

FPG PRODUCT MANUAL



Ambient Cabinets



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Table of Contents

INTRODUCTION	6
Welcome	6
Future Products Group (FPG)	6
Guidance and Help	
Warranty	6
Warranty Period	6
Liability Exceptions	
Specific Exclusions	
Assessment	
Time Limit	
Caution	7
OPERATION	8
Cabinet Layout	8
Tilt or Sliding Front Doors	
Lighting	
Square Glass Cabinets	
Controls	o
Control PanelLights	
<u> </u>	
Preparation	
Shelf Location and Ticketing	
Shelf Adjustment	
Caution	
Power Supply	
Load Cabinet Close all Doors	
Turn on Lights	
Caution	
Gadion	
TROUBLE SHOOTING	11
CLEANING	12
Cautions	12
Power	
Water	
Exterior	
Painted and Metal Surfaces	
Sliding Doors	
C	
Interior	
Trays and Shelves	
Tilt Door Glass	
End Glass	



Routine	
Schedules	
Inspection	
Correction	
INSTALLATION	
Regulations	14
Compliance with Local Requirements	14
Setting Up	14
Unpacking	14
Site Preparation	
Cabinet Preparation	
Tilt Door Adjustment	
Location	
Ventilation	
Access	
Power Supply	
Voltage Rating	
IsolationEarthing	
Earthing	18
CEDVICING	40
SERVICING	
Lighting	
Caution	
Control Gear Chassis	
Test Lighting Components	
LED Strip Replacement	
Mains Lead	
Lead Replacement	
Gaskets	
Qlon GasketsGasket Replacement	
Rubber Gaskets	
SPECIFICATIONS	18
Mechanical	
Electrical	18
Compliance	19
Safety Aspects	
Operational Safety	19
Improvements	
Ongoing Development	1º



ELECTRICAL CIRCUIT DIAGRAMS	20
Model: IN 5A08	20
Model: IN 5A12	
Model: IN 5A15	
Model: IN 5A18	21
SPARE PARTS	22
Cabinet Serial Number	22
Location of Glass Parts	
MECHANICAL DRAWINGS	24
Tilt Door Cabinets Types IN 5A08/12/15	24
Sliding Door Cabinets, Types IN 5A08/12/15	25
Tilt Door Cabinet Type IN 5A18	
Sliding Door Cabinet, Type IN 5A18	27
Square Glass Cabinets Types IN 5A08/12/15/18	28



INTRODUCTION

Welcome

AMBIENT CABINETS - INTRODUCTION

Future Products Group (FPG)

Welcome to the world of FPG! Our products are designed and engineered to give you the optimal performance that you deserve with innovative visual merchandising appeal.

We are confident that you will be delighted with your state of the art inline food service cabinet, and that it will become a valued appliance in your store.

Guidance and Help

Any new appliance can seem very complex and confusing at first glance. To ensure you receive the utmost benefit from your new inline cabinet, there are two things you can do.

- Before operating the cabinet, please read the instruction book carefully and follow its recommendations. The time taken will be well spent. These instructions both general and technical tell you how to operate and look after your inline food service cabinet so that you can receive the full benefits that this cabinet has to offer.
- These instructions cannot, however, cover all eventualities. If you are
 unsure of any aspect of the installation, instructions or performance of your
 cabinet, contact your dealer promptly or contact us via email to
 support@fpgworld.com.

Warranty

AMBIENT CABINETS - INTRODUCTION

Warranty Period

Future Products Group Limited warrants, to the original purchaser of an FPG manufactured food service cabinet, that for ONE YEAR (12 months) from the date of purchase, any defect in workmanship or material resulting in the product malfunctioning, while under correct use, will be rectified.

Liability under this warranty is limited to replacing or repairing a part, without charge.

Continued on next page



Warranty cont.

AMBIENT CABINETS - INTRODUCTION

Liability Exceptions

Liability under this warranty does not include:

- Any loss, or damage or expenses 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, alteration, incorrect installation, accident, or damage caused by transportation, use of abrasive or caustic chemicals, flooding, fire or acts of God.
- Any damage or malfunction resulting from the use of non-FPG supplied spare parts.

Specific Exclusions

The following are specifically excluded from warranty:

- Breakage of glass or plastic components or the replacement of LED lighting assemblies or gaskets.
- Failure to re-assemble the cabinet correctly after cleaning.
- Fair wear and tear.

Assessment

The liability under this warranty is dependent on an assessment by FPG, to determine the defect in workmanship or materials.

Time Limit

FPG does not guarantee that any service to be performed under this warranty will be carried out within any particular time limit.

Caution

No warranty claim will be accepted unless authorised by FPG prior to commencement of service.



OPERATION

Cabinet Layout

AMBIENT CABINETS - OPERATION

Tilt or Sliding Front Doors

The tilt door cabinet has a single front door and two

sliding rear doors.



The front door is hinged along the bottom edge, and is opened by pulling the top edge forward.

When opened, the door is restrained from falling by wire cables, which retract into "pull boxes" when the door is closed.

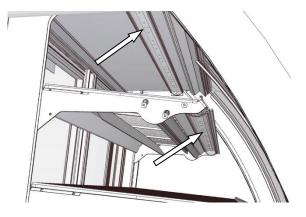


The sliding door cabinet has two sliding doors on both the front and rear of the cabinet.

The control equipment is housed in the base of the cabinet.

Lighting

As standard, all cabinets are fitted with high efficiency LED lighting strips in the ceiling of the cabinet, and below each shelf.



Square Glass Cabinets

The square glass cabinet does not have front opening doors. It has rear sliding doors, similar to the tilt and sliding door models.

The front of the cabinet is formed entirely from fixed glass panels, which are square and cemented together.

The shelf lights are the same as those used on the tilt and sliding door models, but the top light is mounted on brackets, similar to the shelf brackets.

The control equipment is housed in the base of the cabinet.





Controls

AMBIENT CABINETS - OPERATION

Control Panel



The control panel is mounted on the lower back of the cabinet.

The only control is a light switch.

Lights



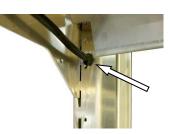
To turn the lights on, rotate the light switch in a clockwise direction.

To avoid possible damage to the electronic ballasts, fluorescent tubes which flicker or fail to strike must be replaced without delay.

Preparation

AMBIENT CABINETS - OPERATION

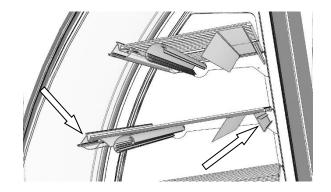
Shelf Location and Ticketing



All shelves are adjustable in height and can easily be moved up or down, to match product size.

The movement is restricted to 50mm, because of the electric cables to the lights. For greater movement contact the manufacturer or supplier for advice, as electrical modifications may be required.

The front and rear edges of the shelves are profiled to carry ticketing/labels.



Continued on next page



Preparation cont.

AMBIENT CABINETS - OPERATION

Shelf Adjustment

To move the shelf support brackets, remove all the shelves and then remove the rear sliding doors. Using two people, one on each bracket, slide the bracket upwards and disengage it from the support pillar. Insert the bracket in the new position and push it down firmly. Replace all shelf trays and doors.

The brackets can be inserted in two positions, allowing the shelves to be either horizontal or sloping downwards.



Caution

Make sure shelf brackets are pushed down as far as they can go. Failure to do this may result in shelf collapse, when loaded with product.

Power Supply

Ensure that power is connected to the cabinet. Turn on the main power switch, as shown above.

Load Cabinet

Load cabinet with product, at room temperature.

Close all Doors

It is important to keep all cabinet doors closed, to maintain correct air circulation and prevent hot-spots adjacent to lights.

Turn on Lights

When ready for service, turn on the cabinet lights.

Caution

The cabinet fan is connected to the lighting circuit, but if it stops for any reason, heat from the lights will raise the internal temperature of the cabinet.



TROUBLE SHOOTING

FAULT	POSSIBLE CAUSE	REMEDY	
	Door not in track	Install door correctly in track	
	Debris in track	Clean door tracks (see cleaning)	
Doors are not sliding smoothly	Door glider damaged/missing	Have glider replaced	
	Lack of lubricant	Apply food grade lubricant to door track	
Cabinet lights not working	The mains isolating switch on the wall, circuit breaker or fuses are off at the power board	Turn isolating switch circuit breaker or fuses on	
	The light switch is OFF	Turn light switch ON	
	The light switch on the unit is faulty	Have the switch replaced	
	A failed LED power supply	Replace the power supply	
	An LED strip has failed	Replace the LED assembly	
	Internal breaker tripped/failed	Have wiring checked and reset or replace breaker	
Cabinet Temperature High	Fan may have failed	Have fan checked/replaced	
Aluminium parts corroded	Caustic detergent damage	Order replacement parts	

Service Personnel Only The table entries in *italics* indicate actions to be taken only by qualified Service Personnel.



CLEANING

Cautions

AMBIENT CABINETS - CLEANING

Power

ALWAYS TURN THE POWER SUPPLY OFF BEFORE CLEANING.

Water

THIS UNIT IS NOT WATERPROOF. DO NOT USE A WATER JET SPRAY TO CLEAN THE INTERIOR OR EXTERIOR OF THIS CABINET.

Exterior

AMBIENT CABINETS - CLEANING

Painted and Metal Surfaces

Painted, stainless steel or aluminium surfaces should be cleaned with hot soapy water or a good quality metal cleaning compound. DO NOT clean surfaces with abrasive pads or cleaners (e.g. Scotchbrite pads or Jif), as paint, stainless steel and aluminium surfaces will be damaged.

Glass

All glass should be cleaned using a good quality glass cleaner and a clean cloth.

DO NOT clean glass with abrasive pads or cleaners (e.g. Scotchbrite pads or Jif), as the glass will be damaged.

Sliding Doors

Sliding glass doors can be removed for cleaning by sliding the door to central position, placing hands either side of the door, lifting up and then swinging out at the bottom.

When replacing doors, make sure that the top is located in the correct slot, and the gliders are properly located on the correct bottom track.







Sliding door tracks should be vacuumed out regularly to keep doors sliding freely. Failure to do so will damage the gliders and track.



Interior

AMBIENT CABINETS - CLEANING

Trays and **Shelves**

Stainless steel trays, shelves, grills etc. should be cleaned with hot soapy water. Do not use abrasive pads or cleaners (e.g. Scotchbrite pads or Jif), as these may damage surfaces.

Warning: Dishwasher detergents will damage the anodised aluminium shelves.

Tilt Door Glass

Gently pull the top of the door forward, until it is restrained in the open position.

The inside of the glass can now be carefully cleaned, using a cloth and glass cleaner. Dry the glass off with paper towels or a cloth.

DO NOT use abrasive pads or cleaners, because they will damage the surface of the glass.



End Glass

The insides of the end glass panels can normally be cleaned after the shelf trays have been removed.

Only remove the shelf lights and brackets etc. when carrying out longer term maintenance/cleaning.

Routine

AMBIENT CABINETS - CLEANING

Schedules	To maintain ontimum perfo

thorough.

Inspection As part of the cleaning routine, the controls, mechanical parts and electrical

wiring should be inspected for damage, deterioration or need of adjustment.

To maintain optimum performance, cleaning schedules must be regular and

Correction

If any small faults are found, have them attended to promptly by a competent serviceman. Don't wait until they cause a complete breakdown.



INSTALLATION

Regulations

AMBIENT CABINETS - INSTALLATION

Compliance with Local Requirements

It is very important that your inline food cabinet is installed correctly and that the operation is correct before use. Installation must comply with local electrical, health & safety and hygiene requirements.

Setting Up

AMBIENT CABINETS - INSTALLATION

Unpacking

Unpack and check unit for damage and report any damage to the carrier and supplier. Report any deficiencies to your supplier.

The cabinet is supplied fully assembled, but the shelf trays are packed separately.

Site Preparation

Ensure the cabinet location and any bench cut outs are made to the precise measurements shown in the specifications section. Position the cabinet in its allocated working position. Use a spirit level to ensure the cabinet is level from side to side and front to back. (If this is not carried out, uneven temperature distribution could occur).

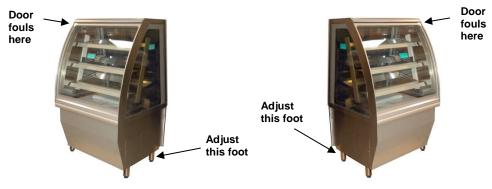
Cabinet Preparation

Remove all tapes, ties and packers, used to prevent movement during transit.

Tilt Door Adjustment

If the tilt door glass fouls the frame, either the cabinet is not level, or the floor is out of true.

The solution is to adjust the cabinet feet.





Location

AMBIENT CABINETS - INSTALLATION

Ventilation Before use, operate the cabinet for 1-2 hours to remove any fumes or odours,

which may be present.

Access The cabinet should also be positioned so the operating panel and shelves are

easily reachable for loading and unloading.

Power Supply

AMBIENT CABINETS - INSTALLATION

Voltage Rating Before connecting to the power supply, check that the local supply is correct to

that shown on the rating plate, located on the rear of the cabinet.

Isolation If the cabinet is not connected by a plug and socket, but is hard wired to the

mains supply, a means of isolation must be provided.

The isolator or plug should be accessible after the cabinet is installed.

Earthing THIS APPLIANCE MUST BE EARTHED/GROUNDED

The cabinet should be earthed via the earth lead in the mains cable.

In addition, an equipotential earth bonding terminal is provided, to allow the cabinet to be bonded to a building surge earth or adjacent equipment.





SERVICING

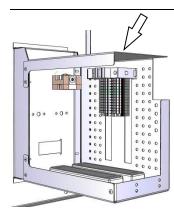
Lighting

AMBIENT CABINETS - SERVICING

Caution

DO NOT service lights without isolating the cabinet at the main switch or unplugging it from the wall.

Control Gear Chassis



The control gear, including the LED lighting power supplies, is located behind the left hand rear panel.

All low power circuits are protected by a circuit breaker, MCB, which can be operated via a cut-out in the top of the chassis.

Test Lighting Components

Before replacing an LED strip, check that the power supply is working.

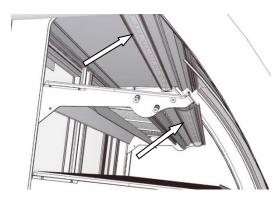
If there is no dc voltage at the output, the power supply should be replaced.

Access to LED Strips

The LED strips are protected with plastic covers. These clip into grooves in the aluminium extrusion.

Remove the plastic cover to access the LED strip.

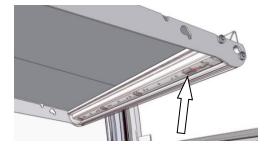
The top light assembly is similar to the shelf lights, but the correct replacement unit must be used.



LED Strip Replacement

Individual LED modules cannot be replaced. A complete light unit must be used.

Connection is made with a plug and socket. Disengage the supply lead from the metalwork, and re-assemble it to the replacement unit.





Mains Lead

AMBIENT CABINETS - SERVICING

Lead Replacement

If damaged, the mains lead must ONLY be replaced by a qualified service person.

Gaskets

AMBIENT CABINETS - SERVICING

Qion Gaskets

On tilt front cabinets, the front door aperture is fitted with a Qlon gasket along the top.

The gasket is foam filled, and has a T section base, which slides into an aluminium extrusion.

Gasket Replacement



The aluminium extrusion is in two halves, with a 20mm gap at the centre.

To replace the gasket, pull the old one out of the extrusion. Cut the replacement gasket to length, and feed it in through the gap.

Rubber Gaskets

The rubber gaskets, on sliding doors, fit into T section slots in the door frames, and can also be replaced if damaged.



SPECIFICATIONS

Mechanical

AMBIENT CABINETS - SPECIFICATIONS

	CABINET MODEL			
	IN 5A08	IN 5A12	IN 5A15	IN 5A18
Height	1443 mm	1443 mm	1443 mm	1443 mm
Width	807 mm	1207 mm	1507 mm	1807 mm
Depth	789 mm	789 mm	789 mm	789 mm
Dry Weight	108 kg	135 kg	155 kg	185 kg
Height Adjustment	- 0 + 30 mm	- 0 + 30 mm	- 0 + 30 mm	- 0 + 30 mm
Front Doors	Fixed, Slide or Tilt	Fixed, Slide or Tilt	Fixed, Slide or Tilt	Fixed, Slide or Tilt
Cabinet Base Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Number of Shelves	3 plus base	3 plus base	3 plus base	3 plus base
Display Area	1.15 m²	1.8 m²	2.3 m²	2.7 m²
Climatic Class & IP	Cabinets are tested under Climate Class 3 conditions and have IP 22 ratings			

Electrical

AMBIENT CABINETS - SPECIFICATIONS

	CABINET MODEL				
	IN 5A08	IN 5A12	IN 5A15	IN 5A18	
Voltage	230 - 240V 50Hz 1φ				
Power	90 W	140 W	180 W	290 W	
Current	0.4 A	0.6 A	0.8 A	1.25 A	
Connection	3 core cable with 10 A plug	3 core cable with 10 A plug	3 core cable with 10 A plug	3 core cable with 10 A plug	
Temperature Range	Room Temp	Room Temp	Room Temp	Room Temp	
Lighting	4 x LED strips	4 x LED strips	4 x LED strips	4 x LED strips	



Compliance

AMBIENT CABINETS - SPECIFICATIONS

Safety Aspects

This cabinet has been designed to comply with the relevant requirements of the following specifications:

• AS/NZS 3100 : General Requirements for Electrical Equipment

AS/NZS 3820 : Essential Safety Requirements
 AS/NZS 4417 : Marking of Electrical Products

Operational Safety

This appliance is not intended for use by young children or infirm persons, unless they have been adequately supervised by a responsible person, to ensure that they can use the appliance safely.

Young children should be supervised, to ensure that they do not play with the appliance.

Improvements

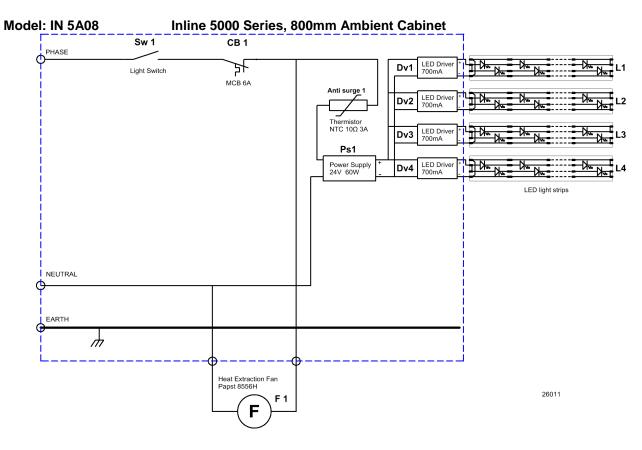
AMBIENT CABINETS - SPECIFICATIONS

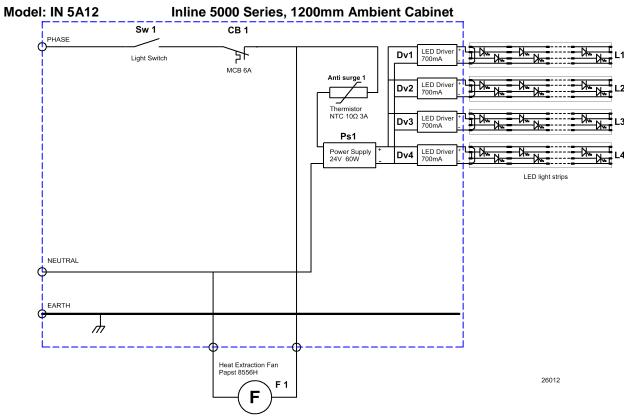
Ongoing Development

FPG reserves the right to change specifications and construction, as part of ongoing product improvement.



ELECTRICAL CIRCUIT DIAGRAMS

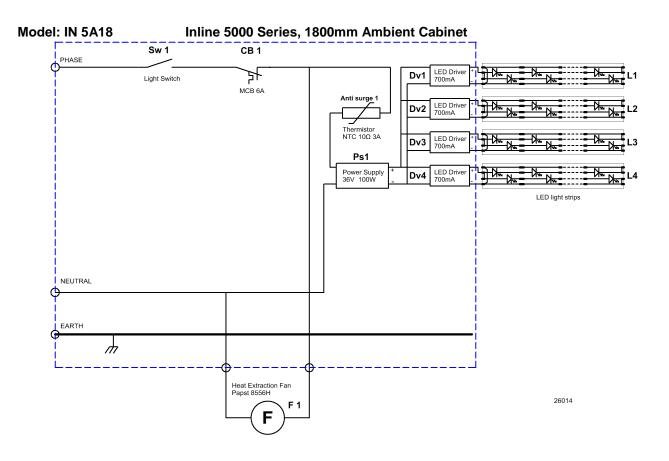






ELECTRICAL CIRCUIT DIAGRAMS, Continued

Inline 5000 Series, 1500mm Ambient Cabinet Model: IN 5A15 Sw 1 PHASE 卢 Dv1 Light Switch LED Drive 700mA Dv2 Thermistor NTC 10Ω 3A LED Drive 700mA Dv3 Ps1 Power Supply 36V 100W LED Drive 700mA Dv4 LED light strips NEUTRAL EARTH \mathcal{H} Heat Extraction Fan Papst 8556H 26013





SPARE PARTS

Cabinet Serial Number

When ordering spare parts, it is important to quote the Serial Number printed on the label fixed to the control panel.

This serial number will enable FPG to trace details of the build specification of your particular cabinet, and hence ensure that spare parts are fully compatible.

To satisfy warranty conditions, and ensure optimum performance, use only FPG supplied spare parts.

Part Description	FPG Part Number
Light Switch EGO	14372
Light Switch Knob	14374
Circuit Breaker 6A	10522
24V 60W LED power supply	21613
36V 100W LED power supply	25922
LED Driver 700mA	25762
Ant-surge Thermistor 10 Ohm 3A	22354
Light Cover 1120mm Long Clear Polycarb	18113
Light Cover 720mm Long Clear Polycarb	18114
Top Light Replacement Kit for 5A08 Curved / Square	69255 / 70441
Shelf Light Replacement Kit for 5A08 Curved / Square	69804 / 69804
Top Light Replacement Kit for 5A12 Curved / Square	69509 / 70440
Shelf Light Replacement Kit for 5A12 Curved / Square	69696 / 69696
Top Light Replacement Kit for 5A15 Curved / Square	70442 / 69706
Shelf Light Replacement Kit for 5A15 Curved / Square	69801 / 69801
Top Light Replacement Kit for 5A18 Curved / Square	69685 / 69799
Shelf Light Replacement Kit for 5A18 Curved / Square	70443 / 70443
Heat Extraction Fan	10715
Slide-in rubber door seal	11426
Qlon Seal	13677
Brush 7 x 7 Stick On (250m roll)	10310
Sliding Door Bottom Glider module	13361
Tilt Door Restrainer Unit (pull-box)	12588

Continued on next page



SPARE PARTS, Continued

Location of Glass Parts

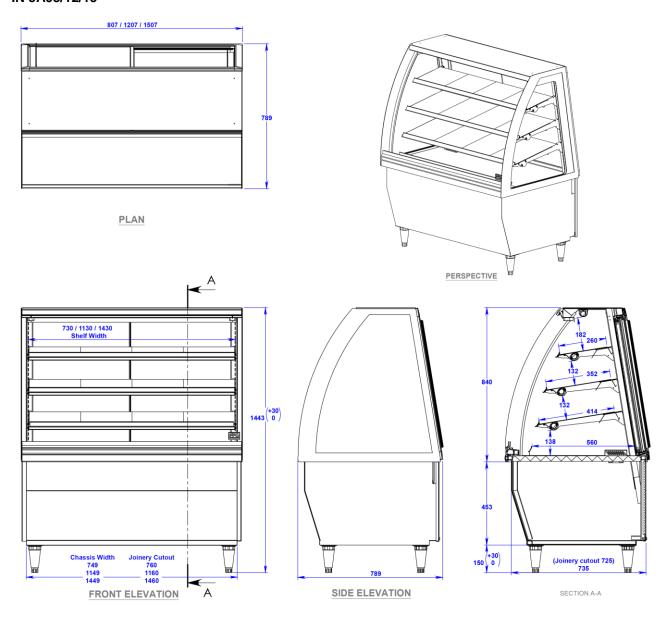
In the following table, handed glass parts are labelled as viewed from the REAR of the cabinet.

Part Description	FPG Part Number
End Glass LH/RH (Except for Butted Glass Cabinets)	21191
End Glass LH (Butted Glass Cabinets)	18887
End Glass RH (Butted Glass Cabinets)	18888
Back Inner Sliding Door (800 cabinets)	18564
Back Outer Sliding Door (800 cabinets)	18565
Back Inner Sliding Door (1200 cabinets)	18566
Back Outer Sliding Door (1200 cabinets)	18567
Back Inner Sliding Door (1500 cabinets)	18568
Back Outer Sliding Door (1500 cabinets)	18569
Back Inner Sliding Door (1800 cabinets)	18570
Back Outer Sliding Door (1800 cabinets)	18571
Front Panel (800 Butted Glass Cabinet)	18891
Front Panel (1200 Butted Glass Cabinet)	19006
Front Panel (1500 Butted Glass Cabinet)	19008
Front Panel (1800 Butted Glass Cabinet)	19010
Top Panel (800 Butted Glass Cabinet)	18889
Top Panel (1200 Butted Glass Cabinet)	19005
Top Panel (1500 Butted Glass Cabinet)	19007
Top Panel (1800 Butted Glass Cabinet)	19009
Front Inner Curved Sliding Door (800 cabinets)	62075
Front Outer Curved Sliding Door (800 cabinets)	62078
Front Inner Curved Sliding Door (1200 cabinets)	62081
Front Outer Curved Sliding Door (1200 cabinets)	62084
Front Inner Curved Sliding Door (1500 cabinets)	62087
Front Outer Curved Sliding Door (1500 cabinets)	62090
Front Inner Curved Sliding Door (1800 cabinets)	62093
Front Outer Curved Sliding Door (1800 cabinets)	62096
5K 800 SG Curved Front Tilt Glass Replacement Kit	63001
5K 1200 SG Curved Front Tilt Glass Replacement Kit	63002
5K 1500 SG Curved Front Tilt Glass Replacement Kit	63003
5K 1800 SG Curved Front Tilt Glass Replacement Kit	63004
Product Manual for Inline 5000 Series Ambient Cabinets	12488



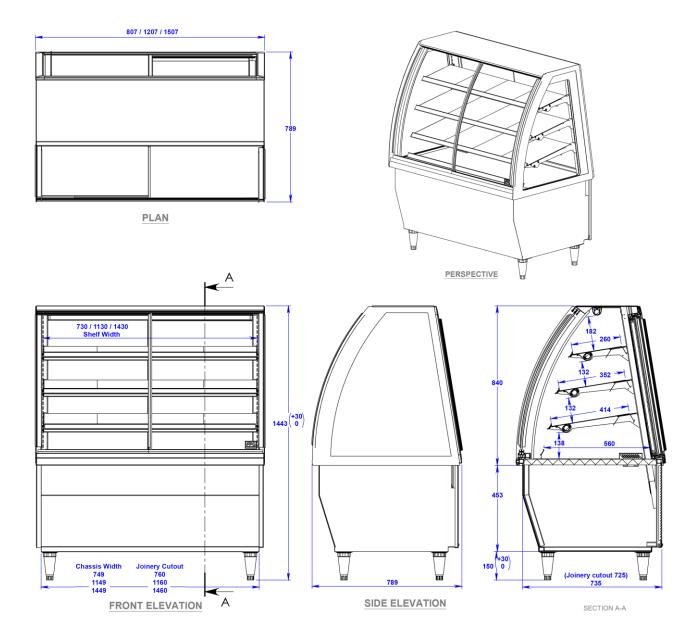
MECHANICAL DRAWINGS

Tilt Door Cabinets Types IN 5A08/12/15



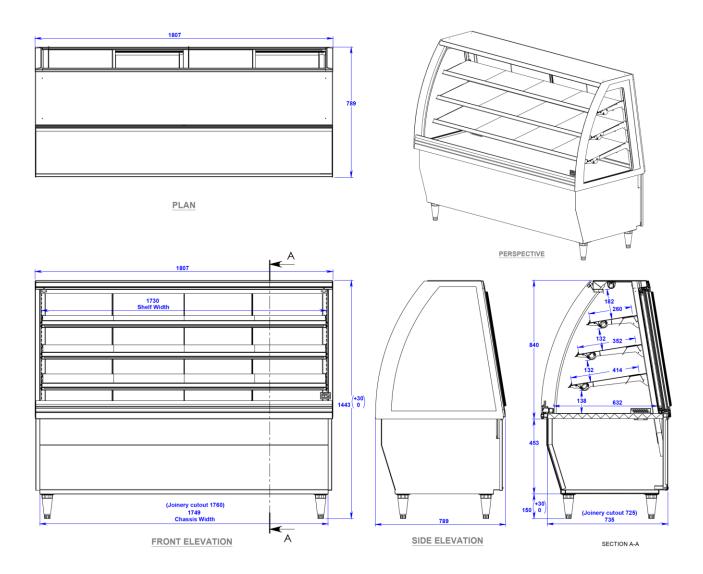


Sliding Door Cabinets, Types IN 5A08/12/15



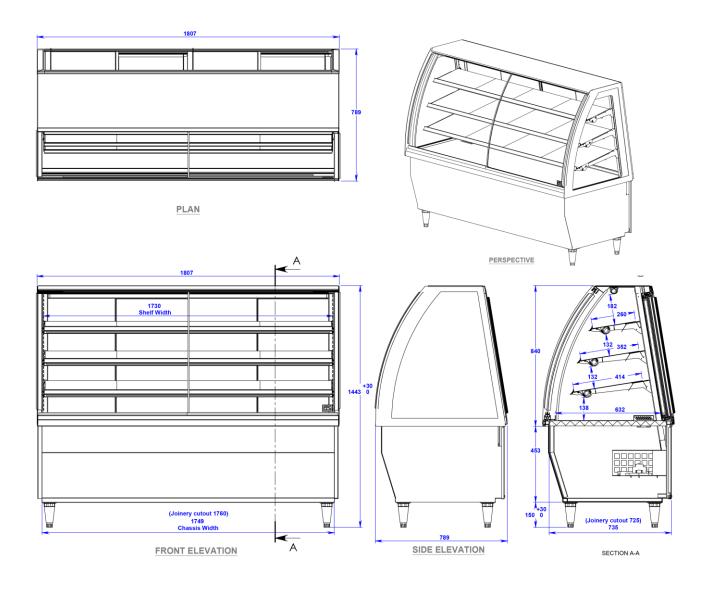


Tilt Door Cabinet Type IN 5A18



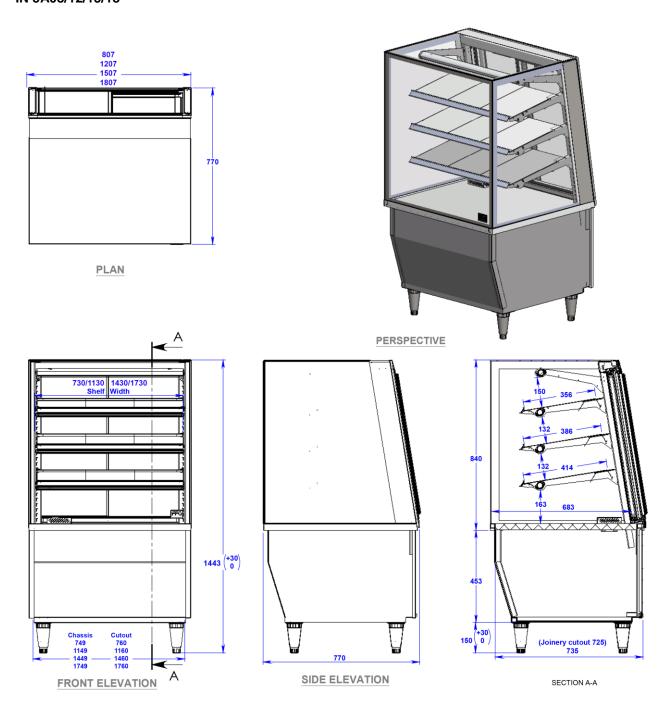


Sliding Door Cabinet, Type IN 5A18





Square Glass Cabinets Types IN 5A08/12/15/18



Note: The 1800mm wide cabinet is fitted with four rear doors.







For full contact details please visit the Contacts page on **FPGWORLD.COM** or email us at support@fpgworld.com In line with policy to continually develop and improve its products, Future Products Group reserves the right to change specifications and design without notice.

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