

Adande[®] Refrigeration



Maintenance Manual



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Welcome to Adande® Refrigeration

1 What is Adande®?

Adande® is a new method of cold storage developed as a series of insulated drawers, that each offer storage temperature flexibility in 1°C increments between –22°C and +15°C.

Each insulated drawer:-

- Provides stable temperature storage
- Is removable to act as temporary, cool and safe product storage.
- Gives full plan area access providing space efficient storage.
- Is easily cleaned or replaced.

2 Adande® Explained

Adande® uses standard technology and refrigeration parts but in a completely new and patented way.

A dedicated fridge engine supplies refrigerant to an evaporator coil assembly. The evaporator coil assembly then supplies cooling to the insulated drawer and is sized to maintain up to 40kg of product at any set point temperature, in the range of –22°C to +15°C.



Figure 1: Front view of Adande® Single Drawer unit

3 EC Declaration of Conformity

We declare that the following machinery complies with the essential health and safety requirements of:-

The Machinery Directive 2006/42/EC
The Low Voltage Directive 2006/95/EC
The Electromagnetic Compatibility Directive 2004/108/EC
The Pressure Equipment Directive 97/23/EC

Machinery Description: 1 Drawer Appliance for Chilled Storage.

Make: Adande®.

Type: Adande® Drawer Refrigeration Units

Manufactured by Adande® Refrigeration Ltd.,

Units 4 -9 Harvest Court, South Lowestoft Industrial Estate, Lowestoft, Suffolk
NR33 7NB

The following transposed harmonised European Standards have been used:

EN ISO 12100 parts 1 & 2 Safety of Machinery – Basic concepts, general principles for design

EN ISO 13857 Safety of Machinery – Safety distances to prevent danger zones being reached by the upper and lower limbs.

EN ISO 13732-1: 2006 Ergonomics of the thermal environment -- Methods for the assessment of human responses to contact with surfaces -- Part 1: Hot surfaces

EN 1672-2 Food processing machinery – Basic concepts – Part 2 : Hygiene requirements

EN 61000-6-3:2001, Electromagnetic compatibility (EMC) - Part 6-3: Generic standards; Emission standard for residential, commercial and light- industrial environments

EN 61000-6-1 Generic Immunity Standard; Residential commercial and light industrial environments.

EN 60335-2-24 The Safety of Household and Similar Electrical Appliances – Part 2 –24: Particular Requirements for Refrigerating Appliances and Ice Makers.

The technical file for this machinery will be prepared on demand by :-

Name: Ian Wood

Position: Managing Director

Who signs on behalf of the manufacturer

ADANDE® REFRIGERATION

Units 4 – 9 Harvest Court

South Lowestoft Industrial Estate

Lowestoft

Suffolk

NR33 7NB.

4 Storage of Product

For the unit to operate at full efficiency the drawer seal should be maintained in good condition. It is essential that the product is not stored above the **“MAX FILL LEVEL”** line as this can damage the seal and affect the operation of the unit.

The unit is capable of storing any food product. However, products which may give off acidic odours like vinegar, onions, etc should be suitably sealed. Adande® also recommends containers with liquid food products be stored with lids.

Ensure that the product is never stacked above the **“MAX FILL LEVEL”** Label in the drawer.

5 Operating Adande® - Temperature Settings

The Adande® temperature control system allows you to set and control the drawer within a temperature range of -22°C (-8°F) and +15°C (59°F).

Temperature accuracy in the drawer will be maintained within $\pm 2^{\circ}\text{C}$ of the set point.

5.1 The Display Controls

To adjust the temperature set point (figure 2) press and hold the “i” button, the drawer set point will then be displayed. While holding the “i” button Increase or decrease temperature using the arrow buttons, on release of both buttons the new set point will be stored.

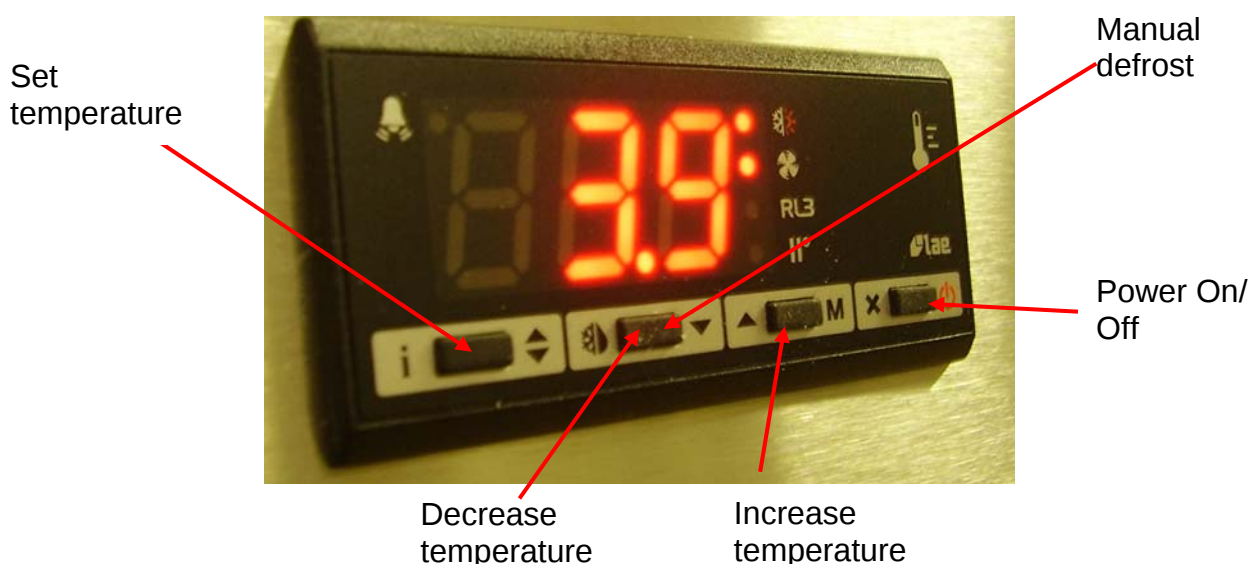


Figure 2: Adande® Display Control Panel

5.2 Defrost

The refrigeration system automatically defrosts. If a manual defrost is required then press the manual defrost button on the control panel for 3 seconds.

5.3 Drawer Alarm

If the drawer is open for more than 10 minutes, the display in the control panel changes to **“DO”**.

When the alarm has been activated, the Adande® unit will alarm both visually and audibly.

To silence the audible alarm, press ANY button on the display, or close the drawer. The alarm light and flashing display will continue to show until the drawer has been fully closed.

NOTE: THERE IS NO COOLING TO THE DRAWER WHEN THE DRAWER IS OPEN.

5.4 Error Alarm

If display reads **“E1”** or **“E2”**, a temperature probe has failed, and an engineer should be called.

The Adande® unit will operate with a 15 minute on / 15 minute off cycle in the event of an **“E1”** failure. This will help to maintain the stored product at a safe temperature, but precise temperature control will be lost. **“E2”** will only affect defrosts, and these will be timed to maintain operation of the unit. An engineer should be called as soon as possible for either fault.

5.5 Temperature Alarm

Should **“HI”** appear on the display, the drawer temperature has exceeded its set point by 7°C. Product core temperature should be inspected. If the Adande® unit has recently been turned on, loaded with warm product or left open for a long period, this alarm could be displayed. If the temperature does not return to the set point temperature, an engineer should be called.

Should **“LO”** appear on the display, the drawer temperature has fallen below its set point by 7°C. Product core temperature should be inspected. If the Adande® unit drawer temperature set point has recently been increased, this alarm could be displayed. If the temperature does not return to the set point temperature, an engineer should be called.

5.6 Electrical Connection

The Adande® drawer unit should be connected to a 230V, single phase, 50 Hz, standard socket outlet supply. The unit is connected to the mains supply with a detachable supply lead, one end of which is fitted with a standard 13 amp 3 pin plug (fused at 13A). The other end of the supply lead, fitted with an appliance plug, is connected to the Adande® unit as shown in figure 3a below.



Figure 3a: Mains connection point

The unused socket on the right hand side in figure 3a can be used to provide a mains supply to additional Adande® units as shown in figure 3b below.

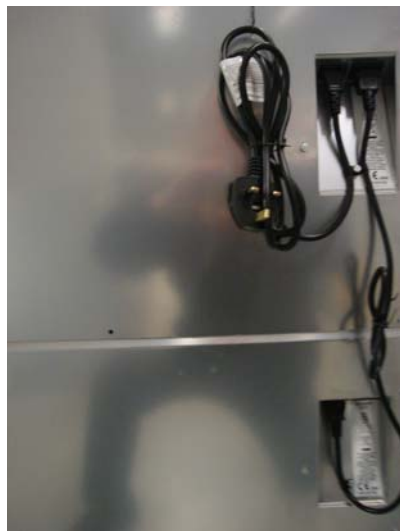


Figure 3b: Mains connection point

DO NOT REMOVE ACCESS PANELS WITH THE ELECTRICAL SUPPLY CONNECTED.

5.7 Location and Stability

It is important that the Adande® unit is installed and maintained on a flat, clean and **level surface** to ensure correct operation.

The room should be dry and sufficiently ventilated.

Optimum performance is obtained at ambient temperatures between +16°C (60°F) and +38°C (100°F).

Ensure that no obstructions are placed directly in front of the air outlet grille.

The Adande® drawer unit can be mounted on rubber feet, rollers or castors. When mounted on a castor base, the front two castors should have their brakes ON during normal use as in figure 4.



Figure 4: Lockable Castor

If the Adande® unit is mounted on two rollers at the rear of the unit, and rubber feet at the front, to move the unit, lift the front of the unit as in figure 5 and push or pull the unit into position.



Figure 5: Lifting unit to move when on rollers and feet

THE UNIT SHOULD BE UNLOADED BEFORE MOVING

6 Insulated Drawer Removal

For many of the maintenance procedures the insulated drawer will need to be removed to allow access. To remove the insulated drawer, first pull the drawer out fully so that the rear edge of the drawer clears the unit and the runners are fully extended. Then as the photo below shows (figure 6) lift the drawer vertically up to remove (two people should lift the drawer out if still filled with product).



Figure 6: Removing the insulated drawer

7 Worktop Removal

To remove the worktop, first remove the four M5 X 8 bolts from the rear flange, lift the rear of the worktop and push slightly forward to slide over and clear from the front retaining slots (Figure 7). Replacement is the reverse of the removal procedure.

NOTE: WORKTOP SHOULD BE LIFTED BY TWO PEOPLE DUE TO WEIGHT

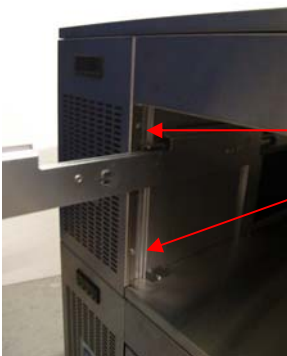


Figure 7: Worktop removal

8 Front Grille Removal

As there is live 240volt connections behind the grille, the unit should be isolated from the power supply prior to grille removal.

To gain access to the electrical components it is necessary to remove the front grille, to do this first remove the insulated drawer from the unit, slacken the 2 M5 X 8 ST/ST bolts located inside the drawer space, and slacken the 2 M5 X 8 ST/ST screws located externally at the side of the unit. The front grille can now be removed by pulling forward at the bottom and then down. (Figure 8).



Loosen:-
2 screws
2 bolts



Figure 8: Front grille removal

9 Left Hand Panel Removal

To gain access to the compressor, the left hand panel must be removed from the unit, to remove this panel the 4 off M5 X 8 ST/ST screws on the side of the unit and 2 off M5 X 8 bolts from the rear of the unit must be taken out as shown in figure 9, then slide the panel down and out.

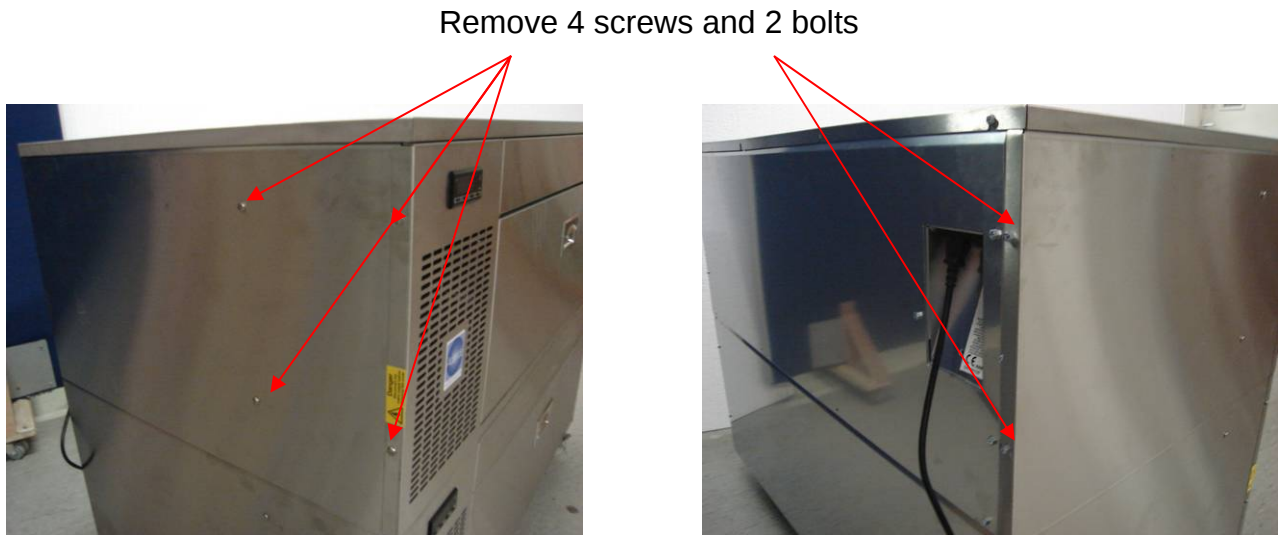


Figure 9: LH side fridge engine access panel removal

10 Rear Panel Removal

The rear panel of the unit may require removal to gain access to the drain pipe or assist in diffuser and heated seal replacements. To remove the back panel, remove all 14 off M5 Br. Zn. Pd. bolts as shown in figure 10 below.



Figure 10: Rear panel removal

11 Drawer Front Removal

To remove the drawer front you will need to remove the four M5 Br.Zn.Pd. Nyloc nuts and two M5 X 10 St steel bolts as shown in figure 11 below.

NOTE: WHEN REPLACING DRAWER FRONT LOCTITE SHOULD BE USED ON THE SCREWS



Figure 11: Removing the four bolts and two screws

Once these fixings are removed the drawer front will now slide off as shown below in figure 12.



Figure 12: Removing the drawer front

12 Drawer Switch Replacement

To gain access to or replace the drawer switch, remove either the insulated drawer and worktop (Chapter 6 and 7) or the Insulated drawer and side panel (Chapters 6 and 9).

Remove the Spade Connectors from the back of the switch and push the switch through to the drawer cavity as shown in figure 13 and 14.

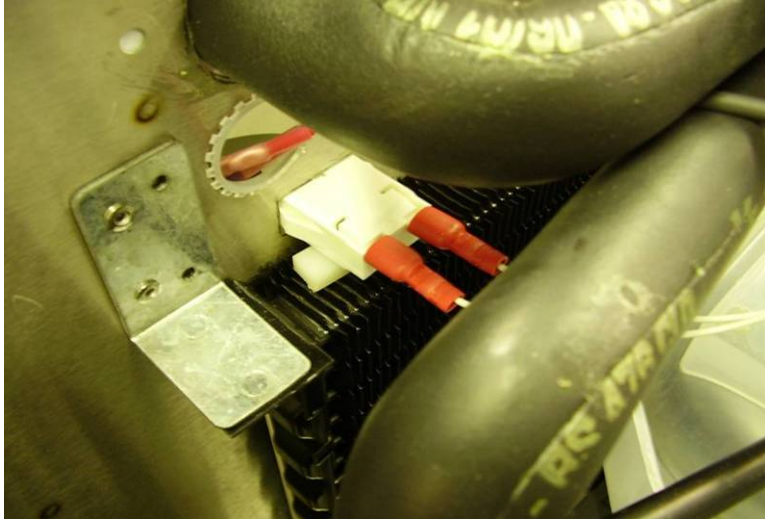


Figure 13: Spade connectors connected to the drawer switch



Figure 14: Drawer switch mounted on the Inner Wall Side Panel

13 Removing the Diffuser

To remove the diffuser the Insulated drawer will first need removing to allow access (Chapter 6). To remove the diffuser from the lid the 8 plastic Pozi Drive screws will need removing as in figure 15. This will allow the diffuser to be lowered for access.

NOTE: THE DIFFUSER WILL BE CONNECTED TO THE UNIT BY THE EVAPORATOR FAN WIRES

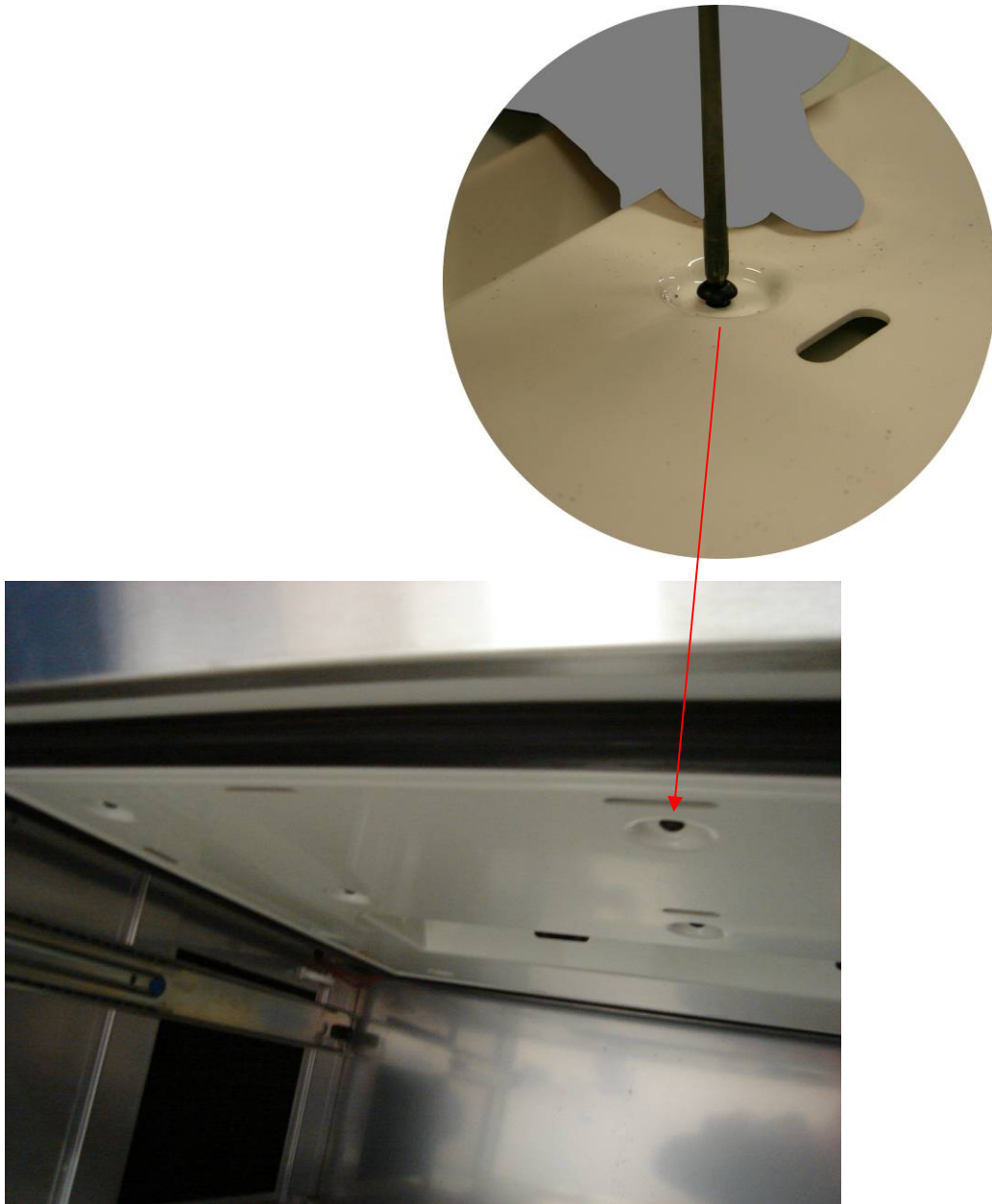


Figure 15: Lid Diffuser

14 Evaporator Fan Replacement

Once the diffuser is removed, the fans can be also be removed first by cutting the cable tie in the fridge engine area, then cut the wires at the **fan** end and use these to pull through the new wire. Now undo the four self tapping screws that hold the fans in place as shown in figure 16a.

The fan wires need to be disconnected from the 12volt power supply within the controller enclosure, pulling the new wires through the hole in the lid (as shown in figure 16c below) fit bullet crimps to the new fan wires and connect to the 12volt power supply, mount the fans back on the diffuser as shown below in figure 16b. Replace all cable ties.



Figure 16a: Evaporator fans

4 Off per Fan Self Tapping screws

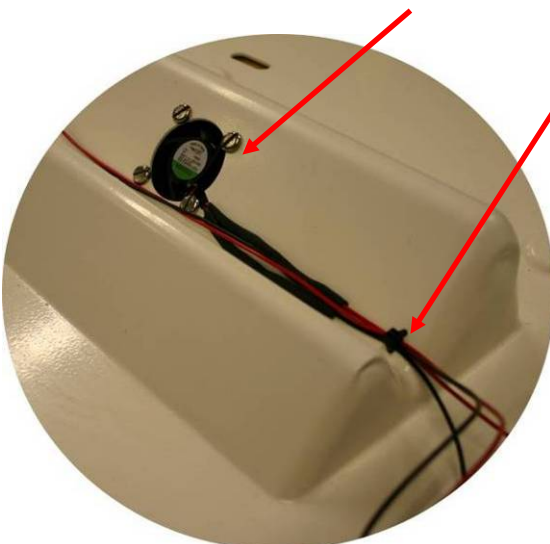


Figure 16b

Cable Tie to secure fan wires in place

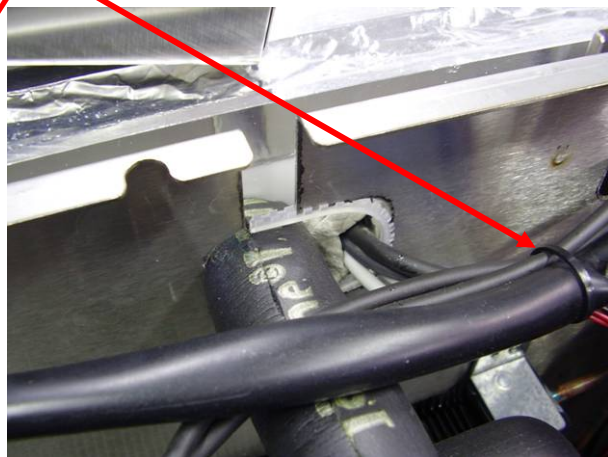


Figure 16c

15 Drain Tray and Defrost Heater Removal and Replacement

To remove the drain tray the insulated drawer, drawer front, rear panel and diffuser will need to be removed. (Refer to chapters 6, 10, 11, & 13) Once this has been done remove the drain pipe and putty from the back of the lid as shown in Figure 17 below.

Now remove the wires for the defrost heater from the controller and neutral block. (Refer to Chapters 21 and 22)

NOTE: ATTACH A SPARE PIECE OF DRAW WIRE TO THE OLD HEATER WIRES BEFORE PULLING WIRES OUT TO AID PULLING THROUGH NEW HEATER WIRES.

Remove the four M5 X 10 bolts and associated sealing washers fixing the drain tray to the evaporator, drop down the drain tray complete with defrost heater and remove. (Figure 18)



Figure 17: Drain pipe and putty

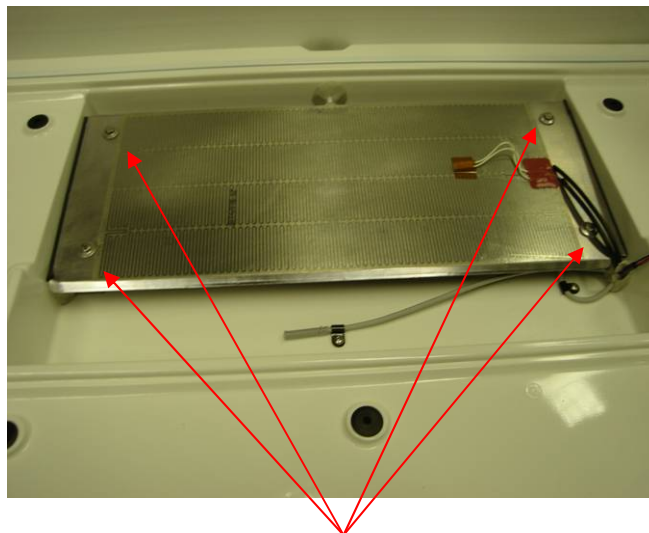


Figure 18: Remove four bolts and sealing washers to release drain tray

When replacing the drain tray take care not to bend the tray or the unit may not drain correctly, ensure all four sealing washers are on the four fixing bolts. Replace drain tray and putty around drain pipe penetration both inside and outside of lid.

16 Evaporator Temperature Probes Replacement

To replace a faulty temperature probes the insulated drawer, drawer front, diffuser and drain tray will need to be removed. (Refer to chapters 6, 11, 13 & 15) to gain access to the evaporator coil. Remove the P-Clips holding the probes in place and the refrigeration putty from wire penetration in lid.

Disconnect the faulty probe from the controller and pull the probe wires through the lid and remove from the unit. Install the new probes back through the electrical wire penetration hole in the lid and re connect to controller, replace the P-Clips and refrigeration putty, as shown in figure 19.



Replace Refrigeration Putty

Figure 19: Temperature probes held in place with P-Clips

17 Lid Heated Seal Replacement

To replace the seal first remove the insulated drawer (Chapter 6). Then pull the heated seals wires through the inner wall from the compressor housing into the drawer compartment and disconnect the Molex plug; this has disconnected the 12 volt heating element from the unit.

Pull the seal out of the retaining channel in the lid and replace with a new seal (Push seal into corners of the retaining channel first for alignment). Reconnect the Molex Plug and pass back through the Inner Wall into the compressor housing to prevent any possibility of it snagging on the drawer or runner when closed.

On completion of seal replacement the lid height should be checked refer to Chapter 18

Molex connector

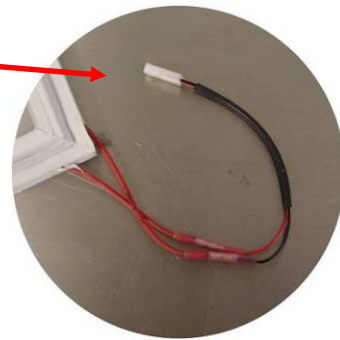


Figure 20: Heated seal wires and Inner wall penetration

18 Seal Height Adjustment

The seal and lid height is critical to ensure:

- The correct closure and opening of the drawer
- To prevent the insulated drawer icing closed
- To prevent access of warm ambient air into drawer

Lid Height adjustment is done by releasing the lid mounting screws, 2 are located behind removable caps on the RH side panel and 2 within the compressor housing (as shown below with the worktop removed in figures 21A and B). Close the drawer and tap the lid down until the seal is in contact with the insulated drawer rim.

NOTE: DO NOT OVER COMPRESS THE SEAL

Then tighten up the four lid mounting screws to hold in position. To check that the seal isn't over compressed, pull the drawer out and ensure there is a 2mm gap between the back edge of the insulated drawer and the front edge of the seal (Drawer and runners are at a slight angle to the lid).

To prevent a new seal sticking to the rim of the insulated drawer it is recommended that the seal is lubricated with a silicone based plastic/ rubber lubricant.

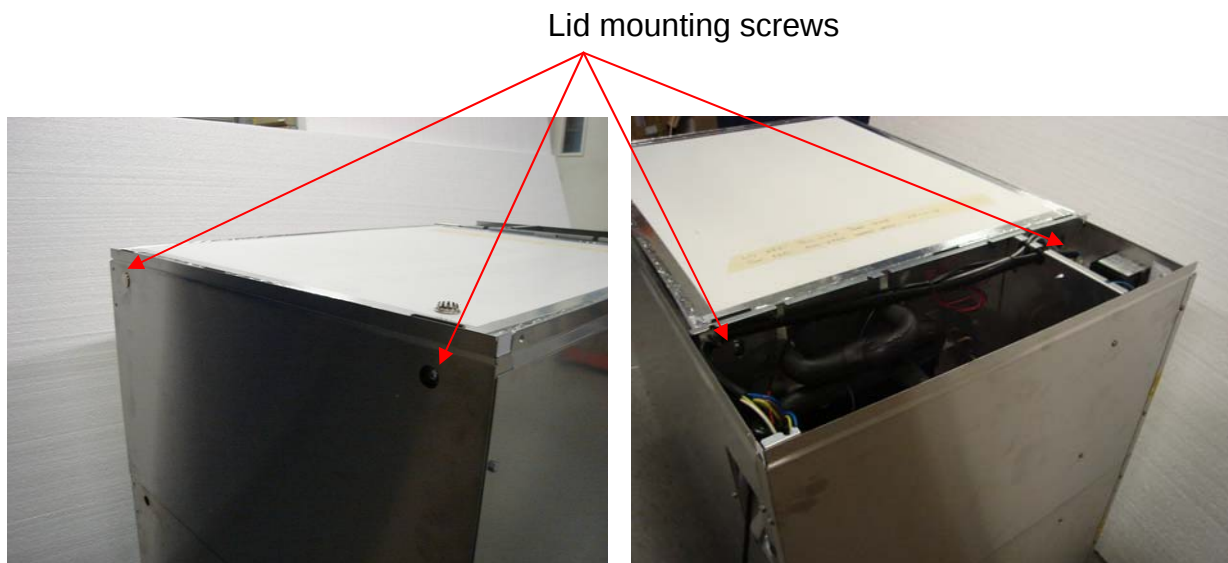


Figure 21a and b: Lid mounting screws when worktop is removed

19 Runner Replacement

To replace a drawer runner the Insulated Drawer and drawer front will need to be removed to gain access (Chapters 6 & 11).

First remove the drawer support from the failed runner by removing the M5 X 8 countersink screw (figure 22) the drawer support can now be removed by lifting the front of the support and pulling forward to detach it from the lanchings on the runner inner beam. (Figure: 23)



Figure 22: Remove drawer support retaining screw



Figure 23: Removal of drawer support from the drawer runner.

The runner can now be removed from the unit, extend the runner slightly, and with a firm grip twist the runner toward the middle of the unit this will allow the front of the runner to be lifted clearing the front fastenings, pull the runner forward to clear the rear fixing. See figures below.



Figure 24a: Twist runner.



Figure 24b: Lift and pull forward



Figure 24c: Fixings in vertical wall supports and lancing in runner outer beam

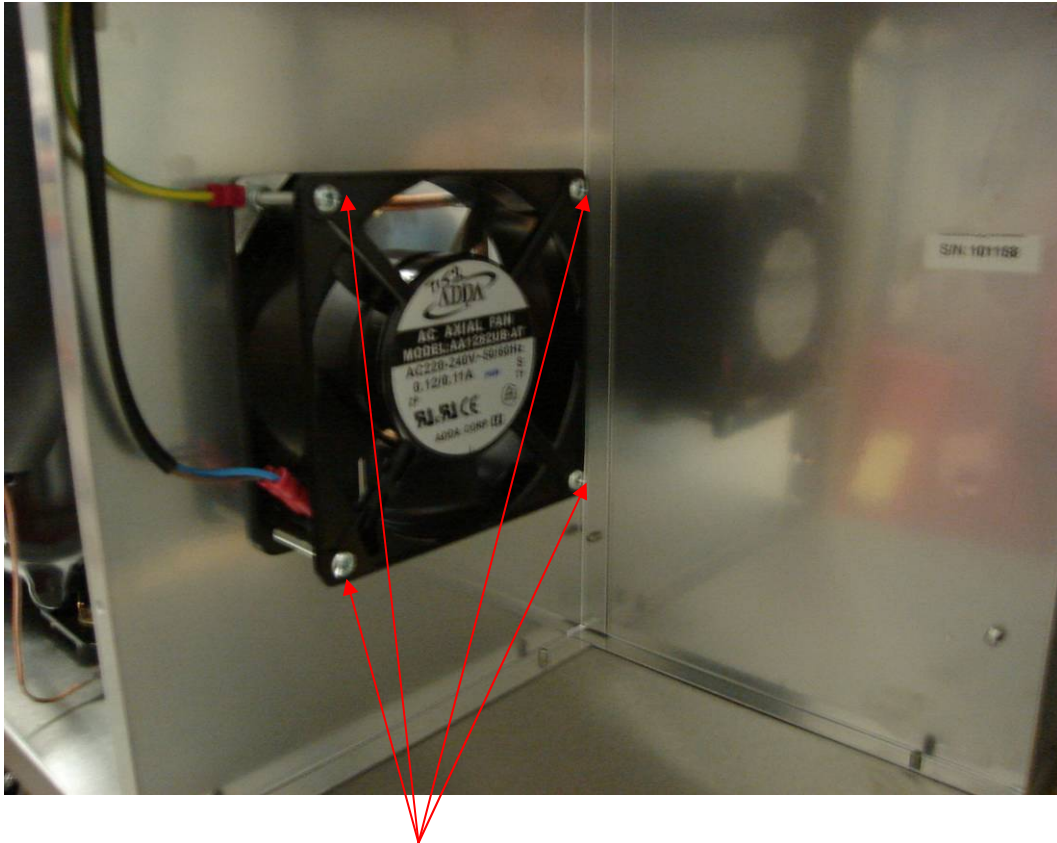
Replacing the runner is the reverse of the removal procedure, engage the rear lancing of the runner in the back vertical wall support and push horizontally to fully engage the rear lancing, engage the middle and front lancing in their associated vertical wall supports and press down on the runner sharply, it should engage in the front vertical wall support with a 'CLICK', you should not now be able to lift the front of the runner vertically.

Fit the drawer support in the same way by engaging the rear fixing first with a horizontal motion then engage the front 2 lancing and press down fully engaging both, ensure the hole in the front of the runner lines up with the hole in the drawer support, and refit the M5 X 8 countersink screw.

If required the runner can be lightly greased with food grade grease.

20 Condenser Fan Replacement

To replace the condenser fan the front grille will need to be removed (Chapter 8). First remove the two loomed wires that run through the 6.4mm grommet to the controller. Then remove the four fixing screws and remove the fan (figure 25). Reverse this to replace the fan and connect to the controller using chapter 22 (Electrical Control System).



4 Off M4 X 50 Br.Zn.Pd. Screws

Figure 25: Condenser Fan mounting

21 Electrical components

Each Adande drawer unit is fitted with a 5amp fuse in the 240v mains supply to the controller, this fuse and holder is situated adjacent to the controller (Figure 26) and is accessed by removal of the front grille (Chapter 8).

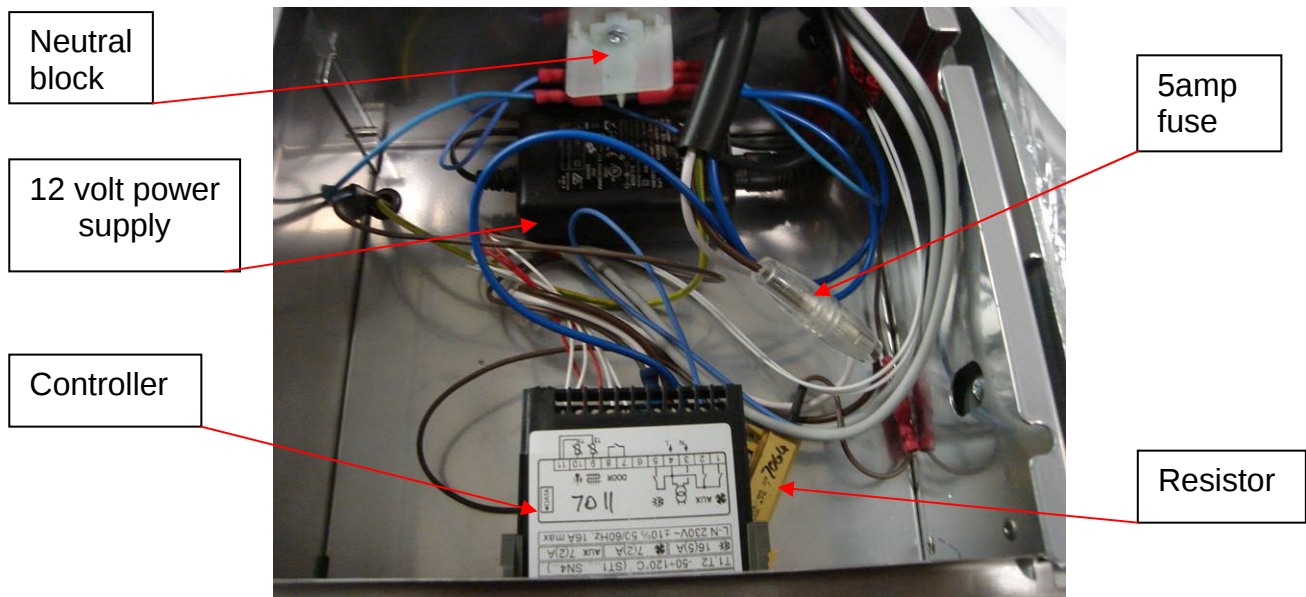


Figure 26: Electrical components

22 Electrical Control System

If replacing items connected to the AT2 Controller then please refer to figure 27 and the tables below.

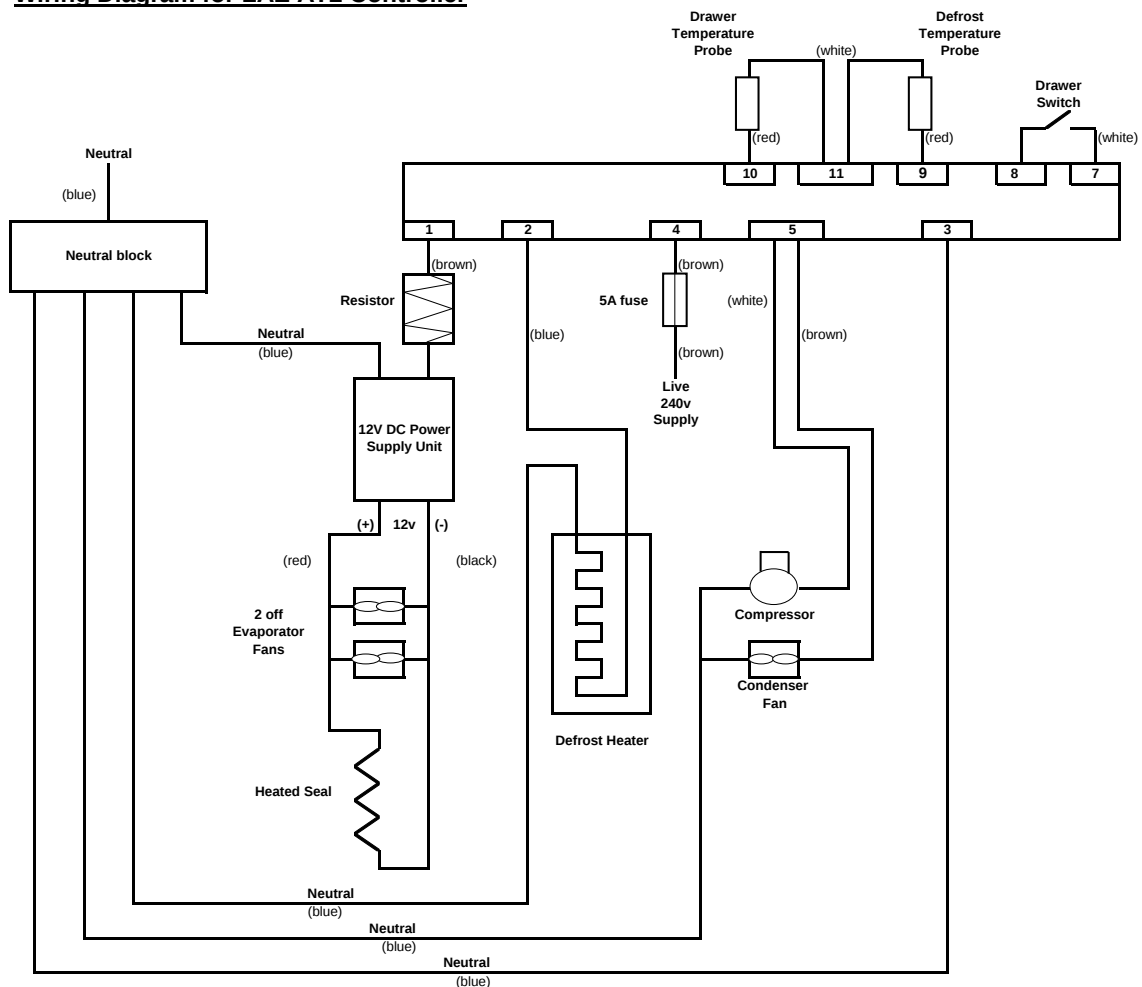


Figure 27: Wiring connections to AT2 controller

NOTE: ALL NEUTRAL CONNECTIONS GO TO THE NEUTRAL BLOCK.

AT2 Controller	
1	230 volt live to 12 volt power supply
2	230volt live to Defrost heater
3	Neutral block
4	Live mains 230volt
5	Compressor and condenser fan
6	
7	Drawer switch
8	Drawer switch
9	Defrost temperature probe
10	Evaporator fans drawer temperature probe
11	Common temperature probes

Wiring Diagram for LAE AT2 Controller



23 Settings for AT2 Controller

The Settings menu is accessed by pressing the 2 outer buttons **X + i** for 5 seconds

<i>Code</i>	<i>Setting</i>	<i>Description</i>	<i>Code</i>	<i>Setting</i>	<i>Description</i>
SCL	1.0°C	Readout scale	AHA	0	High temp alarm threshold
SPL	-22	Min temperature set point	ALR	-7	Low temp alarm differential
SPH	15	Max temperature set point	AHR	7	High temp alarm differential
SP	-18	Effective temperature set point	ATD	40	Delay before alarm warning
C-H	REF	Ref or Htg control mode	ADO	10	Door alarm delay
HYS	1.0	Thermostat hysteresis	ACC	0	Periodic condenser cleaning
CRT	02	Compressor rest time	IISM	non	2 nd set switch mode
CT1	5	Compressor run time with sensor T1 failure	IISL	-20	Min 2 nd temperature set point
CT2	5	Compressor off time with sensor T1 failure	IISH	15	Max 2 nd temperature set point
CSD	1	Compressor stop delay from door opening	IISP	3	Effective 2 nd temperature set point
DFR	4	Defrosting frequency/24h	IIHY	3	Hysteresis of 2 nd temperature
DLI	8	Defrost end temperature	IIFT	1	Optimised fan control in mode 2
DTO	25	Max defrost duration	IIDF	3	Defrost timer start in mode 2
DTY	ELE	Defrost type	SB	YES	Button (0/1) enabling
DRN	6	Drain down time	DS	YES	Door switch enabling
DDY	12	Defrosting display control	LSM	Non	Light control mode
FID	No	Fans active during defrost	OAU	DEF	Enables defrost control
FDD	-5	Fan restart temp after defrost	INP	SN4	Temp sensor selection
FTC	NO	Evaporator fan timed out	OS1	0	Probe 1 offset
FT1	0	Fan stop delay after comp stop	T2	YES	Probe 2 enabling
FT2	0	Timed fan stop	OS2	0	Probe 2 offset
FT3	0	Timed fan run	TLD	5	Delay for min/max temp. logging
ATM	REL	Alarm thresholds	SIM	10	Display slowdown
ALA	0	Low temp alarm threshold	ADR	1	Address for PC communication

24 Refrigeration maintenance

A standard hermetically sealed R404a vapour compression refrigeration system is used in the Adande® VariCool® unit and should need minimum maintenance.

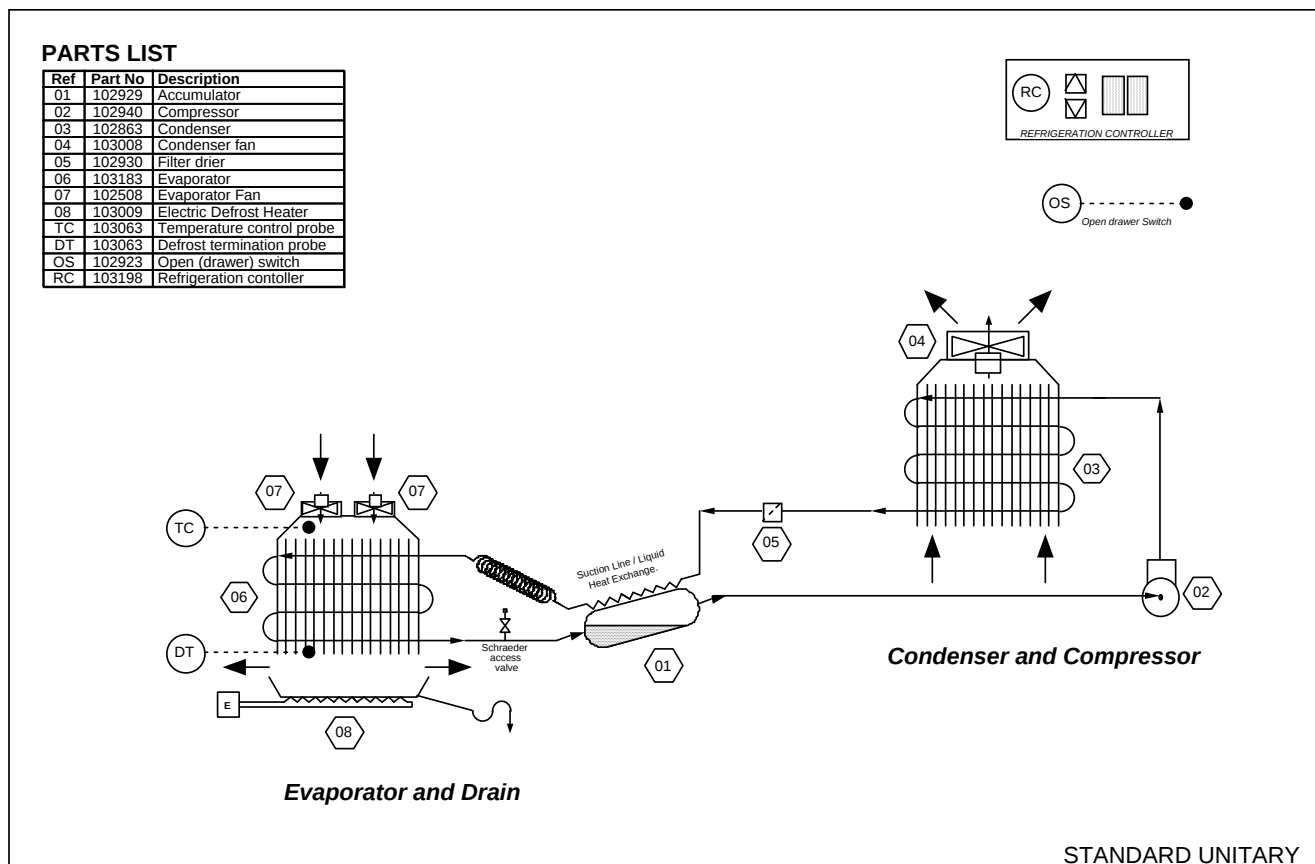


Figure 28: Refrigeration circuit diagram

The unique design for airflow over the condenser means that the majority of any airborne contaminants are deposited on the easily cleaned surfaces of the drawer cabinet and the insulated drawer.

In the unlikely event of the condenser becoming blocked, it can be accessed for cleaning by removing the insulated drawer and drawer front and cleaned in the normal way.

25 Unit configurations

The Adande® Side Engine Drawer Fridge (VCS) can be configured in several ways. Below are some examples of single, two and three drawer options.



VCS1HCHS

- Single drawer unit
- High castor base
- Heat shielding worktop

This arrangement is intended to support a grill or oven.



VCS2SRT

- Two drawer unit
- Small rollers & feet base
- Top cover

The top cover is a non load bearing cover.

This arrangement is intended for under counter installations



VCS3CW

Three drawer unit
Castor base
Worktop



VCS2CM

Two drawer unit
Castor base
Microwave station
(Optional can opener)



Blast chiller drawer module



Lockable drawers

26 Fault Finding

26.1 Drawers not operating correctly

Possible Cause	Recommended Action
Runners require lubrication	Lubricate runners, see Chapter 19
Runners are mechanically damaged	Replace runners, see Chapter 19
Seal is being over compressed	Readjust lid height, see Chapter 18
Ice build up causing diffuser to hit drawer	Check defrost heater operation and drain for blockages see Chapter 15

26.2 Seals and/or drawer rim have ice and condensation

Possible Cause	Recommended Action
Seal is contaminated	Clean the seal
Seal damaged	Replace seal, see Chapter 17
Seal heater is not working	a) Check 12 v power supply b) Check seal heater continuity, Replace seal if faulty, see Chapter 17
Seal compression is inadequate	Readjust lid height, see Chapter 18
Product/package trapped between drawer rim and lid distorting seal	Ensure stored product is below Max Fill line in insulated drawer.

26.3 Drawer is not maintaining set temperature

Possible Cause	Recommended Action
Failure of evaporator fans	a) Check drawer switch operation b) Check 12v power supply c) Check evaporator fans. Replace evaporator fans if necessary, see Chapters 12, 13, and 14
Seal failure	Check condition of drawer seal
Excessive icing of evaporator coil	a) Check defrost operation b) Check defrost heater operation c) Manually defrost d) Check/clean drain from evaporator e) Check seal condition f) Check lid height
Drawer temperature probe faulty	Replace temperature probe
Defrost termination probe faulty	Replace temperature probe
Blocked capillary line	Replace capillary tube.
Low refrigerant	Search for leak in system, repair leak and recharge unit with refrigerant
Failure of condenser fan	Check the condenser fan is operational, see Chapter 20
Condenser coil is blocked	Clean condenser coil
Failure of compressor	Replace compressor if faulty.

26.4 The unit does not power up

Possible Cause	Recommended Action
Fuse has failed in mains plug	Check fuse, if it has failed investigate for possible cause before fitting new 13A fuse.
Fuse has failed within unit	Check 5amp fuse – see Chapter 21
No mains power at mains terminals	If mains fuse OK then check wiring of the plug. Ensure power is switched off at socket.
Plugs into unit not fully inserted	Check all plugs/ sockets, ensure 'P' clips correctly fitted.

26.5 Evaporator fans run when drawer is open/or removed

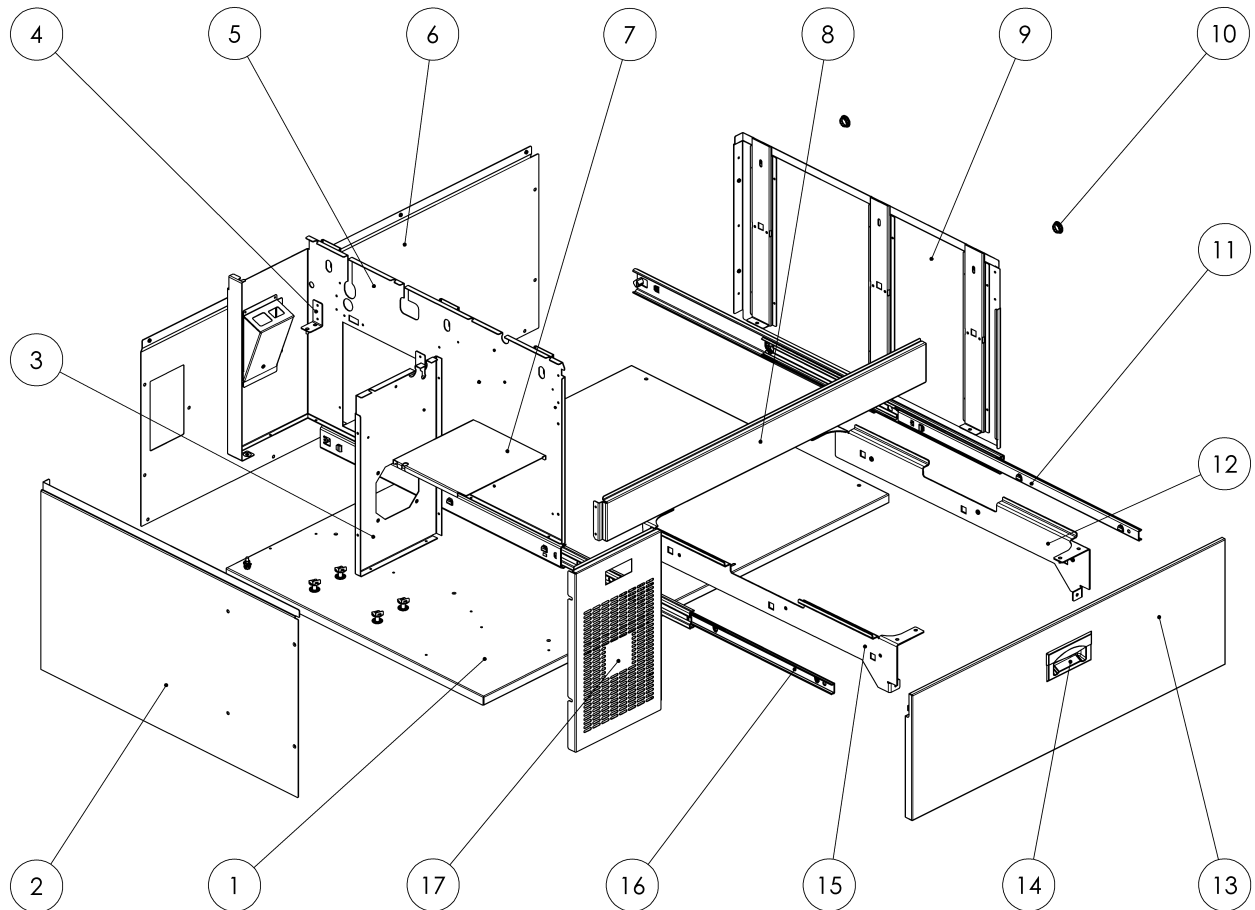
Possible Cause	Recommended Action
Controller has failed.	Replace Controller

26.6 Evaporator fans do not run when drawer is closed

Possible Cause	Recommended Action
Drawer switch has failed	Replace switch
12 v power supply failed	Check 12v power supply Check wiring to fans for damage

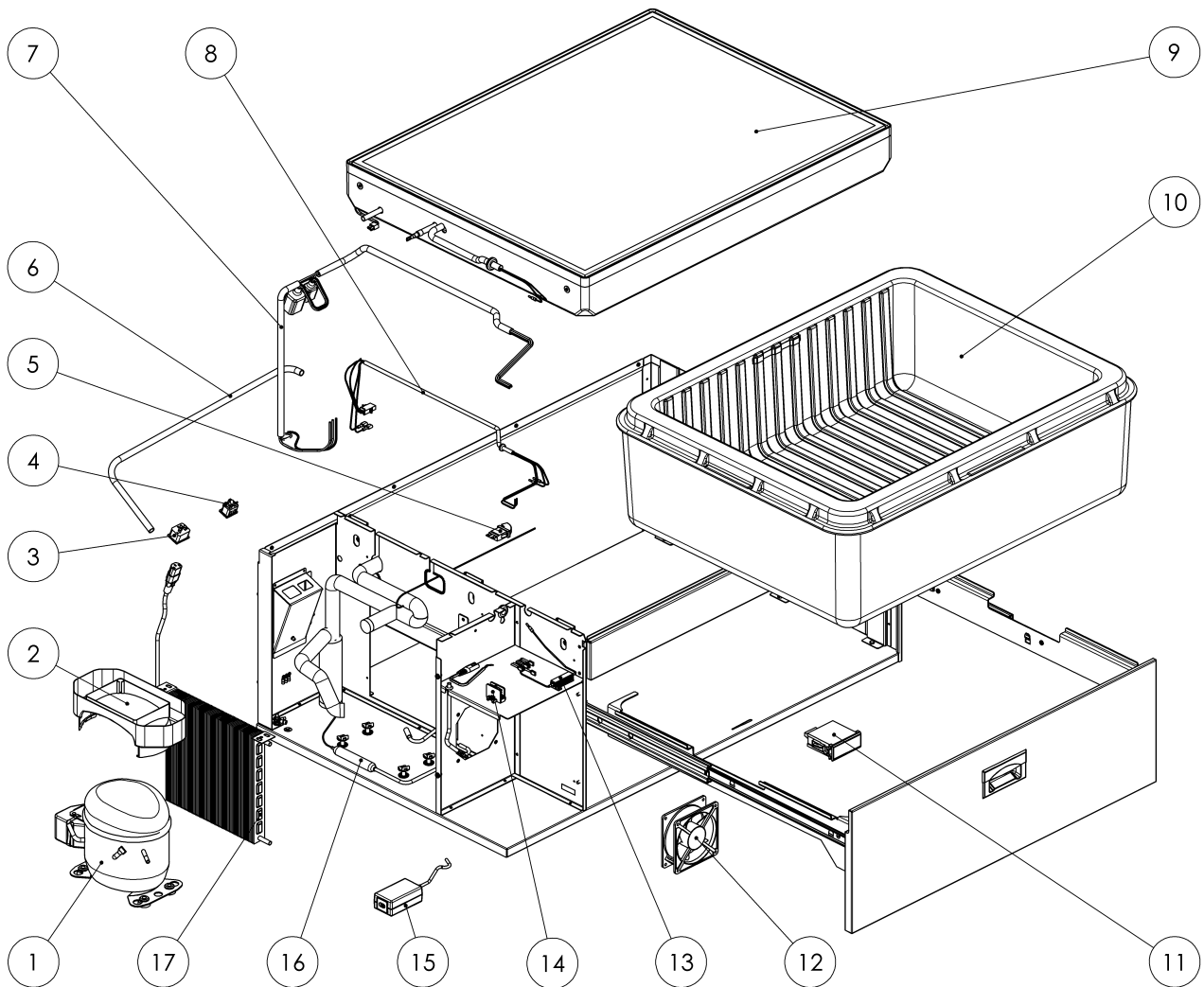
27 Exploded diagrams

27.1 Housing spare parts



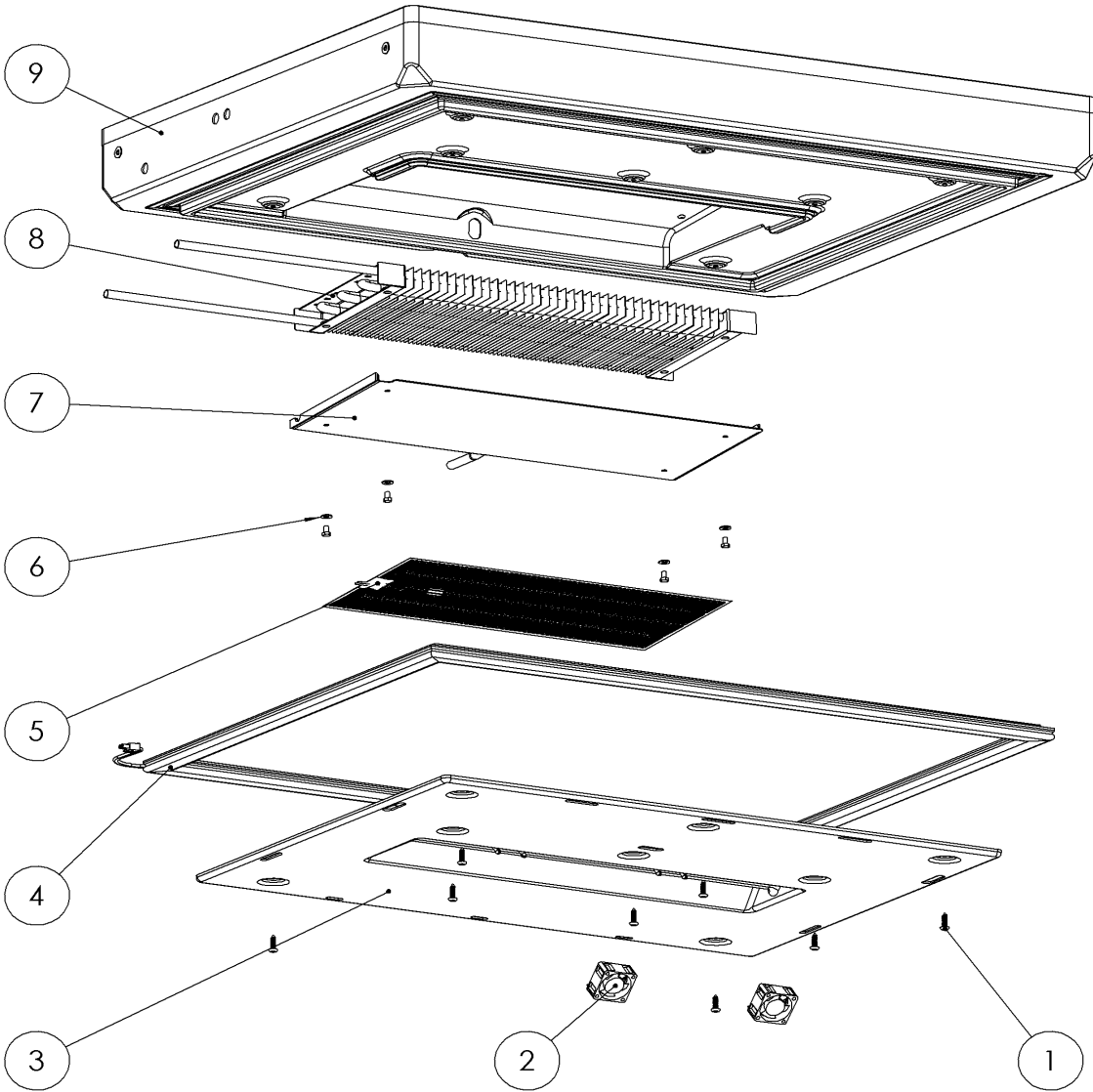
Item	Part No.	Description	Item	Part No.	Description
1	102890	PANEL HOUSING BASE	10	103292	BLANKING CAP
2	102892	PANEL HOUSING LH	11	103551	DRAWER SLIDE RH
3	102898	FAN MOUNTING PLATE	12	103485	SUPPORT RH ADANDE DRAWER
4	103247	BRACKET CONDENSER SUPPORT	13	103482	DRAWER FRONT
5	102896	COMMON WALL	14	103257	DRAWER PULL
6	102893	PANEL HOUSING REAR	15	103486	SUPPORT LH ADANDE DRAWER
7	102899	PANEL LOWER CONTROLS	16	103550	DRAWER SLIDE LH
8	102928	CHANNEL UPPER FRONT	17	103497	PANEL CONTROLLER & LOU
9	102946	PANEL HOUSING RH			

27.2 Fridge, Electrical System and drawer



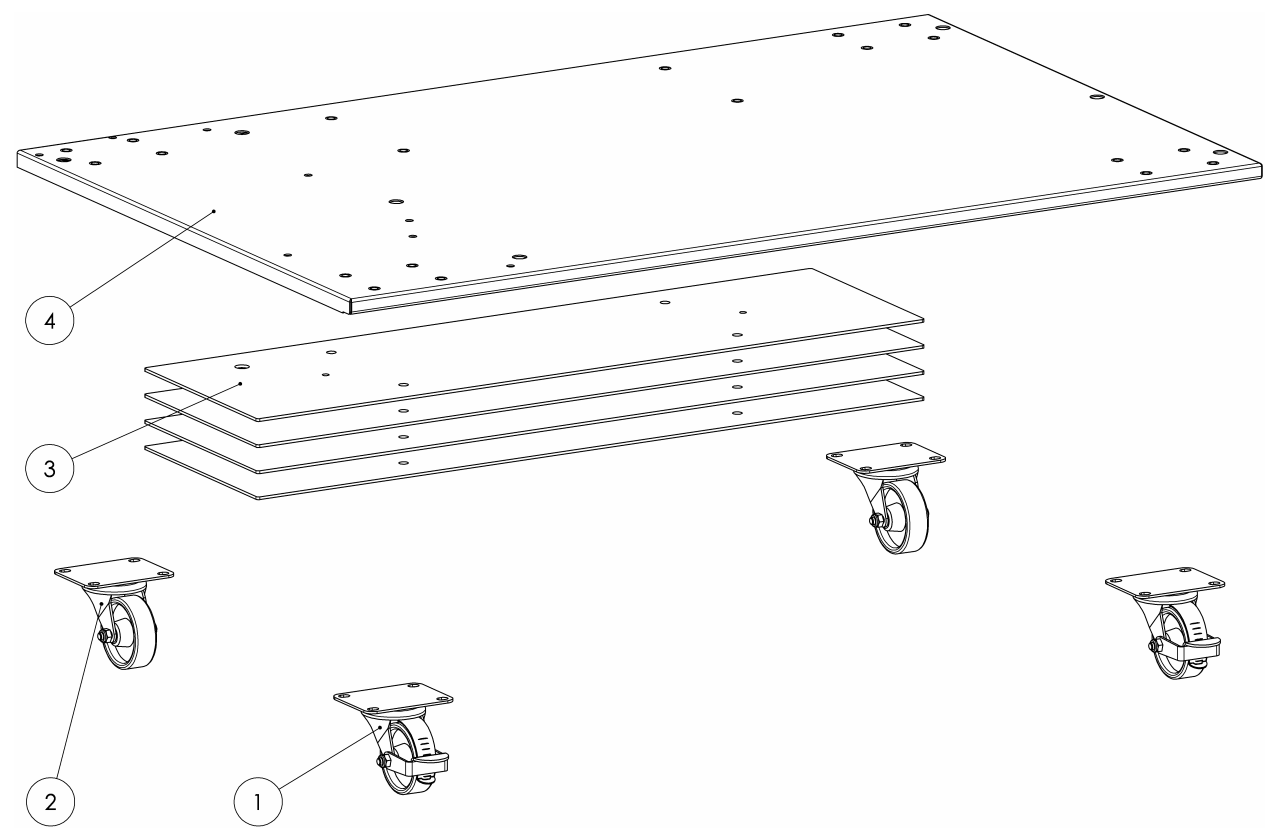
Item	Part No.	Description	Item	Part No.	Description
1	103533	COMPRESSOR	10	102216	INSULATED DRAWER
2	103534	EVAPORATOR TRAY	11	102924	DEFROST CONTROLLER
3	102922	POWER OUTLET IEC	12	103008	CONDENSER FAN
4	102921	POWER INLET IEC	13	103446	RESISTOR
5	102923	DRAWER SWITCH	14	102925	BARRIER TERMINAL
6	103581	DRAIN PIPE	15	103512	POWER SUPPLY 12V ASSEMBLY
7	102962	HARNESS MAIN POWER INTERNAL	16	102930	FILTER DRIER
8	103030	HARNESS SWITCH & SEAL HEATER	17	103185	CONDENSER
9	103013	INSULATED LID ASSEMBLY			

27.3 Insulated Lid (part No. 103013 – Complete Assembly



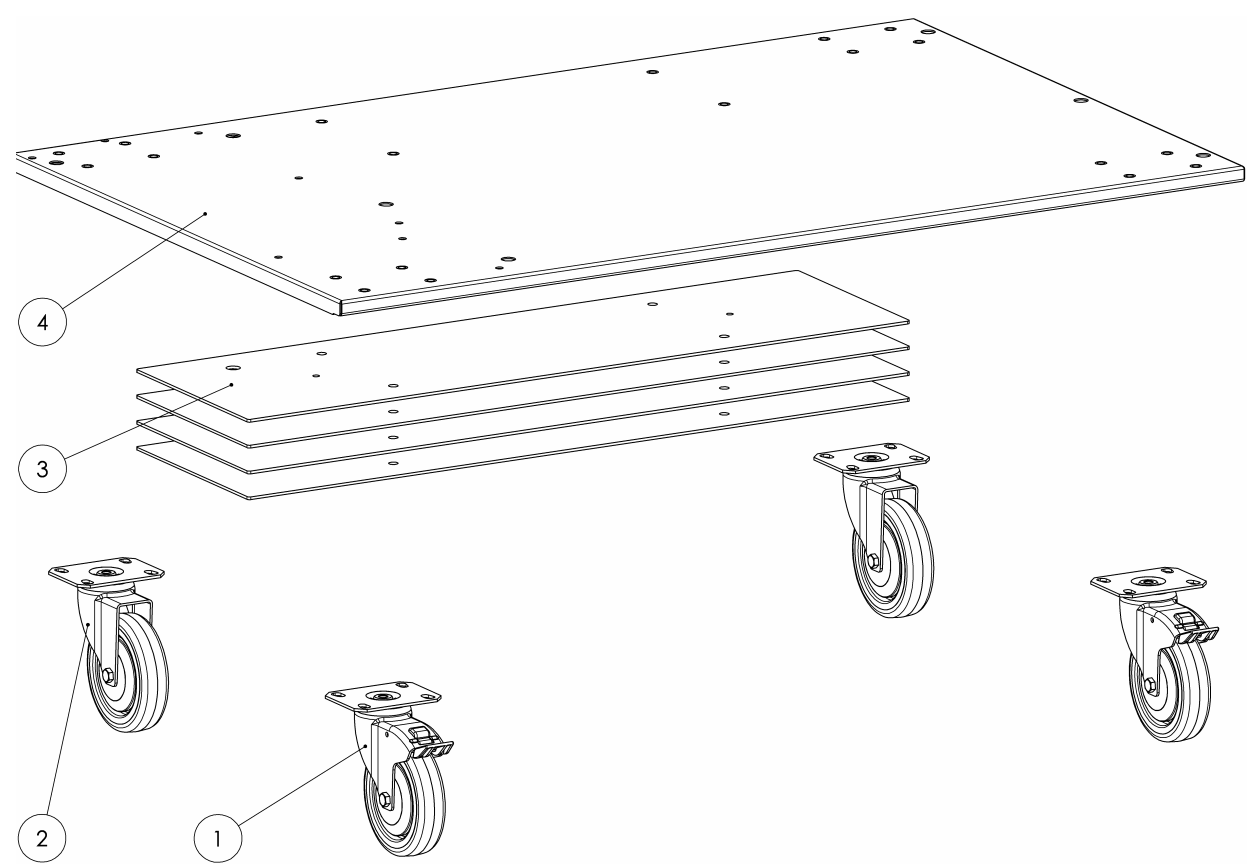
Item	Part No.	Description	Item	Part No.	Description
1	103583	SCREW LID DIFFUSER FIXING	6	103491	WASHER ST/ST BONDED
2	102508	EVAPORATOR FAN	7	103082	PLATE DEFROST COLLECTION
3	102907	LID DIFFUSER	8	102859	EVAPORATOR COIL
4	102745	DRAWER SEAL HEATED MAGNETIC	9	102914	INSULATED LID
5	103009	DEFROST HEATER ELECTRIC			

27.4 C - BASE - Standard Castors (Part No. 102992 – complete assembly)



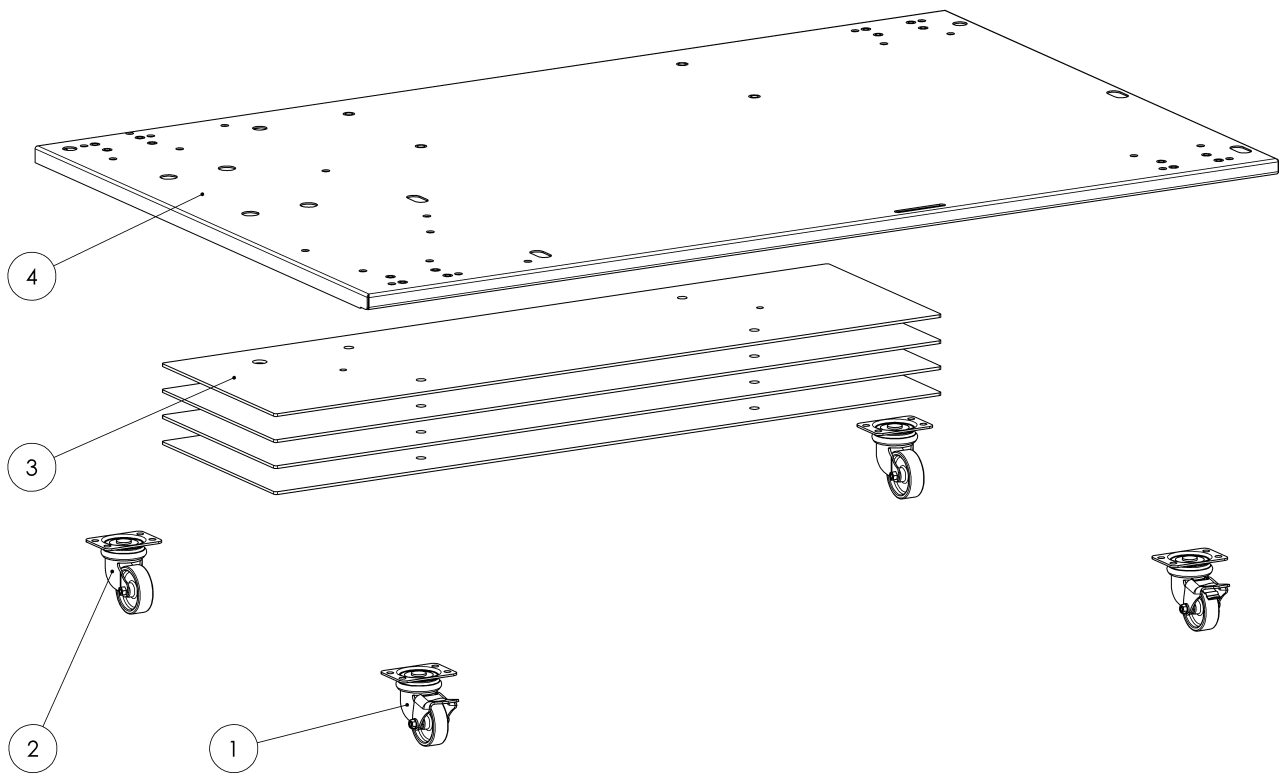
Item	Part No.	Description
1	102517	SWIVEL CASTOR 75mm WITH BRAKE
2	102516	SWIVEL CASTOR 75mm
3	102905	PANEL COUNTERBALANCE
4	102889	PANEL BASE CASTOR TROLLEY

27.5 HC – BASE - High Castors (Part No. 103506– complete assembly)



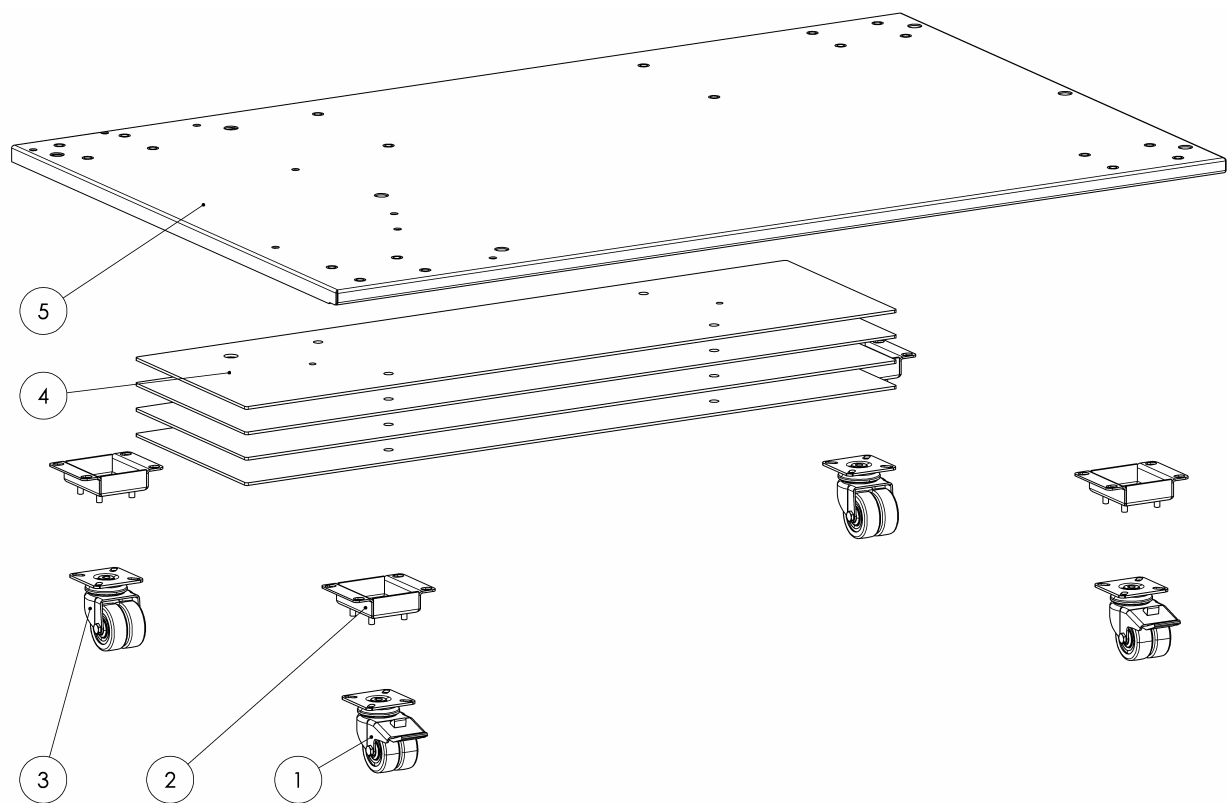
Item	Part No.	Description
1	103502	SWIVEL CASTOR 125mm WITH BRAKE
2	103501	SWIVEL CASTOR 125mm
3	102905	PANEL COUNTERBALANCE
4	102889	PANEL BASE CASTOR TROLLEY

27.6 SC – BASE - Small Castors (Part No. 103535– complete assembly)



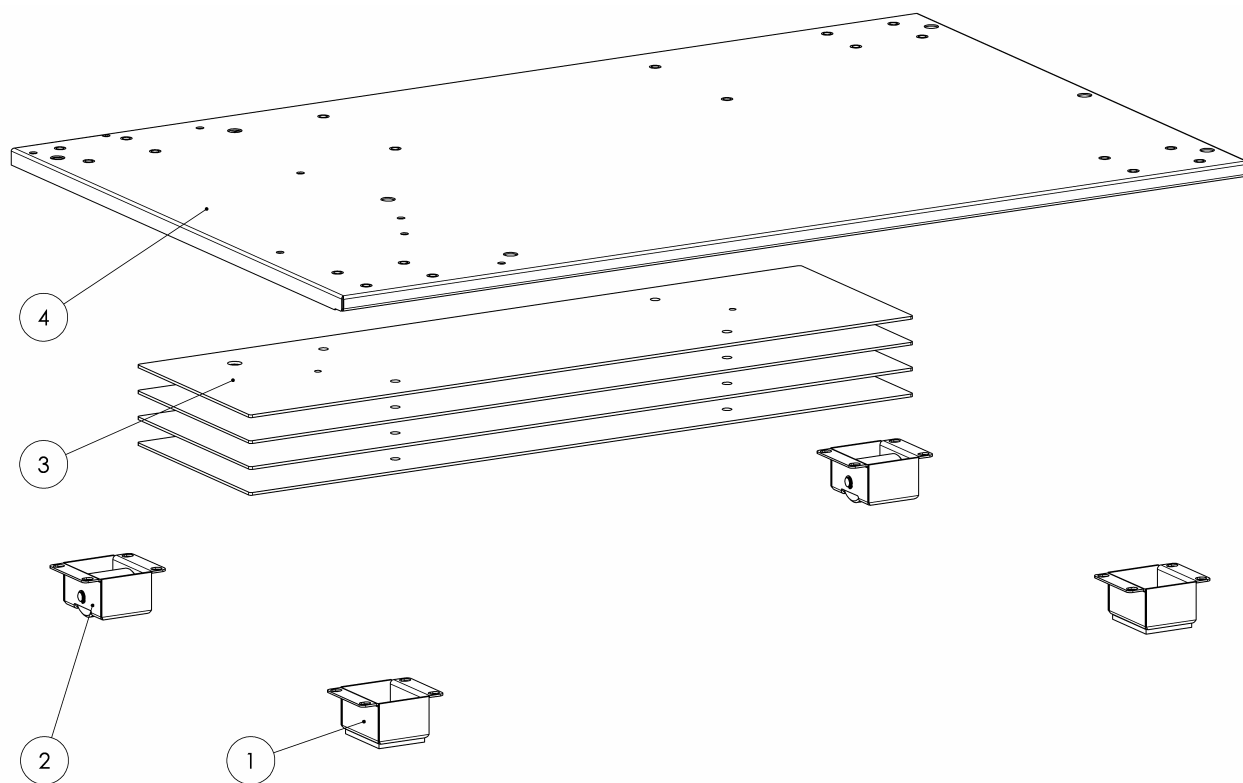
Item	Part No.	Description
1	103524	SWIVEL CASTOR BRAKED 50mm
2	103523	SWIVEL CASTOR 50mm
3	102905	PANEL COUNTERBALANCE
4	103522	PANEL BASE 50mm CASTOR TROLLEY

27.7 DC- BASE - Double Castor with Adapter (Part No. 103465 – complete assembly)



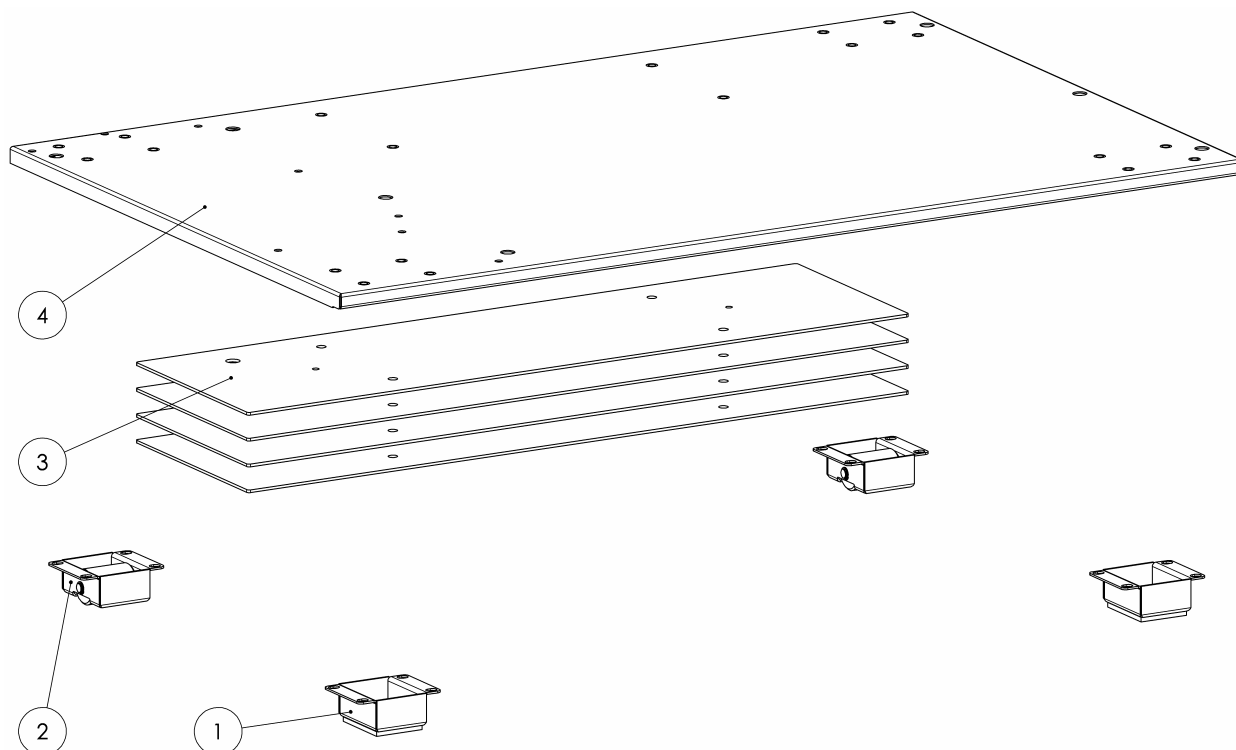
Item	Part No.	Description
1	103376	SWIVEL CASTOR DOUBLE WHEEL BRAKED
2	103372	BRACKET ADAPTER CASTOR FITTING
3	103375	SWIVEL CASTOR DOUBLE WHEEL
4	102905	PANEL COUNTERBALANCE
5	102889	PANEL BASE CASTOR TROLLEY

27.8 R – BASE - Rollers rear, Feet front (Part No. 102993 – complete assembly)



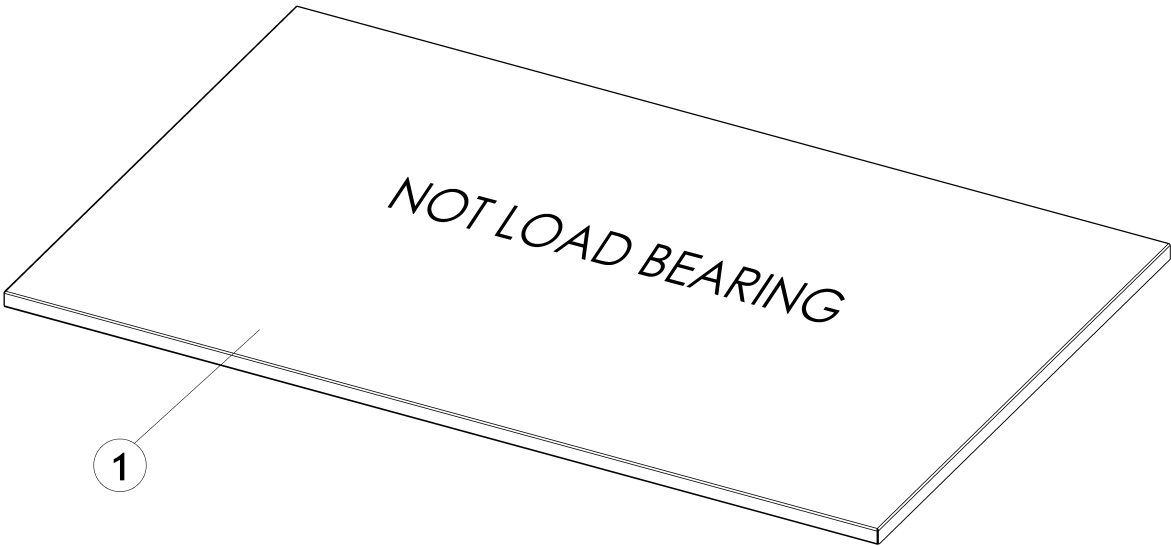
Item	Part No.	Description
1	103007	FOOT SUPPORT 50MM ASSEMBLY
2	102955	ROLLER ASSEMBLY
3	102905	PANEL COUNTERBALANCE
4	102889	PANEL BASE CASTOR TROLLEY

27.9 SR – BASE - Small Rollers rear, Small Feet front (Part No. 103393 – complete assembly)



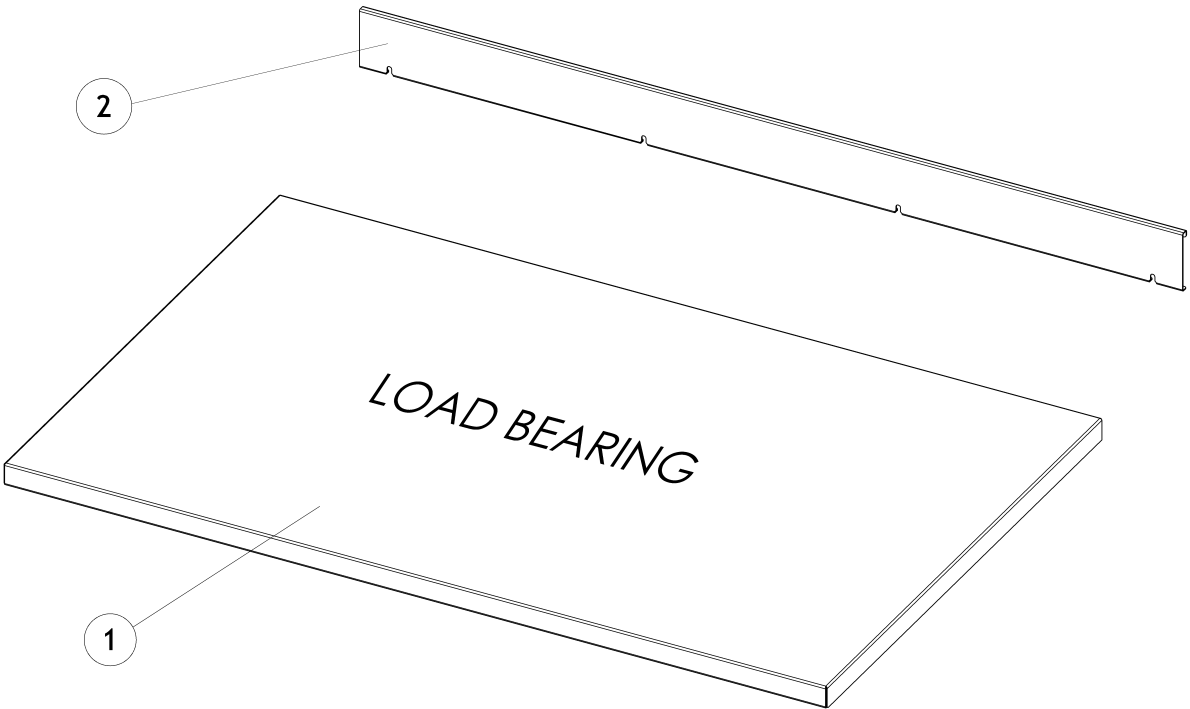
Item	Part No.	Description
1	103229	FOOT SUPPORT 40MM ASSEMBLY
2	103232	ROLLER SMALL ASSEMBLY
3	102905	PANEL COUNTERBALANCE
4	102889	PANEL BASE CASTOR TROLLEY

27.10 T - Top cover



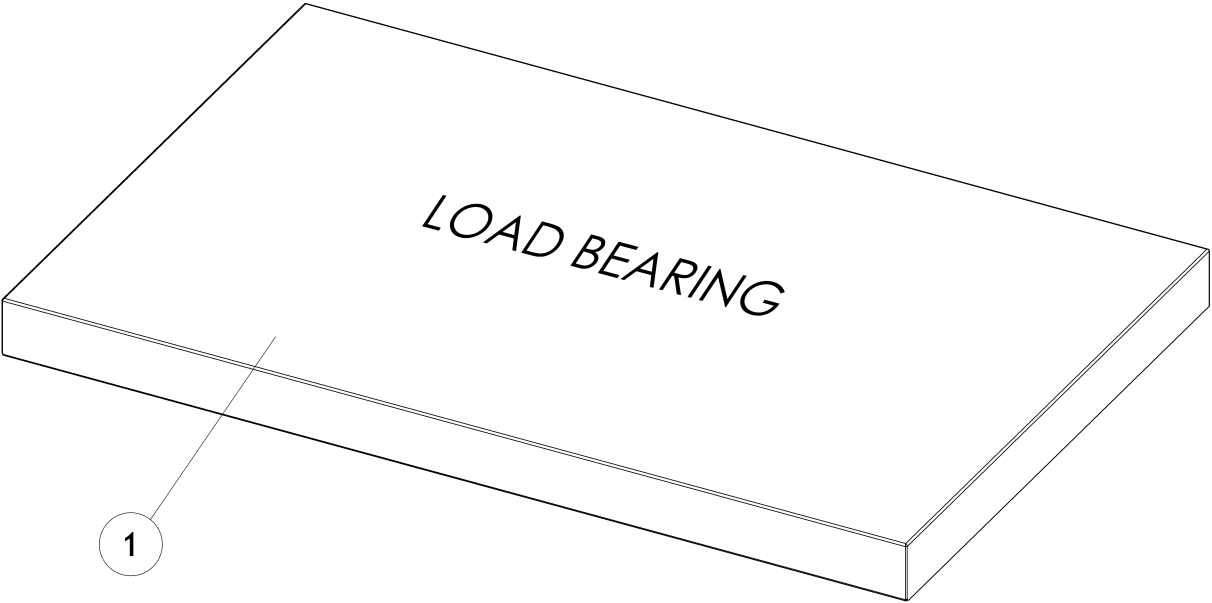
Item	Part No.	Description
1	103034	TOP COVER

27.11 W - Worktop (shown with optional 50mm upstand)



Item	Part No.	Description
1	102949	WORKTOP
2	103056	UPSTAND

27.12 HS - Heat shield top



Item	Part No.	Description
1	103570	HEAT SHIELD TOP