

PIZZA HUT

DOUGH RETARDER

DOUGH PROVER

RETARDER / PROVER

INSTALLATION AND OPERATING INSTRUCTION MANUAL



FOSTER REFRIGERATOR (UK) LTD

CABINET DESCRIPTION

The Pizza processing cabinets are provided in three formats:

- 1. Model PR RI 1T Dough Retarder single section.
- 2. Model PP RI 1T Dough Prover single section.
- 3. Model PRP RI 2T Dough Retarder / Prover two section " Combi".

Each cabinet is designed to accomodate two special pizza trolleys complete with five "slatted" aluminium shelves.

The control system for each cabinet allows simple manual operation with pre-set temperatures and function indication lights.

The cabinets are of modular construction allowing for assembly on site. The Exterior finish to side and front panels is Stainless Steel. The Internal finish is smooth aluminium to both walls and ceiling. Doors have an Exterior and interior finish of Stainless Steel. The doors are a "slab" type with wiper base gaskets and edge mount hinges.

The cabinets are designed to operate as Retarder and Prover functions with the temperatures as follows:

Retarder + 3°c / + 6°c Prover + 32°c / +35°c

Each cabinet has an Micro Processor temperature controller complete with function indicator L.E.D.'s. The Prover also has a process timer.

Air distribution of the Retarder is achieved by passing air through the evaporator coil located in the insulated plug, down a rear air duct, discharged at low level allowing it to pass over the product, stored on the trolley, prior to returning via a perforated air grill to the evaporator.

On the Prover, air distribution is the same as the Retarder but passes throug a Heater assembly instead of an evaporator.

The refrigeration system on the Retarder, is a self contained unit comprising of air cooled condensing unit, forced air evaporator and all ancillery parts and controls.

Refrigeration used on the Retarder will be R22. An externally equalized thermostatic expansion valve is used to control the correct amount of refrigerant required to meet the demand of the evaporator.

Heating is achieved by an electric heater assembly mounted on the ceiling panel complete with fan providing adequate air circulation in the Prover section.

Each cabinet will operate from a 220/240 volt, 1 phase,50 Hz electrical supply. On the event of the cabinet overheating, the over temperature neon will illuminate, the heater is automatically switched off. The fans continue to run.

To reset depress the green button on the overheat thermostat on the roof of the cabinet.

DESIGN PARAMETERS

RETARDER

The retarder is designed to reduce the temperature of 30 kg dough products from an entry temperature of + 35°c to +10°c in approximately one hour with a final temperature of + 3 in two hours.

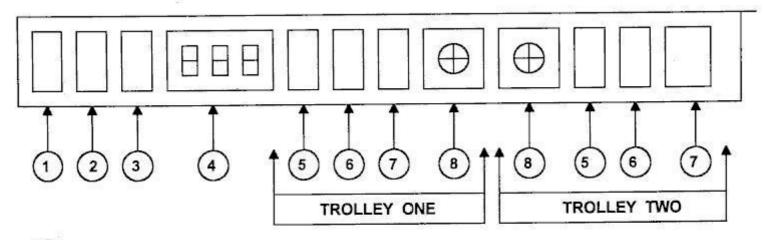
Operating temperature	+ 2°c / + 5°c
Ambient temperature	+ 43°c maximum
Refrigeration Condensing Unit	0.75 Hp
Refrigeration capacity	1100 K / Cal / Hr.
Refrigerant	R22.
Electrical supply	220 /240 v,1ph, 50 Hz,
	13 amp.
Evaporating temperature	- 7°c degrees.

PROVER

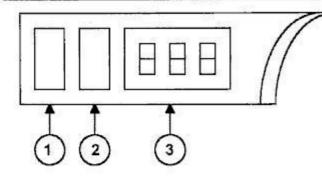
The prover is designed to increase the temperature of 30 kg of dough products from ambient temperature to + 35°c in 1½ hours.

Operating temperature	+ 32°c / + 35°c
Heater assembly	- 3 kw.
Electric suppy	220 /240 v,1ph,50 hz.
	16 amp.
Process timer	0 to 30 Hours.
	(Adjustable)
Overheat safety thermostat	+ 50°c.
Heater duct safety thermostat	+ 90°c.

FRONT PANEL CONTROLS



- (1) MAINS ON / OFF SWITCH
- (2) MAINS ON NEON
- 3 OVER TEMPERATURE NEON
- 4 THERMOMETER / THERMOSTAT
- (5) ALARM CANCEL / PROCESS START SWITCH
- 6 PROCESS START NEON
- 7 PROCESS END NEON
- 8 PROCESS TIMER



PR-RI-1-T CONTROL
LAY-OUT DETAILS

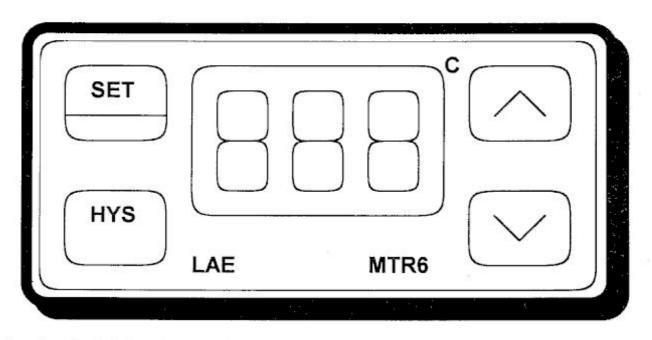
PP-RI-1-T CONTROL

LAY-OUT DETAILS

- 1 MAINS ON / OFF SWITCH
- (2) MAINS ON NEON
- (3) THERMOMETER / THERMOSTAT

NOTE:-BOTH OF THESE LAY-OUTS ARE FITTED ON TO THE PRP-RI-2-T

LAE MICRO-PROCESSOR DIGITAL TEMPERATURE CONTROLLER



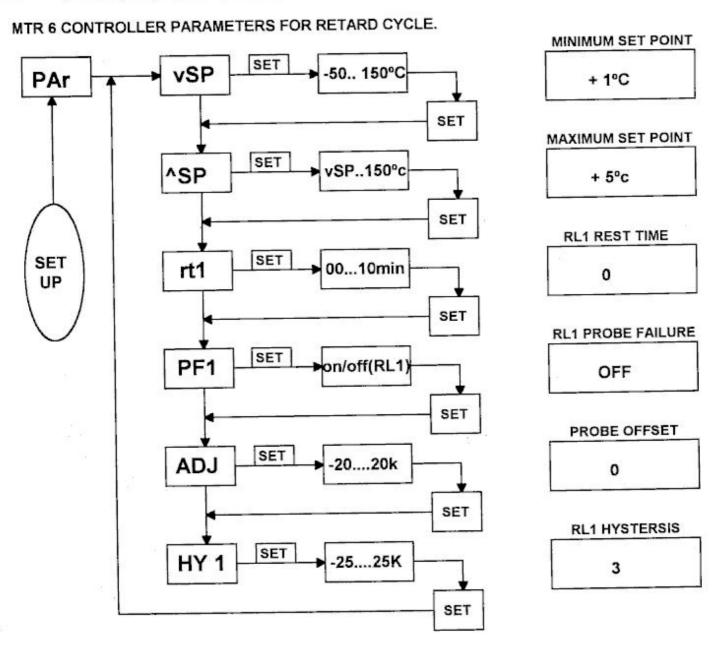
Retard mode: Switch on by depressing on/off switch, the mains on neon will illuminate. The microprocessor has been pre-set at +2°c. Should it necessary to change the operating
temperature press key "SET" on front of micro-processor. L.1 will appear on controller
followed by flashing set point (cut out temperature). Set point adjustment should be
made whilst digits are flashing. To adjust set point press either the up or down buttons
on the right of controller. This desired value can be entered by either pressing the "SET"
button or it will enter automatically if left.

Prove mode: Switch on by depressing the on/off switch, the mains on neon will illuminate. The operating temperature has been pre-set +35°c. Should it be necessary to change the operating temperature than follow the same proceedure as explained in the section above.

NOTE: Two seperate and independent process timers are incorporated on all prover models, one for each trolley. The following proceedure applies on one or both timers where applicable. Ensure that the cabinet is at operating temperature.

Turn the dial to the prove time required. Depress the approriate alarm cancel/process start switch. The process start neon will illuminate. The red neon on the process timer will illuminate. The lower of the two red hands on the process timer will move anti-clockwise as time elapses until its reaches zero on the dial. The process end neon will then illuminate and the alarm will sound.

Switch off the alarm cancel/process start switch. The process end neon will extinguish and the alarm ceases, the timer will automatically reset for the next process.



To setup configuration mode, hold down both ^(up) and v(down) keys together and switch on power to the instrument. If successful PAr will be displayed. Press ^(up) key and display will show typ. This is the control mode type. i.e. Single stage thermostat. Press set key and tHS should be displayed. If tHS is not displayed press v(down) key until it is.

Press set key and uSP is displayed. This is minimum operating temperature.

Press set key and the minimum temperature will be displayed. Press ^(up) or v(down) keys to adjust minimum temperature.

Press set key and ^SP will be displayed. This is maximum operating temperature.

Press ^(up) or v(down) keys to adjust.

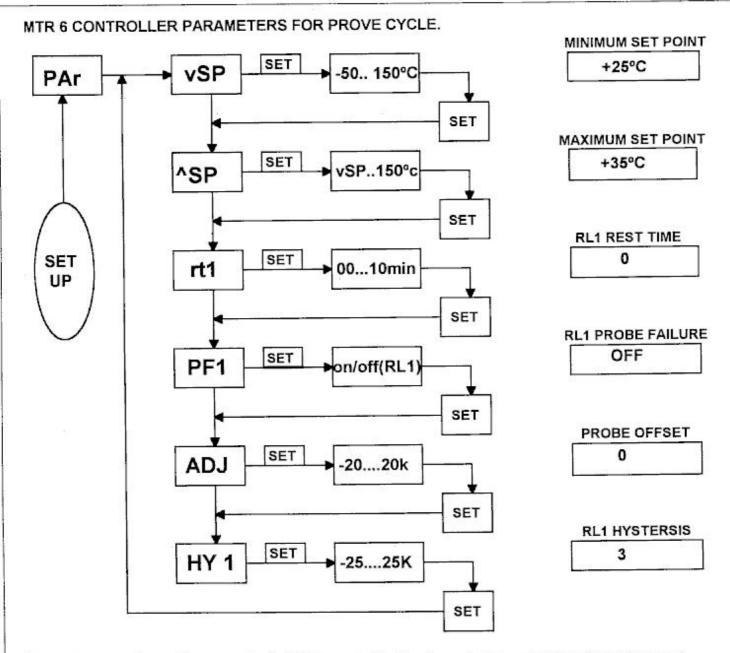
Press set key and r t 1 will be displayed. This is an off time for the relay in minutes and this should be set at zero.

Press set key and PF1 will be displayed. Press set key and on or off will be displayed. This is probe failure protection and off should be displayed. Press ^(up) or v(down) keys to set this mode for off.

Press set key and Adj will be displayed. This is the probe offset for sensor adjustment Adjustment can be made by pressing ^(up) or v(down) keys.

Press set key and Hy1 will be displayed. This is differential / hysteresis temperature. NOTE:- For cooling diff. must be set at a positive value between +01 and +25°c and for heating diff. must be set at a negative value between -01 and -25°c.

Press set key and this will then take display back to uSP. Turn off and on again to end op.



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SPARE PARTS FOR PROVER

15240050	Heater Assembly 3kw.
	Rocker Switch.
15243565	Rocker Switch (illuminated Green)
	Green neon
15244671	Red neon.
15244673	Amber Neon.
15244985	Buzzer.
15246098	Temperature controller MTR6.
	Thermostat EMF5 (Safety).
	Omron timer HC2.
	Contactor

SPARE PARTS FOR RETARDER (R22)

15442811	Condensing Unit CAJ 9510 TMHR.
	Expnsion Valve TEF 2-05.
	Evaporator Fan Motor 7w.
	Relay 8 Pin Plug In.
15490416	Relay Socket 8 Pin.
	Relay 11 Pin
15482001	Liquid Receiver
	Sight Glass 3/8".
	Drier 3/8".

ALL PARTS FOR MODEL PRP.RI 2T. MK2 INCLUDE BOTH OF THE ABOVE LISTS.

INSTALLATION INSTRUCTIONS

1. INTRODUCTION.

Installation of these units should be carried out by a competent person and appropriate codes of practice adhered to - thus ensuring safe installation.

REMOVAL OF PANELS FROM PALLET.

The cabinets are of modular construction with wall panels and ancillary parts delivered on a base pallet with either shrinkwrap or wood case protective exterior, this exterior should be removed which, after cutting the band, will allow all the components to be removed, and checked for any damage and and placed in a convenient position nearby ready for assembly. Depending on the model, there could be more than one crate - so check each one as above.

3.INSTALLATION OF PANELS.

The wall panels are numbered and the following instruction is suggested as a method of installation.

Please check the drawing of modular cabinets to obtain the panel numbers. The ceiling panel is supplied with the refrigeration system / heater assembly prefitted ready for installation once the wall panels are erected.

The cabinets are floorless and therfore, require fitting to a clean level floor. It is recommended that there should be not more than 3 mm tolerance in floor level as this can affect the correct location and locking of panels.

The wall panels are attached to the floor by inserting them into a PVC "U"

channel. This is pre-cut and mitred and should be fitted to the floor prior to installation. This can be raw-plugged or hilti-nailed into position and sealed with silicone sealer to prevent moisture penetration.

Ensure that the "U" channel is fixed "squarely" so that the panels will lock together when inserted.

Apply "mastic sealer" to the inside of the channel so that when the panels are located there is a vapour seal.

Wall panels are locked together by means of a camlock operated by a hexagon headed key provided. Between each panel, seal with mastic to provide a vapour seal. All panels are locked internally.

Firstly, assemble rear wall panels with rear corner panels, then assemble side panels and then finally front panels incorporating door frame.

At the top of the wall panel there is a recess which accepts the ceiling panel. There should be mastic sealer applied to this recess so that when ceiling panel is fitted there is a vapour seal.

Lift the ceiling panel with the equipment fitted and lower into the wall recess. The ceiling panel is secured at the rear of cabinet by means of inserting screws into the pre-drilled aluminium. The weight of the condensing unit fitted to this panel keeps it securely in position.

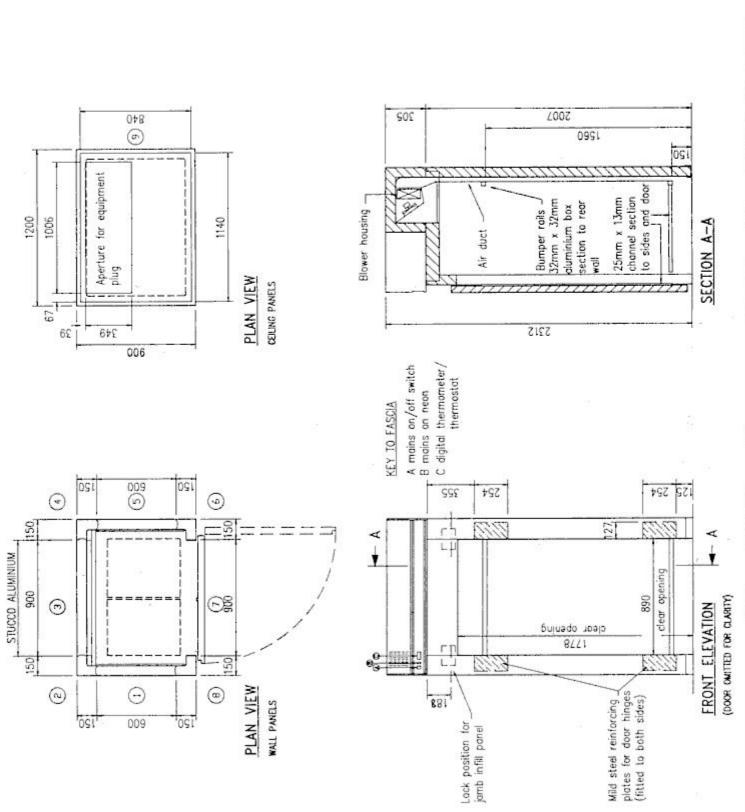
Fit the Stainless Steel side panels to the top of the ceiling panels and the rear of the "plug".

The front console which houses the controls has to be fitted to the front of these Stainless Steel panels. Ensure that the black aluminium "ears" are vertical and parallel.

Fit the square galvanized electrical box to the stainless steel side panel top flange. The holes are pre-drilled for ease of alignment. This box contains the control contactor, electrical terminal block and inter-connecting wiring.

Fit the air ducts to the rear wall of the cabinet through the holes on each side.

Fit the internal aluminium bumper bars to the side walls and in front of the air duct. Secure hinges to cabinet and then hang doors and make sure that there is a good seal. Also make sure that wiper gasket on the bottom of the door just seals to the floor when closed.

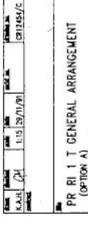


HOTES

1) PIZZA CARTS TO BE SUPPLIED BY FOSTER
2) RIGHT HAND HINGED DOOR IS FITTED AS
STANDARD (LEFT HAND DOOR OPTIONAL)
3) ELECTRICAL SUPPLY: 220-240v/50H /hh
16A SUPPLY

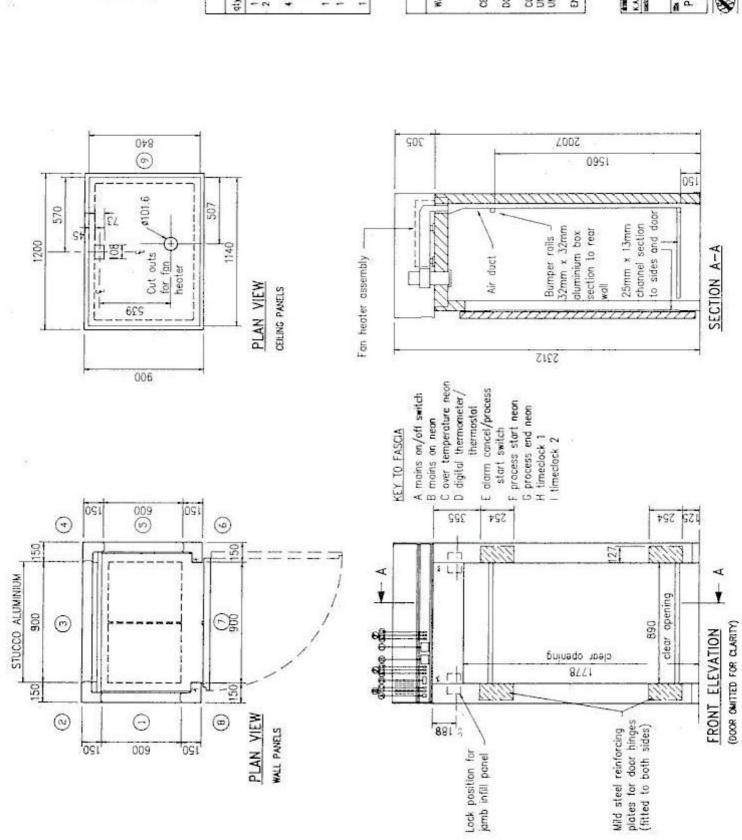






Poster Refrigerator (U.K.) Ltd.

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NOTES

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3) ELECTRICAL SUPPLY: 220-240v/50H /1ph 16A SUPPLY

HAND HINGED WIPER DOOR PANEL SCHEDULE 228 x 900 DOOR INFILL 1 CPIC/B/840/1140 WPF/A/9/2007 WPF/A/6/2007 WCF /A/2007 dt) - 04 - -

WALLS: INTERIOR - SALOTH ALUMINU EXTERIOR - SALOTH ALUMINU EXTERIOR - REAR WALL BOING STUCCO ALUMINUM - REMAIN O'THEM 430 STANLESS STEEL CELLING: INTERIOR - SALOTH GALVANI DOORS: INTERIOR & EXTERIOR - 0,7m STANLESS STEEL CONSOLE: BLACK PLASTISOL UNIT HOUSING: 430 STANLESS STEEL	WALLS: INTERIOR - SMOOTH ALUMINUM EXTERIOR - REAR WALL INDICATED TO BE STUCCO ALUMINUM - REMAINER TO BE O.7mm 430 STANLESS STEEL CELING: INTERIOR - SMOOTH ALUMINUM EXTERIOR - SMOOTH ALUMINUM EXTERIOR - SMOOTH OALVANISCO STEEL COMSOLE: BLACK PLASTISOL UNIT HOUSING: 430 STANLESS STEEL
UNIT HOUSING RETAINER, ANODISED IN ALUMINIUM END SHRONDS, 430 STAIN, ESS STEET	UNIT HOUSING RETAINER, ANDDISCO MATT BLACK ALUMINUM END SHROUDS, 430 STAMFESS STEEL



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