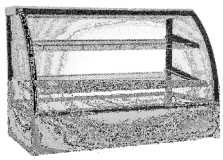
Festivé

Refrigerated Display Cabinet

Installation and Operating Manual





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INTRODUCTION

Congratulations on purchase of a Festivé food display cabinet. Festivé designs and manufactures quality cabinets designed to meet the exacting needs of its customers. Please take the time to carefully read and understand this manual. This will help ensure that maximum benefit from the cabinet can be gained. If you have any queries contact your dealer or Festivé.

SAFETY

Please carefully read the important safety information provided below:

- **Do not overload your power supply. See the Cabinet Specifications on pages 8-10 for power draw information.**
- **The cabinet must be supplied with the voltage specified.**
- **Always ensure that the power to the cabinet is earthed.**
- **Always disconnect the cabinet from the mains power supply before cleaning, undertaking maintenance or allowing the cabinet to be serviced by a properly qualified tradesman.**
- **Keep clear of, and never touch, moving parts.**
- **Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.**
- **Ensure that staff are familiar with the above safety information, as well as all other information in this manual.**

INSTALLATION INSTRUCTIONS

In order to ensure that the cabinet operates efficiently it is important to spend time preparing the area and the cabinet for installation. Some key points and useful advice are provided below:

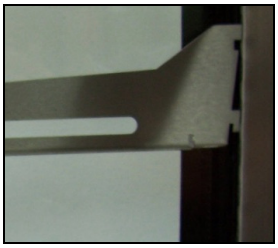
A. Location
Cabinets should always be located away from direct sunlight, draughts, and equipment that generate heat and water vapour.

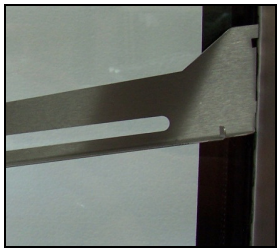
B. Power Supply
Ensure a suitable power supply exists. Plug the cabinet into its own power point at the wall (multi boxes are not recommended). Always turn the cabinet on and off at the wall.

C. Site Preparation
The cabinet should be installed on a level floor, plinth or bench. This ensures proper functioning of doors and condensate management. Any necessary bench cut-outs should have been made prior to installation, and a suitable power point located appropriately. Carefully position the cabinet in its correct position and ensure it is level. Adequate access to the cabinet for loading and cleaning is required.

D. Cabinet Preparation.
Carefully un-wrap the cabinet and any other parts supplied. Remove all tape and ties etc.

E. Shelf Brackets and Shelves
The shelf brackets are removable and height adjustable. Notches in the brackets allow each one to be positioned in either a level or tilt position. Ensure that the brackets are firmly pushed down. Fit the shelves provided on the shelf brackets.


Shelf Bracket in level position


Shelf Bracket in tilt position

F. Condenser Assembly Unit

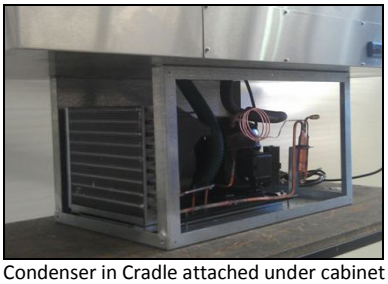
Ensure the condenser assembly (refrigeration) unit has adequate ventilation. It is critical for the effective operation of the cabinet that the condenser fan is able to draw in cool air from the room and disperse hot air into the room. The refrigeration of the cabinet will be one of three options: Condenser Built In (CBI), Condenser in Cradle (CIC), or Remote condenser unit.

1. Condenser Built In (CBI)

This applies to all Tower, York, Regent, and Lincoln Chilled models and the Devon and Norfolk Compact Chilled models. With a CBI the refrigeration unit is built into the base of the cabinet and all that needs to be done is fit the cabinet into place and follow the Operating Instructions on page 5.

2. Condenser in Cradle (CIC)

This applies to the Devon and Norfolk Chilled units with the CIC option. With CIC the condenser assembly unit is already attached to the underneath of the cabinet by a built in cradle.



Condenser in Cradle attached under cabinet

The cabinet and cradle need to be fitted into the counter-top and adequate ventilation provided for the refrigeration unit as shown on **page 12.**

3 Remote Condenser Assembly

This applies to the Devon and Norfolk Chilled units with the Remote Condenser option, and occasionally Tower, some York, Regent, and Lincoln Chilled models where the refrigeration is remoted. The cabinet comes with a remote condenser unit (supplied separately in a box) that will need a qualified refrigeration engineer to install and connect. **Note: the pipe distance between the condenser unit and the cabinet should not exceed 2 meters for a capillary based system.**

Remote condenser unit

The following instructions should be followed by the refrigeration engineer:

- Check that the pipe work has not been damaged or kinked.
- Locate the condensing unit in an area where it will get maximum airflow through the condenser.
- The power supply to the cabinet and condenser unit is by way of a standard 3-pin plug with lead fitted into the cabinet.
- The 3-core flex (without plug) coming out of the cabinet is to supply power to the remote condenser unit.
- Connect the liquid and suction lines. The suction line will require insulation to avoid condensation dripping.
- Fit a drier in the liquid line and secure the pipe work to avoid damage to flare connections etc. The capillary tube length is factory cut to the required length.
- Fit service gauges and vacuum pump to the completed system and evacuate the complete system.

- Charge with refrigerant 134A and check to see if the suction line is frosting back to the compressor. If this is the case, release some refrigerant, as overcharge may have occurred.
- As a guideline only, when the ambient temperature is +25°C and the cabinet temperature is 3 – 4°C the system pressures should be approximately 18 PSIG (suction) and 90 PSIG (head).
- The drain hose, if required, will need to be fed into a suitable container.
- The cabinet is not set up to operate in conditions above 32°C and 60% relative humidity.

OPERATING INSTRUCTIONS

- Switch the cabinet on at the wall.
- Ensure that the doors are closed. The cabinet cannot operate effectively with the doors left open.
- Flick down the two red toggle switches (one for the refrigeration unit and one for the lights).

electronic controller red toggle switches

- The refrigeration unit will begin running and will progressively bring the temperature down to the factory set point temperature of 3°C.
- The electronic controller displays the operating temperature that the cabinet is running at.
- The cabinet operates at a temperature differential of 2°C from the set point, i.e. the refrigeration unit will stop when the cabinet temperature drops to 3°C and restart when it rises to 5°C.
- To change the set point temperature:
  - push the green 'SET' button on the controller. The 'set point' temperature will start flicking on the display
  - push the green 'UP ARROW' on the controller to raise the 'set point' temperature setting
  - push the green 'DOWN ARROW' on the controller to lower the 'set point' temperature setting
  - push the green 'SET' button to return the display to the operating temperature
- Load the cabinet with pre-chilled products (food display cabinets are not refrigerators and should preferably be loaded with pre-chilled products). Be careful not to overload the shelves. To enable adequate cold airflow within the cabinet do not load above the load limit indicator.

load limit indicator

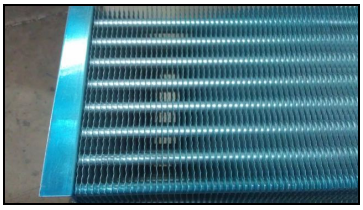
- The cabinet is set to defrost at 3 hour intervals. A defrost button on the bottom left of the controller panel will light up when the cabinet is in defrost mode. The cabinet is fitted with an intelligent defrost system that will automatically shorten or extend the defrost time dependent on requirements.
- Always switch the cabinet off at the wall.

CLEANING

It is important that the cabinet is regularly cleaned and serviced in order to achieve hygienic and efficient operation. Some advice on this is provided below:

- Always turn the cabinet off at the wall before cleaning.
- Do not use bleaches and other aggressive cleaning products (chemicals and scourers) that could damage the cabinet surfaces.
- Never use hot water on glass as this may 'shock' the glass and cause 'thermal breakage', i.e. shattering of glass due to sudden temperature change.
- Clean the exterior with soapy water using a soft damp cloth. Never apply too much water and always be careful to minimize moisture on and near the electronic controller and power lead. Dry the exterior immediately afterwards.
- Gently lift up and remove the sliding doors. These should be placed on a cloth on a level surface to be cleaned.

- Clear the door track of any debris.
- Remove and clean the shelves and shelf brackets.
- With a damp cloth clean the interior ceiling and walls.
- Remove and clean the bottom trays.
- With a damp cloth clean the refrigeration well.
- Do not pour water into the refrigeration well as this may cause the condensate tray to over fill.
- A vacuum cleaner and/or soft brush may be used to collect debris from the blue evaporator coil.


evaporator coil

- Be careful not to bend the fins on the coil. The fins are sharp and can cause cuts if caution is not exercised.
- To reassemble, simply follow the above instructions in reverse.

SERVICING

Regular servicing of the cabinet is important to its ongoing efficient operation:

- **Condenser Unit**. Regularly check that the condenser fins at the rear of the cabinet are free from dust, as any build-up will reduce the efficiency of the cabinet and can cause excess power consumption or even compressor failure. The back panel at the rear of the cabinet should be removed and the dust removed by brushing and vacuuming the fins. On occasions dust build-up in the condenser fins can be extensive and pressurised gas (air or nitrogen) may need to be blown through the fins to clear them. It is recommended that the condenser coil is cleaned four monthly, and in cases of high dust exposure that six monthly the fins are blown with high pressure gas.


condenser unit

- **Lights.** If a fluorescent or LED light requires replacement: (1) remove the plug from the wall, (2) if one is present remove the light cover, (3) depending on the light either pull the end caps off or gently twist and remove the tube, (4) insert new tube, (5) check that tube is sitting properly and replace any light cover and (6) turn the power on. If the tube does not work, the starter may need replacing or there may be an electrical problem and an electrician will need to be called. **NOTE: ensure that lights are replaced with products of the same size and wattage.**

SPARE PARTS

Festivé endeavours to maintain stocks of spare parts for its customers. If spare parts are required, please quote both the serial number of the cabinet and the item number(s) from the list below. It is important to use only Festivé spare parts to ensure compatibility, performance, and meet warranty conditions.

	Description		**Description**
1	Starter	13	Top Door Track
2	Starter Holder	14	Bottom Door Track
3	Ballast	15	Door Brush Strip
4	Light Diffuser	16	Air Grill
5	Light Tube End Fitting (Pair)	17	Compressor Assembly

6	Electronic Controller	18	Evaporator Fan
7	Temperature Probe	19	End Glass
8	Rubber Door Seal	20	Top Glass
9	Rear Outer Sliding Door	21	Front Glass
10	Rear Inner Sliding Door	22	Shelf Bracket Pair (specify size)
11	Front Outer Sliding Door	23	Extra Shelf (specify size)
12	Front Inner Sliding Door		

TROUBLE SHOOTING

Problem	Possible Cause	Solution
Cabinet won't start	Circuit broken at the main power board	Replace fuse/turn circuit breaker on
	The cabinet switch is off	Turn the cabinet switch on
	Electronic controller is faulty	Replace the electronic controller
Unsatisfactory cabinet temperature	Air circulation is blocked/impeded	Remove food/trays away from vents and airflows. Clean/vacuum air vents
	Evaporator coil fins blocked	Remove and clean crumb catcher. Clean coil fins
	Evaporator coil iced up	De – ice coil. Adjust defrost cycle if reoccurs
	Condenser fan grill dirty	Vacuum to remove dirt
	Door has been left open	Close door(s)
	Electronic controller is faulty	Replace the electronic controller
	Temperature probe dislodged or damaged	Check probe is held on clip and not damaged
	Base trays back to front	Ensure slot is at the front of the cabinet
	Ambient temperature is greater than 32 degrees	Reduce ambient temperature and/or move cabinet
	Door not sealing properly	Ensure cabinet is level and replace door seals if damaged/missing
	Electronic controller needs adjustment	Adjust electronic controller
Cabinet lights not working	Light switch is off	Turn light switch on
	Fluorescent or LED tube not working	Replace fluorescent or LED tube
	New fluorescent tube not working	Check seating of tube and replace starter for fluorescent tube if required

CABINET SPECIFICATIONS

Tower Cabinets

Model	TC6	TC9	TC12
Dimensions			
Length	600mm	900mm	1200mm
Depth*	640mm	640mm	640mm
Height	1735mm	1735mm	1735mm
Weight	135kg	185kg	235kg
Display Area (m²)	1.3	2.1	2.8
Construction			
Exterior	Stainless steel or powder coated zinc steel		
Interior	Stainless Steel		
Lighting	Top & Side lights		
Glass	Toughened double glazed		
Insulation	S-grade Polyfoam		
Doors	Sliding, toughened double glazed, Low E		
Shelves	Adjustable height & angle, 5 shelves & base		
Refrigeration			
Refrigerant	R134a		
Compressor	SC15GXNO	SC18GXNO	SC21GXNO
Climate Class	3M (tested to operate at ambient temperature 25°C and 60% RH)		
Electrical			
Volts	230 – 240 Volts a.c. 50 Hz, single phase		
Max Current (Amps)	5A	5.8A	5.5A
Connection	10A plug		

* Add extra 15mm for protruding control panel and switches

York Cabinets

Model	YC6	YC9	YC12	YC15	YC18	YC24
Dimensions						
Length	600mm	900mm	1200mm	1530mm	1770mm	2370mm
Depth*	640mm	640mm	640mm	640mm	640mm	640mm
Height	1400mm	1400mm	1400mm	1400mm	1400mm	1400mm
Weight	124kg	134kg	180kg	225kg	270kg	360kg
Display Area (m²)	1.1	1.8	2.5	3.2	3.62	5
Construction						
Exterior	Stainless steel or powder coated zinc steel					
Interior	Stainless Steel					
Lighting	Top and side lights					
Glass	Toughened double glazed					
Insulation	S-grade Polyfoam					
Doors	Sliding, toughened double glazed, Low E					
Shelves	Adjustable height & angle, 4 shelves & base					
Refrigeration						
Refrigerant	R134a			R404a		
Compressor	SC15GXNO	SC18GXNO	SC21GXNO	Embraco	Embraco	Hitachi
Climate Class	3M (tested to operate at ambient temperature 25°C and 60% RH)					
Electrical						
Volts	230 – 240 Volts a.c. 50 Hz, single phase					
Max Current (Amps)	4.5A	5.3A	5.1A	4.6A	5.7A	7.1A
Connection	10A plug					

*Add extra 15mm for protruding control panel and switches

Regent Cabinets

Model	RC6	RC9	RC12	RC15	RC18	RC24
Dimensions						
Length	600mm	900mm	1200mm	1530mm	1770mm	2370mm
Depth*	640mm	640mm	640mm	640mm	640mm	640mm
Height	1090mm	1090mm	1090mm	1090mm	1090mm	1090mm
Weight	108kg	117kg	157kg	196kg	234kg	314kg
Display Area (m^2)	0.82	1.33	1.85	2.4	2.65	3.7
Construction						
Exterior	Stainless steel or powder coated zinc steel					
Interior	Stainless Steel					
Lighting	Top and side lights					
Glass	Toughened double glazed					
Insulation	S-grade Polyfoam					
Doors	Sliding, toughened double glazed, Low E					
Shelves	Adjustable height & angle, 3 shelves & base					
Refrigeration						
Refrigerant	R134a					
Compressor	SC12GXNO	SC12GXNO	SC15GXNO	SC18GXNO	SC18GXNO	SC21GXNO
Climate Class	3M (tested to operate at ambient temperature 25°C and 60% RH)					
Electrical						
Volts	230 – 240 Volts a.c. 50 Hz, single phase					
Max Current (Amps)	3.9A	4A	4.7A	5.5A	5.7A	5.5A
Connection	10A plug					

*Add extra 15mm for protruding control panel and switches

Lincoln Cabinets

Model	LC6	LC9	LC12	LC15	LC18	LC24
Dimensions						
Length	600mm	900mm	1200mm	1530mm	1770mm	2370mm
Depth	640mm	640mm	640mm	640mm	640mm	640mm
Height	1240mm	1240mm	1240mm	1240mm	1240mm	1240mm
Weight	111kg	120kg	160kg	200kg	235kg	320kg
Shelf Area (m^2)	0.9	1.4	1.9	2.5	2.8	3.8
Construction						
Exterior	Stainless steel or powder coated zinc steel					
Interior	Stainless Steel					
Lighting	Top light					
Glass	Curved double glazed front					
Insulation	S-grade Polyfoam					
Doors	Sliding, toughened double glazed, Low E					
Shelves	Adjustable height & angle, 3 shelves & base					
Refrigeration						
Refrigerant	R134a					
Compressor	SC12GXNO	SC12GXNO	SC15GXNO	SC18GXNO	SC18GXNO	SC21GXNO
Climate Class	3M (tested to operate at ambient temperature 25°C and 60% RH)					
Electrical						
Volts	230 – 240 Volts a.c. 50 Hz, single phase					
Max Current (Amps)	3.7A	3.7A	4.4A	5.2A	5.4A	5.1A
Connection	10A plug					

*Add extra 15mm for protruding control panel and switches

Devon & Norfolk Cabinets

Model	DCI6 & DCR6 / NCI6 & NCR6	DCI9 & DCR9 / NCI9 & NCR9	DCI12& DCR12 / NCI12 & NCR12	DCI15 & DCR15 / NCI15 & NCR15	DCI18 & DCR18 / NCI18 & NCR18	DCI24 & DCR24 / NCI24 & NCR24
Dimensions						
Length	600 mm	900mm	1200mm	1530mm	1770mm	2370mm
Depth*	640mm	640mm	640mm	640mm	640mm	640mm
Height	830mm	830mm	830mm	830mm	830mm	830mm
Weight	70kg	104kg	140kg	174kg	208kg	276kg
Display Area (m²)	0.9/0.7	1.4/1.1	1.9/1.5	2.5/1.9	2.8/2.2	3.8/3
Construction						
Exterior	Stainless steel or powder coated zinc steel					
Interior	Stainless Steel					
Lighting	Top light					
Glass	Toughened double glazed					
Insulation	S-grade Polyfoam					
Doors	Sliding, toughened double glazed, Low E					
Shelves	Adjustable height & angle, 3 shelves & base					
Refrigeration						
Refrigerant	R134a					
Compressor	SC12GXNO	SC12GXNO	SC15GXNO	SC18GXNO	SC18GXNO	SC21GXNO
Climate Class	3M (tested to operate at ambient temperature 25°C and 60% RH)					
Electrical						
Volts	230 – 240 Volts a.c. 50 Hz, single phase					
Max Current (Amps)	3.6A	3.7A	4.4A	5.2A	5.5A	5.2A
Connection	10A plug					

*Add extra 15mm for protruding control panel, switches and cable exit

Model	DCC9 / NCC9	DCC12/ NCC12	DCC15 / NCC15	DCC18 / NCC18	DCC24 / NCC24
Length	900mm	1200mm	1530mm	1770mm	2370mm
Depth*	640mm	640mm	640mm	640mm	640mm
Height	830mm	830mm	830mm	830mm	830mm
Weight	104kg	140kg	174kg	208kg	276kg
Display Area (m²)	1.4/1.1	1.9/1.5	2.5/1.9	2.8/2.2	3.8/3
Construction					
Exterior	Stainless steel or powder coated zinc steel				
Interior	Stainless Steel				
Lighting	Top light				
Glass	Toughened double glazed				
Insulation	S-grade Polyfoam				
Doors	Sliding, toughened double glazed, Low E				
Shelves	Adjustable height & angle, 3 shelves & base				
Refrigeration					
Refrigerant	R134a				
Compressor	Hitachi	Hitachi	Hitachi	Hitachi	Hitachi
Climate Class	3M (tested to operate at ambient temperature 25°C and 60% RH)				
Electrical					
Volts	230 – 240 Volts a.c. 50 Hz, single phase				
Max Current (Amps)	3.7A	4.4A	5.2A	5.5A	5.2A
Connection	10A plug				

*Add extra 15mm for protruding control panel, switches and cable exit

WARRANTY

Warranty Cover

Festivé warrants to the original purchaser of a Festivé manufactured food display cabinet any defect in workmanship or material resulting in the malfunctioning of the cabinet while under correct use. Liability under this warranty is limited to replacing or repairing (at the Company's discretion) a part without charge. The warranty support for any refrigeration unit requires evidence of four (4) monthly servicing of chilled cabinets by a qualified refrigeration technician. The warranty period extends for:

Refrigerated & Ambient Cabinets:

- Parts and Labour for first year: up to twelve (12) months from sale
- Parts Only for second year: twelve (12) to twenty-four (24) months from sale
- Parts and Labour for Refrigeration Unit for two years: up to twenty-four (24) months from sale. Subject to four (4) monthly servicing by a qualified refrigeration technician

Heated & Bain Marie Cabinets:

- Parts and Labour for first year: up to twelve (12) months from sale

Warranty Conditions

Liability under this warranty does not cover:

- Loss, damage or expense directly or indirectly arising from use or inability to use the product or from any other cause.
- Any part of the cabinet which has been subject to misuse, neglect, incorrect installation, alteration, accident or damage caused during transportation, use of abrasive chemicals, flooding, fire or acts of God.
- Damage resulting from failure to have four (4) monthly servicing of refrigerated cabinets carried out by a qualified refrigeration technician, supported by service records.
- Refrigeration failure as a result of inadequate ventilation to the refrigeration unit.
- Installation of remote condenser units.
- Breakage of glass or plastic components or the replacement of light tubes or door seals.
- Improper electrical connections
- Improper adjustment of controlling equipment.
- Fair wear and tear.
- Any damage directly or indirectly arising from the non-use of Festivé supplied parts.
- Any loss, damage or expense directly or indirectly arising from failure to follow product operating and maintenance instructions.
- Repairs or maintenance carried out by a service agent un-authorised by Festive
- Travelling distance in excess of 160kms return trip from an authorised service agent
- Service outside of normal business hours. If this is required an "out of hours" surcharge will apply.

Warranty Procedure

All warranty repairs must be pre-authorised by a Festive representative. Direct authorisation to effect a warranty repair can be made through contact with:

In New Zealand:
Ph: +64 3 349 8380 - Festive NZ Limited
E: warranty@festive.co.nz

In Australia:
Ph: +64 3 349 3380 - Festive NZ Limited
E: warranty@festiveaustralia.com

Cabinet serial number, model, site address, contact details and fault description will need to be provided.

CONTACT DETAILS

For further information or help, contact your supplier or:

Email: sales@festive.co.nz

Internet: www.festive.co.nz

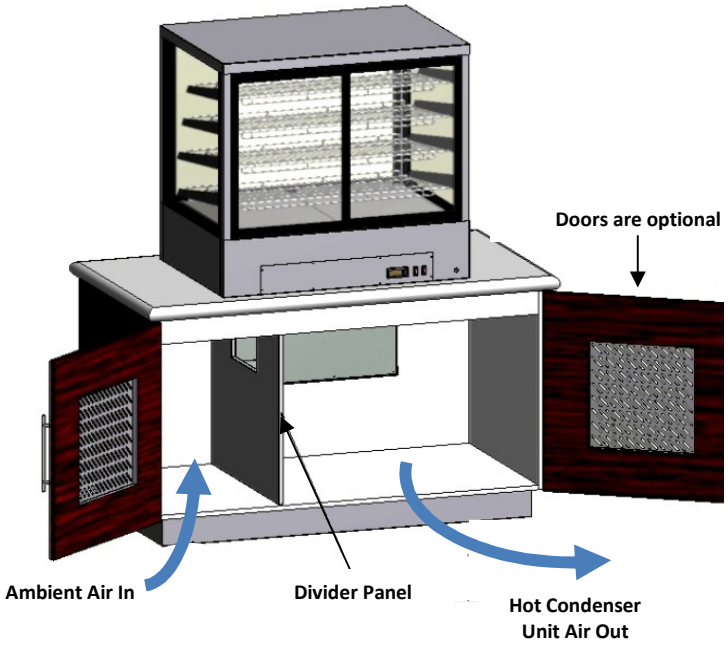
Telephone: +64 3 349 3380

Fax: +64 3 349 3381

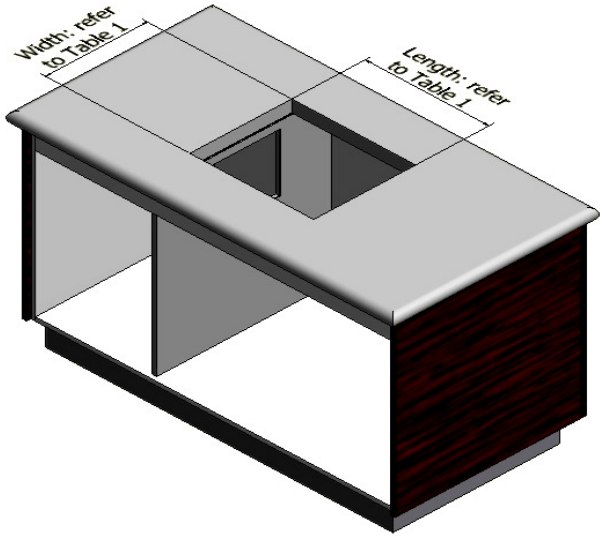
Mail: Festivé NZ Limited
P O Box 16534
Hornby
Christchurch 8441
New Zealand

Festivé Devon/Norfolk Condenser in Cradle (CIC)
Recommended Joinery Assembly

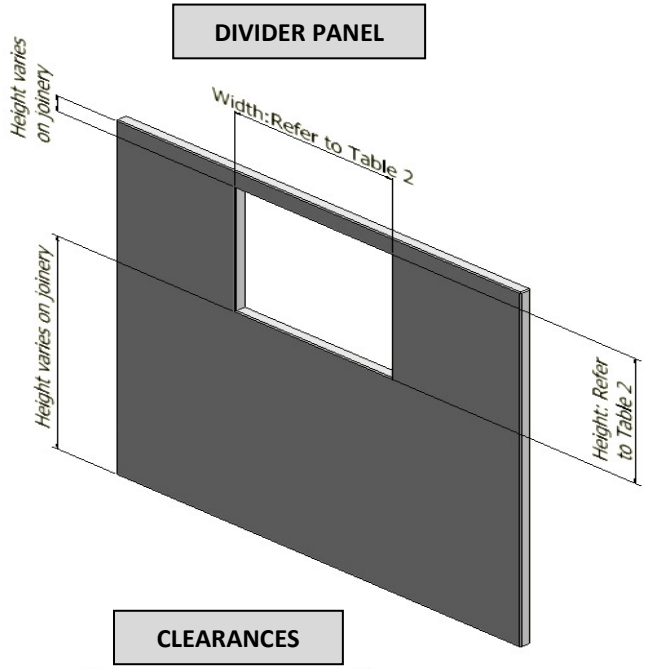
JOINERY ASSEMBLY



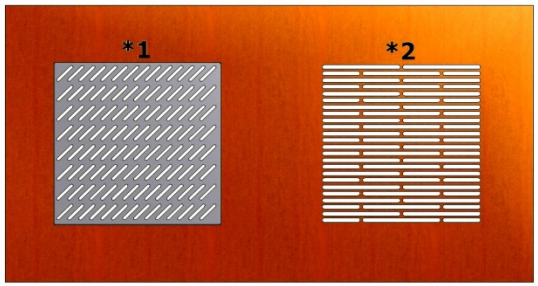
COUNTERTOP CUT-OUT



DIVIDER PANEL



VENTING



Two options for vents on doors.
Minimum dimensions: 400 x 400mm
*1 - metal grill slotted
*2 - routed slots in joinery

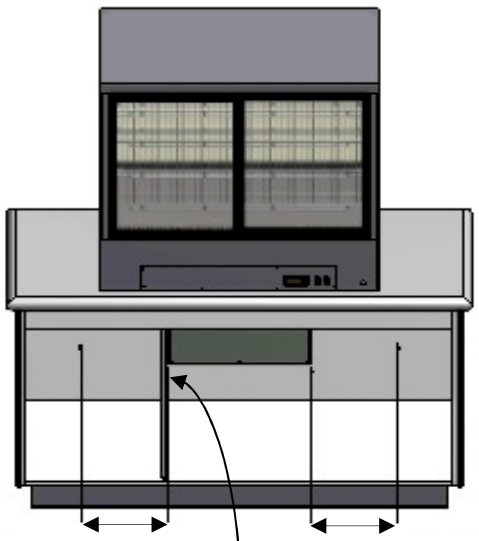
Table 1

COUNTERTOP CUT-OUT		
Cabinet Size	Length (mm)	Width (mm)
DC/NC 6, 9 & 12	480	395
DC/NC 15, 18 & 24	585	395

Table 2

DIVIDER PANEL CUT-OUT		
Cabinet Size	Height (mm)	Width (mm)
DC/NC 6	210	230
DC/NC 9 & 12	240	260
DC/NC 15, 18 & 24	280	280

CLEARANCES



200mm minimum clear space from Divider Panel

200mm minimum clear space from end of Condenser Unit

Ensure Divider Panel is flush against Condenser housing