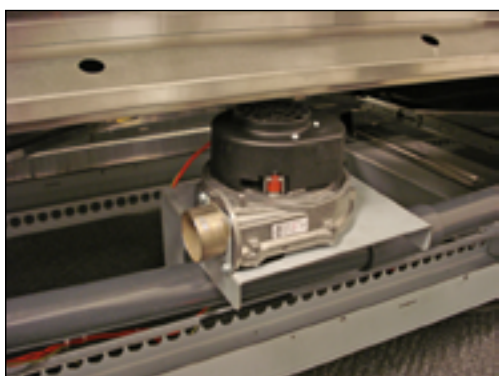


1. Remove the top cover, and the rear panel according prior procedures.
2. Remove the transparent price rail, the plastic caps on the nuts on the front side and these bolts and nuts according prior procedures.
3. Remove the screws on the back side that secure the rear plate and the top plate of the shelf and remove the rear plate.
4. Remove the top plate by lifting it up from the back and remove the plate to the front side.



Note: When replacing the plate make sure the rubber profiles are in place.

BLOWER



1. Remove the top cover, the magnet holder profile (**pass through only**), and all the black cover plates on the backside according prior procedures.
2. Remove the bolts that secure the bottom clamp plate on the backside. This plate does not have to be removed.
3. Remove the bolts that secure the base plate of the blower and remove this plate including the blower. Take care that the connections of the air tubes on the blower are loose.
4. Slide the upper tubes in the horizontal tee-joint as far as possible to the outside.
5. Pull the upper tee-joint towards yourself to loosen the joints and remove the tee-joint and the 2 horizontal tubes.
6. Lift the base plate with the blower outside the unit and remove the wiring of the blower.
7. Remove the bolts that secure the blower on the base plate and remove the blower.
8. Reverse the procedure to install.

Note: The models MDC 100 (till serial nr. 100062687) and 120 with 5 shelves have 2 blowers. Each blower operates for the left or right hand circulation.

MOUNTING INSTRUCTION GLASS DOOR(S)

Mounting instruction of the glass door MD 60 (Two doors for MD 100 and MD 120)

1. Open the drawer



2) Remove the two M5 nuts inside the cabinet.



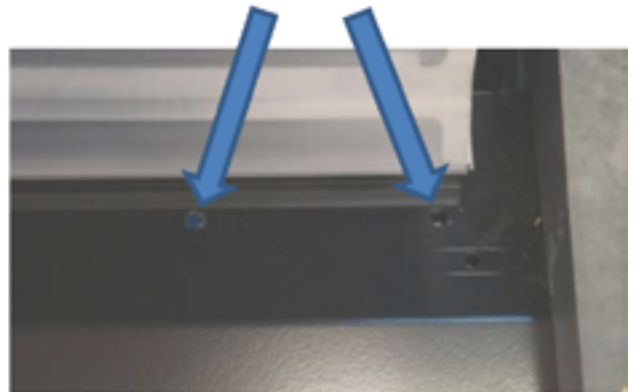
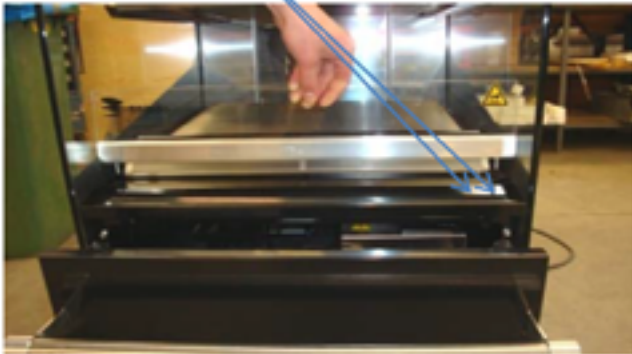
3) Lift transparent plate.



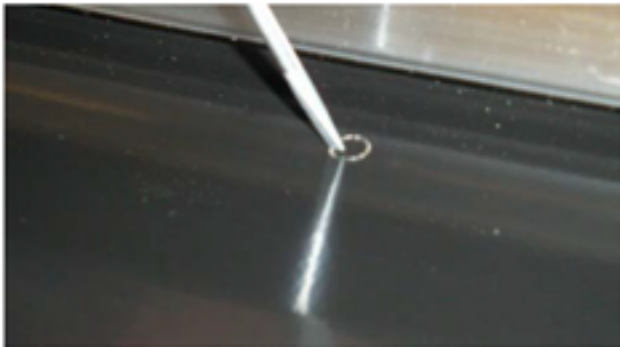
4) Remove transparent plate.



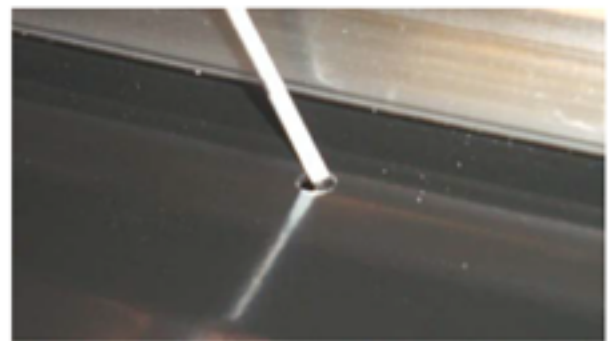
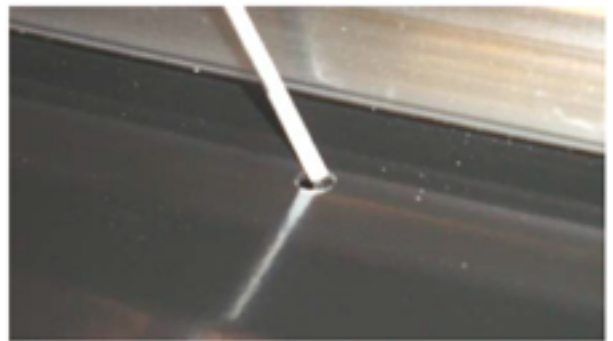
5) Punch out two holes (on both sides for MD 100 and MD 120)



Before:



After:



6) Unpack supplied mounting bolts, washers and nuts.



7) Mount both Phillips-head screws in holes left by transparent plate.



7a) Phillips-head screw on top.



7b) Washer and nut on inner side cabinet.



8) Unpack magnetic lock and mount as indicated. (See step 16 for MD 100 and MD 120)
(Use punched through holes, made in step 5.)



NOTE: magnetic strips must be facing the operator. (See step 16 for MD 100 and MD 120)
Washers must be mounted, and nuts must be fastened inside cabinet, similar as in step 7b.



9) Unpack door guard. 1 Piece for MD 60 and 2 pieces for MD 100 and MD 120.



Mounting holes of guard.

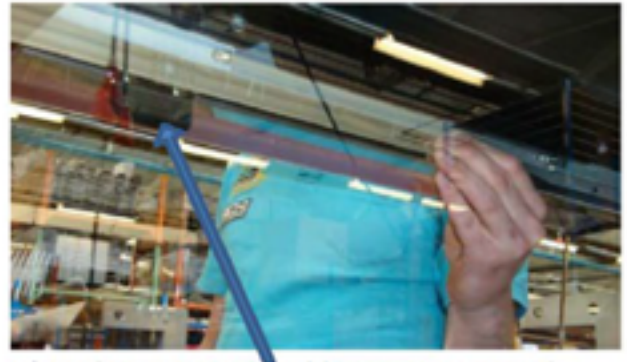


10) Apply door guard as indicated.
Make sure that guard is mounted to the utmost left position inside the cabinet! For MD 100 and MD 120 utmost left and untmost right position.

10a)

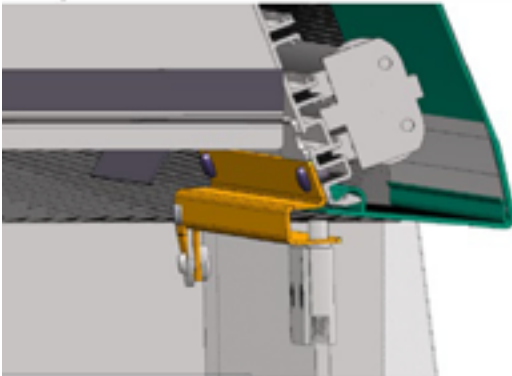


10b)

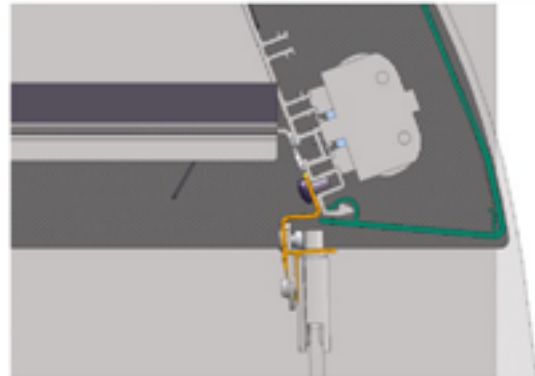


After placement, two rubber protection pads must face glass door.

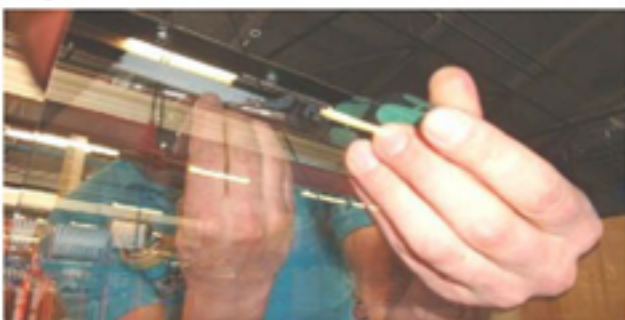
10c)



10d)



10e)



Screws must be inserted to aluminium profile.



Position of door guard MD 60

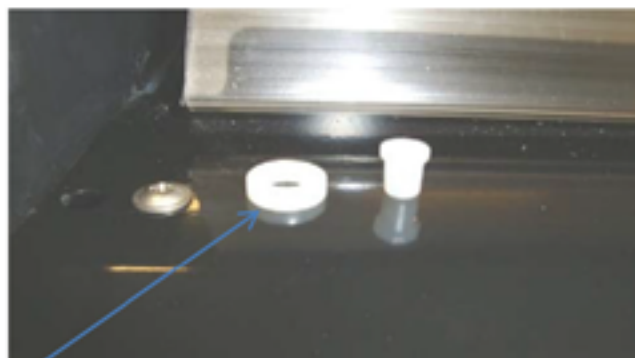
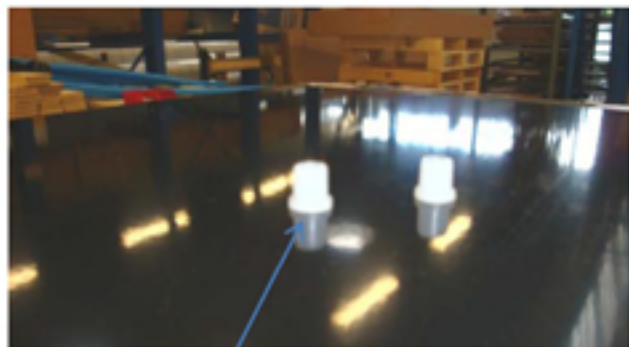


Position of door guard MD 100 and MD 120

Mounting of door:

11) Prepare upper and lower hinge:

11a) Apply white plastic washers and bushes as indicated.



Bush 9221070



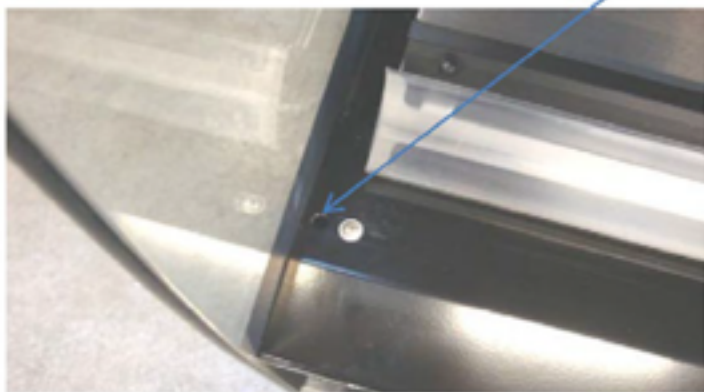
Washer 3 mm 3701242

NOTE: use washer for both hinges.

11b) Insert bush and 3 mm washer for top hinge.



11c) Insert bush with 3 mm washer in left most hole in bottom plate for lower hinge.



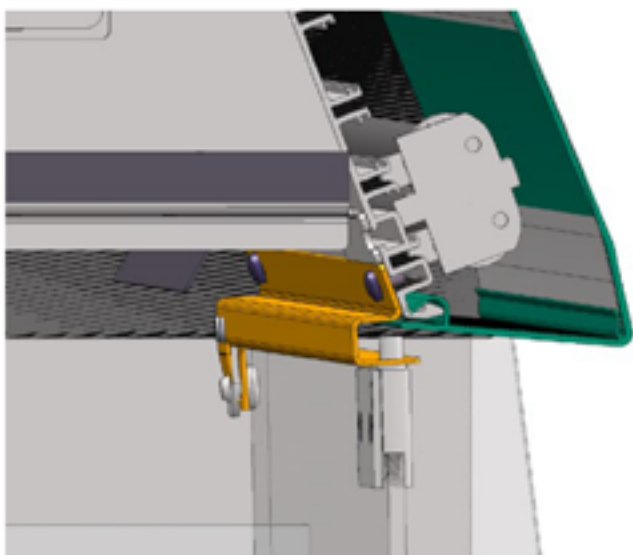
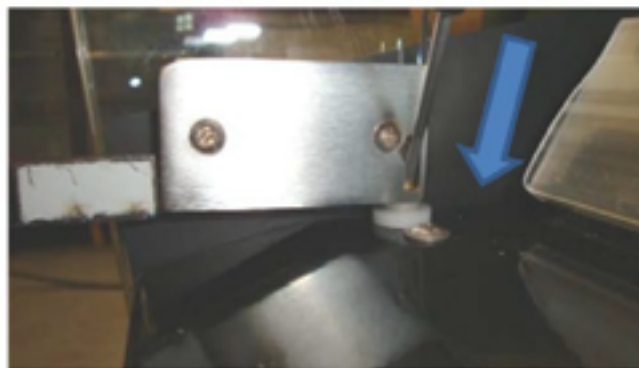
12) Insert glass door in bushes.

12a) Bottom hinge:

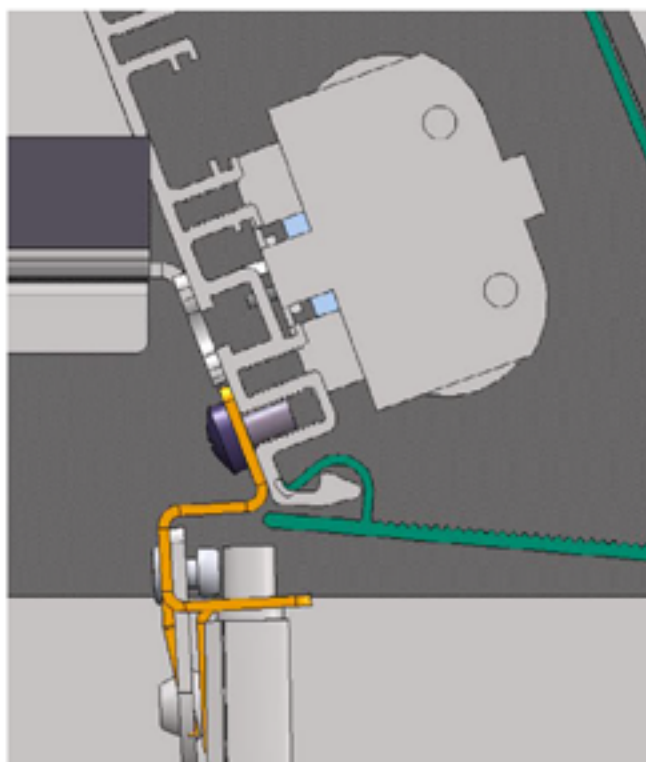
Insert lower protrusion of door, into bush.



Push down copper interior hinge with screwdriver.

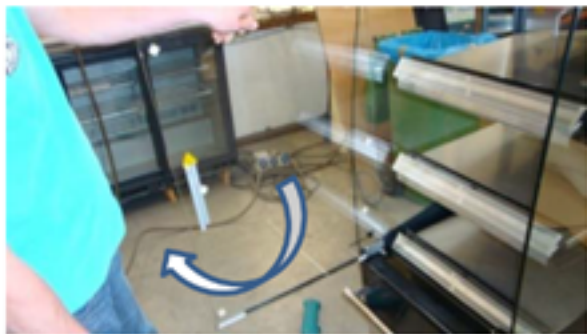


Position of door guard (yellow coloured profile)

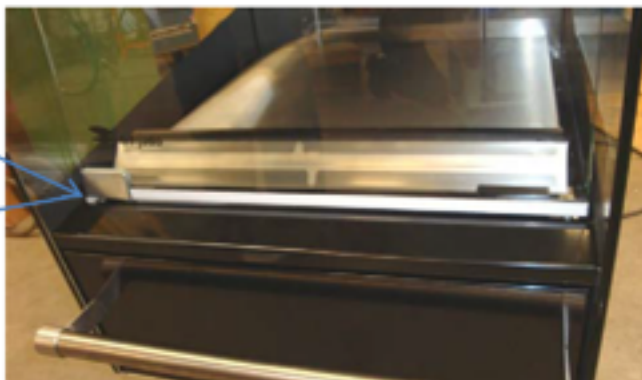


12b) Mount top hinge as described in step 12a.

13) Test hinges by opening and closing glass door.

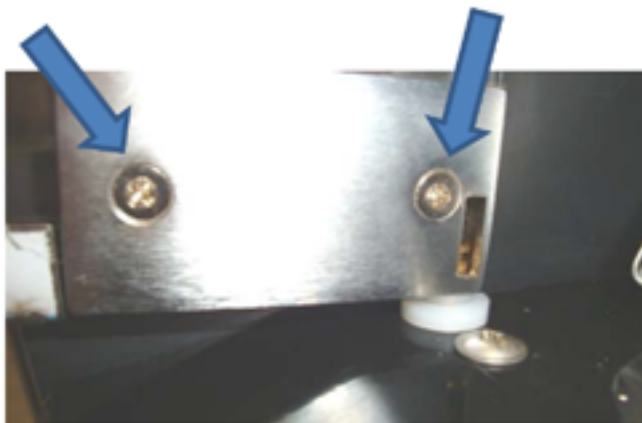


14) NOTE: if bottom side of door touches the metal plate underneath, the door must be lifted. To do this, a **1.6 mm** plastic washer must be added to the 3 mm washer under the lower hinge.



15) If needed, both hinges can be shifted in their consoles by loosening screws. (picture shows bottom hinge).

Fasten both screws after adjustment!



16) Models MD 100 and MD 120:

Magnetic lock must be placed in the centre, to close both doors.

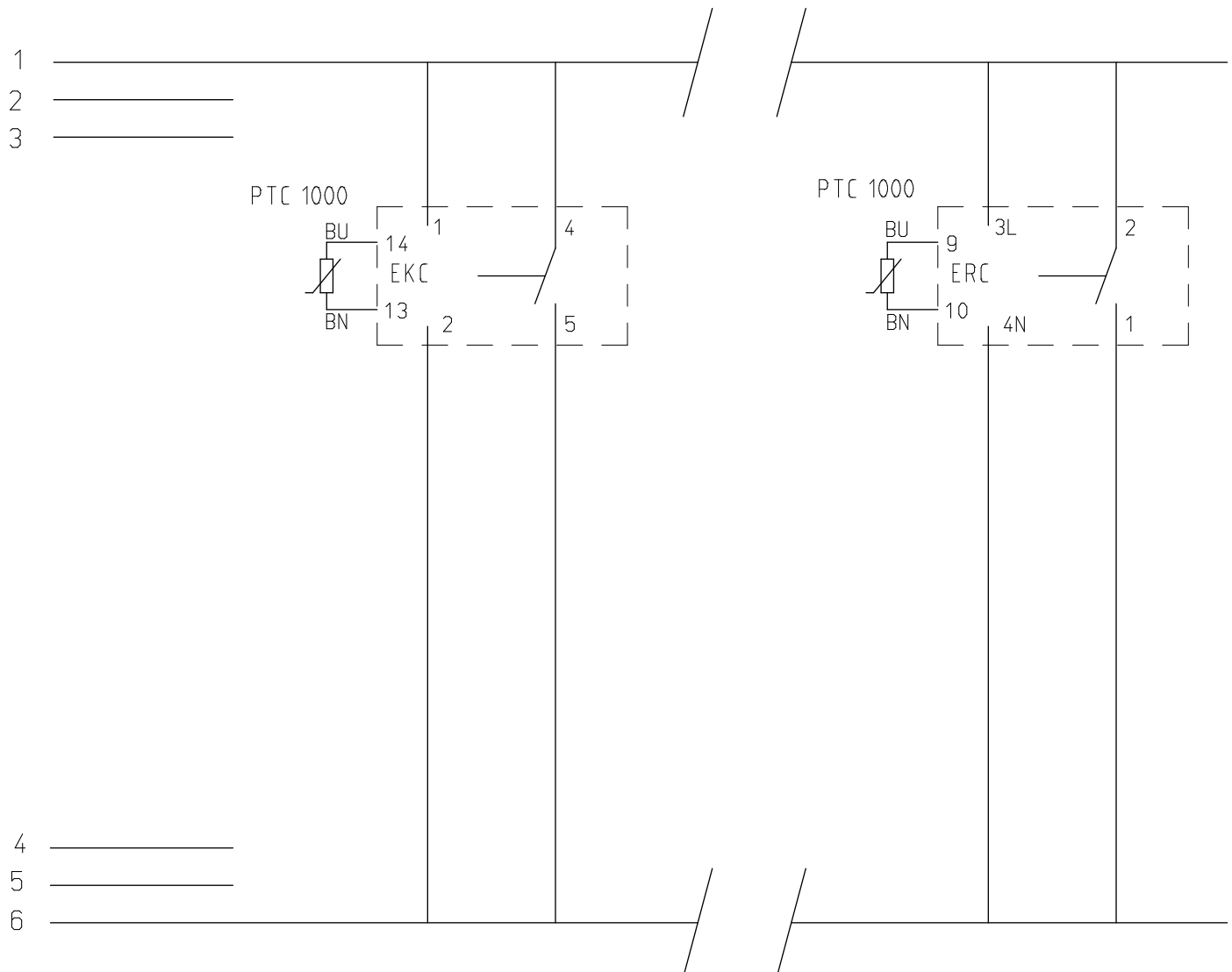


Part number	Description
9229813	Front door ass. MDC 60-3
9229814	Front door ass. MDC 60-4 and 5
9229833	Front door ass. MDC 100-3
9229834	Front door ass. MDC 100- 4 and 5
9229853	Front door ass. MDC 120-3
9229854	Front door ass. MDC 120-4 and 5
9220078s	Front door ass. MDE 60-4 (UK)
9220170S	Ass. front door MDC 60-3
9220171S	Ass. front door MDC 60-4 and 5
9220202S	Ass. front door MDC 100-3 left
9220192S	Ass. front door MDC 100-3 right
9220203S	Ass. front door MDC 100- 4 and 5 left
9220193S	Ass. front door MDC 100-4 and 5 right
9220204S	Ass. front door MDC 120-3 left
9220194S	Ass. front door MDC 120-3 right
9220205S	Ass. front door MDC 120-4 and 5 left
9220195S	Ass. front door MDC 120-4 and 5 right

CHANGING DANFOSS EKC TO ERC THERMOSTAT

Instructions for exchanging Danfoss EKC to ERC thermostat

The wiring connection numbers 1-4-2-5-13-14 on the Danfoss EKC thermostat are different than the wiring connections 3L-2-4N-1-9-10 on the ERC thermostat. keep this in mind when you change the EKC for the ERC thermostat. See also the drawing below.



For adjusting instructions and parameter settings see electrical tests on pages 28 to 32.

REPLACEMENT PL LAMP MD SQUARE



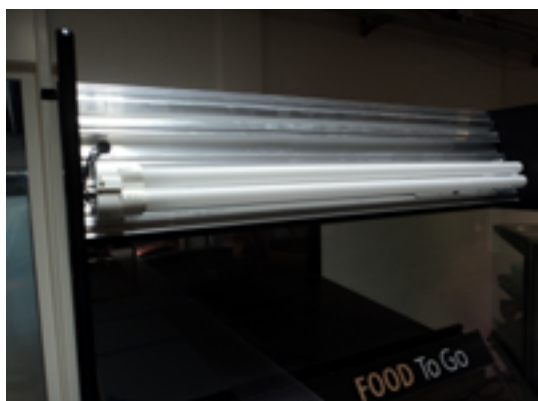
1) Unscrew the 2 screws



2) Take out the pvc strip at the top



3) Remove the top box



4) Replace lamp

EMPTY PAGE

ELECTRICAL TESTS AND SERVICE PROCEDURES

WARNING: Disconnect the electrical power to the machine at the main circuit box. Put a tag on the circuit box indicating the circuit is being serviced.

HEATING ELEMENT TEST

Note: When testing the resistance of the element remove the wiring from the connecting block.

Type	Wattage/Voltage	Resistance Ω -0% + 10%	Current A
MDC 60	400 / 230	132.3	1.7
MDC 60 + 100	600 / 230	88.2	2.6
MDC 100 + 120	900 / 230	58.8	3.9
MDC 120	1060 / 230	49.9	4.6

TL LAMP TEST

Type	Wattage/Voltage	Resistance Ω -5% + 10%
TL lamp 21 W/830	24 / 230	8-10
TL lamp 8 W/830	8 / 230	18-20

PTC 1K SENSOR TEST

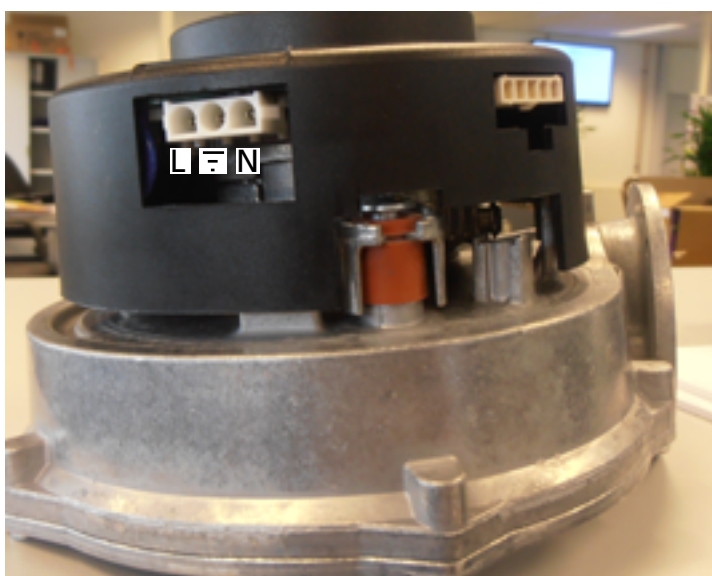
Temperature		Resistance
°F	°C	± 10 Ohms
60	16	930
70	21	970
80	27	1016
90	32	1056
100	38	1107
125	52	1227
150	65	1347
200	94	1636
250	121	1935

1. Remove the right side panel according prior procedure.
2. Remove the wiring from the sensor.
3. Connect a temperature sensor to the probe for comparison.
4. Test the probe with an Ohmmeter.

CONTACTOR AND BLOWER TEST

Note: When testing the resistance remove the wiring.

Type	Description	Voltage	Resistance
MDC 3-4-5	Contactor	230 V	Resistance of coil (A1 - A2) ~ 525 Ω
MDC 3-4-5	Blower See picture below	230 V	Between L-N ~3.5 M Ω



ADJUSTING DANFOSS ERC 211 THERMOSTAT

In order to adjust the thermostat, first open the panel on the backside with the key.

Adjusting Danfoss ERC211 thermostat

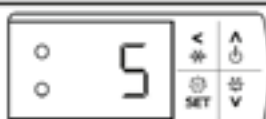
Changing temperature setpoint

Example screens

1. Press  to access setpoint mode	
2. Change value with  or 	
3. Press  to confirm	
When no key is pressed after last confirmation, the system goes back to normal operation after 10 seconds	

Programming menu

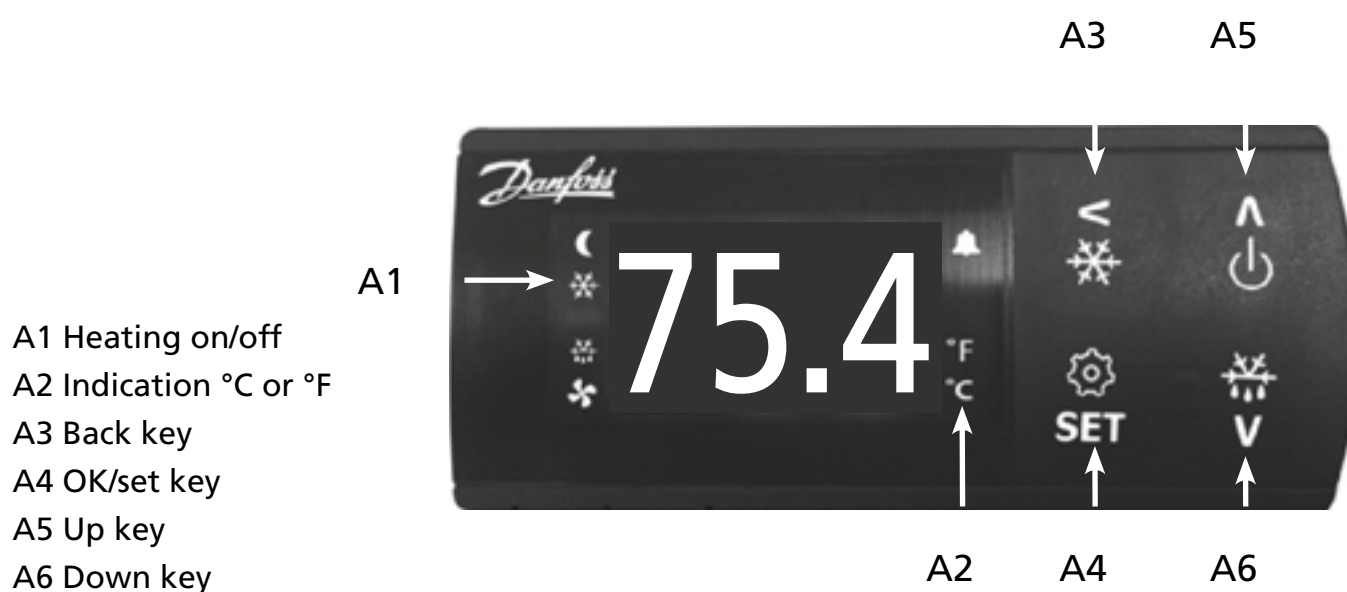
Example screens

1. Press  for 3 seconds to access the menu	
2. Scroll through parameter groups with  and 	
3. Select parameter group with 	
4. Scroll through parameter names with  and 	
5. Press  to read out the value	
6. Change value with  and 	
7. Press  to confirm	
8. Press  to select the next parameter and follow instruction 3 to 7	
Use  to go back in the parameter groups and once more to leave the programming menu	

ADJUSTING DANFOSS ERC 211 THERMOSTAT (CONTINUED)



ERROR CODES ERC 211



If the elements are switched on, the indicator lamp A1 will go on.

Error codes on display:

E29: PT sensor broken or wiring problem sensor.

A01: High temperature alarm.

A02: Low temperature alarm.

A99: High voltage alarm.

AA1: Low voltage alarm.

oFF: Main switch alarm. Check parameter r12.

Wrong temperature displayed: Wrong type of sensor selected. Check o06.

When reporting error codes the unit is switched in stand-by mode and cannot be used until the problem is resolved.

DANFOSS ERC 211 SETTINGS

MD 60-3 PT/SB	MD 60-5 PT/SB
MD 100-3 PT	MD 100-5 PT/SB
MD 120-3 PT/SB	MD 120-5 PT
MD 60-4 PT/SB	MDS 86-2
MD 120-4 SB	

Note! Change r05 first and r03 after!

r00	Temperature set point	<u>85</u>	°C
r01	Differential	<u>1</u>	K
r02	Min set point limitation	<u>0</u>	°C
r03	Max set point limitation	<u>99</u>	°C
r04	Display offset	0	°C
r05	Display unit (°C/°F)	°C	
r09	Calibration of Sair	<u>-11.5</u>	°C
r12	Main switch	1	
r13	Night set back	0	
r40	Thermostat reference displacement	0	
r96	Pull-down duration	0	
r97	Pull-down limit temperature	0	
A03	Delay for temperature alarm (normal conditions)	30	min
A12	Delay for temperature alarm (pull down/start-up/defrost)	60	min
A13	High temperature alarm limit	100	°C
A14	Low temperature alarm limit	-30	°C
A27	DI1 delay	30	min
A37	Condenser high alarm limit	80	°C
A54	Condenser high block limit	85	°C
A72	Voltage protection enable	no	
A73	Minimum cut-in voltage	0	V
A74	Minimum cut-out voltage	0	V
A75	Maximum voltage	270	V
d01	Defrost method (no=no defrost, nAI=natural)	<u>no</u>	
d02	Defrost stop temperature	6	°C
d03	Defrost Interval	8	hr.
d04	Max. defrost time	30	min
d05	Defrost delay at power up	0	min
d06	Drip delay	0	min

d10	Defrost stop sensor (non=none, Air=Sair)	non	
d18	Compressor accumulated	0	hr.
d30	Defrost delay after pull-down	0	min
c01	Compressor minimum ON time	0	min
c02	Compressor minimum OFF-time	<u>0</u>	min
c04	Compressor OFF delay	0	sec
c70	Zero crossing selection	yES	
o01	Delay of outputs	<u>0</u>	sec
o02	DI1 configuration	oFF	
o03	Serial address	0	
o05	Password	no	
o06	Sensor type selection (n5=NTC5 K, n10=NTC10 K, Ptc=PTC, Pt1=Pt1000)	<u>Ptc</u>	
o07	Cooling/heating (rE=refrigeration / Ht=heat)	<u>Ht</u>	
o15	Display resolution (°C)	0.1	
o23	Relay counter	0	
o61	Predefined applications	AP0	
o67	Save settings as factory	no	
o91	Display at defrost	d	
P73	DI1 input polarity	no	
P76	Keyboard lock enable	no	
u01	Air temperature (Sair)	-	°C
u02	Read the present regulation refer- ence	-	
u10	DI1 input	-	
u13	Status of night operation	-	
u58	Compressor relay status	-	-
u80	Firmware version readout	-	

DANFOSS ERC 211 SETTINGS (CONTINUED)

MD 100-4 PT/SB	MD 100-3 SB
MD 120-5 SB	

Note! Change r05 first and r03 after!

r00	Temperature set point	<u>85</u>	°C
r01	Differential	<u>1</u>	K
r02	Min set point limitation	<u>0</u>	°C
r03	Max set point limitation	<u>99</u>	°C
r04	Display offset	0	°C
r05	Display unit (°C/°F)	°C	
r09	Calibration of Sair	<u>-6.5</u>	°C
r12	Main switch	1	
r13	Night set back	0	
r40	Thermostat reference displacement	0	
r96	Pull-down duration	0	
r97	Pull-down limit temperature	0	
A03	Delay for temperature alarm (normal conditions)	30	min
A12	Delay for temperature alarm (pull down/start-up/defrost)	60	min
A13	High temperature alarm limit	<u>100</u>	°C
A14	Low temperature alarm limit	-30	°C
A27	DI1 delay	30	min
A37	Condenser high alarm limit	80	°C
A54	Condenser high block limit	85	°C
A72	Voltage protection enable	no	
A73	Minimum cut-in voltage	0	V
A74	Minimum cut-out voltage	0	V
A75	Maximum voltage	270	V
d01	Defrost method (no=no defrost, nAt=natural)	<u>no</u>	
d02	Defrost stop temperature	6	°C
d03	Defrost Interval	8	hr.
d04	Max. defrost time	30	min
d05	Defrost delay at power up	0	min
d06	Drip delay	0	min

d10	Defrost stop sensor (non=time, Air=Sair)	non	
d18	Compressor accumulated	0	hr.
d30	Defrost delay after pull-down	0	min
c01	Compressor minimum ON time	0	min
c02	Compressor minimum OFF-time	<u>0</u>	min
c04	Compressor OFF delay	0	sec
c70	Zero crossing selection	yES	
o01	Delay of outputs	<u>0</u>	sec
o02	DI1 configuration	oFF	
o03	Serial address	0	
o05	Password	no	
o06	Sensor type selection (n5=NTC5 K, n10=NTC10 K, Ptc=PTC, Pt1=Pt1000)	<u>Ptc</u>	
o07	Cooling/heating (rE=refrigeration / Ht=heat)	<u>Ht</u>	
o15	Display resolution (°C)	0.1	
o23	Relay counter	0	
o61	Predefined applications	AP0	
o67	Save settings as factory	no	
o91	Display at defrost	d	
P73	DI1 input polarity	no	
P76	Keyboard lock enable	no	
u01	Air temperature (Sair)	-	°C
u02	Read the present regulation refer- ence	-	
u10	DI1 input	-	
u13	Status of night operation	-	
u58	Compressor relay status	-	-
u80	Firmware version readout	-	

DANFOSS ERC 211 SETTINGS (CONTINUED)

MD 120-4 PT °C	

Note! Change r05 first and r03 after!

r00	Temperature set point	90	°C
r01	Differential	1	K
r02	Min set point limitation	0	°C
r03	Max set point limitation	99	°C
r04	Display offset	0	°C
r05	Display unit (°C/°F)	°C	
r09	Calibration of Sair	-11.5	°C
r12	Main switch	1	
r13	Night set back	0	
r40	Thermostat reference displacement	0	
r96	Pull-down duration	0	
r97	Pull-down limit temperature	0	
A03	Delay for temperature alarm (normal conditions)	30	min
A12	Delay for temperature alarm (pull down/start-up/defrost)	60	min
A13	High temperature alarm limit	100	°C
A14	Low temperature alarm limit	-30	°C
A27	DI1 delay	30	min
A37	Condenser high alarm limit	80	°C
A54	Condenser high block limit	85	°C
A72	Voltage protection enable	no	
A73	Minimum cut-in voltage	0	V
A74	Minimum cut-out voltage	0	V
A75	Maximum voltage	270	V
d01	Defrost method (no=no defrost, nAt=natural)	no	
d02	Defrost stop temperature	6	°C
d03	Defrost Interval	8	hr.
d04	Max. defrost time	30	min
d05	Defrost delay at power up	0	min
d06	Drip delay	0	min

d10	Defrost stop sensor (non=lime, Air=Sair)	non	
d18	Compressor accumulated	0	hr.
d30	Defrost delay after pull-down	0	min
c01	Compressor minimum ON time	0	min
c02	Compressor minimum OFF-time	0	min
c04	Compressor OFF delay	0	sec
c70	Zero crossing selection	yES	
o01	Delay of outputs	0	sec
o02	DI1 configuration	oFF	
o03	Serial address	0	
o05	Password	no	
o06	Sensor type selection (n5=NTC5 K, n10=NTC10 K, Ptc=PTC, Pt1=Pt1000)	Ptc	
o07	Cooling/heating (rE=refrigeration / Ht=heat)	Ht	
o15	Display resolution (°C)	0.1	
o23	Relay counter	0	
o61	Predefined applications	AP0	
o67	Save settings as factory	no	
o91	Display at defrost	d	
P73	DI1 input polarity	no	
P76	Keyboard lock enable	no	
u01	Air temperature (Sair)	-	°C
u02	Read the present regulation refer- ence	-	
u10	DI1 input	-	
u13	Status of night operation	-	
u58	Compressor relay status	-	-
u80	Firmware version readout	-	

ADJUSTING DANFOSS EKC 102A THERMOSTAT TILL SERIAL NUMBER 100080280

Note: In order to adjust the thermostat, first remove the thermostat according prior procedure.

Changing set point

1. Press the middle button until the temperature value is shown.
2. Change value with upper or lower button.
3. Press the middle button to confirm.

Setting internal parameters

1. Press the upper button for 3 seconds. In display the first parameter appears (ro1).
2. Press the middle button to read out value.
3. Change value with upper or lower button.
4. Press the middle button to confirm.
5. Press the lower button for the next parameter. Follow instructions 2 to 4.

When no key is pressed after last confirmation, system goes back to normal operation mode after 20 seconds.

Replacing of thermostat

When you install a new thermostat, then always change parameter r05 first to 0 (°C) and change parameter o07 to HE. Otherwise some other parameters cannot be changed to the desired value. Otherwise some other parameters cannot be changed to the desired value. You can run through the parameters with the up or down keys, once you are inside the parameter settings.

Options

1. Return to factory settings. Turn the power off. Press and hold the upper and lower button and switch the power on at the same time.
2. Actual temperature of sensor 1 (Thermostat). Press up key shortly 2 times.

Error codes on display

E1: Fault in controller.

E29: Cabinet sensor broken or wiring problem sensor.

DANFOSS EKC 102A SETTINGS TILL SERIAL NUMBER 100080280

Parameters Danfoss EKC 102A thermostat

SB = Solid Back

PT = Pass Through

			MD 100 4 level SB and PT	MD 120 5 level SB All other models
	Setpoint	°C	85	85
r01	Differential	°C	1	1
r02	Higher setpoint limit	°C	99	99
r03	Lower setpoint limit	°C	0	0
r04	Off-set temperature indication	°C	0	0
r05	Temperature unit (°C / °F)	°C	°C	°C
r09	Correction of signal from air output	°C	-5	-10
r12	Start / stop of temperature control		1	1
c01	Minimum "ON" time compressor	min	0	0
c02	Minimum "OFF" time compressor	min	0	0
c30	Reversed function of relay contact		OFF	OFF
d01	Defrost method (0 = none)		0	0
d02	Defrost end temperature	°C	6	6
d03	Defrost interval	hour	8	8
d04	Maximum defrost time	min	45	45
d05	"ON" delay after defrost	min	0	0
d10	Defrost sensor (0=time, 1=air)		0	0
d13	Defrost at start up		no	no
o01	Output delay after start up	sec	0	0
o05	Access code all settings		0	0
o06	Sensor type		ptc	ptc
o07	Warm (HE) / cold (rE)		HE	HE
o15	Step value display (yes = 0.5°C / no = 1°C)		no	no
o67	Store current parameter as factory default		OFF	OFF
u58	Status relay 1		-	-

Note: r09 is a compensation when using a long sensor cable. That means that the sensor registrates/works actually 5 or 10° higher then the setpoint.
So temp. regulation is in fact on 85 + 5 or 10.

CONTROL LOCATIONS



on/off switch

On the back side with
pass through version.

On the front side with
solid back version.



thermostat EKC 211 or



EKC 102A (till serial nr. 100080082)

TROUBLESHOOTING

TROUBLE SHOOTING MULTI DECK 60/100/120 - 3-4-5 LEVEL

Symptom	Possible causes
No power to cabinet controls.	1. Main breaker open. 2. Wiring loose.
Main fuse or breaker blows.	1. Wiring incorrectly. 2. Heating element shorted. 3. Blower shorted. 4. Wiring shorted.
Illumination does not work.	1. Lamp malfunction. 2. Tumble switch malfunction. 3. Electronic ballast malfunction. 4. Wiring loose.
No heating.	1. Heating element malfunction. 2. Relay K1 malfunction. 3. Wiring loose. 4. Thermostat malfunction. 5. Sensor malfunction. 6. Sensor wiring loose.
Unit does not reach desired temperature.	1. Heating element(s) malfunction. 2. Strong air current along the unit. 3. Burned contact on contactor K1. 4. Air leak in PVC air flow system. 5. Sensor malfunction. 6. Blower malfunction.
Error message on display.	1. See errors on page 29 (ERC thermostat). 2. See errors on page 33 (EKC thermostat).
No indication on electronic thermostat.	1. Electronic thermostat malfunction. 2. Wiring loose.
Blower motor does not run.	1. Motor inoperative. 2. Wiring loose.

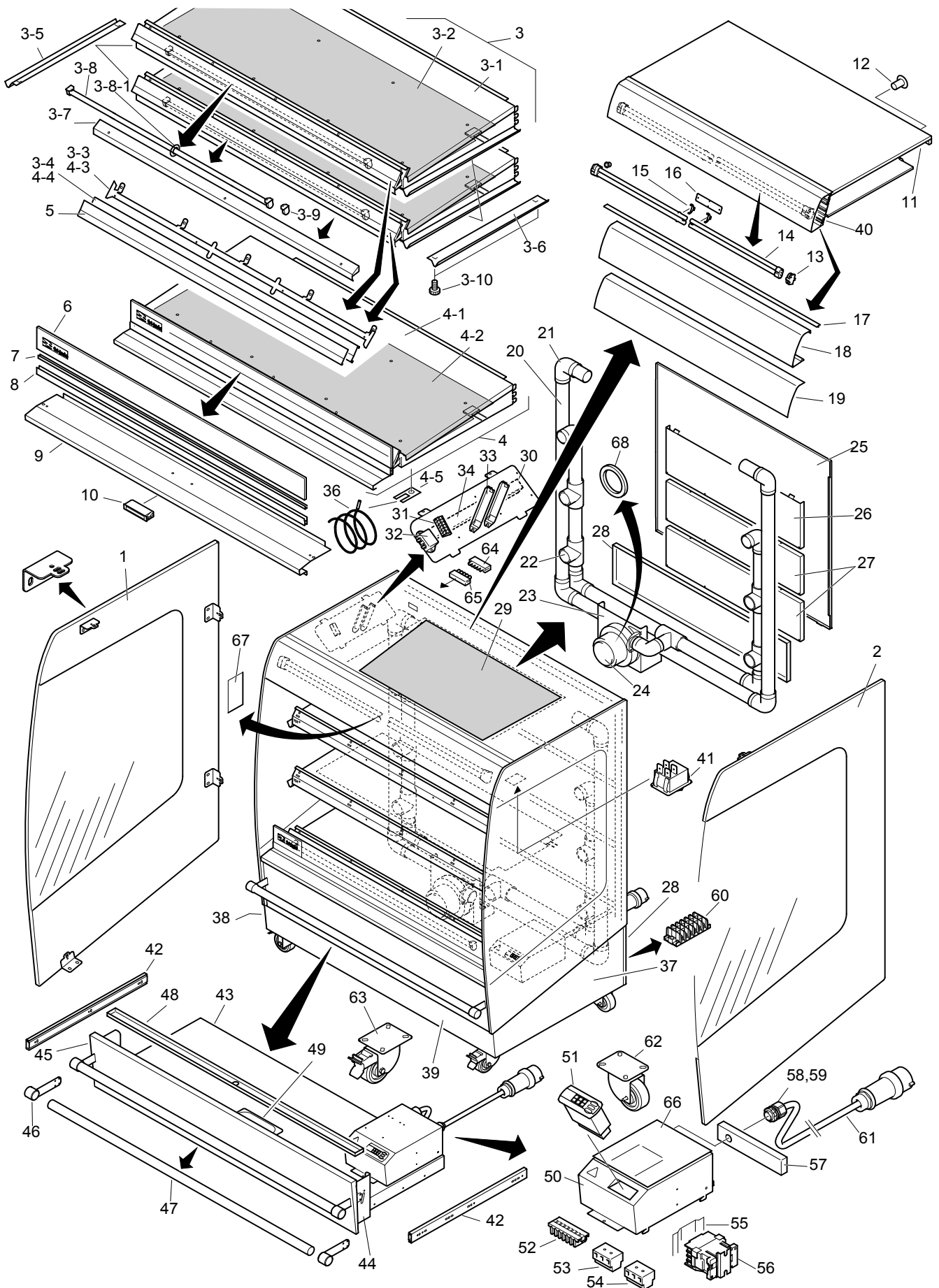
This is an analytic description for servicing and repairing all major parts of the Multi Deck Curved 60, 100 and 120 - 3-4 and 5 level. It consists of 4 basic steps to recognize and solve the problems:

1. Symptoms.
2. Possible causes.
3. Solving of the problem: checking/action.
4. Replacing of parts and testing:
 - a. Replacing is described in this service manual.
 - b. For testing see control locations on page 28 of this manual.

Description of part	Symptoms	Possible causes	Solving: checking / action
Contactor	Contactor does not come in.	Wiring. Coil malfunction. Contact burned.	Check the wiring. Check resistance of coil. This should be $\pm 525\Omega$. Check the contacts.
Heating element	The cabinet is not reaching the adjusted temperature	Wiring. Element malfunction.	Check the wiring. Check the power on the element. Check current with AC current tester. See table on page 26.
Tumble switch	Light and heating does not switch on	Wiring. Contact burned.	Check the wiring. Check the voltage on "in"- and "output".
Electronic ballast	Light does not switch on	Wiring. Ballast malfunction.	Check the wiring. Replace ballast.
lamp(s)	Light does not switch on	Wiring. Lamp(s) broken.	Check the wiring. Replace lamp(s).
Electronic thermostat	Display does not light up The cabinet is not reaching the adjusted temperature or does not heat up at all	Wiring. Loose sensor. Thermostat malfunction. Thermostat settings.	Check the wiring. Check sensor. Replace thermostat. Check parameters.
PTC 1000 sensor	The cabinet is not reaching the adjusted temperature or does not heat up at all The cabinet becomes too hot	Broken sensor. Loose sensor. Broken sensor. Sensor shorted.	Replace sensor. Check wiring. Replace sensor. Check wiring.
Blower heating system	Blower doesn't run	Wiring. Cooling.	Check wiring. Check voltage on blower. Check cooling of motor. Check if unit is close to another heat source.
	Main fuse burned	Short circuit in coil to earth.	Check insulation value of coil with a Megger on max. 500V Minimum value is $0.5M\Omega$

EXPLODED VIEWS & PART LISTS

MULTI DECK CURVED 60/100/120 - 3 LEVEL SOLID BACK



Item	Part number	Model	Qty	Description
1	9220031S	all models	1	Glass panel, left, ass.
2	9220030S	all models	1	Glass panel, right, ass.
3	.....	MD 60	2	Shelf ass. Incl. heating element
3	.....	MD 100	2	Shelf ass. Incl. heating element
3	.....	MD 120	2	Shelf ass. Incl. heating element
3-1	9226202	MD 60	2	Top plate, shelf
3-1	9226402	MD 100	2	Top plate, shelf
3-1	9226602	MD 120	2	Top plate, shelf
3-2	9222402	MD 60	2	Heating element, 600 W
3-2	9222408	MD 100	2	Heating element, 900 W
3-2	9222403	MD 120	2	Heating element, 1060 W
3-3	9226156	MD 60	2	Holder, price rail
3-3	9226355	MD 100	2	Holder, price rail
3-3	9226555	MD 120	2	Holder, price rail
3-4	9223200	MD 60	2	Price rail, transparent
3-4	9223208	MD 100	2	Price rail, transparent
3-4	9223207	MD 120	2	Price rail, transparent
3-5	9226108	all models	2	Airblock profile, left
3-6	9226109	all models	2	Airblock profile, right
3-7	9226116	MD 60	2	Light fixture
3-7	9226321	MD 100	2	Light fixture
3-7	9226521	MD 120	2	Light fixture
3-8	9221026S	MD 60	2	TL lamp 8 W, with 1 rubber locking ring
3-8	9221027S	MD 100-120	2	TL lamp 21 W, with 1 rubber locking rings
3-8-1	9221050	all models	2	Locking ring
3-9	9221025	all models	4	Lamp holder
3-10	4280560	all models	8	Knurled bolt
4	.....	MD 60	1	Shelf ass. Incl. heating element
4	.....	MD 100	1	Shelf ass. Incl. heating element
4	.....	MD 120	1	Shelf ass. Incl. heating element
4-1	9226202	MD 60	1	Top plate, shelf
4-1	9226402	MD 100	1	Top plate, shelf
4-1	9226602	MD 120	1	Top plate, shelf
4-2	9222402	MD 60	1	Heating element, 600 W
4-2	9222408	MD 100	1	Heating element, 900 W
4-2	9222403	MD 120	1	Heating element, 1060 W
4-3	9226156	MD 60	1	Holder, price rail
4-3	9226355	MD 100	1	Holder, price rail
4-3	9226555	MD 120	1	Holder, price rail
4-4	9223200	MD 60	1	Price rail, transparent
4-4	9223208	MD 100	1	Price rail, transparent
4-4	9223207	MD 120	1	Price rail, transparent
4-5	9224718	all models	1	Sensor holder

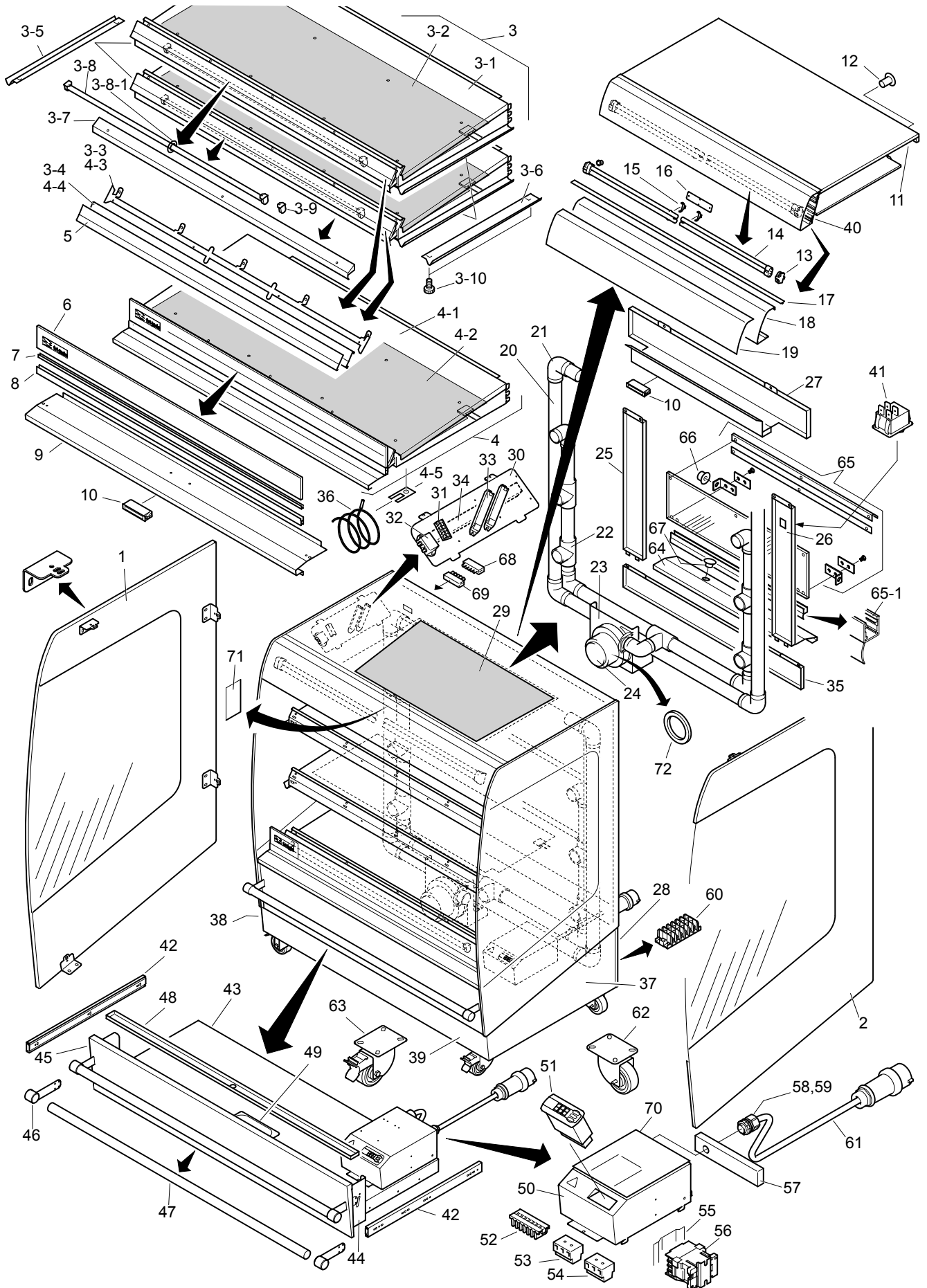
Item	Part number	Model	Qty	Description
5	9222626	MD 60	2	Diastrip, price rail brown
5	9222625	MD 100	2	Diastrip, price rail brown
5	9222624	MD 120	2	Diastrip, price rail brown
5A	9222639	MD 60	2	Diastrip, price rail black
5A	9222638	MD 100	2	Diastrip, price rail black
5A	9222637	MD 120	2	Diastrip, price rail black
6	9222465	MD 60	1	Childguard
6	9222466	MD 100	1	Childguard
6	9222467	MD 120	1	Childguard
7	9221012	MD 60	0.6 mtr	Plastic profile
7	9221012	MD 100	1 mtr	Plastic profile
7	9221012	MD 120	1.2 mtr	Plastic profile
8	9223212	MD 60	1	Holder, childguard
8	9223211	MD 100	1	Holder, childguard
8	9223210	MD 120	1	Holder, childguard
9	9226150	MD 60	1	Cover profile
9	9226354	MD 100	2	Cover profile
9	9226554	MD 120	1	Cover profile
10	3701025	all models	1	Doormagnet
11	9226155	MD 60	1	Top plate
11	9226350	MD 100	1	Top plate
11	9226550	MD 120	1	Top plate
12	9281039	all models	2	Plug, 14.3 mm
13	9221030	MD 60	1	Lamp holder
13	9221030	MD 100-120	2	Lamp holder
14	9160019	MD 60	1	Lamp, PLL 55 W
14	9221006	MD 100	2	Lamp, PLL 36 W
14	9160019	MD 120	2	Lamp, PLL 55 W
15	9222210	MD 60	1	Bracket, lamp
15	9222210	MD 100-120	2	Bracket, lamp
16	9224721	all models	1	Clamp plate
17	9221032	MD 60	0.6 mtr	PVC T-profile
17	9221032	MD 100	1 mtr	PVC T-profile
17	9221032	MD 120	1.2 mtr	PVC T-profile
18	9223218	MD 60	1	Plastic cover
18	9223217	MD 100	1	Plastic cover
18	9223216	MD 120	1	Plastic cover
19	9222622	MD 60	1	Dia strip, top brown
19	9222621	MD 100	1	Dia strip, top brown
19	9222620	MD 120	1	Dia strip, top brown
19A	9222636	MD 60	1	Dia strip, top black
19A	9222635	MD 100	1	Dia strip, top black
19A	9222634	MD 120	1	Dia strip, top black
20	9281035	all models		PVC tube Ø 50 x 3.7 mm
21	9281032	all models		PVC elbow 50 mm
22	9281033	all models		PVC T-joint 50 mm
23	9220509	all models	1	Support for blower
24	9281034	all models	1	Blower
25	9226105	MD 60	1	Rear panel
25	9226305	MD 100	1	Rear panel
25	9226505	MD 120	1	Rear panel

Item	Part number	Model	Qty	Description
26	9226112	MD 60	1	Rear plate, inside top
26	9226312	MD 100	1	Rear plate, inside top
26	9226512	MD 120	1	Rear plate, inside top
27	9226113	MD 60	2	Rear plate, inside
27	9226313	MD 100	2	Rear plate, inside
27	9226513	MD 120	2	Rear plate, inside
28	9226117	MD 60	1	Rear plate, bottom
28	9226358	MD 100	1	Rear plate, bottom
28	9226558	MD 120	1	Rear plate, bottom
29	9222410	MD 60	1	Heating element top, 400 W
29	9222402	MD 100	1	Heating element top, 600 W
29	9222408	MD 120	1	Heating element top, 900 W
30	9224717	all models	1	Mounting plate, electrical components
31	8072071	all models	1	Connecting block
32	9221013	all models	1	Interference filter
33	9221028	MD 60	2	Ballast, 4/6/8/13 W
33	9221029	MD 100-120	2	Ballast, 14/21 W
34	9221015	MD 60	1	Ballast, 55 W
34	9221014	MD 100	1	Ballast, 2x36 W
34	9181009	MD 120	1	Ballast, 2x54 W
36	9221011	all models	1	Temperature sensor
37	9224703	all models	1	Side panel, right
38	9224702	all models	1	Side panel, left
39	9226151	MD 60	1	Front panel, bottom side
39	9226356	MD 100	1	Front panel, bottom side
39	9226556	MD 120	1	Front panel, bottom side
40	9223222	MD 60	1	Base profile, Alum.
40	9223221	MD 100	1	Base profile, Alum.
40	9223220	MD 120	1	Base profile, Alum.
41	9181008	all models	1	Tumble switch
42	9221023	all models	1 set	Drawer slide
43	9226102	MD 60	1	Base plate, drawer
43	9226316	MD 100	1	Base plate, drawer
43	9226516	MD 120	1	Base plate, drawer
44	9226119	MD 60	1	Reinforcement profile
44	9226326	MD 100	1	Reinforcement profile
44	9226526	MD 120	1	Reinforcement profile
45	9226104	MD 60	1	Front, drawer
45	9226317	MD 100	1	Front, drawer
45	9226517	MD 120	1	Front, drawer
46	9220503	all models	2	Endcover, bar
47	9223215	MD 60	1	Bumper bar
47	9223214	MD 100	1	Bumper bar
47	9223213	MD 120	1	Bumper bar
48	9226120	MD 60	1	Drip tray
48	9226327	MD 100	1	Drip tray
48	9226527	MD 120	1	Drip tray
49	9221031	all models	1	GN tray 1/9
50	9226103	all models	1	Connection box

Item	Part number	Model	Qty	Description
51	92211095	all models	1	Thermostat ERC 211
52	9151010	all models	1	Connecting block, 6-pole
53	9044564	all models	1	Connecting block, 1,2,3
54	9044572	MD 100-120	1	Connecting block, 4,5,6
55	9077088	all models	1	Rail
56	3500069	all models	1	Contactor
57	9224662	all models	1	Connection profile
58	9261033	all models	2	Strain relief M25
59	9261023	all models	2	Nut M25
60	8033659	all models	1	Connecting block, 9-pole
61	9091383	MD 60	1	Connecting cable with plug
61	9070028	MD 100-120	1	Connecting cable with plug
62	9172125	MD 60	2	Ridget caster
62	9172065	MD 100-120	2	Swivel caster
63	9172066	all models	2	Swivel caster with break
64	9221036	all models	2	plug 4-pole
65	9221037	all models	2	Socket 4-pole
66	9224680	all models	1	Cover plate, box
67	9110810	all models	1	Indication plate
68	9224761	MD 60-100	1	Restriction ring

EMPTY PAGE

MULTI DECK CURVED 60/100/120 - 3 LEVEL PASS THROUGH



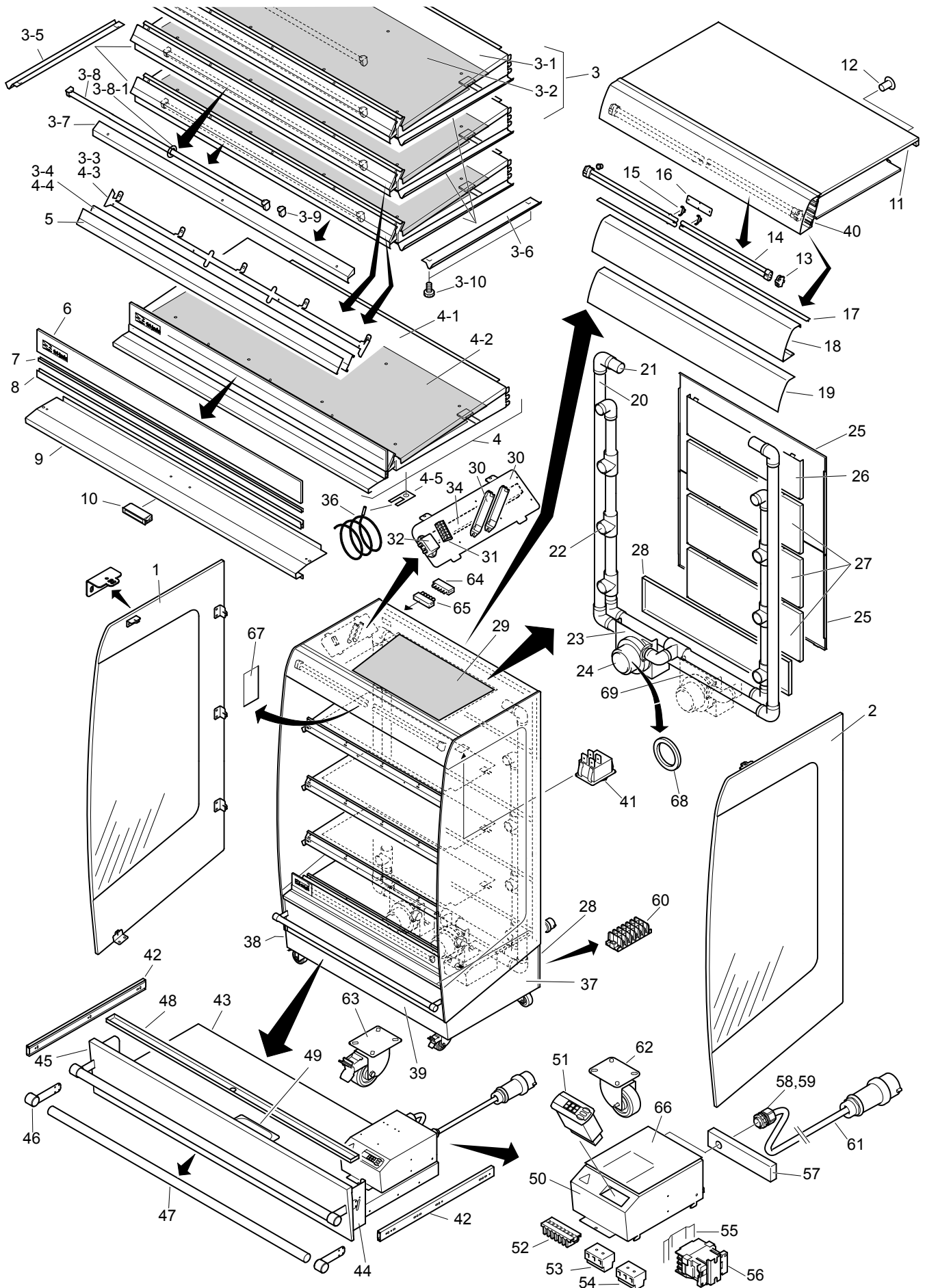
Item	Part number	Model	Qty	Description
1	92200315	all models	1	Glass panel, left, ass.
2	92200305	all models	1	Glass panel, right, ass.
3	.....	MD 60	2	Shelf ass. Incl. heating element
3	.....	MD 100	2	Shelf ass. Incl. heating element
3	.....	MD 120	2	Shelf ass. Incl. heating element
3-1	9226202	MD 60	2	Top plate, shelf
3-1	9226402	MD 100	2	Top plate, shelf
3-1	9226602	MD 120	2	Top plate, shelf
3-2	9222402	MD 60	2	Heating element, 600 W
3-2	9222408	MD 100	2	Heating element, 900 W
3-2	9222403	MD 120	2	Heating element, 1060 W
3-3	9226156	MD 60	2	Holder, price rail
3-3	9226355	MD 100	2	Holder, price rail
3-3	9226555	MD 120	2	Holder, price rail
3-4	9223200	MD 60	2	Price rail, transparent
3-4	9223208	MD 100	2	Price rail, transparent
3-4	9223207	MD 120	2	Price rail, transparent
3-5	9226108	all models	2	Airblock profile, left
3-6	9226109	all models	2	Airblock profile, right
3-7	9226116	MD 60	2	Light fixture
3-7	9226321	MD 100	2	Light fixture
3-7	9226521	MD 120	2	Light fixture
3-8	92210265	MD 60	2	TL lamp 8 W, with 1 rubber locking ring
3-8	92210275	MD 100-120	2	TL lamp 21 W, with 1 rubber locking rings
3-8-1	9221050	all models	4	Locking ring
3-9	9221025	all models	4	Lamp holder
3-10	4280560	all models	8	Knurled bolt
4	.....	MD 60	1	Shelf ass. Incl. heating element
4	.....	MD 100	1	Shelf ass. Incl. heating element
4	.....	MD 120	1	Shelf ass. Incl. heating element
4-1	9226202	MD 60	1	Top plate, shelf
4-1	9226402	MD 100	1	Top plate, shelf
4-1	9226602	MD 120	1	Top plate, shelf
4-2	9222402	MD 60	1	Heating element, 600 W
4-2	9222408	MD 100	1	Heating element, 900 W
4-2	9222403	MD 120	1	Heating element, 1060 W
4-3	9226156	MD 60	1	Holder, price rail
4-3	9226355	MD 100	1	Holder, price rail
4-3	9226555	MD 120	1	Holder, price rail
4-4	9223200	MD 60	1	Price rail, transparent
4-4	9223208	MD 100	1	Price rail, transparent
4-4	9223207	MD 120	1	Price rail, transparent
4-5	9224718	all models	1	Sensor holder

Item	Part number	Model	Qty	Description
5	9222626	MD 60	2	Diastrip, price rail brown
5	9222625	MD 100	2	Diastrip, price rail brown
5	9222624	MD 120	2	Diastrip, price rail brown
5A	9222639	MD 60	2	Diastrip, price rail black
5A	9222638	MD 100	2	Diastrip, price rail black
5A	9222637	MD 120	2	Diastrip, price rail black
6	9222465	MD 60	1	Childguard
6	9222466	MD 100	1	Childguard
6	9222467	MD 120	1	Childguard
7	9221012	MD 60	0.6 mtr	Plastic profile
7	9221012	MD 100	1 mtr	Plastic profile
7	9221012	MD 120	1.2 mtr	Plastic profile
8	9223212	MD 60	1	Holder, childguard
8	9223211	MD 100	1	Holder, childguard
8	9223210	MD 120	1	Holder, childguard
9	9226150	MD 60	1	Cover profile
9	9226354	MD 100	2	Cover profile
9	9226554	MD 120	1	Cover profile
10	3701025	all models	7	Doormagnet
11	9226155	MD 60	1	Top plate
11	9226350	MD 100	1	Top plate
11	9226550	MD 120	1	Top plate
12	9281039	all models	2	Plug, 14.3 mm
13	9221030	MD 60	1	Lamp holder
13	9221030	MD 100-120	2	Lamp holder
14	9160019	MD 60	1	Lamp, PLL 55 W
14	9221006	MD 100	2	Lamp, PLL 36 W
14	9160019	MD 120	2	Lamp, PLL 55 W
15	9222210	MD 60	1	Bracket, lamp
15	9222210	MD 100-120	2	Bracket, lamp
16	9224721	all models	1	Clamp plate
17	9221032	MD 60	0.6 mtr	PVC T-profile
17	9221032	MD 100	1 mtr	PVC T-profile
17	9221032	MD 120	1.2 mtr	PVC T-profile
18	9223218	MD 60	1	Plastic cover
18	9223217	MD 100	1	Plastic cover
18	9223216	MD 120	1	Plastic cover
19	9222622	MD 60	1	Dia strip, top brown
19	9222621	MD 100	1	Dia strip, top brown
19	9222620	MD 120	1	Dia strip, top brown
19A	9222636	MD 60	1	Dia strip, top black
19A	9222635	MD 100	1	Dia strip, top black
19A	9222634	MD 120	1	Dia strip, top black
20	9281035	all models		PVC tube Ø 50 x 3.7 mm
21	9281032	all models		PVC elbow 50 mm
22	9281033	all models		PVC T-joint 50 mm
23	9220509	all models	1	Support for blower
24	9281034	all models	1	Blower
25	9226206	all models	1	Cover panel, right

Item	Part number	Model	Qty	Description	Item	Part number	Model	Qty	Description
26	9226207	all models	1	Cover panel, left	50	9226103	all models	1	Connection box
27	9226121	MD 60	1	Magnet holder profile, top	51	9221109S	all models	1	Thermostat ERC 211
27	9226324	MD 100	1	Magnet holder profile, top	52	9151010	all models	1	Connecting block, 6-pol.
27	9226524	MD 120	1	Magnet holder profile, top	53	9044564	all models	1	Connecting block, 1,2,3
28	9226117	MD 60	1	Rear plate, bottom	54	9044572	MD 100-120	1	Connecting block, 4,5,6
28	9226358	MD 100	1	Rear plate, bottom	55	9077088	all models	1	Rail
28	9226558	MD 120	1	Rear plate, bottom	56	3500069	all models	1	Contactor
29	9222410	MD 60	1	Heating element top, 400 W	57	9224662	all models	1	Connection profile
29	9222402	MD 100	1	Heating element top, 600 W	58	9261033	MD 100-120	2	Strain relief M25
29	9222408	MD 120	1	Heating element top, 900 W	59	9261023	all models	2	Nut M25
30	9224717	all models	1	Mounting plate, electrical components	60	8033659	all models	1	Connecting block, 9-pol.
31	8072071	all models	1	Connecting block	61	9091383	MD 60	1	Connecting cable with plug
32	9221013	all models	1	Interference filter	61	9070028	MD 100-120	1	Connecting cable with plug
33	9221028	MD 60	2	Ballast, 4/6/8/13 W	62	9172125	MD 60	2	Ridget caster
33	9221029	MD 100-120	2	Ballast, 14/21 W	62	9172065	MD 100-120	2	Swivel caster
34	9221015	MD 60	1	Ballast, 55 W	63	9172066	all models	2	Swivel caster with break
34	9221014	MD 100	1	Ballast, 2x36 W	64	9226115	MD 60	1	Base profile swingdoor
34	9181009	MD 120	1	Ballast, 2x54 W	64	9226319	MD 100	1	Base profile swingdoor
35	9226122	MD 60	1	Cover panel, bottom	64	9226519	MD 120	1	Base profile swingdoor
35	9226325	MD 100	1	Cover panel, bottom	65	9220294S	MD 60	3	Swingdoor, ass.
35	9226525	MD 120	1	Cover panel, bottom	65	9220274S	MD 100	3	Swingdoor, ass.
36	9221011	all models	1	Temperature sensor	65	9220254S	MD 120	3	Swingdoor, ass.
37	9224703	all models	1	Side panel, right	65-1	9221056	MD 60	0.17 mtr	Profile sealing, with side lip
38	9224702	all models	1	Side panel, left	65-1	9221056	MD 100	0.57 mtr	Profile sealing, with side lip
39	9226151	MD 60	1	Front panel, bottom side	65-1	9221056	MD 120	0.77 mtr	Profile sealing, with side lip
39	9226356	MD 100	1	Front panel, bottom side	66	9087562	all models	6	Brass bearing 6 mm
39	9226556	MD 120	1	Front panel, bottom side	67	9172419	all models	6	Plug, 20.6 mm
40	9223222	MD 60	1	Base profile, Alum.	68	9221036	all models	2	plug 4-pole
40	9223221	MD 100	1	Base profile, Alum.	69	9221037	all models	2	Socket 4-pole
40	9223220	MD 120	1	Base profile, Alum.	70	9224680	all models	1	Cover plate, box
41	9181008	all models	1	Tumble switch	71	9110810	all models	1	Indication plate
42	9221023	all models	1 set	Drawer slide	72	9224761	MD 60-100	1	Restriction ring
43	9226102	MD 60	1	Base plate, drawer					
43	9226316	MD 100	1	Base plate, drawer					
43	9226516	MD 120	1	Base plate, drawer					
44	9226119	MD 60	1	Reinforcement profile					
44	9226326	MD 100	1	Reinforcement profile					
44	9226526	MD 120	1	Reinforcement profile					
45	9226104	MD 60	1	Front, drawer					
45	9226317	MD 100	1	Front, drawer					
45	9226517	MD 120	1	Front, drawer					
46	9220503	all models	2	Endcover, bar					
47	9223215	MD 60	1	Bumper bar					
47	9223214	MD 100	1	Bumper bar					
47	9223213	MD 120	1	Bumper bar					
48	9226120	MD 60	1	Drip tray					
48	9226327	MD 100	1	Drip tray					
48	9226527	MD 120	1	Drip tray					
49	9221031	all models	1	GN tray 1/9					

EMPTY PAGE

MULTI DECK CURVED 60/100/120 - 4 LEVEL SOLID BACK



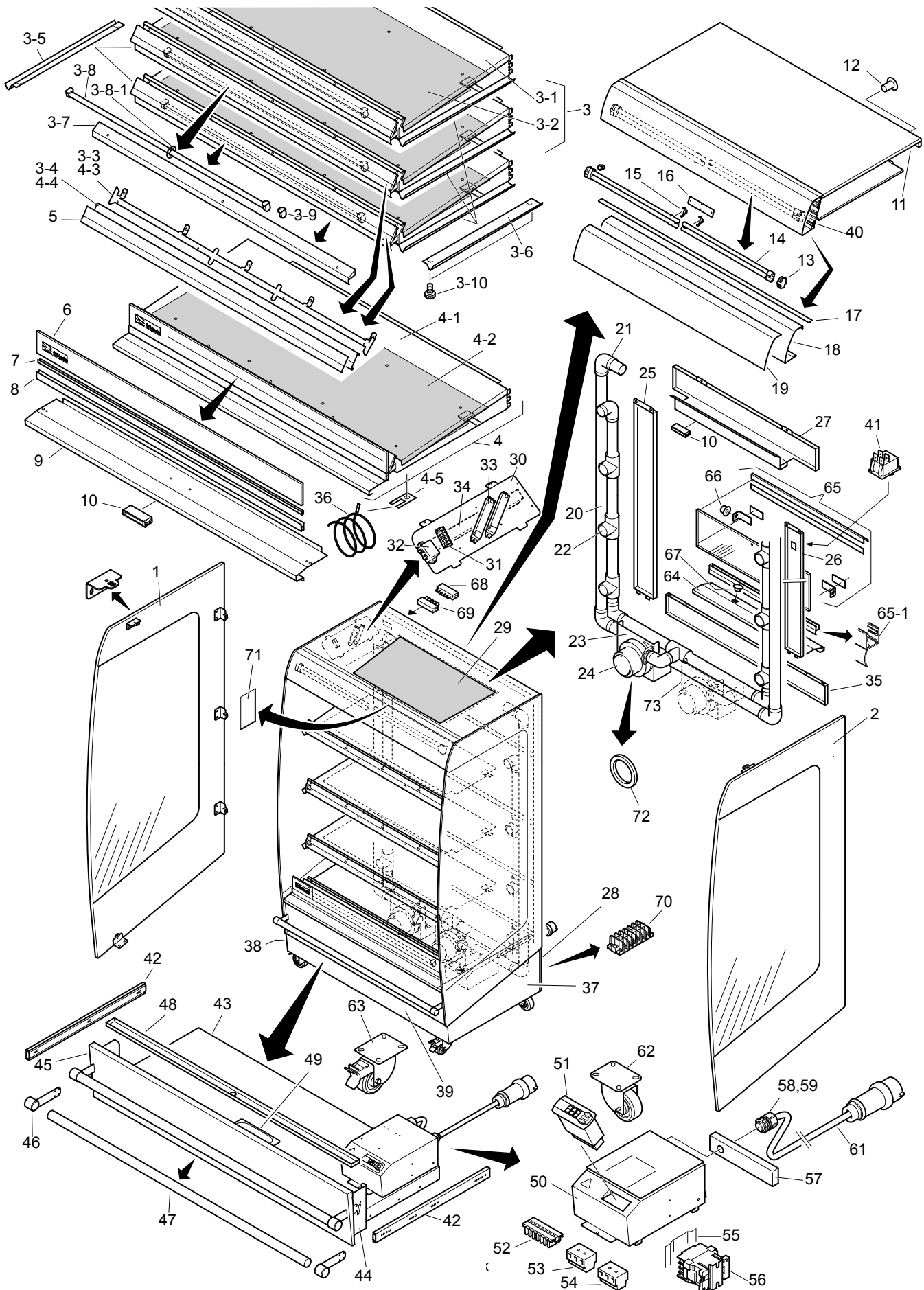
Item	Part number	Model	Qty	Description	Item	Part number	Model	Qty	Description
1	92200335	all models	1	Glass panel, left, ass.	5	9222626	MD 60	3	Diastrip, price rail brown
2	92200325	all models	1	Glass panel, right, ass.	5	9222625	MD 100	3	Diastrip, price rail brown
3	.....	MD 60	3	Shelf ass. Incl. heating element	5	9222624	MD 120	3	Diastrip, price rail brown
3	.....	MD 100	3	Shelf ass. Incl. heating element	5A	9222639	MD 60	3	Diastrip, price rail black
3	.....	MD 120	3	Shelf ass. Incl. heating element	5A	9222638	MD 100	3	Diastrip, price rail black
3-1	9226202	MD 60	3	Top plate, shelf	5A	9222637	MD 120	3	Diastrip, price rail black
3-1	9226402	MD 100	3	Top plate, shelf	6	9222465	MD 60	1	Childguard
3-1	9226602	MD 120	3	Top plate, shelf	6	9222466	MD 100	1	Childguard
3-2	9222402	MD 60	3	Heating element, 600 W	6	9222467	MD 120	1	Childguard
3-2	9222408	MD 100	3	Heating element, 900 W	7	9221012	MD 60	0.6 mtr	Plastic profile
3-2	9222403	MD 120	3	Heating element, 1060 W	7	9221012	MD 100	1 mtr	Plastic profile
3-3	9226156	MD 60	3	Holder, price rail	7	9221012	MD 120	1.2 mtr	Plastic profile
3-3	9226355	MD 100	3	Holder, price rail	8	9223212	MD 60	1	Holder, childguard
3-3	9226555	MD 120	3	Holder, price rail	8	9223211	MD 100	1	Holder, childguard
3-4	9223200	MD 60	3	Price rail, transparent	8	9223210	MD 120	1	Holder, childguard
3-4	9223208	MD 100	3	Price rail, transparent	9	9226150	MD 60	1	Cover profile
3-4	9223207	MD 120	3	Price rail, transparent	9	9226354	MD 100	2	Cover profile
3-5	9226108	all models	3	Airblock profile, left	9	9226554	MD 120	1	Cover profile
3-6	9226109	all models	3	Airblock profile, right	10	3701025	all models	1	Doormagnet
3-7	9226116	MD 60	3	Light fixture	11	9226155	MD 60	1	Top plate
3-7	9226321	MD 100	3	Light fixture	11	9226350	MD 100	1	Top plate
3-7	9226521	MD 120	3	Light fixture	11	9226550	MD 120	1	Top plate
3-8	92210265	MD 60	3	TL lamp 8 W, with 1 rubber locking ring	12	9281039	all models	2	Plug, 14.3 mm
3-8	92210275	MD 100-120	3	TL lamp 21 W, with 1 rubber locking rings	13	9221030	MD 60	1	Lamp holder
3-8-1	9221050	all models	6	Locking ring	13	9221030	MD 100-120	2	Lamp holder
3-9	9221025	all models	6	Lamp holder	14	9160019	MD 60	1	Lamp, PLL 55 W
3-10	4280560	all models	12	Knurled bolt	14	9221006	MD 100	2	Lamp, PLL 36 W
4	.....	MD 60	1	Shelf ass. Incl. heating element	14	9160019	MD 120	2	Lamp, PLL 55 W
4	.....	MD 100	1	Shelf ass. Incl. heating element	15	9222210	MD 60	1	Bracket, lamp
4	.....	MD 120	1	Shelf ass. Incl. heating element	15	9222210	MD 100-120	2	Bracket, lamp
4-1	9226202	MD 60	1	Top plate, shelf	16	9224721	all models	1	Clamp plate
4-1	9226402	MD 100	1	Top plate, shelf	17	9221032	MD 60	0.6 mtr	PVC T-profile
4-1	9226602	MD 120	1	Top plate, shelf	17	9221032	MD 100	1 mtr	PVC T-profile
4-2	9222402	MD 60	1	Heating element, 600 W	17	9221032	MD 120	1.2 mtr	PVC T-profile
4-2	9222408	MD 100	1	Heating element, 900 W	18	9223218	MD 60	1	Plastic cover
4-2	9222403	MD 120	1	Heating element, 1060 W	18	9223217	MD 100	1	Plastic cover
4-3	9226156	MD 60	1	Holder, price rail	18	9223216	MD 120	1	Plastic cover
4-3	9226355	MD 100	1	Holder, price rail	19	9222622	MD 60	1	Dia strip, top brown
4-3	9226555	MD 120	1	Holder, price rail	19	9222621	MD 100	1	Dia strip, top brown
4-4	9223200	MD 60	1	Price rail, transparent	19	9222620	MD 120	1	Dia strip, top brown
4-4	9223208	MD 100	1	Price rail, transparent	19A	9222636	MD 60	1	Dia strip, top black
4-4	9223207	MD 120	1	Price rail, transparent	19A	9222635	MD 100	1	Dia strip, top black
4-5	9224718	all models	1	Sensor holder	19A	9222634	MD 120	1	Dia strip, top black
					20	9281035	all models		PVC tube Ø 50 x 3.7 mm
					21	9281032	all models		PVC elbow 50 mm
					22	9281033	all models		PVC T-joint 50 mm
					23	9220509	MD 60	1	Support for blower
					24	9281034	MD60-100	1	Blower
					24	9281034	MD 120	2	Blower

Item	Part number	Model	Qty	Description
25	9226129	MD 60	1	Rear panel (1part)
25	9226314	MD 100	1	Rear panel (2 parts)
25	9226514	MD 120	1	Rear panel (2 parts)
26	9226134	MD 60	1	Rear plate, inside top
26	9226332	MD 100	1	Rear plate, inside top
26	9226536	MD 120	1	Rear plate, inside top
27	9226133	MD 60	3	Rear plate, inside
27	9226333	MD 100	3	Rear plate, inside
27	9226537	MD 120	3	Rear plate, inside
28	9226117	MD 60	1	Rear plate, bottom
28	9226358	MD 100	1	Rear plate, bottom
28	9226558	MD 120	1	Rear plate, bottom
29	9222410	MD 60	1	Heating element top, 400 W
29	9222402	MD 100	1	Heating element top, 600 W
29	9222408	MD 120	1	Heating element top, 900 W
30	9224717	all models	1	Mounting plate, eletrical components
31	8072071	all models	1	Connecting block
32	9221013	all models	1	Interference filter
33	9221028	MD 60	3	Ballast, 4/6/8/13 W
33	9221029	MD 100-120	3	Ballast, 14/21 W
34	9221015	MD 60	1	Ballast, 55 W
34	9221014	MD 100	1	Ballast, 2x36 W
34	9181009	MD 120	1	Ballast, 2x54 W
36	9221011	all models	1	Temperature sensor
37	9224703	all models	1	Side panel, right
38	9224702	all models	1	Side panel, left
39	9226151	MD 60	1	Front panel, bottom side
39	9226356	MD 100	1	Front panel, bottom side
39	9226556	MD 120	1	Front panel, bottom side
40	9223222	MD 60	1	Base profile, Alum.
40	9223221	MD 100	1	Base profile, Alum.
40	9223220	MD 120	1	Base profile, Alum.
41	9181008	all models	1	Tumble switch
42	9221023	all models	1 set	Drawer slide
43	9226102	MD 60	1	Base plate, drawer
43	9226316	MD 100	1	Base plate, drawer
43	9226516	MD 120	1	Base plate, drawer
44	9226119	MD 60	1	Reinforcement profile
44	9226326	MD 100	1	Reinforcement profile
44	9226526	MD 120	1	Reinforcement profile
45	9226104	MD 60	1	Front, drawer
45	9226317	MD 100	1	Front, drawer
45	9226517	MD 120	1	Front, drawer
46	9220503	all models	2	Endcover, bar
47	9223215	MD 60	1	Bumper bar
47	9223214	MD 100	1	Bumper bar
47	9223213	MD 120	1	Bumper bar
48	9226120	MD 60	1	Drip tray
48	9226327	MD 100	1	Drip tray

[illegible]

EMPTY PAGE

MULTI DECK CURVED 60/100/120 - 4 LEVEL PASS THROUGH



Item	Part number	Model	Qty	Description
1	92200335	all models	1	Glass panel, left, ass.
2	92200325	all models	1	Glass panel, right, ass.
3	.....	MD 60	3	Shelf ass. Incl. heating element
3	.....	MD 100	3	Shelf ass. Incl. heating element
3	.....	MD 120	3	Shelf ass. Incl. heating element
3-1	9226202	MD 60	3	Top plate, shelf
3-1	9226402	MD 100	3	Top plate, shelf
3-1	9226602	MD 120	3	Top plate, shelf
3-2	9222402	MD 60	3	Heating element, 600 W
3-2	9222408	MD 100	3	Heating element, 900 W
3-2	9222403	MD 120	3	Heating element, 1060 W
3-3	9226156	MD 60	3	Holder, price rail
3-3	9226355	MD 100	3	Holder, price rail
3-3	9226555	MD 120	3	Holder, price rail
3-4	9223200	MD 60	3	Price rail, transparent
3-4	9223208	MD 100	3	Price rail, transparent
3-4	9223207	MD 120	3	Price rail, transparent
3-5	9226108	all models	3	Airblock profile, left
3-6	9226109	all models	3	Airblock profile, right
3-7	9226116	MD 60	3	Light fixture
3-7	9226321	MD 100	3	Light fixture
3-7	9226521	MD 120	3	Light fixture
3-8	92210265	MD 60	3	TL lamp 8 W, with 1 rubber locking ring
3-8	92210275	MD 100-120	3	TL lamp 21 W, with 1 rubber locking rings
3-8-1	9221050	all models	6	Locking ring
3-9	9221025	all models	8	Lamp holder
3-10	4280560	all models	12	Knurled bolt
4	.....	MD 60	1	Shelf ass. Incl. heating element
4	.....	MD 100	1	Shelf ass. Incl. heating element
4	.....	MD 120	1	Shelf ass. Incl. heating element
4-1	9226202	MD 60	1	Top plate, shelf
4-1	9226402	MD 100	1	Top plate, shelf
4-1	9226602	MD 120	1	Top plate, shelf
4-2	9222402	MD 60	1	Heating element, 600 W
4-2	9222408	MD 100	1	Heating element, 900 W
4-2	9222403	MD 120	1	Heating element, 1060 W
4-3	9226156	MD 60	1	Holder, price rail
4-3	9226355	MD 100	1	Holder, price rail
4-3	9226555	MD 120	1	Holder, price rail
4-4	9223200	MD 60	1	Price rail, transparent
4-4	9223208	MD 100	1	Price rail, transparent
4-4	9223207	MD 120	1	Price rail, transparent
4-5	9224718	all models	1	Sensor holder
5	9222626	MD 60	3	Diastrip, price rail brown
5	9222625	MD 100	3	Diastrip, price rail brown

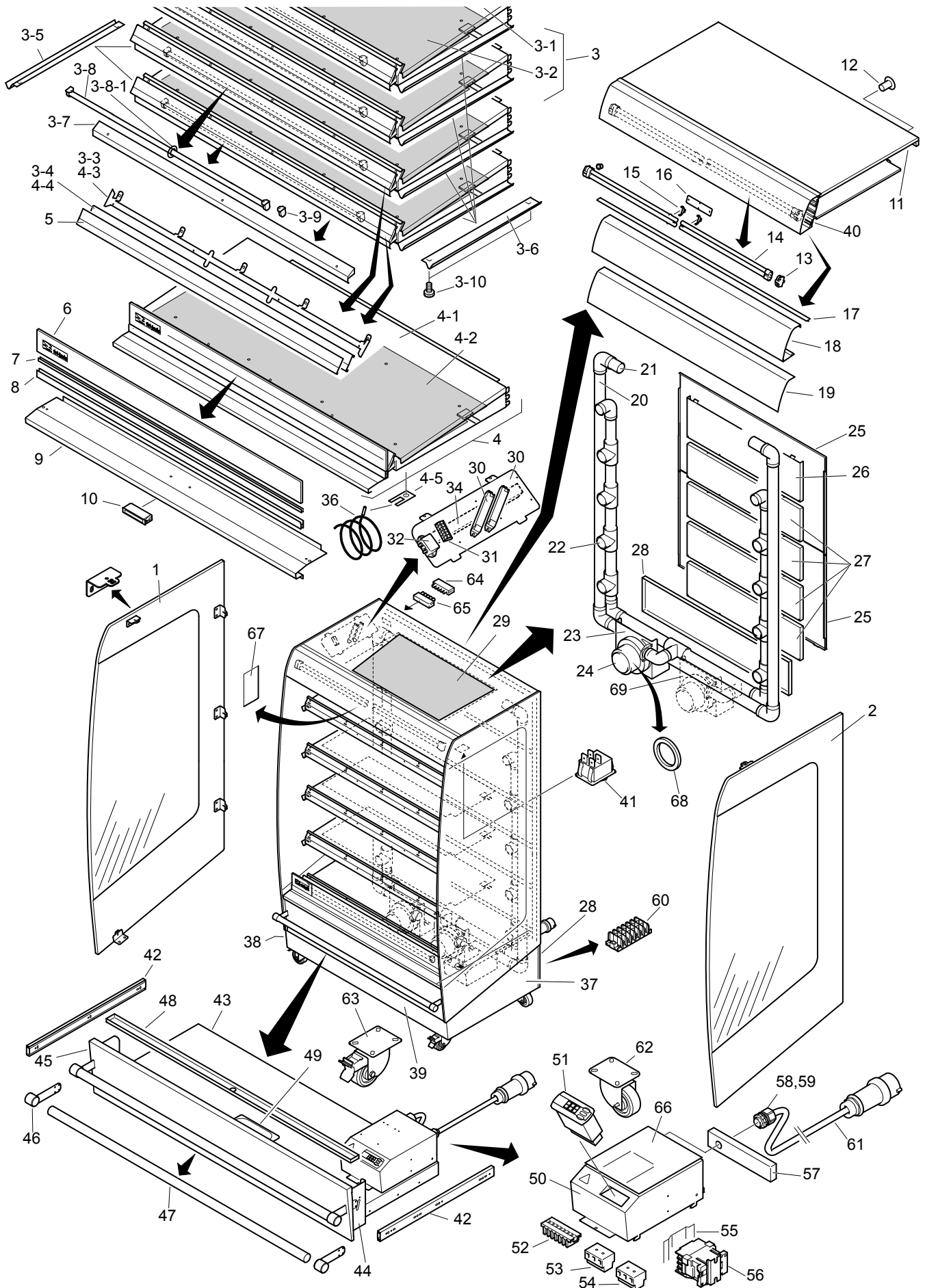
Item	Part number	Model	Qty	Description
5	9222624	MD 120	3	Diastrip, price rail brown
5A	9222639	MD 60	3	Diastrip, price rail black
5A	9222638	MD 100	3	Diastrip, price rail black
5A	9222637	MD 120	3	Diastrip, price rail black
6	9222465	MD 60	1	Childguard
6	9222466	MD 100	1	Childguard
6	9222467	MD 120	1	Childguard
7	9221012	MD 60	0.6 mtr	Plastic profile
7	9221012	MD 100	1 mtr	Plastic profile
7	9221012	MD 120	1.2 mtr	Plastic profile
8	9223212	MD 60	1	Holder, childguard
8	9223211	MD 100	1	Holder, childguard
8	9223210	MD 120	1	Holder, childguard
9	9226150	MD 60	1	Cover profile
9	9226354	MD 100	2	Cover profile
9	9226554	MD 120	1	Cover profile
10	3701025	all models	7	Doormagnet
11	9226155	MD 60	1	Top plate
11	9226350	MD 100	1	Top plate
11	9226550	MD 120	1	Top plate
12	9281039	all models	2	Plug, 14.3 mm
13	9221030	MD 60	1	Lamp holder
13	9221030	MD 100-120	2	Lamp holder
14	9160019	MD 60	1	Lamp, PLL 55 W
14	9221006	MD 100	2	Lamp, PLL 36 W
14	9160019	MD 120	2	Lamp, PLL 55 W
15	9222210	MD 60	1	Bracket, lamp
15	9222210	MD 100-120	2	Bracket, lamp
16	9224721	all models	1	Clamp plate
17	9221032	MD 60	0.6 mtr	PVC T-profile
17	9221032	MD 100	1 mtr	PVC T-profile
17	9221032	MD 120	1.2 mtr	PVC T-profile
18	9223218	MD 60	1	Plastic cover
18	9223217	MD 100	1	Plastic cover
18	9223216	MD 120	1	Plastic cover
19	9222622	MD 60	1	Dia strip, top brown
19	9222621	MD 100	1	Dia strip, top brown
19	9222620	MD 120	1	Dia strip, top brown
19A	9222636	MD 60	1	Dia strip, top black
19A	9222635	MD 100	1	Dia strip, top black
19A	9222634	MD 120	1	Dia strip, top black
20	9281035	all models		PVC tube Ø 50 x 3.7 mm
21	9281032	all models		PVC elbow 50 mm
22	9281033	all models		PVC T-joint 50 mm
23	9220509	MD 60	1	Support for blower
24	9281034	MD 60-100	1	Blower
24	9281034	MD 120	2	Blower
25	9226653	all models	1	Cover panel, right
26	9226652	all models	1	Cover panel, left
27	9226121	MD 60	1	Magnet holder profile, top
27	9226324	MD 100	1	Magnet holder profile, top
27	9226524	MD 120	1	Magnet holder profile, top

Item	Part number	Model	Qty	Description
28	9226117	MD 60	1	Rear plate, bottom
28	9226358	MD 100	1	Rear plate, bottom
28	9226558	MD 120	1	Rear plate, bottom
29	9222410	MD 60	1	Heating element top, 400 W
29	9222402	MD 100	1	Heating element top, 600 W
29	9222408	MD 120	1	Heating element top, 900 W
30	9224717	all models	1	Mounting plate, electrical components
31	8072071	all models	1	Connecting block
32	9221013	all models	1	Interference filter
33	9221028	MD 60	3	Ballast, 4/6/8/13 W
33	9221029	MD 100-120	3	Ballast, 14/21 W
34	9221015	MD 60	1	Ballast, 55 W
34	9221014	MD 100	1	Ballast, 2x36 W
34	9181009	MD 120	1	Ballast, 2x54 W
35	9226122	MD 60	1	Cover panel, bottom
35	9226325	MD 100	1	Cover panel, bottom
35	9226525	MD 120	1	Cover panel, bottom
36	9221011	all models	1	Temperature sensor
37	9224703	all models	1	Side panel, right
38	9224702	all models	1	Side panel, left
39	9226151	MD 60	1	Front panel, bottom side
39	9226356	MD 100	1	Front panel, bottom side
39	9226556	MD 120	1	Front panel, bottom side
40	9223222	MD 60	1	Base profile, Alum.
40	9223221	MD 100	1	Base profile, Alum.
40	9223220	MD 120	1	Base profile, Alum.
41	9181008	all models	1	Tumble switch
42	9221023	all models	1 set	Drawer slide
43	9226102	MD 60	1	Base plate, drawer
43	9226316	MD 100	1	Base plate, drawer
43	9226516	MD 120	1	Base plate, drawer
44	9226119	MD 60	1	Reinforcement profile
44	9226326	MD 100	1	Reinforcement profile
44	9226526	MD 120	1	Reinforcement profile
45	9226104	MD 60	1	Front, drawer
45	9226317	MD 100	1	Front, drawer
45	9226517	MD 120	1	Front, drawer
46	9220503	all models	2	Endcover, bar
47	9223215	MD 60	1	Bumper bar
47	9223214	MD 100	1	Bumper bar
47	9223213	MD 120	1	Bumper bar
48	9226120	MD 60	1	Drip tray
48	9226327	MD 100	1	Drip tray
48	9226527	MD 120	1	Drip tray
49	9221031	all models	1	GN tray 1/9
50	9226103	all models	1	Connection box
51	9221109S	all models	1	Thermostat ERC 211
52	9151010	all models	1	Connecting block, 6-pol.
53	9044564	all models	1	Connecting block, 1,2,3
54	9044572	MD 100-120	1	Connecting block, 4,5,6
55	9077088	all models	1	Rail

Item	Part number	Model	Qty	Description
56	3500069	all models	1	Contacto
57	9224662	all models	1	Connection profile
58	9221033	all models	2	Strain relief M25
59	9261023	all models	2	Nut M25
60	8033659	all models	1	Connecting block, 9-pol.
61	9091383	all models	1	Connecting cable with plug
62	9172125	MD 60	2	Ridget caster
62	9172065	MD 100-120	2	Swivel caster
63	9172066	all models	2	Swivel caster with break
64	9226115	MD 60	4	Base profile swingdoor
64	9226319	MD 100	4	Base profile swingdoor
64	9226519	MD 120	4	Base profile swingdoor
65	9220394S	MD 60	4	Swingdoor, ass.
65	.....	MD 100	4	Swingdoor, ass.
65	.....	MD 120	4	Swingdoor, ass.
65-1	9221056	MD 60	0.17 mtr	Profile sealing, with side lip
65-1	9221056	MD 100	0.57 mtr	Profile sealing, with side lip
65-1	9221056	MD 120	0.77 mtr	Profile sealing, with side lip
66	0602072	all models	8	Brass bearing 6 mm
67	9172419	all models	8	Plug, 20.6 mm
68	9221036	all models	2	plug 4-pole
69	9221037	all models	2	Socket 4-pole
70	9224680	all models	1	Cover plate, box
71	9110810	all models	1	Indication plate
72	9224761	MD 60	1	Restriction ring
73	9220501	MD120	1	Support for blower

EMPTY PAGE

MULTI DECK CURVED 60/100/120 - 5 LEVEL SOLID BACK



N

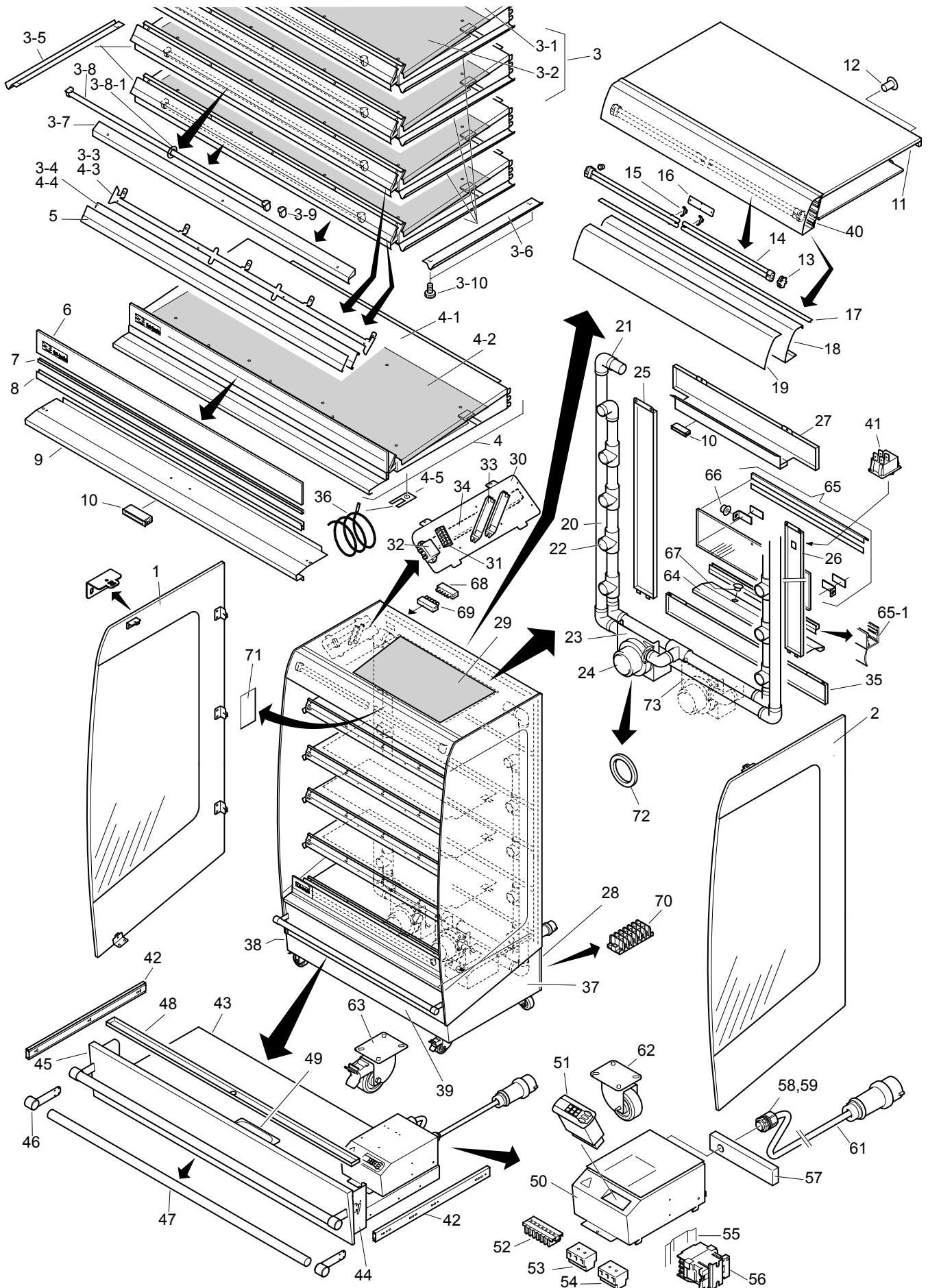
Item	Part number	Model	Qty	Description
1	92200335	all models	1	Glass panel, left, ass.
2	92200325	all models	1	Glass panel, right, ass.
3	.....	MD 60	4	Shelf ass. Incl. heating element
3	.....	MD 100	4	Shelf ass. Incl. heating element
3	.....	MD 120	4	Shelf ass. Incl. heating element
3-1	9226202	MD 60	4	Top plate, shelf
3-1	9226402	MD 100	4	Top plate, shelf
3-1	9226602	MD 120	4	Top plate, shelf
3-2	9222402	MD 60	4	Heating element, 600 W
3-2	9222408	MD 100	4	Heating element, 900 W
3-2	9222403	MD 120	4	Heating element, 1060 W
3-3	9226156	MD 60	4	Holder, price rail
3-3	9226355	MD 100	4	Holder, price rail
3-3	9226555	MD 120	4	Holder, price rail
3-4	9223200	MD 60	4	Price rail, transparent
3-4	9223208	MD 100	4	Price rail, transparent
3-4	9223207	MD 120	4	Price rail, transparent
3-5	9226108	all models	4	Airblock profile, left
3-6	9226109	all models	4	Airblock profile, right
3-7	9226116	MD 60	4	Light fixture
3-7	9226321	MD 100	4	Light fixture
3-7	9226521	MD 120	4	Light fixture
3-8	92210265	MD 60	4	TL lamp 8 W, with 1 rubber locking ring
3-8	92210275	MD 100-120	4	TL lamp 21 W, with 1 rubber locking rings
3-8-1	9221050	all models	8	Locking ring
3-9	9221025	all models	8	Lamp holder
3-10	4280560	all models	16	Knurled bolt
4	.....	MD 60	1	Shelf ass. Incl. heating element
4	.....	MD 100	1	Shelf ass. Incl. heating element
4	.....	MD 120	1	Shelf ass. Incl. heating element
4-1	9226202	MD 60	1	Top plate, shelf
4-1	9226402	MD 100	1	Top plate, shelf
4-1	9226602	MD 120	1	Top plate, shelf
4-2	9222402	MD 60	1	Heating element, 600 W
4-2	9222408	MD 100	1	Heating element, 900 W
4-2	9222403	MD 120	1	Heating element, 1060 W
4-3	9226156	MD 60	1	Holder, price rail
4-3	9226355	MD 100	1	Holder, price rail
4-3	9226555	MD 120	1	Holder, price rail
4-4	9223200	MD 60	1	Price rail, transparent
4-4	9223208	MD 100	1	Price rail, transparent
4-4	9223207	MD 120	1	Price rail, transparent

Item	Part number	Model	Qty	Description
4-5	9224718	all models	1	Sensor holder
5	9222626	MD 60	4	Diastrip, price rail brown
5	9222625	MD 100	4	Diastrip, price rail brown
5	9222624	MD 120	4	Diastrip, price rail brown
5A	9222639	MD 60	4	Diastrip, price rail black
5A	9222638	MD 100	4	Diastrip, price rail black
5A	9222637	MD 120	4	Diastrip, price rail black
6	9222465	MD 60	1	Childguard
6	9222466	MD 100	1	Childguard
6	9222467	MD 120	1	Childguard
7	9221012	MD 60	0.6 mtr	Plastic profile
7	9221012	MD 100	1 mtr	Plastic profile
7	9221012	MD 120	1.2 mtr	Plastic profile
8	9223212	MD 60	1	Holder, childguard
8	9223211	MD 100	1	Holder, childguard
8	9223210	MD 120	1	Holder, childguard
9	9226150	MD 60	1	Cover profile
9	9226354	MD 100	2	Cover profile
9	9226554	MD 120	1	Cover profile
10	3701025	all models	1	Doormagnet
11	9226155	MD 60	1	Top plate
11	9226350	MD 100	1	Top plate
11	9226550	MD 120	1	Top plate
12	9281039	all models	2	Plug, 14.3 mm
13	9221030	MD 60	1	Lamp holder
13	9221030	MD 100-120	2	Lamp holder
14	9160019	MD 60	1	Lamp, PLL 55 W
14	9221006	MD 100	2	Lamp, PLL 36 W
14	9160019	MD 120	2	Lamp, PLL 55 W
15	9222210	MD 60	1	Bracket, lamp
15	9222210	MD 100-120	2	Bracket, lamp
16	9224721	all models	1	Clamp plate
17	9221032	MD 60	0.6 mtr	PVC T-profile
17	9221032	MD 100	1 mtr	PVC T-profile
17	9221032	MD 120	1.2 mtr	PVC T-profile
18	9223218	MD 60	1	Plastic cover
18	9223217	MD 100	1	Plastic cover
18	9223216	MD 120	1	Plastic cover
19	9222622	MD 60	1	Dia strip, top brown
19	9222621	MD 100	1	Dia strip, top brown
19	9222620	MD 120	1	Dia strip, top brown
19A	9222636	MD 60	1	Dia strip, top black
19A	9222635	MD 100	1	Dia strip, top black
19A	9222634	MD 120	1	Dia strip, top black
20	9281035	all models		PVC tube Ø 50 x 3.7 mm
21	9281032	all models		PVC elbow 50 mm
22	9281033	all models		PVC T-joint 50 mm
23	9220509	MD 60	1	Support for blower
24	9281034	MD60-100	1	Blower
24	9281034	MD 120	2	Blower

Item	Part number	Model	Qty	Description	Item	Part number	Model	Qty	Description
24A	9281034	MD 100	2	Blower (until serial nr. 100062687)	48	9226120	MD 60	1	Drip tray
25	9226129	MD 60	1	Rear panel (1part)	48	9226327	MD 100	1	Drip tray
25	9226314	MD 100	1	Rear panel (2 parts)	48	9226527	MD 120	1	Drip tray
25	9226514	MD 120	1	Rear panel (2 parts)	49	9221031	all models	1	GN tray 1/9
26	9226112	MD 60	1	Rear plate, inside top	50	9226103	all models	1	Connection box
26	9226312	MD 100	1	Rear plate, inside top	51	92211095	all models	1	Thermostat ERC 211
26	9226512	MD 120	1	Rear plate, inside top	52	9151010	all models	1	Connecting block, 6-pole
27	9226113	MD 60	4	Rear plate, inside	53	9044564	all models	1	Connecting block, 1,2,3
27	9226313	MD 100	4	Rear plate, inside	54	9044572	MD 100-120	1	Connecting block, 4,5,6
27	9226513	MD 120	4	Rear plate, inside	55	9077088	all models	1	Rail
28	9226117	MD 60	1	Rear plate, bottom	56	3500069	all models	1	Contactore
28	9226358	MD 100	1	Rear plate, bottom	57	9224662	all models	1	Connection profile
28	9226558	MD 120	1	Rear plate, bottom	58	9261033	all models	2	Strain relief M25
29	9222410	MD 60	1	Heating element top, 400 W	59	9261023	all models	2	Nut M25
29	9222402	MD 100	1	Heating element top, 600 W	60	8033659	all models	1	Connecting block, 9-pole
29	9222408	MD 120	1	Heating element top, 900 W	61	9070028	all models	1	Connecting cable with plug
30	9224717	all models	1	Mounting plate, electrical components	62	9172125	MD 60	2	Ridget caster
31	8072071	all models	1	Connecting block	62	9172065	MD 100-120	2	Swivel caster
32	9221013	all models	1	Interference filter	63	9172066	all models	2	Swivel caster with break
33	9221028	MD 60	4	Ballast, 4/6/8/13 W	64	9221036	all models	4	Plug 4-pole
33	9221029	MD 100-120	4	Ballast, 14/21 W	65	9221037	all models	4	Socket 4-pole
34	9221015	MD 60	1	Ballast, 55 W	66	9224680	all models	1	Cover plate, box
34	9221014	MD 100	1	Ballast, 2x36 W	67	9110810	all models	1	Indication plate
34	9181009	MD 120	1	Ballast, 2x54 W	68	9224761	MD 60	1	Restriction ring
36	9221011	all models	1	Temperature sensor	69	9220501	MD120	1	Support for blower
37	9224703	all models	1	Side panel, right					
38	9224702	all models	1	Side panel, left					
39	9226151	MD 60	1	Front panel, bottom side					
39	9226356	MD 100	1	Front panel, bottom side					
39	9226556	MD 120	1	Front panel, bottom side					
40	9223222	MD 60	1	Base profile, Alum.					
40	9223221	MD 100	1	Base profile, Alum.					
40	9223220	MD 120	1	Base profile, Alum.					
41	9181008	all models	1	Tumble switch					
42	9221023	all models	1 set	Drawer slide					
43	9226102	MD 60	1	Base plate, drawer					
43	9226316	MD 100	1	Base plate, drawer					
43	9226516	MD 120	1	Base plate, drawer					
44	9226119	MD 60	1	Reinforcement profile					
44	9226326	MD 100	1	Reinforcement profile					
44	9226526	MD 120	1	Reinforcement profile					
45	9226104	MD 60	1	Front, drawer					
45	9226517	MD 100	1	Front, drawer					
45	9226317	MD 120	1	Front, drawer					
46	9220503	all models	2	Endcover, bar					
47	9223215	MD 60	1	Bumper bar					
47	9223214	MD 100	1	Bumper bar					
47	9223213	MD 120	1	Bumper bar					

EMPTY PAGE

MULTI DECK CURVED 60/100/120 - 5 LEVEL PASS THROUGH



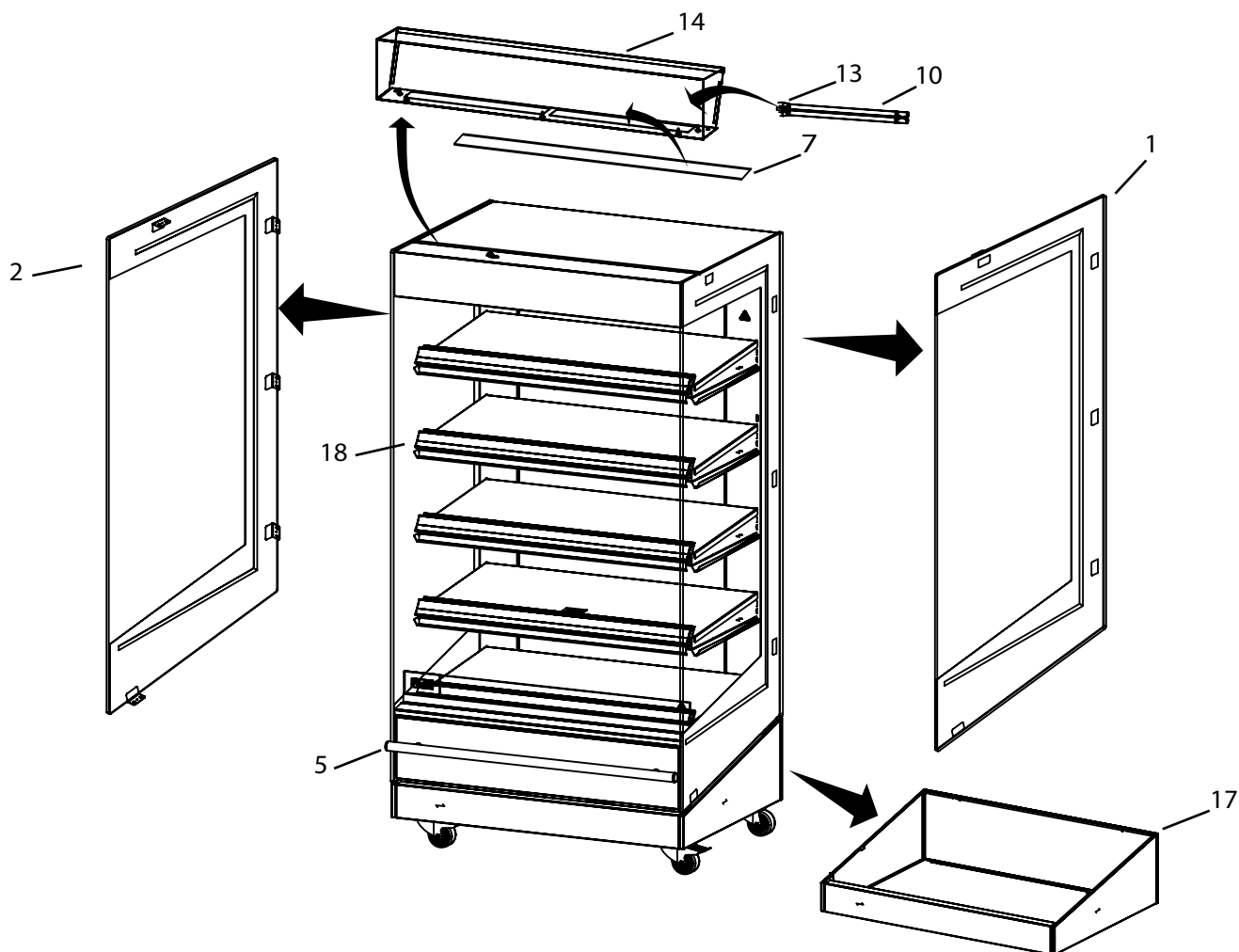
Item	Part number	Model	Qty	Description
1	92200335	all models	1	Glass panel, left, ass.
2	92200325	all models	1	Glass panel, right, ass.
3	.....	MD 60	4	Shelf ass. Incl. heating element
3	.....	MD 100	4	Shelf ass. Incl. heating element
3	.....	MD 120	4	Shelf ass. Incl. heating element
3-1	9226202	MD 60	4	Top plate, shelf
3-1	9226402	MD 100	4	Top plate, shelf
3-1	9226602	MD 120	4	Top plate, shelf
3-2	9222402	MD 60	4	Heating element, 600 W
3-2	9222408	MD 100	4	Heating element, 900 W
3-2	9222403	MD 120	4	Heating element, 1060 W
3-3	9226156	MD 60	4	Holder, price rail
3-3	9226355	MD 100	4	Holder, price rail
3-3	9226555	MD 120	4	Holder, price rail
3-4	9223200	MD 60	4	Price rail, transparent
3-4	9223208	MD 100	4	Price rail, transparent
3-4	9223207	MD 120	4	Price rail, transparent
3-5	9226108	all models	4	Airblock profile, left
3-6	9226109	all models	4	Airblock profile, right
3-7	9226116	MD 60	4	Light fixture
3-7	9226321	MD 100	4	Light fixture
3-7	9226521	MD 120	4	Light fixture
3-8	92210265	MD 60	4	TL lamp 8 W, with 1 rubber locking ring
3-8	92210275	MD 100-120	4	TL lamp 21 W, with 1 rubber locking rings
3-8-1	9221050	all models	8	Locking ring
3-9	9221025	all models	8	Lamp holder
3-10	4280560	all models	16	Knurled bolt
4	.....	MD 60	1	Shelf ass. Incl. heating element
4	.....	MD 100	1	Shelf ass. Incl. heating element
4	.....	MD 120	1	Shelf ass. Incl. heating element
4-1	9226202	MD 60	1	Top plate, shelf
4-1	9226402	MD 100	1	Top plate, shelf
4-1	9226602	MD 120	1	Top plate, shelf
4-2	9222402	MD 60	1	Heating element, 600 W
4-2	9222408	MD 100	1	Heating element, 900 W
4-2	9222403	MD 120	1	Heating element, 1060 W
4-3	9226156	MD 60	1	Holder, price rail
4-3	9226355	MD 100	1	Holder, price rail
4-3	9226555	MD 120	1	Holder, price rail
4-4	9223200	MD 60	1	Price rail, transparent
4-4	9223208	MD 100	1	Price rail, transparent
4-4	9223207	MD 120	1	Price rail, transparent
4-5	9224718	all models	1	Sensor holder

Item	Part number	Model	Qty	Description
5	9222626	MD 60	4	Diastrip, price rail brown
5	9222625	MD 100	4	Diastrip, price rail brown
5	9222624	MD 120	4	Diastrip, price rail brown
5A	9222639	MD 60	4	Diastrip, price rail black
5A	9222638	MD 100	4	Diastrip, price rail black
5A	9222637	MD 120	4	Diastrip, price rail black
6	9222465	MD 60	1	Childguard
6	9222466	MD 100	1	Childguard
6	9222467	MD 120	1	Childguard
7	9221012	MD 60	0.6 mtr	Plastic profile
7	9221012	MD 100	1 mtr	Plastic profile
7	9221012	MD 120	1.2 mtr	Plastic profile
8	9223212	MD 60	1	Holder, childguard
8	9223211	MD 100	1	Holder, childguard
8	9223210	MD 120	1	Holder, childguard
9	9226150	MD 60	1	Cover profile
9	9226354	MD 100	2	Cover profile
9	9226554	MD 120	1	Cover profile
10	3701025	all models	7	Doormagnet
11	9226155	MD 60	1	Top plate
11	9226350	MD 100	1	Top plate
11	9226550	MD 120	1	Top plate
12	9281039	all models	2	Plug, 14.3 mm
13	9221030	MD 60	1	Lamp holder
13	9221030	MD 100-120	2	Lamp holder
14	9160019	MD 60	1	Lamp, PLL 55 W
14	9221006	MD 100	2	Lamp, PLL 36 W
14	9160019	MD 120	2	Lamp, PLL 55 W
15	9222210	MD 60	1	Bracket, lamp
15	9222210	MD 100-120	2	Bracket, lamp
16	9224721	all models	1	Clamp plate
17	9221032	MD 60	0.6 mtr	PVC T-profile
17	9221032	MD 100	1 mtr	PVC T-profile
17	9221032	MD 120	1.2 mtr	PVC T-profile
18	9223218	MD 60	1	Plastic cover
18	9223217	MD 100	1	Plastic cover
18	9223216	MD 120	1	Plastic cover
19	9222622	MD 60		Dia strip. top brown
19	9222621	MD 100	1	Dia strip. top brown
19	9222620	MD 120	1	Dia strip, top brown
19A	9222636	MD 60	1	Dia strip, top black
19A	9222635	MD 100	1	Dia strip, top black
19A	9222634	MD 120	1	Dia strip, top black
20	9281035	all models		PVC tube Ø 50 x 3.7 mm
21	9281032	all models		PVC elbow 50 mm
22	9281033	all models		PVC T-joint 50 mm
23	9220509	MD 60	1	Support for blower
24	9281034	MD 60-100	1	Blower
24	9281034	MD 120	2	Blower
24A	9281034	MD 100	2	Blower (until serial nr. 100062687)
25	9226653	all models	1	Cover panel, right

Item	Part number	Model	Qty	Description
26	9226652	all models	1	Cover panel, left
27	9226121	MD 60	1	Magnet holder profile, top
27	9226324	MD 100	1	Magnet holder profile, top
27	9226524	MD 120	1	Magnet holder profile, top
28	9226117	MD 60	1	Rear plate, bottom
28	9226358	MD 100	1	Rear plate, bottom
28	9226558	MD 120	1	Rear plate, bottom
29	9222410	MD 60	1	Heating element top, 400 W
29	9222402	MD 100	1	Heating element top, 600 W
29	9222408	MD 120	1	Heating element top, 900 W
30	9224717	all models	1	Mounting plate, electrical components
31	8072071	all models	1	Connecting block
32	9221013	all models	1	Interference filter
33	9221028	MD 60	4	Ballast, 4/6/8/13 W
33	9221029	MD 100-120	4	Ballast, 14/21 W
34	9221015	MD 60	1	Ballast, 55 W
34	9221014	MD 100	1	Ballast, 2x36 W
34	9181009	MD 120	1	Ballast, 2x54 W
35	9226122	MD 60	1	Cover panel, bottom
35	9226325	MD 100	1	Cover panel, bottom
35	9226525	MD 120	1	Cover panel, bottom
36	9221011	all models	1	Temperature sensor
37	9224703	all models	1	Side panel, right
38	9224702	all models	1	Side panel, left
39	9226151	MD 60	1	Front panel, bottom side
39	9226356	MD 100	1	Front panel, bottom side
39	9226556	MD 120	1	Front panel, bottom side
40	9223222	MD 60	1	Base profile, Alum.
40	9223221	MD 100	1	Base profile, Alum.
40	9223220	MD 120	1	Base profile, Alum.
41	9181008	all models	1	Tumble switch
42	9221023	all models	1 set	Drawer slide
43	9226102	MD 60	1	Base plate, drawer
43	9226316	MD 100	1	Base plate, drawer
43	9226516	MD 120	1	Base plate, drawer
44	9226119	MD 60	1	Reinforcement profile
44	9226326	MD 100	1	Reinforcement profile
44	9226526	MD 120	1	Reinforcement profile
45	9226104	MD 60	1	Front, drawer
45	9226317	MD 100	1	Front, drawer
45	9226517	MD 120	1	Front, drawer
46	9220503	all models	2	Endcover, bar
47	9223215	MD 60	1	Bumper bar
47	9223214	MD 100	1	Bumper bar
47	9223213	MD 120	1	Bumper bar
48	9226120	MD 60	1	Drip tray
48	9226327	MD 100	1	Drip tray

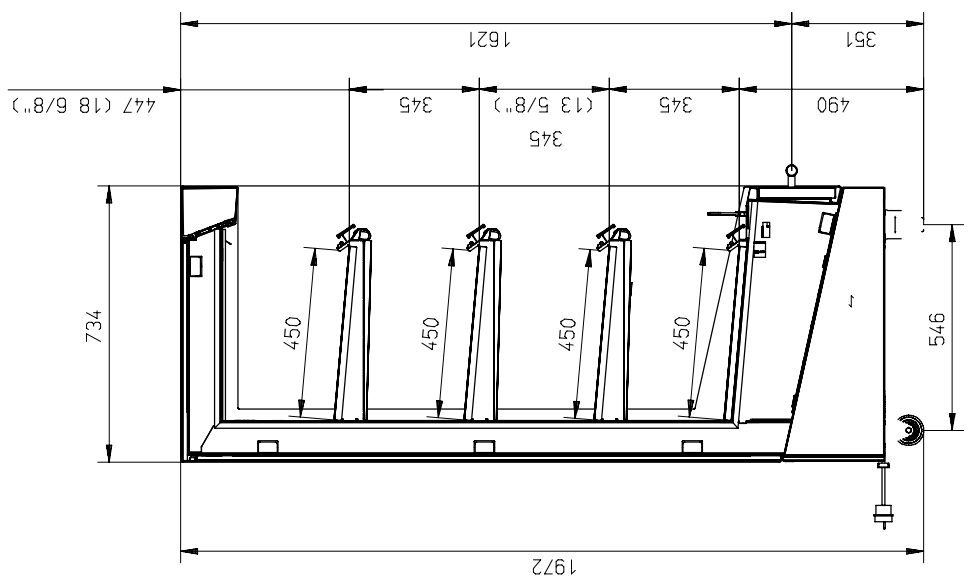
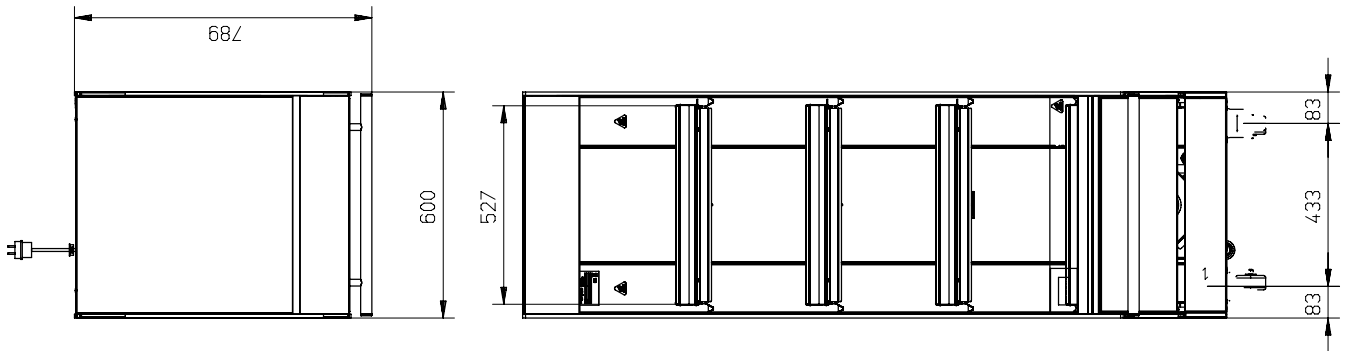
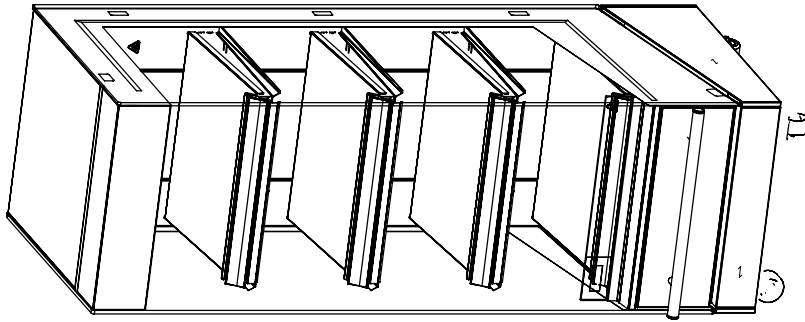
Item	Part number	Model	Qty	Description
48	9226527	MD 120	1	Drip tray
49	9221031	all models	1	GN tray 1/9
50	9226103	all models	1	Connection box
51	92211095	all models	1	Thermostat ERC 211
52	9151010	all models	1	Connecting block, 6-pol.
53	9044564	all models	1	Connecting block, 1,2,3
54	9044572	MD 100-120	1	Connecting block, 4,5,6
55	9077088	all models	1	Rail
56	3500069	all models	1	Contacteur
57	9224662	all models	1	Connection profile
58	9221033	all models	2	Strain relief M25
59	9261023	all models	2	Nut M25
60	8033659	all models	1	Connecting block, 9-pol.
61	9070028	all models	1	Connecting cable with plug
62	9172125	MD 60	2	Ridget caster
62	9172065	MD 100-120	2	Swivel caster
63	9172066	all models	2	Swivel caster with break
64	9226115	MD 60	5	Base profile swingdoor
64	9226319	MD 100	5	Base profile swingdoor
64	9226519	MD 120	5	Base profile swingdoor
65	92202945	MD 60	5	Swingdoor, ass.
65	92202745	MD 100	5	Swingdoor, ass.
65	92202545	MD 120	5	Swingdoor, ass.
65-1	9221056	MD 60	0.17 mtr	Profile sealing, with side lip
65-1	9221056	MD 100	0.57 mtr	Profile sealing, with side lip
65-1	9221056	MD 120	0.77 mtr	Profile sealing, with side lip
66	0602072	all models	10	Brass bearing 6 mm
67	9172419	all models	10	Plug, 20.6 mm
68	9221036	all models	2	plug 4-pole
69	9221037	all models	2	Socket 4-pole
70	9224680	all models	1	Cover plate, box
71	9110810	all models	1	Indication plate
72	9224761	MD 100	1	Restriction ring
73	9220501	MD120	1	Support for blower
73A	9220501	MD 100	1	Support for blower till serial nr. 100062687

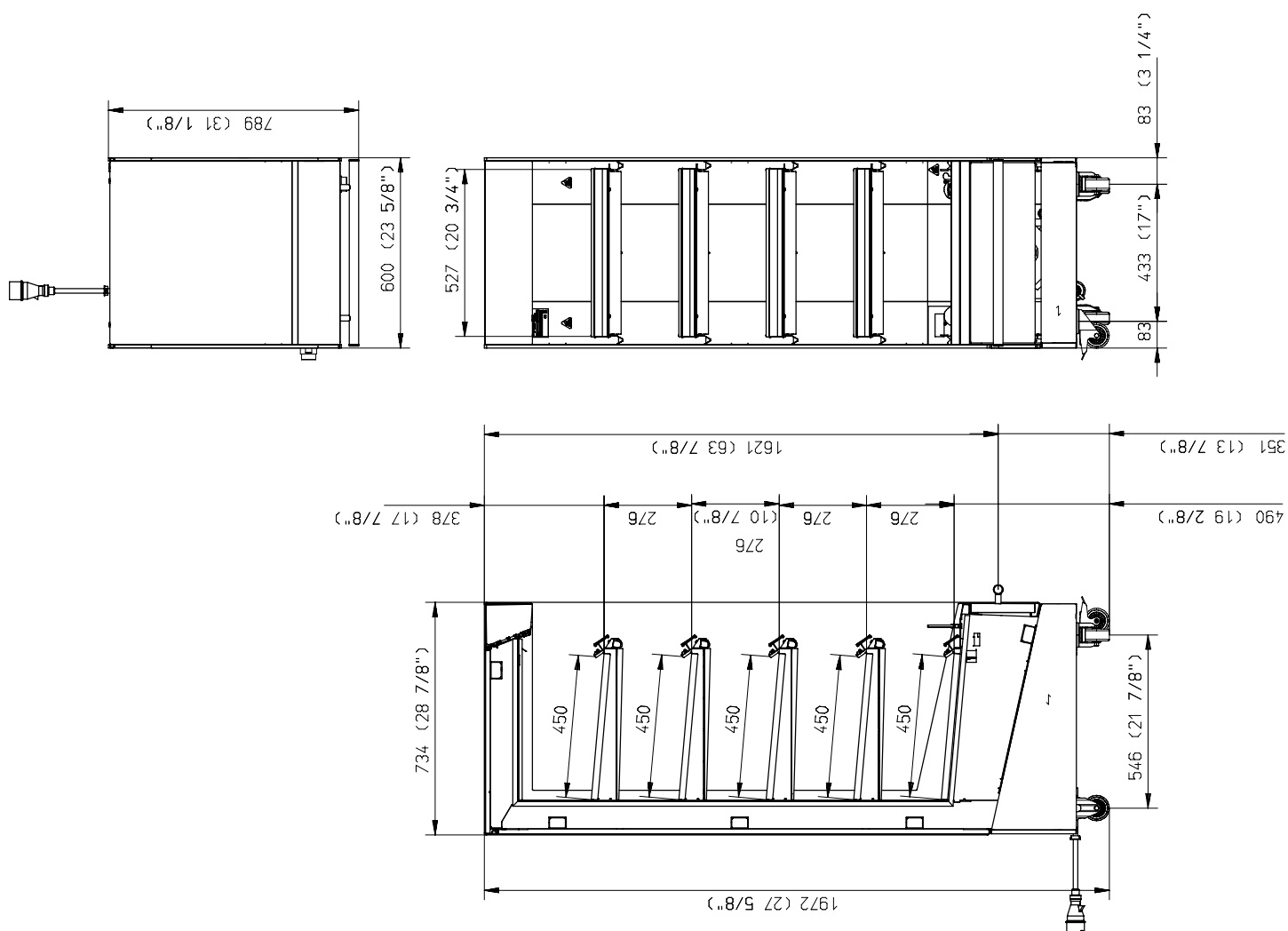
MULTI DECK SQUARE 60/100/120 - 4-5 LEVEL SOLID BACK



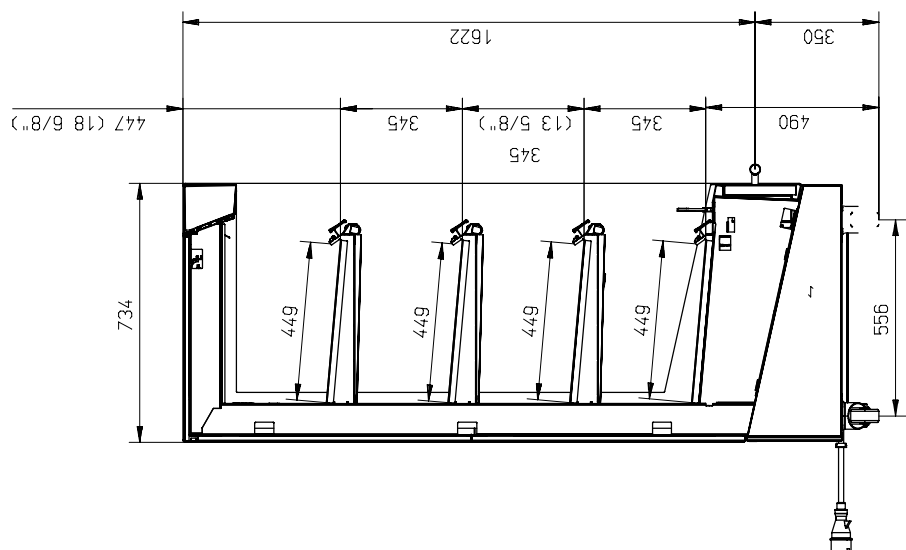
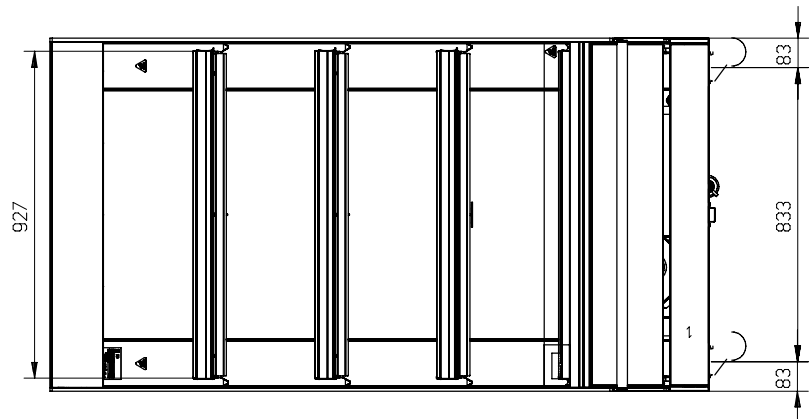
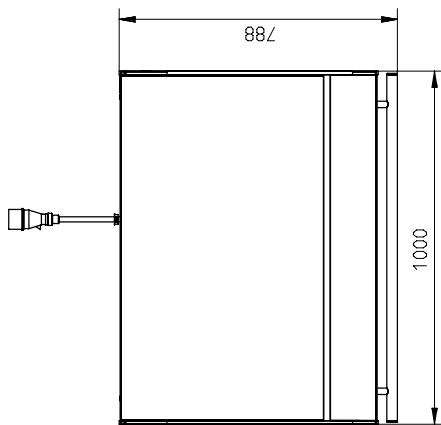
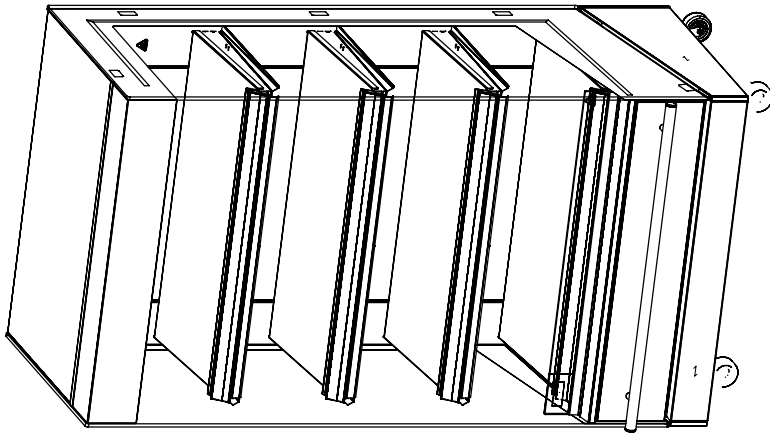
Item	Part number	Model	Qty	Description
	9229654	MD 60-4 SQ		MD 60-4 SQ
	9229664	MD 60-5 SQ		MD 60-5 SQ
	9229624	MD 100-4 SQ		MD 100-4 SQ
	9229614	MD 100-5 SQ		MD 100-5 SQ
	9229634	MD 120-4 SQ		MD 120-4 SQ
	9229644	MD 120-5 SQ		MD 120-5 SQ
1	9220002	All models	1	Glass panel, right, ass.
2	9220001	All models	1	Glass panel, left, ass.
5	9226730	60	1	Bumper
5	9226715	100	1	Bumper
5		120	1	Bumper
7	9222011	60	1	Light box glass pane
7	9222032	100	1	Light box glass pane
7		120	1	Light box glass pane
10	9221006	60	1	PL lamp
10	9221006	100	2	PL lamp
10	9221006	120	2	PL lamp
13	9221030	All models	2	Lamp holder
14	9223225	60	1	PVC profile
14	9223224	100	1	PVC profile
14		120	1	PVC profile
17	9226724	60	1	Panels bottom ass.
17	9226722	100	1	Panels bottom ass.
17		120	1	Panels bottom ass.
18	9222639	60	1	Photographic print price rail black
18	9222638	100	1	Photographic print price rail black
18	9222637	120	1	Photographic print price rail black

MULTI DECK SQUARE 60 - 4 LEVEL SOLID BACK

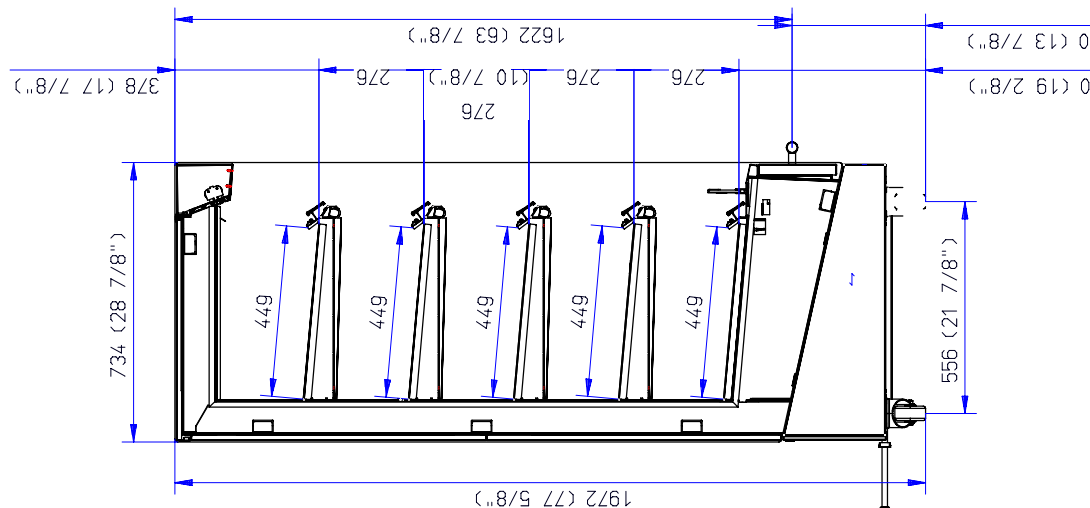
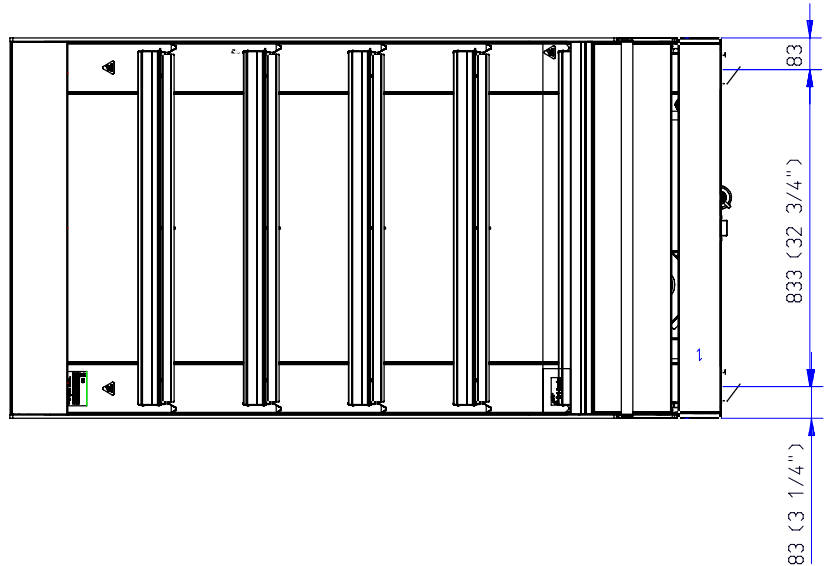
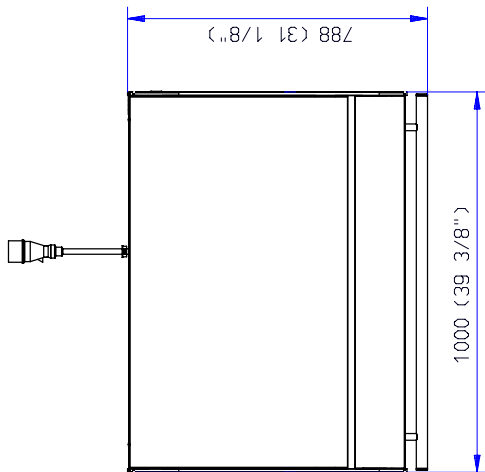
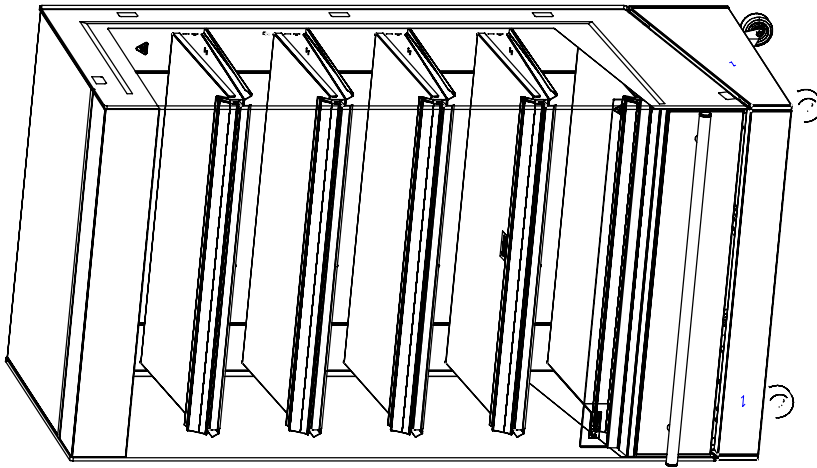




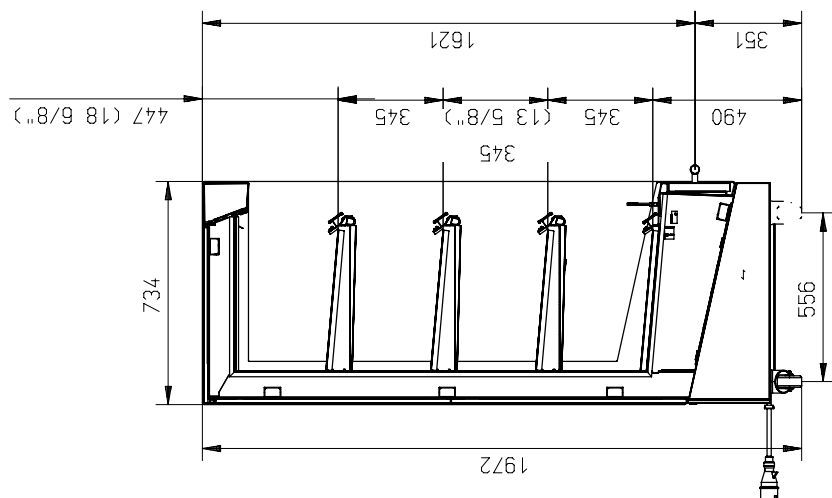
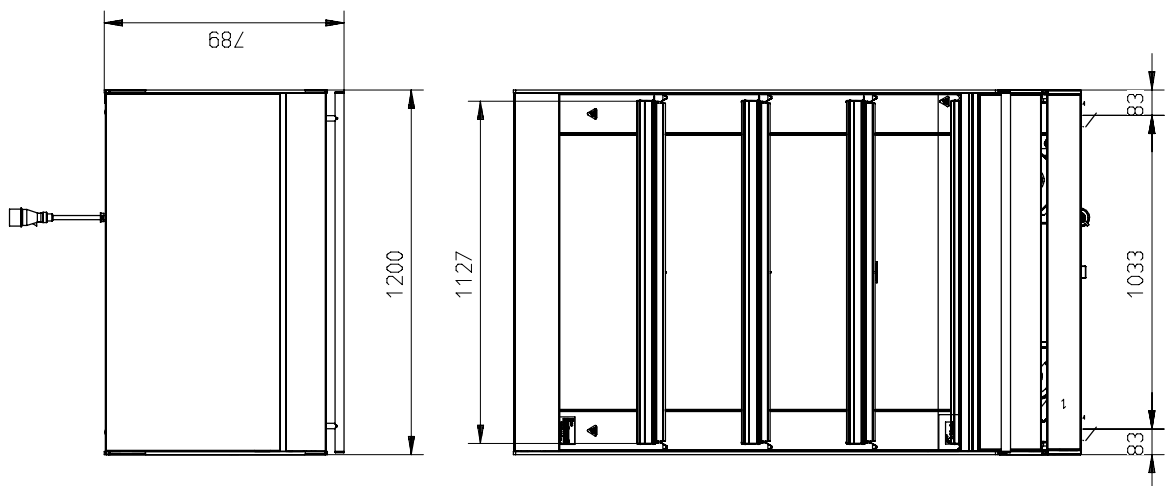
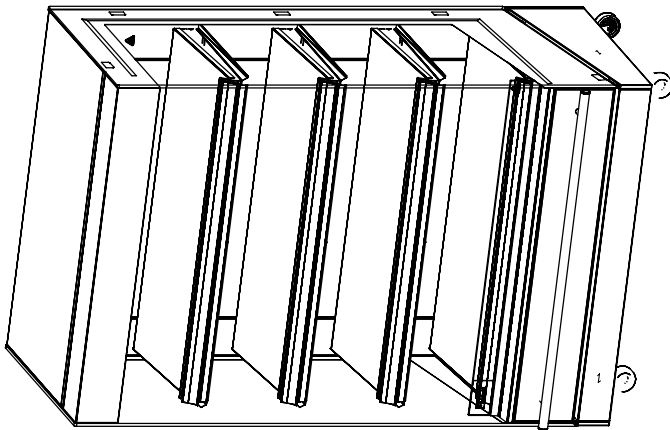
MULTI DECK SQUARE 100 - 4 LEVEL SOLID BACK

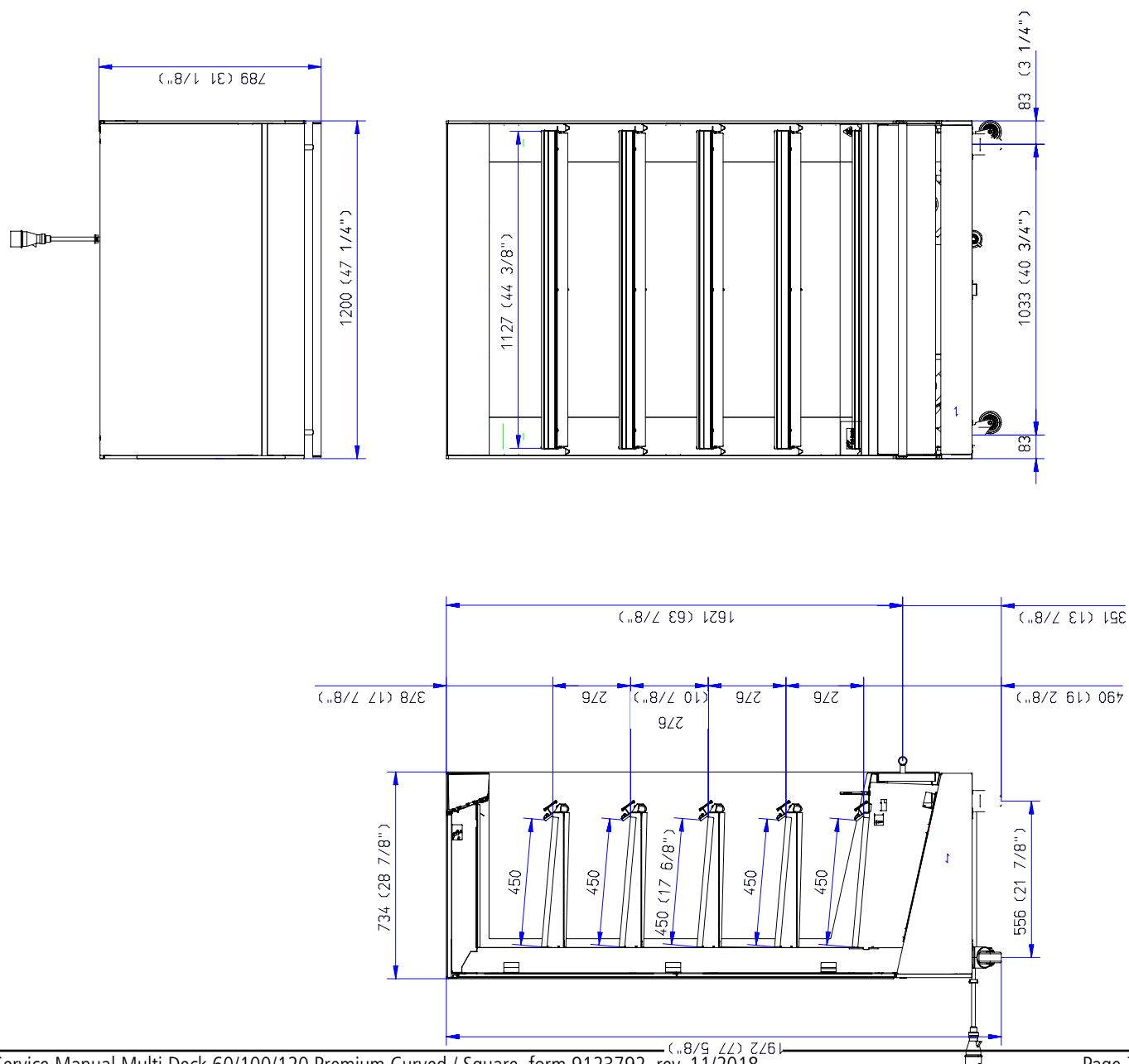


MULTI DECK SQUARE 100 - 5 LEVEL SOLID BACK



MULTI DECK SQUARE 120 - 4 LEVEL SOLID BACK

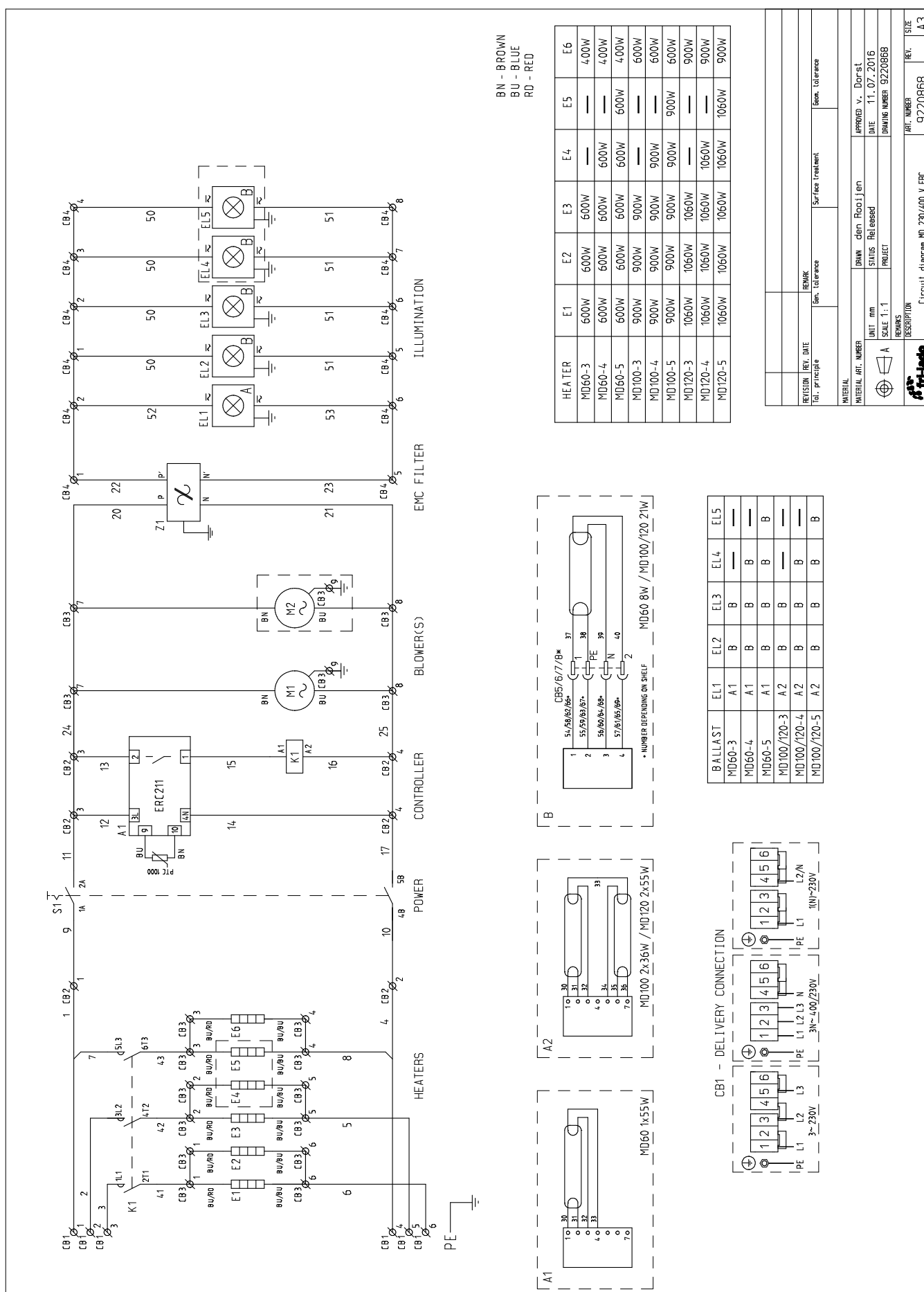




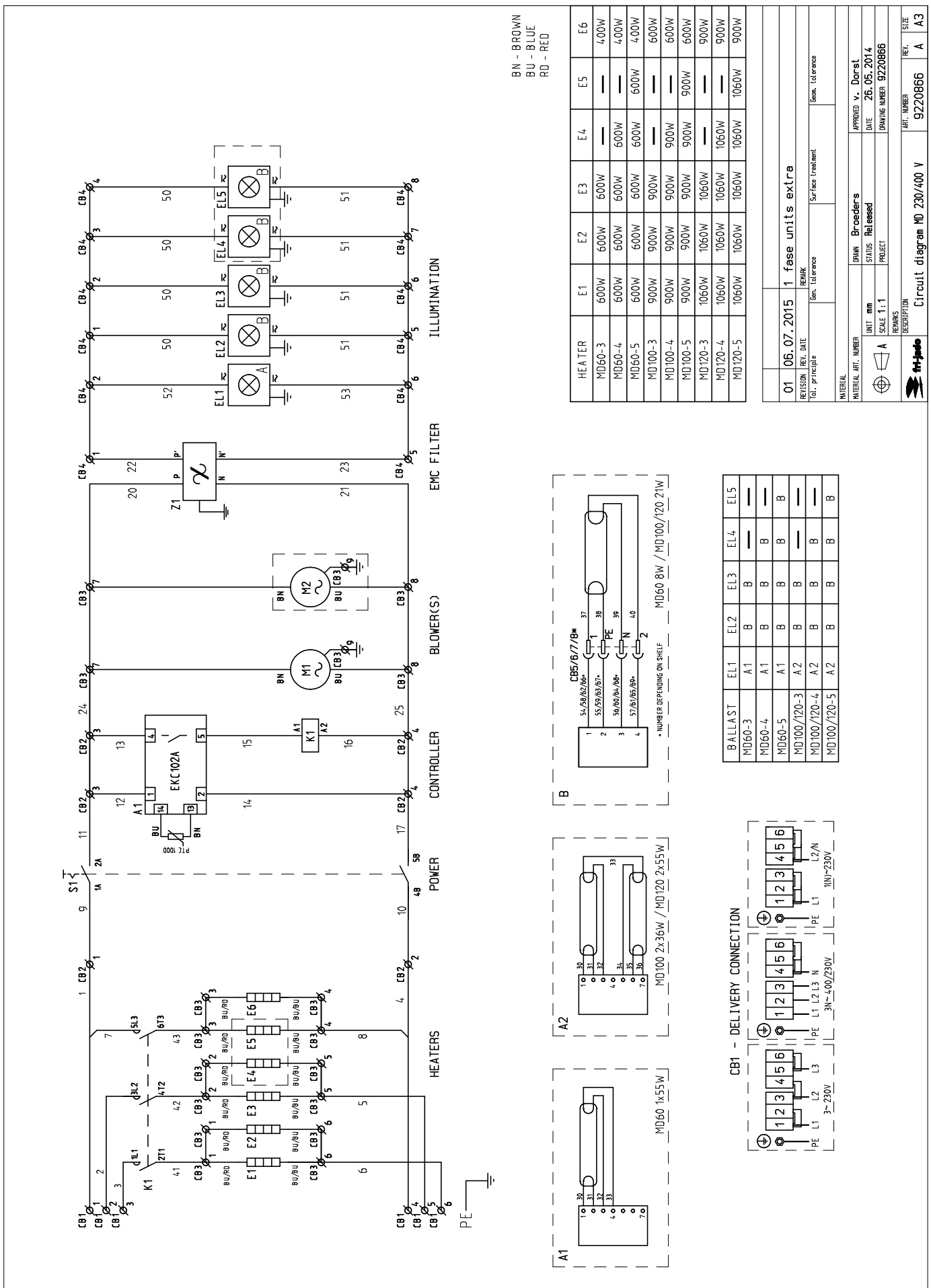
EMPTY PAGE

ELECTRICAL DIAGRAM

CIRCUIT DIAGRAM MULTI DECK C 400/230V



Page 75



EMPTY PAGE

EMPTY PAGE

