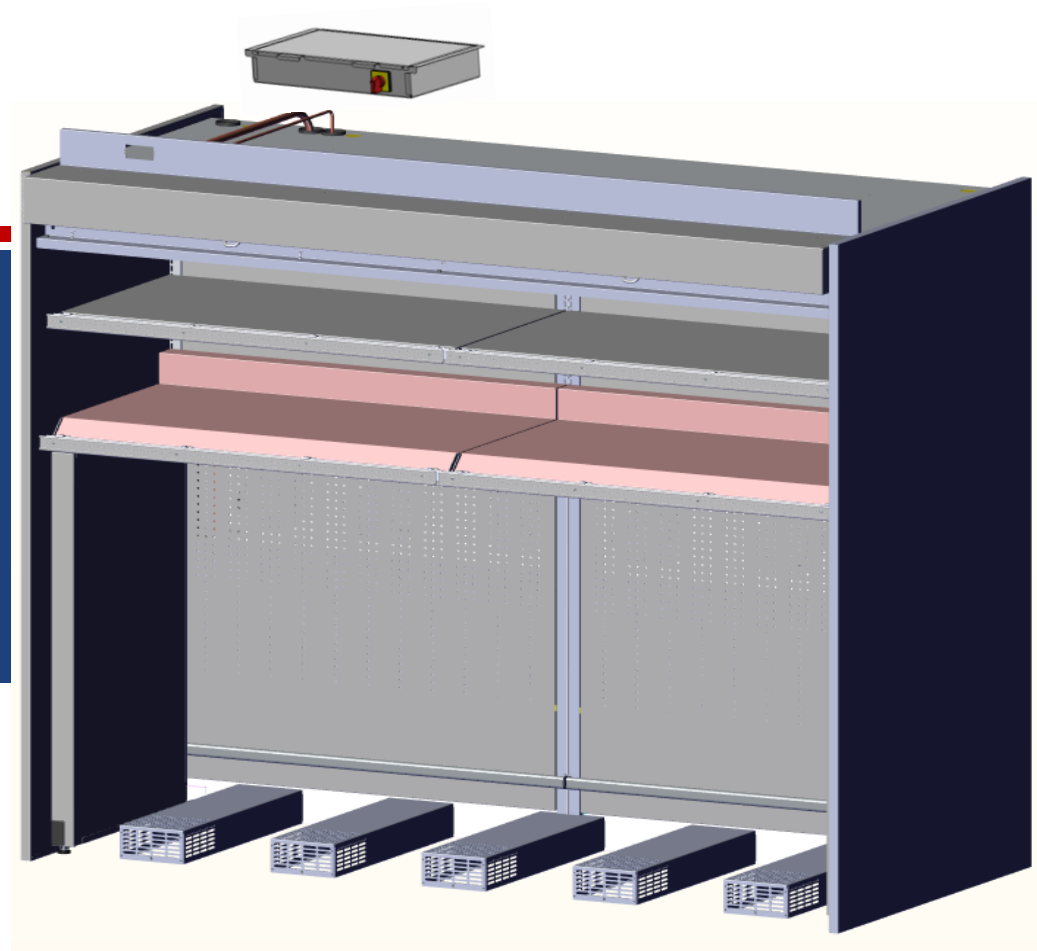


OEM Manual RF-DX Cabinet Range

CASE CODE TYPE:RF
Roll-in Open Multideck

Reference Number: RF-DX-2200
Remote DX
Revision: 01
Issue Date: 29/04/2021



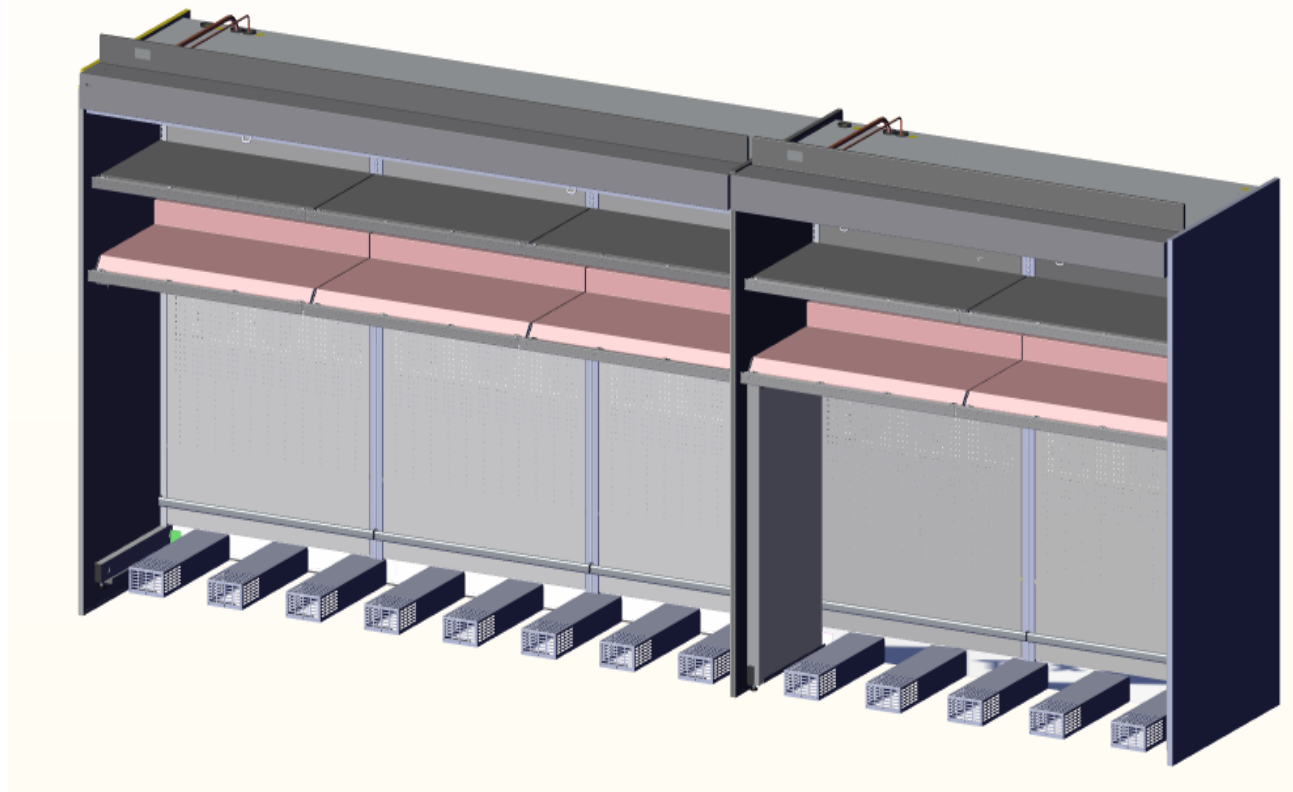
General Enquiry Number
0121 250 1111

RFA-DX Cabinet Range

Description:
Contents Page

Ref Number:	Date:	Rev:
RF-DX-2200	29/04/2021	1

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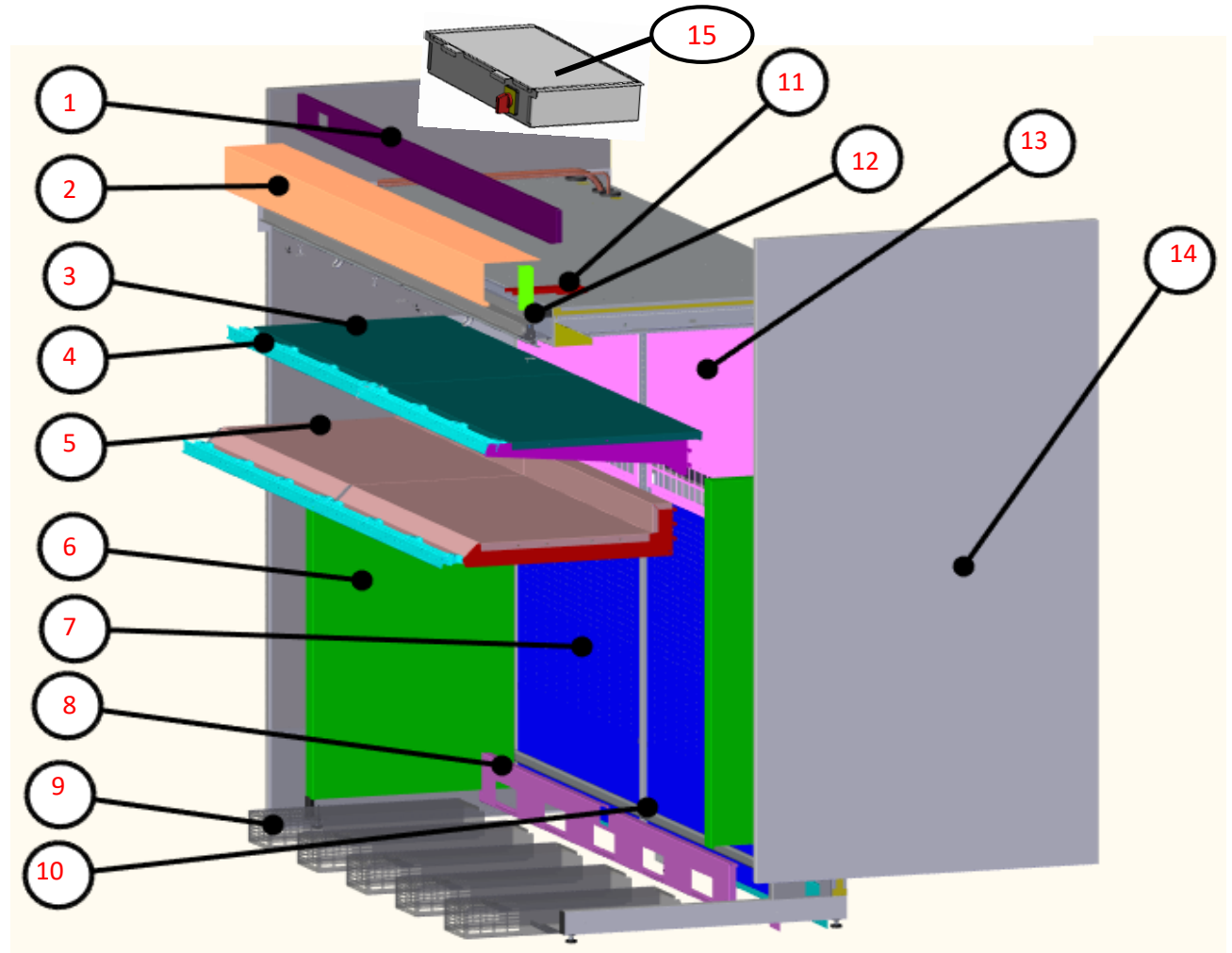


RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Photographs/CAD files

SOP Number:	Date:	Rev:
668	29/04/2021	1

- 1.Pipe Cover
- 2.Canopy
- 3.Top Shelf
- 4.Ecoblade
- 5.Bottom Shelf
6. End Wall Solid Square 70mm
- 7.Back Baffle Lower
- 8.Plinth Rear
- 9.Duct Bottom
- 10.Bumper Front
- 11.Canopy Support
- 12.Canopy End Blank
- 13.Back Baffle Upper
14. End Wall Solid Square 2226mm
15. Electric Tray



RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Case Installation Mechanical

SOP Number:	Date:	Rev:
668	29/04/2021	1

- 1. Yellow bar : Cabinet transport
- 2. Transport dolly : Cabinet transport
- 3. Roller Crowbar: Cabinet transport
- 4. Knife: Cabinet unwrapping
- 5. Level: Cabinet setting
- 6. 10mm Wrench: Cabinet setting
- 7. 12mm Wrench: Cabinet setting
- 8. Tape measure: Canopy, end panel & pipe cover installation
- 9. 'C' Clamp: Cabinet setting
- 10. Battery operated drill: Canopy, end panel & pipe cover installation
- 11. Hammer drill:
- 12. Mastic gun: End panel installation
- 13. Hacksaw: Rear infill and plinth



RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Transport Loading/Unloading

SOP Number:	Date:	Rev:
668	29/04/2021	1

Case Moving

Locate the yellow fork lift brace into the box section of the case. **Ensuring the pin locates into the hole.** Refer to Pic 1,2 and 3.

Using the lifting bar lift the case and locate transport dollies under the four feet.

Leave yellow bar in position until the case is in the store, then remove and return it to the delivery vehicle.

Remove dollies from under the feet. Refer to pic 4 and 5 .

Note:

Lift the case from the rear. Don't lift the case from the middle or the front. Refer to pic 4 and 5.

Do not push the case above mid way as the case may fall backwards.

❖ Yellow bar must be returned to LFR by the delivery driver.



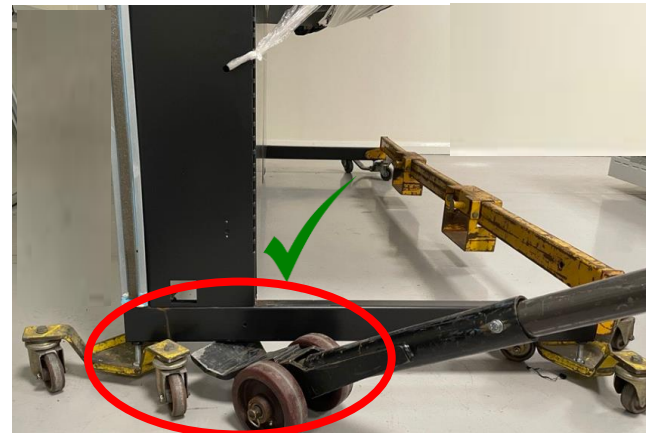
Pic 1



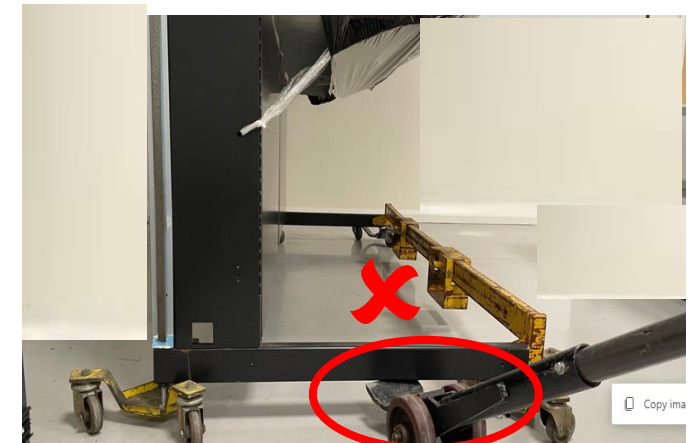
Pic 2



Pic 3



Pic 4



Pic 5

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Packaging

SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

Temporarily remove and store all loose parts located inside the cabinet to a location where parts can be kept free from damage and in a safe manor. Refer to pic 1.

Remove the following parts from the cabinet to be multiplexed and check all parts for damage etc.;

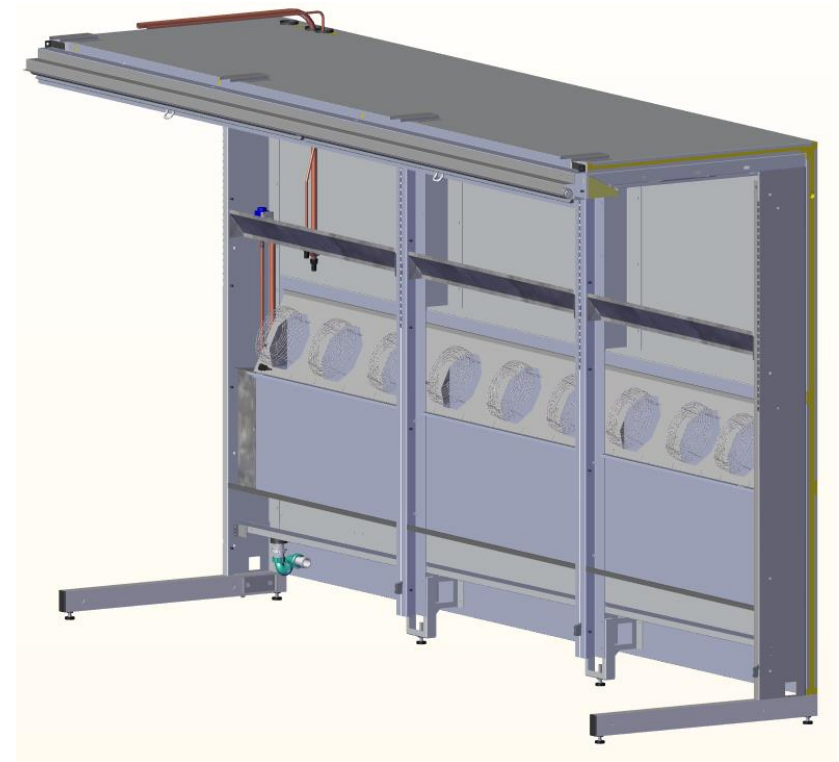
- Shelves,
- Brackets;
- Back baffles;
- Bumper.
- Fixing Kits

Note:

All wrappings and waste must be disposed of in accordance with correct waste management system.



Pic 1



Pic 2

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Case to case multiplexing

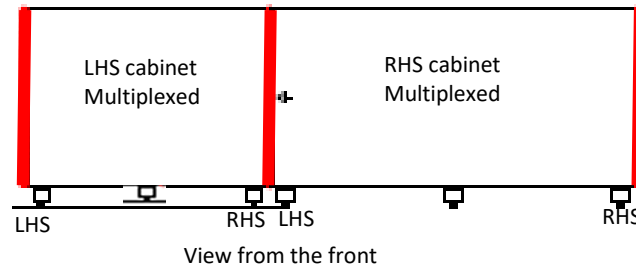
SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

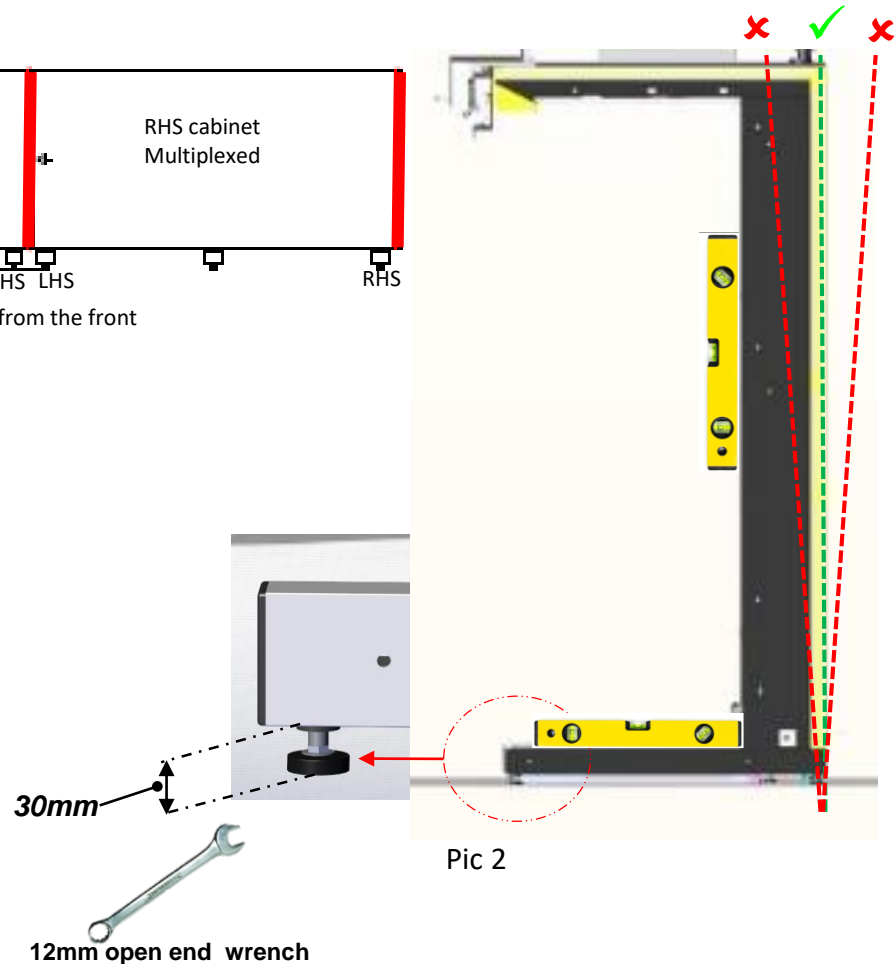
Always start from the right hand side of the run of cases. Refer to pic 1.
 Set the feet height at 30mm from the bottom of the box section to the floor.
 Level the case and ensure that the feet are not lower than 30mm. Refer to pic 2.
 Repeat the process to the next case to be multiplexed before joining the two cases together.

Note:

Ends will need to be fitted to the appropriate end of the case run. Check where the end wall is required before commencing. Refer to next page.



Pic 1



Pic 2

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Case Installation Ends

SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

Fit sponges tape to the right and left hand of the case. Remove the 4 cage nuts from the R/H C frame if fitting a right hand end. Refer to pic 3.

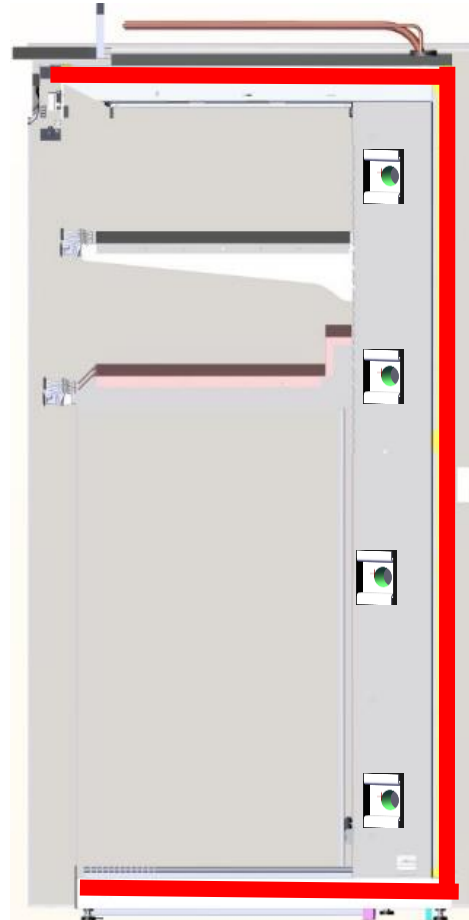
Before fitting the R/H, L/H end wall and inter end into position, the bracket brace must be fitted.

Bracket brace locates into M6 nutsert at the bottom of the inner skin of the ends using M6 Pan head Screws supplied in the end fixing kit.

Note: Don't fix the top brace at this stage.

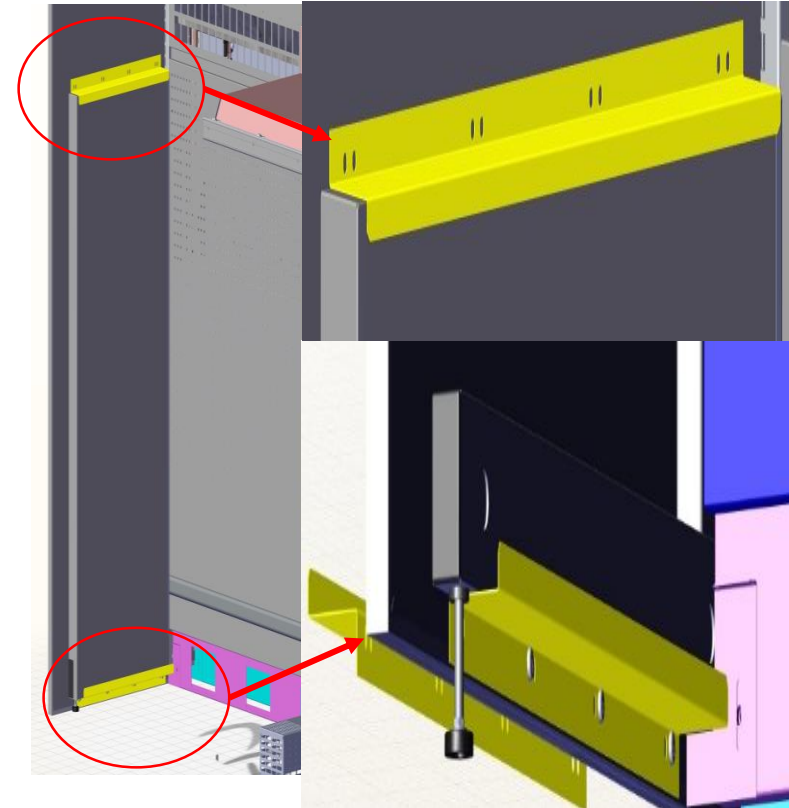
R/H X 1, L/H X 1 and Inter X 2 bracket brace to be fitted. Refer pic 4

Note: Fixing kit for ends will be supplied.



Sponge tape shown in red fitted to cabinet superstructure, end frame & end frame support

Pic 3



Pic 4

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Case Installation Ends

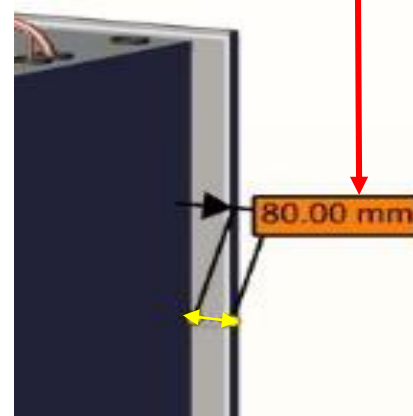
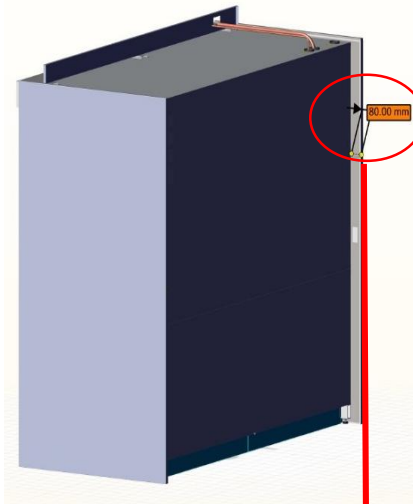
SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

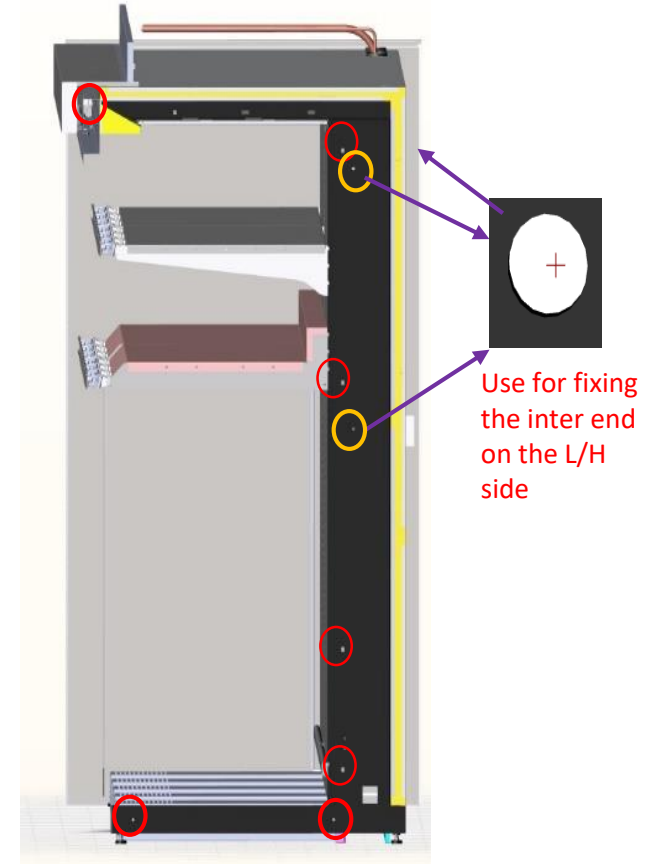
Fit the ends to the floor overhanging the back of the case by 80mm. Refer to Pic 5. Minor adjustment might have to be made for levelling end to the case. Use 25mm self tapping screws and 6mm washers to secure the end. Refer to pic 6. Secure Inter end using only two 25mm self tapping screws and 6mm washers onto the left hand C frame. Refer to pic 6.

Note:

Fixing kit for ends will be supplied. When fixing the inter end don't use the holes required for multiplexing the case. Holes indicated in red. Refer to pic 6.



Pic 5



Pic 6

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Multiplexing

SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

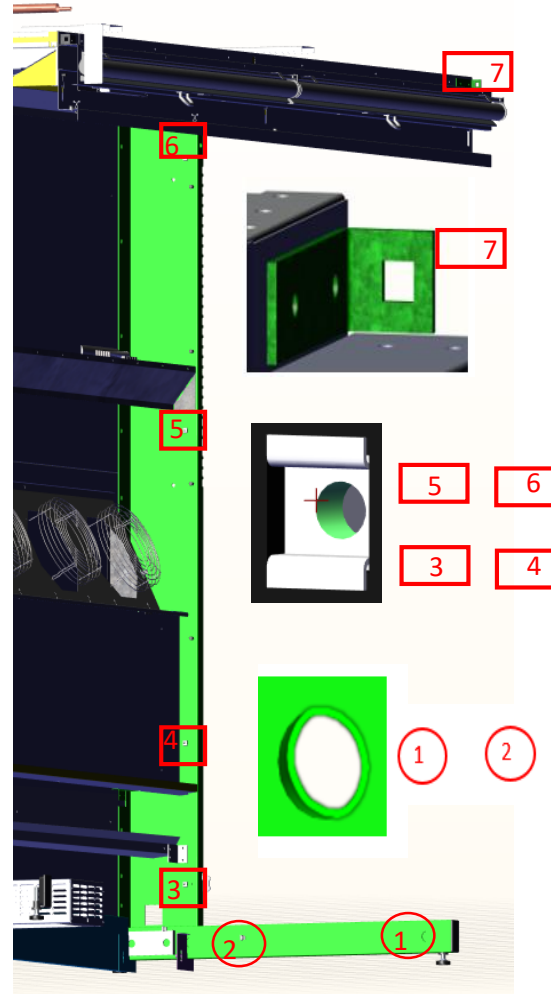
After fixing the inter ends drill 7mm holes through the holes in the C frame and the left hand inter end. Refer to pic. 7.

Then Insert M6 x 65 bolt and washers through the hole of the C frame and the end and locate into the four cage nut fixings of the left hand case. Refer to pic. 7 location 3,4,5 and 6.

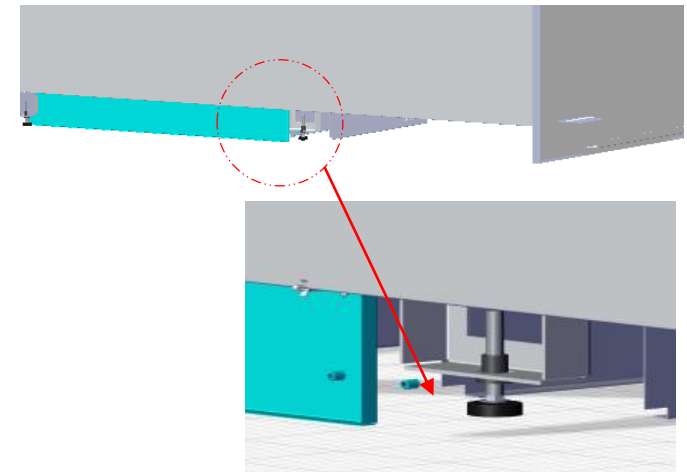
To secure locations 1,2 and7 use M6 x 65 bolt and M6 nut and mudguard washers. Wined the middle feet down to the floor. Refer to pic 8

Note: Fit sponges to both ends of the case before multiplexing.

Repeat this process to multiplex the rest of the cases in the run.



Pic 7



Pic 8

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Rear infill

SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

Fit infill bottom into position and secure through the tabs (A) using 3/8 flange head screws supplied in the fixing kit. Blanking plates (B) to be removed to suit L/H or R/H fitting. L/H shown in pic. 1.

Note:

Blanking plates might have to be cut to fit under the box section. Refer to pic. 2
 Note: On the 3.75m cases an inter infill will be supplied without blanking plates.

Note:

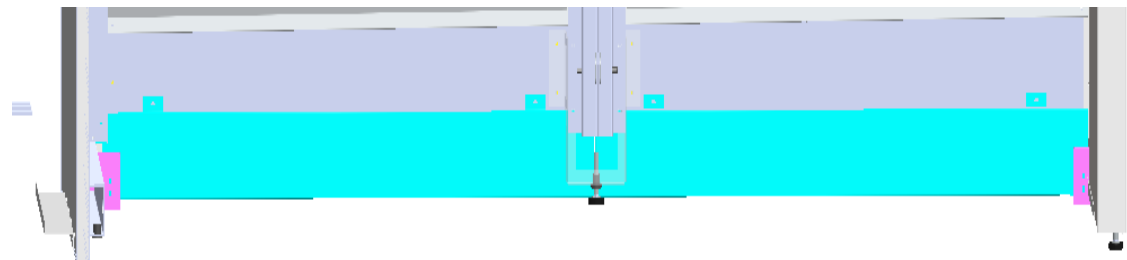
Failure to install rear infills will result in poor cabinet performance



Pic 1



Pic 2



Pic 3

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Drainage Connection

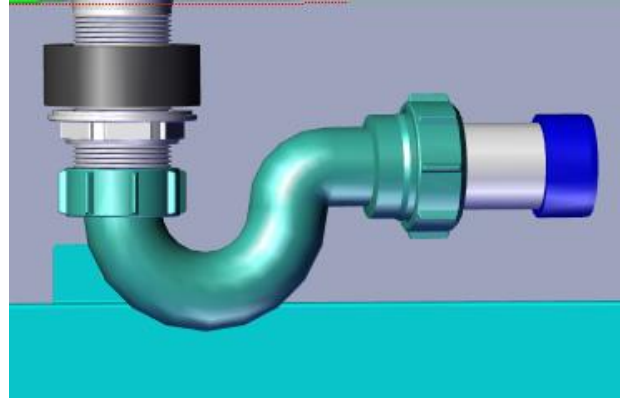
SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

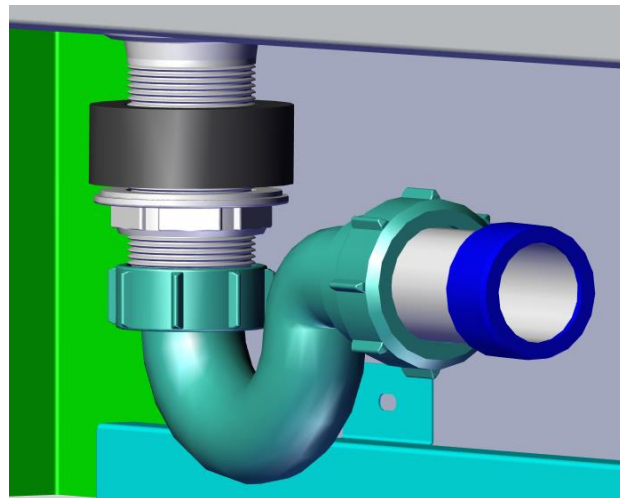
Drainage to be fitted to site specifications
Ensure adequate fall is achieved.
The P trap 1 ½" and reducer 1 ¼" is fitted
on the case as shown in Pic 1.

Note:

These are situated behind the back panels
and must be installed along with drainage to
ground level prior to the case being dressed.



Pic 1a



Pic 1b

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Plinth Rear

SOP Number:	Date:	Rev:
668	29/04/2021	1

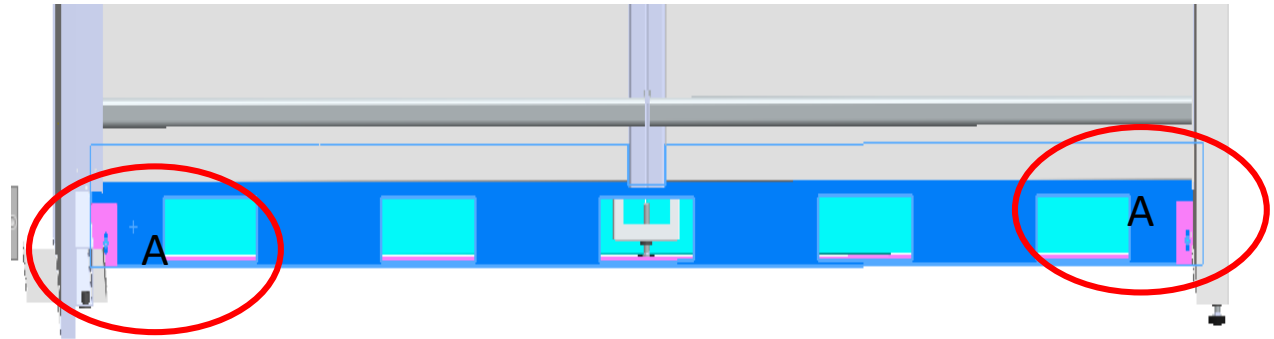
Installation Process

Remove the blanking plates (A) from the plinth. Locate plinth rear in to position and replace the blanking plates.

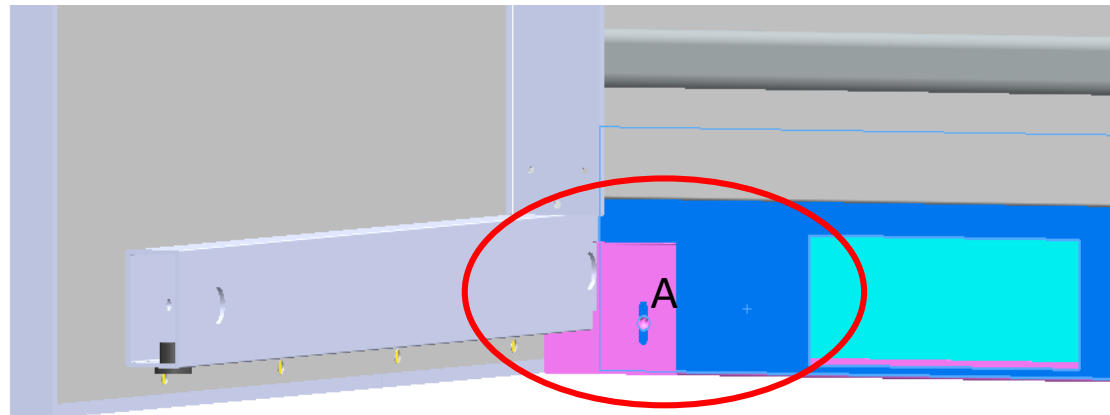
Note:

Blanking plates might have to be cut to fit under the box section. Refer to pic. 2

- Refit all back baffle ,bumper assemblies.



Pic 1



Pic 2

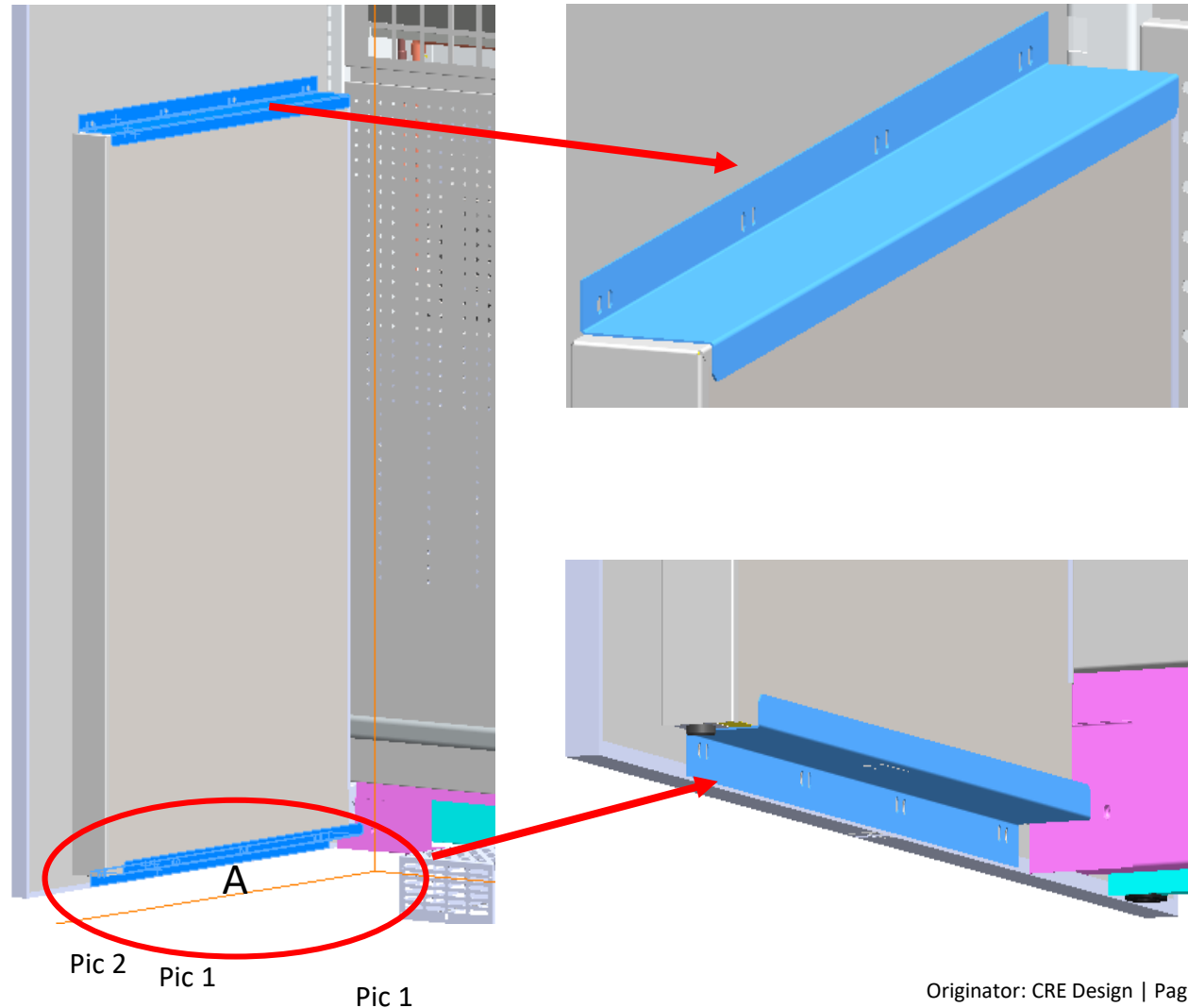
RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	End Wall Solid Square

SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

Locate the solid square end into the lower bracket and secure the end in position using another bracket and self tap screws supplied with end fixing kit. This process will be carried out on all ends fitted. The R/H and L/H inner skin.



RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Duct Bottom

SOP Number:	Date:	Rev:
668	29/04/2021	1

Installation Process

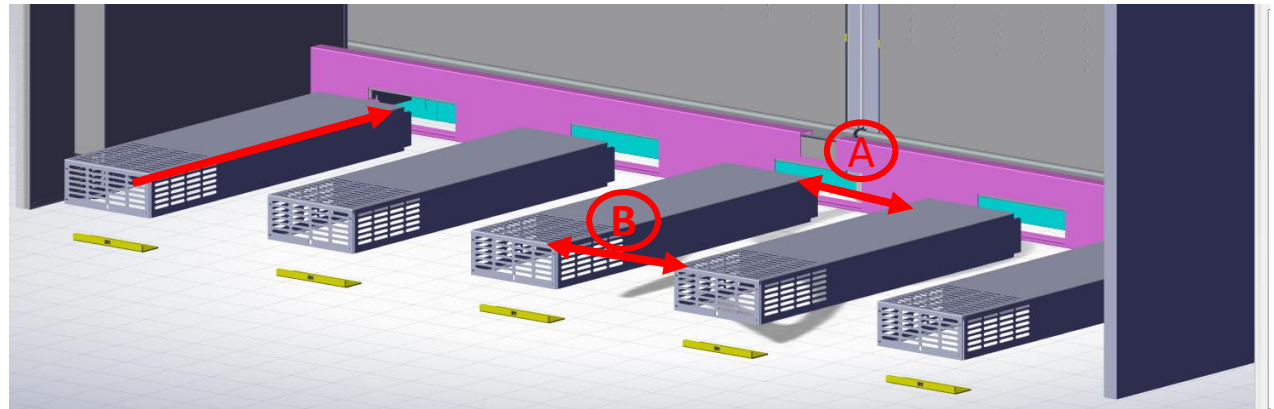
Locate duct bottoms into the square cut out in the rear plinth as shown pic A.

The gap between the ducts at the rear should be the same at the front. Refer to pic 1 A&B. Check the ducts are in line and then mark the position of the front of the ducts on the floor. Also mark a centre line in the middle of the hole in the front of the duct on the floor. Refer to pic. 2.

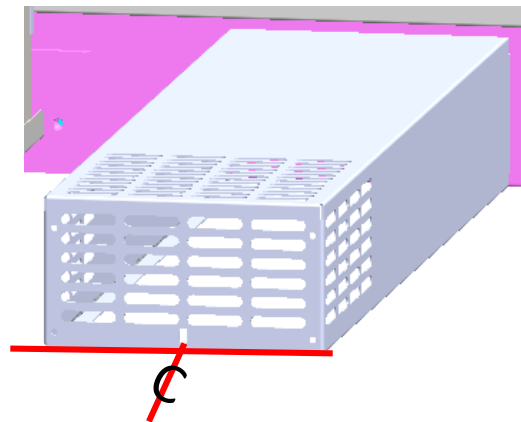
Position the duct plate bottom on the marking on the floor ensuring the plate sits at the back of the line. Line the hole in the plate with the centre line on the floor and fix with x2 screws. See note. Refer to pic. 3. Place the duct into the cut outs in the rear plinth and locate over the duct plate bottoms and secure with M6 x20 HEX screws and 6mm washers.

Note:

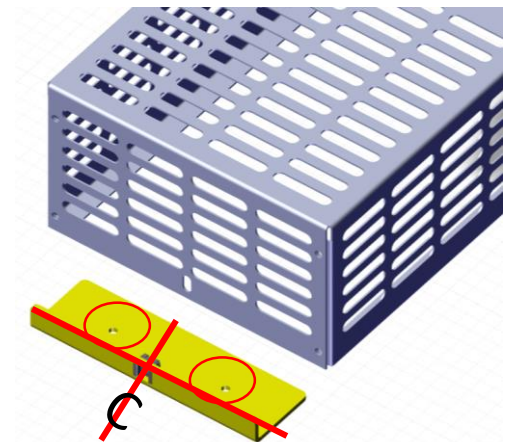
A suitable 7mm drill bit required to drill the floor for x2 holes per duct plates for 7mm raw plugs. Not supplied



Pic 1



Pic 2



Pic 3

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Dressing cabinet/shelves

SOP Number:	Date:	Rev:
668	29/04/2021	1

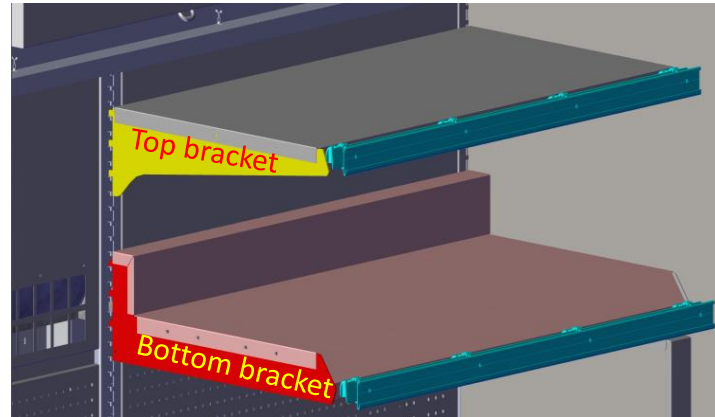
Installation Process

Locate shelf brackets so that the bottom ducted shelves covers the holes in the back baffle.

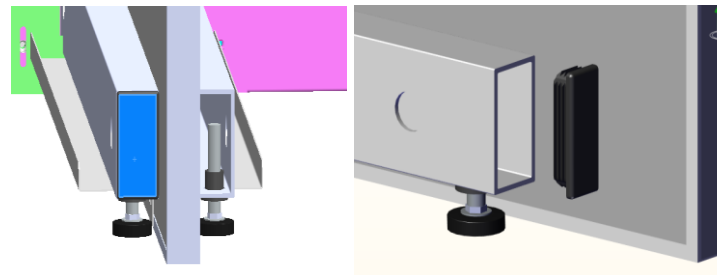
Fit top brackets and shelves. 5 key bar slots should be showing between the two brackets. See pic.1.

Fit blanking caps in the end of box section and Refer to pic .2.

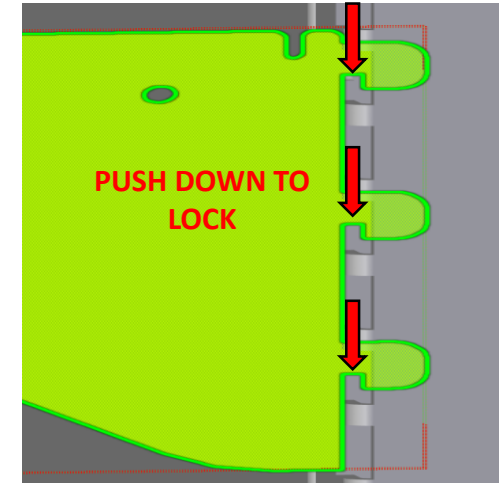
Ensure the shelves brackets are fitted in the correct Locked position Refer to pic. 4 and 5



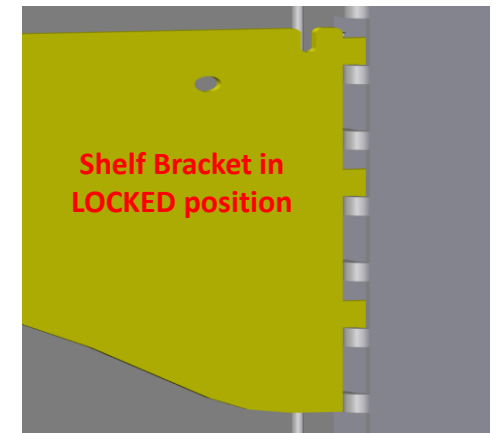
Pic 1



Pic 2



Pic 4



Pic 5

RF-DX Cabinet Range - Standard Operating Procedure

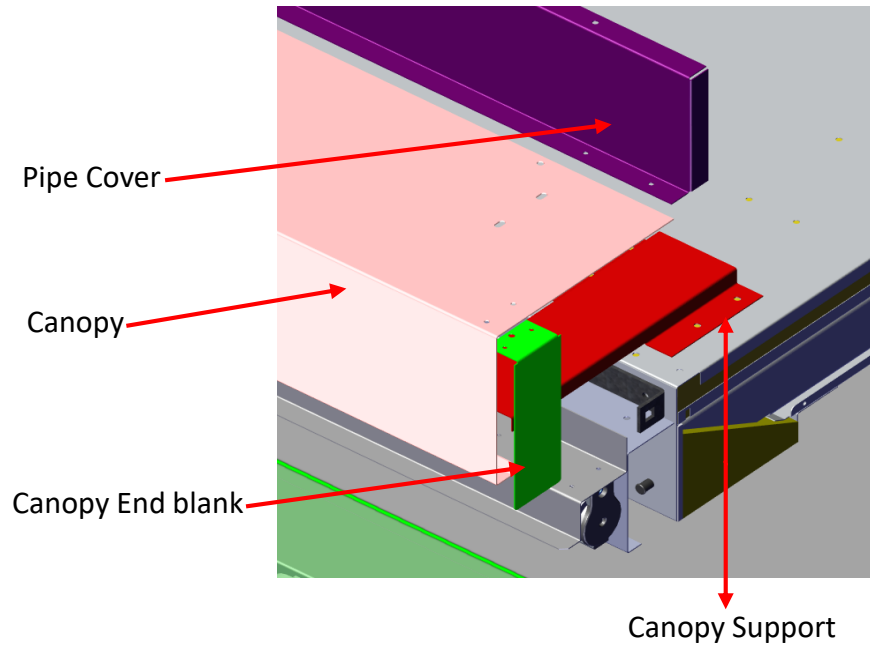
Cabinet Model Range:	Description:
RF	Canopy ,Pipe Cover and Canopy end blank

SOP Number:	Date:	Rev:
668	29/04/2021	1

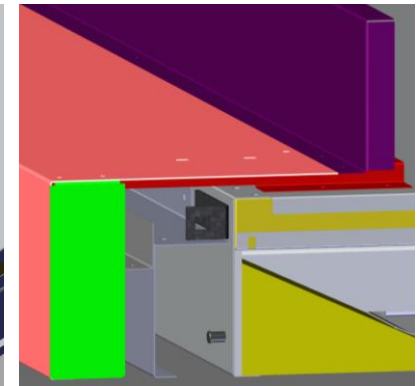
Installation Process

To fit the canopy: place canopy over the canopy supports and push it back until the canopy hits the light carrier. Fix canopy using the hex self tap drilling screws supplied in the fixing kit.

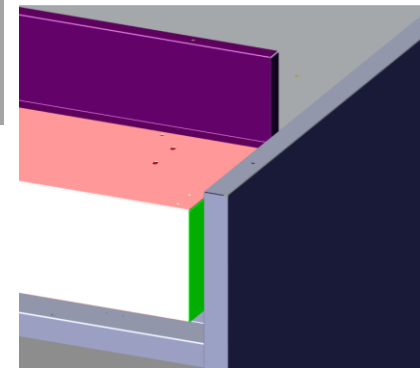
To fit the pipe cover on the canopy supports: Locate pipe cover to the rear of the canopy and drill 3.3mm hole and secure with 3/8 flange head screws supplied in the fixing kit. Fit canopy blanking caps to the R/H and L/H canopy of the run of the cases and secure from the top. Use no. 3/8 flange head screws to fix the blanking plate into pre drilled holes in the canopy and blanking plate.



Pic 1



Pic 2



Pic 3

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Example of finished case

SOP Number:	Date:	Rev:
668	29/04/2021	1

Example of finished case.

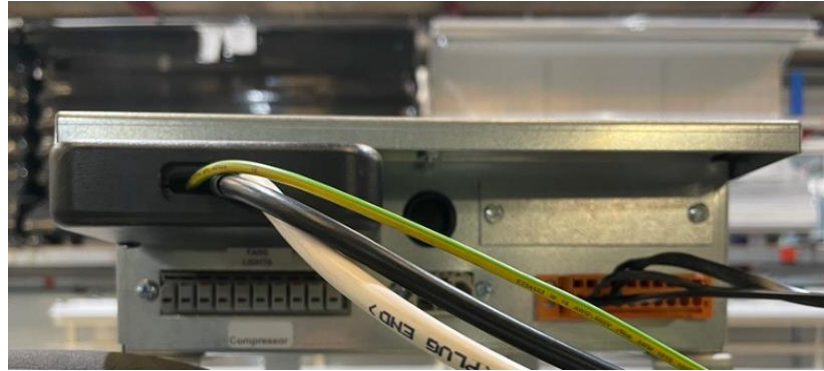


RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Case Installation Electrical

SOP Number:	Date:	Rev:
668	29/04/2021	1

Locate plugs in to the controller on the top of the case.

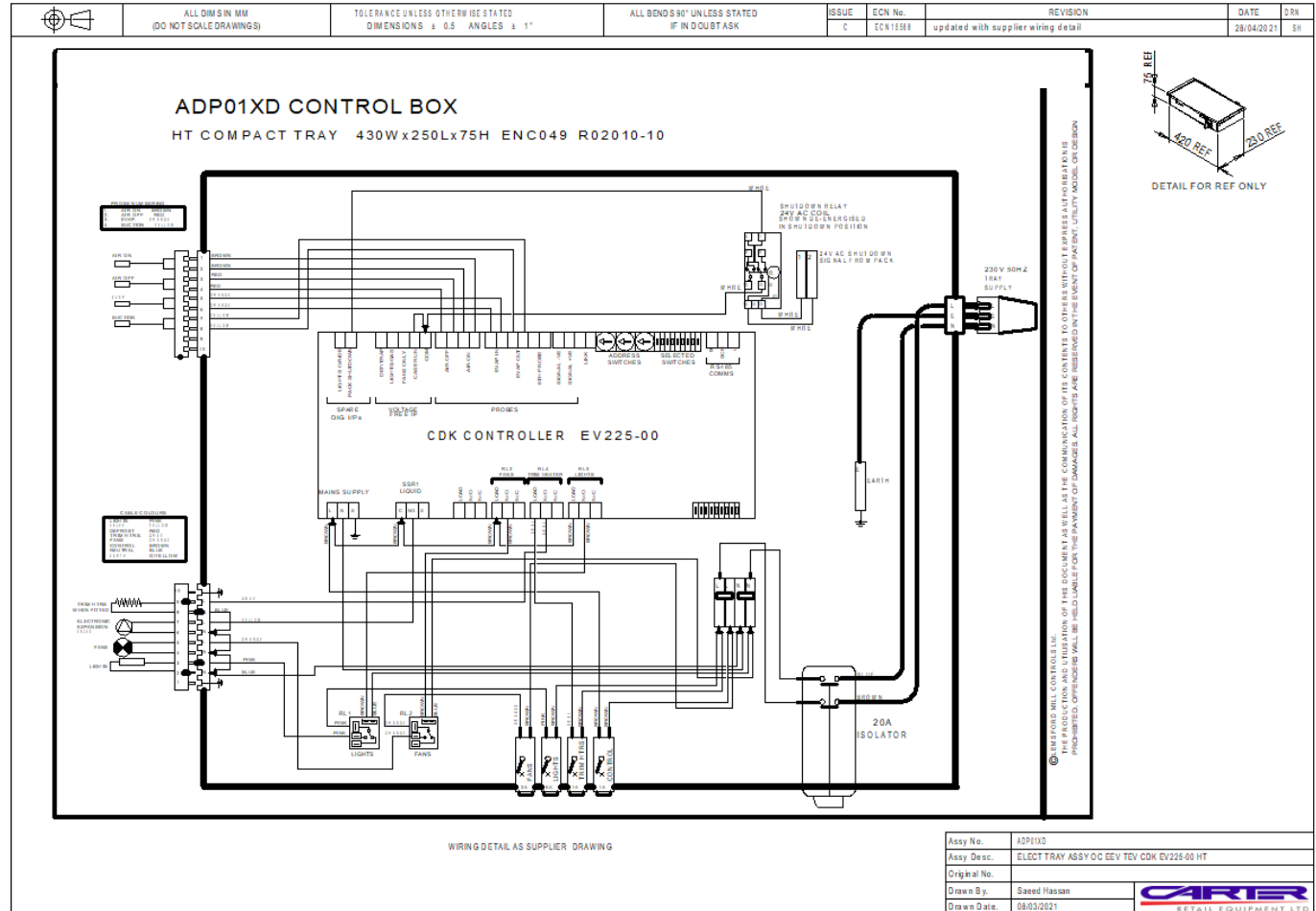


RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Control Tray Wiring Diagram

SOP Number:	Date:	Rev:
668	29/04/2021	1

CDK control tray
Part No: ADP01XD



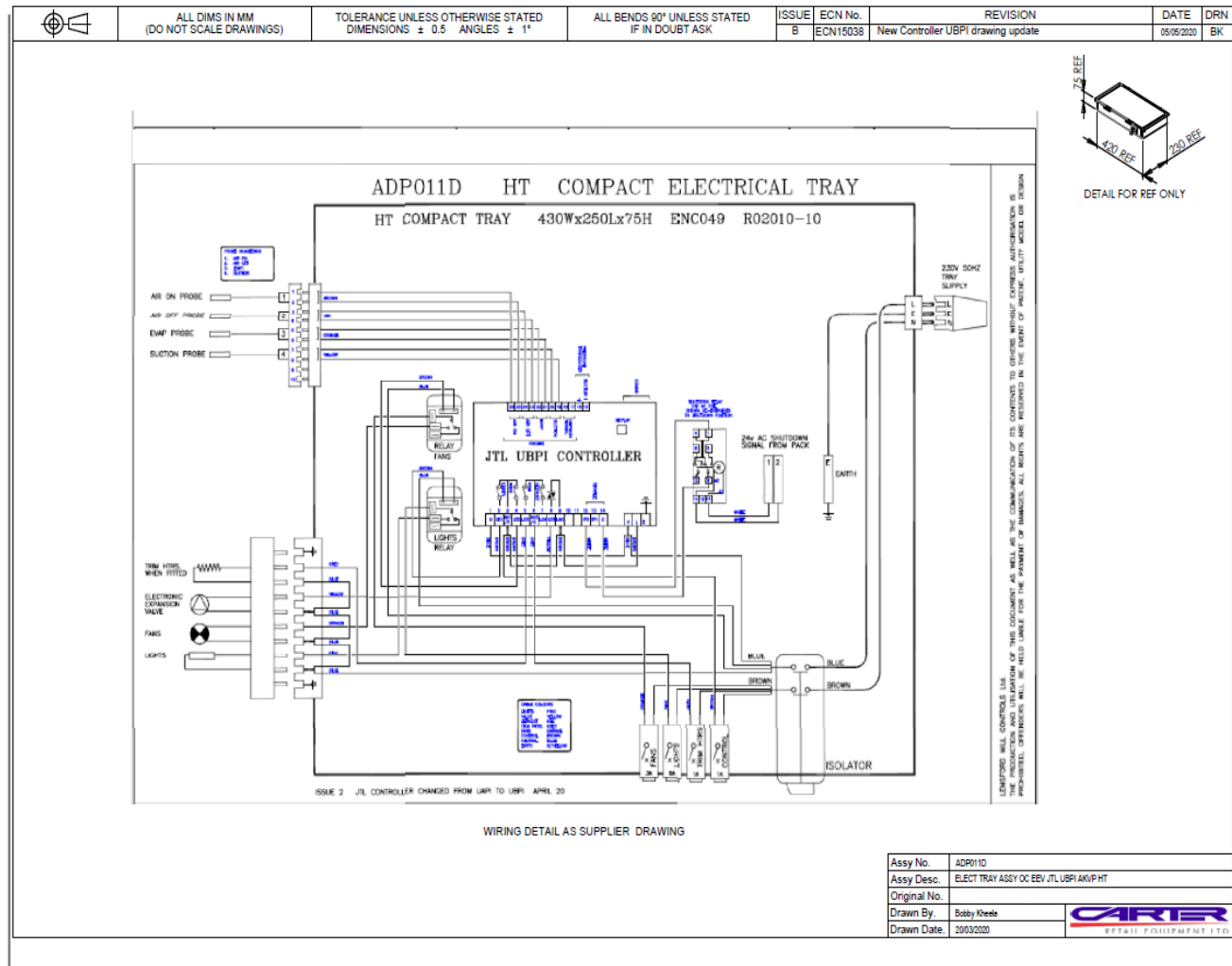
Assy No.	ADP01XD
Assy Desc.	ELECT TRAY ASSY OC EV225-00 HT
Original No.	
Drawn By.	Saeed Hassan
Drawn Date.	08/03/2021

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Control Tray Wiring Diagram

SOP Number:	Date:	Rev:
668	29/04/2021	1

JTL control tray
Part No: ADP011D



RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Controller set up

SOP Number:	Date:	Rev:
668	29/04/2021	1

Commissioning detail

Note:

Set-up data is for guidance only. Final setting to be determined by commissioning contractor.

Model Designation

RFA

File Reference

RFA-DX R744-2200

Set Up Data** Off Cycle Defrost		Dairy
Cut In Temperature °C		0.5°C
Cut Out Temperature °C		-1.5°C
Cabinet Temp ratio (100% = Air Off)		100%
No Defrost in 24hrs		8
Max Defrost Duration (Mins)		45
Defrost Termination Temp C (Case Air Off)		8
Drain Down Time (Mins)		01:30
Fans in Refrigeration (RPM)		1800
Fans in Defrost (RPM)		1800
Superheat K		5

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
Generic	User Guides (Installation & location)

SOP Number:	Date:	Rev:
668	29/04/2021	1

1.0 Installation & location

- All CRE display cabinets (unless otherwise stated) are suitable for operation in a maximum ambient climate of 25 °C / 60% relative humidity. Excessive humidity conditions may result in moisture on the external surfaces of the front glass screens
- Case should not be located in areas where they will be subjected to excessive air movement, e.g. adjacent to doors or ventilation inlets / outlets. Incorrect siting of counters will affect temperature performance & may lead to abnormally high service issues.
- Case should be located to allow adequate ventilation to the rear & underside. Attention must be given to provide adequate air supply to integral refrigeration units where fitted.
- Locations where the cabinet is likely to be damaged by pallet trucks, cleaning machines etc. should be avoided.

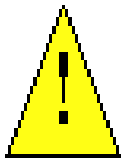
RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
Generic	User Guides (Product loading)

SOP Number:	Date:	Rev:
668	29/04/2021	1

2.0 Product loading

- In order to reduce the frequency of re-loading it is often a temptation to overload a cabinet. Cabinets are marked with a maximum load line, all products should be positioned within the prescribed area. Products stocked outside this area will not be adequately refrigerated & may also cause all product temperatures within the counter to be compromised due to disturbance of the airflow.
- **NOTE** - Special consideration must be given to the product loading within cabinets fitted with refrigerated shelves. Separate guidelines are issued to cover this topic.
- Products that are warmer than the cabinets operating temperature should not be placed within the display. Display cabinets are designed to maintain product temperatures, not cool products.
- Only use accessories supplied or approved by CRE. Incorrect display formats may have a detrimental effect on counter performance.
- Observe maximum load capacity of the shelving and deck plates to prevent failure of the support fixtures and potential injury to personnel; Max load per shelf 250kg/m².



RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
Generic	Case cleaning

SOP Number:	Date:	Rev:
668	29/04/2021	1

Task Description: Basic Cabinet Cleaning

Important Information before commencing the cleaning process

- Where applicable when using cleaning products wear appropriate personnel protective equipment / clothing in accordance with the products guidelines.
- Before isolating the electrical supply from the cabinet, notify the cabinet temperature control 'monitoring company'.
- On completion of the cabinet cleaning process notify the cabinet temperature control 'monitoring company'.
- Isolate the electrical supply to the cabinet via the control units. Switch the isolation switch to the 'OFF' position. Control units are allocated either on the top of the cabinet or bottom of the cabinet behind the plinth assembly.
- For low temperature cabinets allow a warm up period for the cabinet to defrost.

Do's & Don'ts:

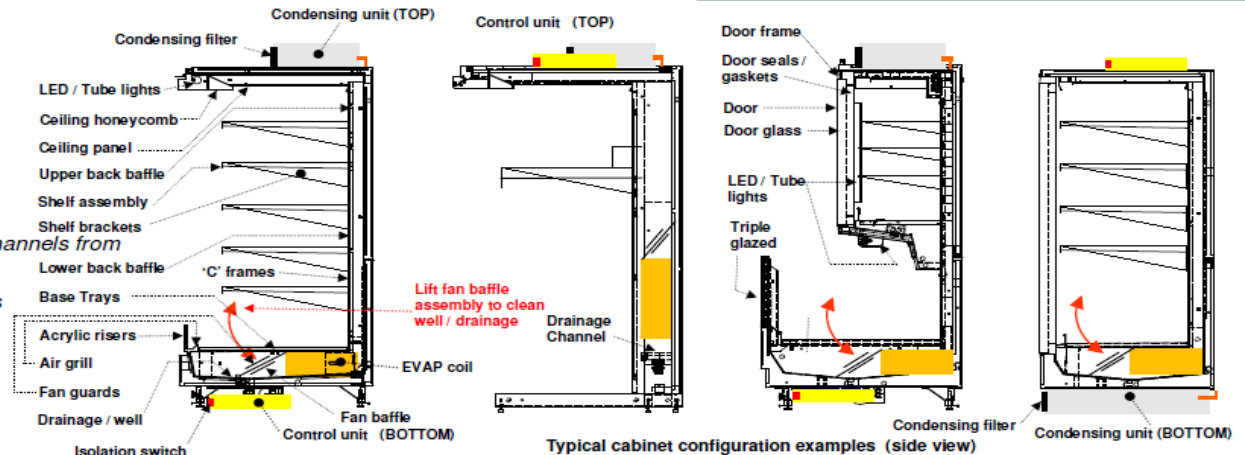
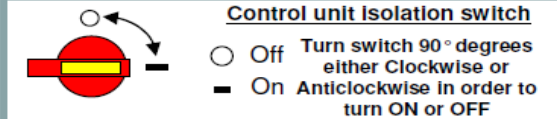
- Only use warm water & soft cloth to clean . To remove stains use mild detergents and warm water with non abrasive cloth / sponges. Simple process of 'spray and wipe'. Avoid over soaking the cloth / sponge. Use rubbing alcohol to remove adhesive residue from surfaces if mild detergents are not sufficient.
- Do not use scrapers or knives, as this will scratch surfaces.
- Do not clean any electrical components with detergents / water.
- Do not disconnect or reposition any electrical components or probes.
- Visually inspect all items for damage prior to cleaning them. Report damage items to supervision

Cleaning Process: - refit all removed items back to its original location once cleaned

- ✓ Open or slide doors where applicable into 'open position' and lock. Clean the door frame , door , door glass & door seals / gaskets.
- ✓ Clean the triple glazed glass.
- ✓ Remove shelf assemblies and clean.
- ✓ Remove shelf brackets and clean.
- ✓ Remove front acrylic risers and clean.
- ✓ Remove base trays and clean
- ✓ Clean front air grills
- ✓ Brush off and vacuum clean only debris from fan guards .
- ✓ Clean drainage wells (lift up the fan baffle assembly) / channels from debris.
- ✓ Clean exterior surfaces of lower and upper back baffles
- ✓ Clean exterior surfaces of 'C' frames.
- ✓ Clean exterior surfaces of ceiling panels.
- ✓ Vacuum clean only the ceiling honeycomb.
- ✓ Dry wipe electrical light LED / Tube lights.

✓ Vacuum clean only condensing filters .

Comply to 'Safe Working at Heights' regulations where applicable

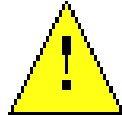


RF-DX Cabinet Range - Standard Operating Procedure

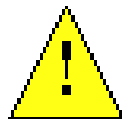
Cabinet Model Range:	Description:
Generic	Case maintenance

SOP Number:	Date:	Rev:
668	29/04/2021	1

4.0 Maintenance



- **There are no user serviceable parts within the equipment.** Regular maintenance by qualified personnel is essential for the continued optimum operation of the display counter.
- Refrigerant circuit within each case should be leak checked at regular intervals, especially after the circuit has been opened during service operations. Should any brazing be necessary the following points must be observed:-



- Ensure 'Hot Work Permit' has been authorized as necessary.
- Protect internal components of the cabinet with a heat resistant material.
- When brazing external to the case be aware of potential hazards such as electrical cables, plastic drain pipes etc.
- Electrical circuits should be inspected for damage & termination connections checked. **Prior to any service operation or removal of covers it is essential to isolate the all sources of electricity supply to the equipment.**

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
Generic	Warranty process

SOP Number:	Date:	Rev:
668	29/04/2021	1

1.0 Warranty period

All refrigerated equipment installed on site will be subject to 12months warranty covering all parts from agreed date of hand over.

2.0 Extent of Warranty

CRE warranty covers all parts for the period of 12 months, unless other arrangements have been agreed. Labour & any associated cost for the fitting of replacement components is not covered. CRE Ltd. accepts no claim for stock loss due to component failure.

3.0 Component failure during installation / commissioning

Failure of components prior to the agreed Handover date should be reported to CRE contracts dept. Replacement component shall be supplied & fitted by CRE Ltd.

4.0 Component failure post Handover

Replacement components for items failing post Handover should be ordered from CRE Sales Dept.
 At time of order placement it must be highlighted that component is a 'Warranty issue'.
 Failed component should be returned to CRE Quality Dept. for assessment & / or return to the manufacturer.
 Upon result of assessment the warranty claim shall be accepted or rejected & the claimant informed.
 Credit against the purchased replacement component shall be issued where the claim is accepted.

RF-DX Cabinet Range - Standard Operating Procedure

Cabinet Model Range:	Description:
RF	Contact details & tech support

SOP Number:	Date:	Rev:
668	29/04/2021	1

OEM Manual
RF Cabinet Range

CASE CODE TYPE:RF
Roll-in Open Multideck

Reference Number: RF-DX-2200
Remote DX
Revision: 01
Issue Date: 29/04/2021



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