



## **INSTALLATION / OPERATION MANUAL**

**P-1R - PROVER**

## MANUFACTURED BY

### Moffat Limited

Christchurch  
New Zealand

## INTERNATIONAL CONTACTS

### AUSTRALIA

#### Moffat Pty Limited

**E.Mail:** vsales@moffat.com.au  
**Main Office:** (tel) (03) 9518 3888  
(fax) (03) 9518 3833  
**Service:** (tel): 1800 622 216  
**Spares:** (tel): 1800 337 963  
**Customer Service:** (tel): 1800 335 315  
(fax): 1800 350 281

### CANADA

#### Serve Canada

**Web:** www.servecanada.com  
**E.Mail:** info@servecanada.com  
**Sales:** (tel): 800 551 8795 (Toll Free)  
**Service:** (tel): 800 263 1455 (Toll Free)

### NEW ZEALAND

#### Moffat Limited

**Web:** www.moffat.co.nz  
**E.Mail:** sales@moffat.co.nz  
**Main Office:** (tel): 0800 663328

### UNITED KINGDOM

#### Blue Seal

**Web:** www.blue-seal.co.uk  
**E.Mail:** sales@blue-seal.co.uk  
**Sales:** (tel): 0121 327 5575  
(fax): 0121 327 9711  
**Spares:** (tel): 0121 322 6640  
(fax): 0121 327 9201  
**Service:** (tel): 0121 322 6644  
(fax): 0121 327 6257

### UNITED STATES

#### Moffat

**Web:** www.moffat.com  
**Sales:** (tel): 800 551 8795 (Toll Free)  
(tel): 336 661 1556  
(fax): 336 661 9546  
**Service:** (tel): 800 858 4477 (Toll Free)  
(tel): 366 661 1556  
(fax): 336 661 1660

### REST OF WORLD

#### Moffat Limited

**Web:** www.moffat.co.nz  
**E.Mail:** export@moffat.co.nz

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# P-1R - PROVER ROOM

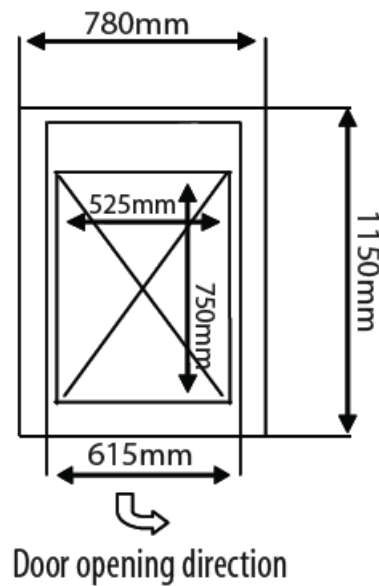
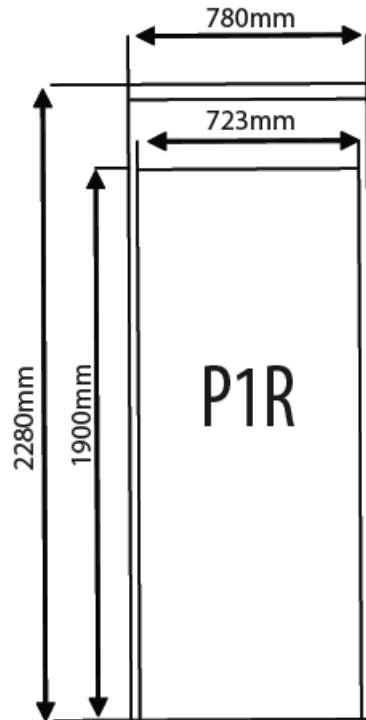
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Date Purchased..... Serial No.....

Dealer.....

Service Agent.....

# SPECIFICATIONS



## Technical Specifications:

<b>Power Supply</b>	240V, 1P+N+E, 2kW.
<b>Overall Dimensions (mm)</b>	775 (W) x 1195 (D) x 2300 (H).
<b>Will Accommodate Rack Size</b>	525mm x 750mm x 1850.
<b>Single Door</b>	
<b>Control Panel</b>	Digital.
<b>Outer Panels</b>	Stainless Steel.

**NOTE;** All dimensions exclude protrusions - door handles, drains etc.

# INSTALLATION

It is the responsibility of the owner to supply and arrange for the connection of all services.

It is most important that the unit is installed correctly and that the operation is correct before use. Installation must comply with national electrical installation codes and local Health and Safety regulations.

This unit is designed to be fitted inside a prefabricated Retarder / Prover.

**IMPORTANT - FIXED WIRING INSTALLATIONS MUST INCORPORATE AN ALL-POLE DISCONNECTION SWITCH.**

## FEATURES

- This proofer uses an electrical heater to generate heat for temperature and to evaporate water for humidity.
- The cabinet is made of stainless steel and is moveable as it is fitted with castors.

## WATER SUPPLY

Water must be supplied via a sediment filter to the water inlet connection. A stop cock must be fitted to allow the mains pressure water supply to be turned off in the event of a servicing requirement, tank drainage or cleaning procedure. The stop cock must be located in an easily accessible position.

Cold water connection is ½" tube connection on the roof of the appliance. The Prover requires a ½" BSP Inlet Connection. The water connection and drain outlet should be plumbed in, in accordance with National / Local Codes covering installation.

**Maximum water supply pressure 550kPa (80psi).**

## POWER SUPPLY

The rating plate attached to the side of the Prover Unit should be checked prior to the electrical installation being carried out. However, as a guide, the following power supply is required.

**P-1R      240V, 1P+N+E, 2kW.**

## FLOOR REQUIREMENTS

A concrete or tile surface is preferred. The floor area is to be flat to within 3mm over the whole prover room floor area.

## INSTALLATION

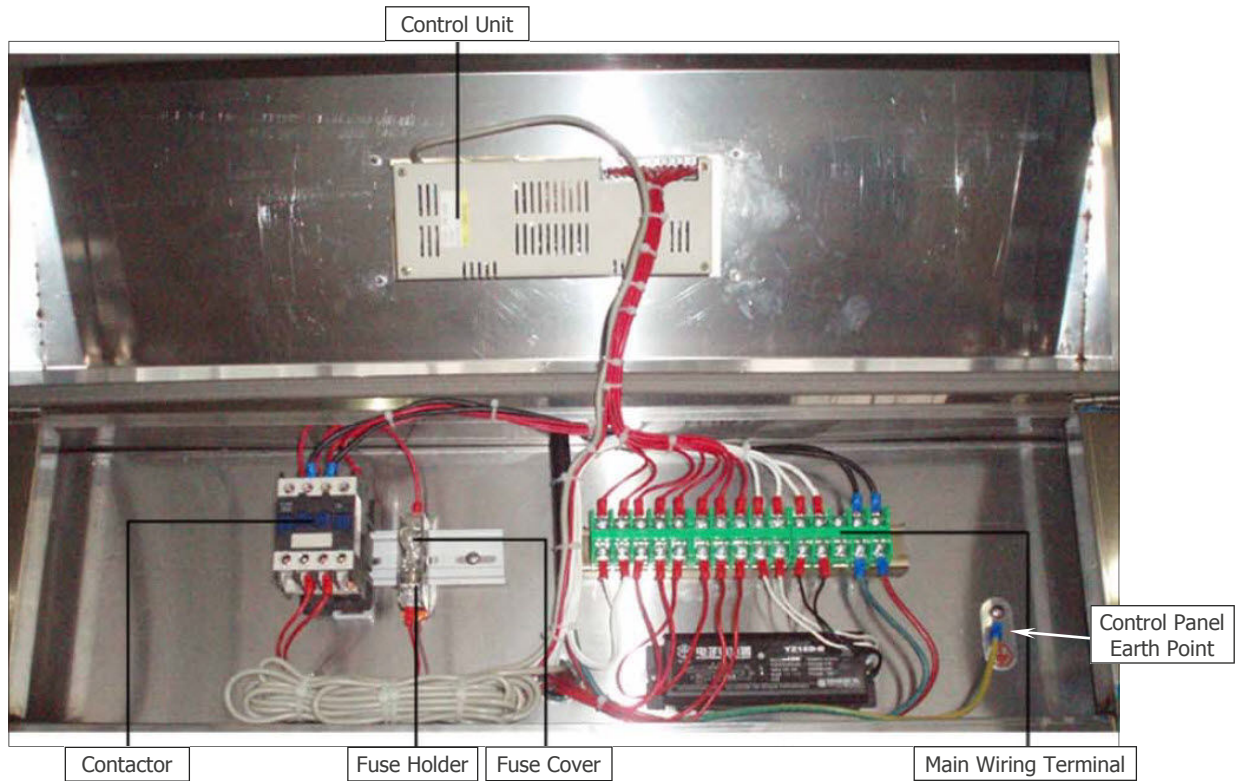
The appliance is ready for installation;

1. Correctly locate the appliance into its final operating position and lock the braked castors.
2. The location of the installation must have adequate ventilation.
3. Connect up the water supply to the roof of the appliance using a ½" BSP Inlet Connection.
4. Connect up the drain outlet under the proofer in accordance with National / Local Codes.

# INSTALLATION

## ELECTRICAL CONNECTION

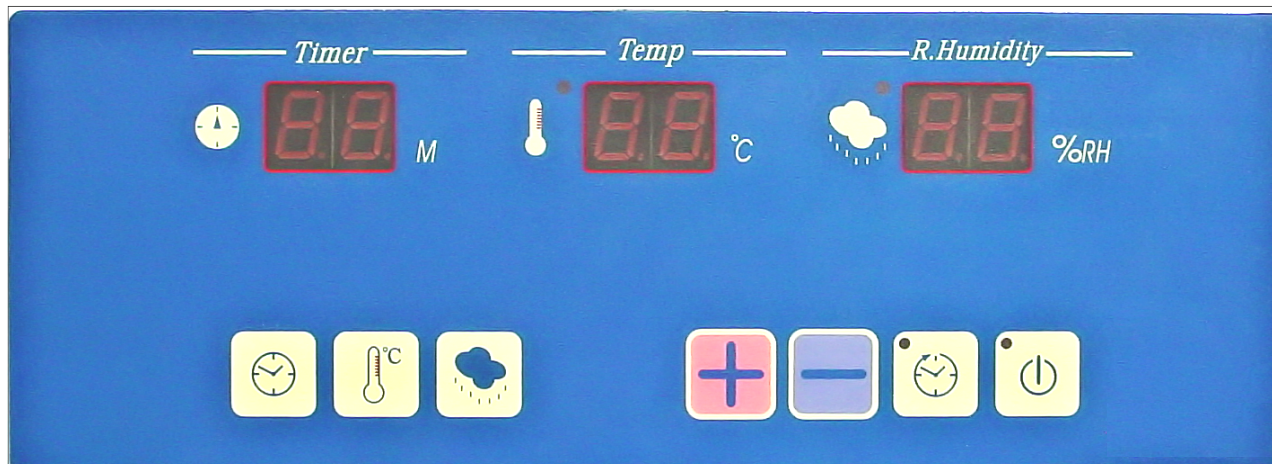
1. Pass the mains power lead into control panel and connect power lead to Main Wiring Terminal block.
2. Ensure that all the terminal connections are tight.



# OPERATION

## DESCRIPTION OF CONTROLS

### CONTROL PANEL



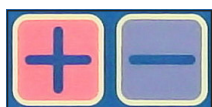
### OPERATION KEYS



**Power 'ON / OFF' switch;** Main power 'ON / OFF' switch for the Prover. Light in top left corner of key will illuminate when this key is pressed.



**Proof Cycle 'Start' Key;** Used to start the Proof cycle. Light in top left corner of key will illuminate when this key is pressed and timer is running.



**'Up / Down' Keys;** Used to change the 'Timer', 'Temp' and 'relative Humidity' settings.



**Humidity Key;** Used to set the relative humidity for the prover. Pressing this key when the prover is operating will show the set humidity of the prover.



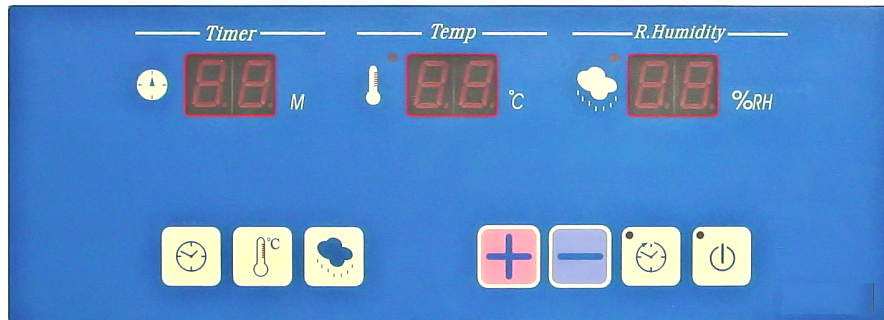
**Temperature Key;** Used to set the operating temperature of the prover. Pressing this key when the prover is operating will show the set temperature of the prover.



**Timer Key;** Used to set the prover operating time. Pressing this key when the prover is operating will show the set operating time of the prover. The timer can be set for a maximum of 99 minutes.

# OPERATION

## DISPLAY SCREENS



### The Timer Display will show the following functions:-

- Displays the elapsed 'Time' in minutes that the prover has to run.
- Pressing the 'Timer' key will display the set operating 'Time' in minutes for the prover.
- The light in the lower right corner of display will flash intermittently when the timer is running.

### Temperature Display will show the following functions:-

- Displays the current temperature of the prover.
- Pressing the 'Temperature' key will display the current set operating 'Temperature' in centigrade for the prover.

### Relative Humidity Display will show the following functions:-

- Displays the current humidity in the Prover room.
- Pressing the Humidity key will show the current humidity set for the prover.

**NOTE:** The 'Timer' and 'Temp' displays will show 'Stop' when the prover is powered up and also on completion of setting changes.



# OPERATION

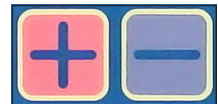
## OPERATION

Turn 'On' the mains power supply to the prover room, the 'Timer' and 'Temp' displays will show 'Stop'. Ensure the water supply connection is turned 'On'.



### To Set the Operating Time

- Press the 'Clock' key on the left of the display. The 'Timer' display will show the current set time and the LED in the bottom right corner of the 'Timer' display will glow.
- Press the '+ / -' Keys to change the set operating time. Press the 'Clock' key to accept the change. The display will show the new set time and after a short time the screen will revert to the 'Stop' display.



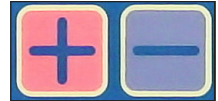
### To Set the Prover Operating Temperature

- Press the 'Temp' key on the left of the display. The 'Timer' display will show the current set temperature of the prover and the LED in the bottom right corner of the 'Temp' display will glow.
- Press the '+ / -' Keys to change the set operating temperature. Press the 'Temp' key to accept the change. The display will show the new set temperature and after a short time the screen will revert to the 'Stop' display.



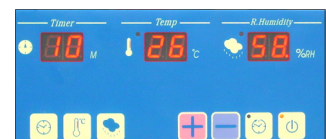
### To Set the Relative Humidity Level

- Press the 'Humidity' key on the display. The 'Humidity' display will show the current set temperature of the prover and the LED in the bottom right corner of the 'Humidity' display will glow.
- Press the '+ / -' Keys to change the set relative humidity. Press the 'Humidity' key to accept the change. The display will show the new set humidity and after a short time the screen will revert to the 'Stop' display.



### To Start the Prover

- Load the dough into the prover.
- Press the 'Power' key on the display to turn 'On' the prover. Hold the key depressed until all 3 displays illuminate.
- The LED in the top left corner of the 'Power' key will glow.
- The displays will show the current settings for the prover.
- Press the 'Start Timer' key. The red LED in the top left of the 'Start Timer' key will illuminate and the 'Timer' display will start to count down the time remaining.
- The LED in the bottom right hand corner of the 'Timer' display will flash intermittently.
- Once the proving time has completed, the display will flash '00' intermittently in the 'Timer' display and an audible alarm will sound.
- To silence the audible warning, press the 'Timer Start' key.
- Remove the dough from the prover.



### To Turn 'Off' the Prover

- To turn 'Off' the prover, hold the 'Power' key depressed until 'Stop' is displayed on the 'Timer' and 'Temp' display screens.



# OPERATION

## PARAMETER SETTINGS:

1. When unit display shows "STOP" push + - keys together for 3 seconds.
  2. Push + key until display reads "In 00 08".
  3. Push LHS time key.
  4. To cycle through parameters press LHS time key.
  5. To change value push + or – key.
- To save and exit push and hold LHS time key for 3 seconds.

CODE	SET TO	RANGE	DESCRIPTION
oR	- - 00	00 – 99	
rT	00	-25 - + 25	Temperature offset.
rR	- 00	-25 - + 25	Humidity offset.
rd	- - 00	00 – 99	
Rd	- - 00	00 – 99	

To access 2<sup>nd</sup> level parameter settings:

1. When unit display shows "STOP" push + - keys together for 3 seconds.
  2. Push + key until display reads "In 00 88".
  3. Push LHS time key.
  4. To cycle through parameters press LHS time key.
  5. To change value push + or – key.
- To save and exit push and hold LHS time key for 3 seconds.

CODE	SET TO	RANGE	DESCRIPTION
rP	- - 10	00 – 99	Temperature proportion.
rt	- - 6	00 – 30	Temperature PID calculation cycle.
rc	- - 30	01 – 99	Temperature output cycle.
Rc	- - 1	01 – 99	Steam output period.
Ro	- - 1	01 – 32	Steam output value.
oH			
dF			Heating dead zone.
FI			Filter index.
Lt			Light timer.

After installing proofer, set temperature to 40°C and Humidity to 80%.

Leave unit for 1 hour to stabilise.

Measure temperature and humidity and adjust offsets (rt & rR) as per Level 1 instructions.

# CLEANING AND MAINTENANCE

## CLEANING GUIDELINES

### **CAUTION:**

**All installation and service repair work must be carried out by qualified persons only.**

### **Cabinet**

The inside of the cabinet should be cleaned on a frequent basis to ensure the utmost hygiene standards are maintained. Clean the inside and outside of the cabinet with a clean, damp cloth and water and a mild detergent solution. Do not use cleaners containing grit, abrasive materials, bleach harsh chemicals or chlorinated cleaners. Do not use steel wool or harsh abrasive cleaners as these may damage the surface.

### **Door**

Wash with warm water and detergent solution using a soft sponge in straight lines up and down the door. Rinse with clean, warm water and dry off with a soft dry cloth.

Clean the door seal with warm water and detergent solution using a soft sponge when required and dry off with a soft dry cloth.

### **Water Tank**

The water tank should be cleaned out monthly to prevent build up of scaling.

### **Periodic Maintenance**

**NOTE: All maintenance operations should only be carried out by a qualified service person.**

To achieve the best results cleaning must be regular and thorough and all controls and mechanical parts should be checked and adjusted periodically by a qualified service person. If any small faults occur, have them attended to promptly. Don't wait until they cause a complete breakdown. It is recommended that the appliance is serviced every 6 months.

If the appliance is not used for long periods, close the water shut-off valve upstream of the appliance and clean the appliance thoroughly.

The appliance should be inspected and by an qualified service person at least every 6 months.

# FAULT FINDING

This section provides an easy reference guide to more common problems that may occur during operation of your appliance. The fault finding guide in this section is intended to help you correct, or at least accurately diagnose problems with your equipment.

Although this section covers most common problems reported, you may encounter a problem not covered in this section. In such instances, please contact your local authorised service agent who will make every effort to help you identify and resolve the problem. Please note that the service agent will require the following information:-

- **Model Code and Serial Number of appliance. (Both can be found on the Rating Plate located on the appliance).**

<b>Fault</b>	<b>Possible Cause</b>	<b>Remedy</b>
Not enough humidity	Humidity element damaged.	Replace humidity element.
	Too much scale in water tank.	Descale and clean water tank.
Proving is not even.	Fan damaged.	Replace fan.
Proving temperature is too low.	Heating element damaged.	Replace heating element.
Prover noisy.	Fan damaged.	Replace fan.
Lighting not working	Lighting tube faulty.	Replace lighting tube.
	Lighting starter faulty.	Replace fluorescent tube starter.

# PARTS LIST

## IMPORTANT:

Only genuine qualified replacement parts should be used for the servicing and repair of this appliance. The instructions supplied with the parts should be followed when replacing components.

For further information and servicing instructions, contact your nearest qualified service branch (contact details are as shown on the reverse of the front cover of this manual).

When ordering spare parts, please quote the part number and the description as listed below. If the part required is not listed below, request the part by description and quote model number and serial number which is shown on the equipment rating plate.

## Prover Room P-1R

Parts Number	Parts Code	Parts Name	Specification
SM40SP001	16FSL4	Fan	EF040UF12A23HN
SM40SP002	16FSLW4	Fan Net	32F-002 EF040PG12
SM40SP003	16FS-01	Fan	80*80*38mm
SM40SP004	1240S-100-03-01	Plate of wind pipe(1)	SUS443CT/2B 0.6t*715*745
SM40SP005	1240S-100-04-01	Plate of wind pipe(2)	SUS443CT/2B 0.6t*471*1654
SM40SP006	16DCF-UD8	Magnet Valve	UD-8 1/4"AC220V P=7kgf HGD0UD814A22007
SM40SP007	15QFLF1/2	Ball Valve	1/2"
SM40SP008	15GLQ1/4	Filter	Ytype 1/4"
SM40SP009	1240S-100-02-01	Repelling Pan	443CT/2B 2t*354*372
SM40SP010	16DRG40S-2	Heating Element	1.7KW/220V 50HZ 40S-110-01
SM40SP011	16DRG40S-1	Humidifying Element	0.3KW/220V 50HZ 40S-110-02
SM40SP012	16KZQST100	Control Unit	220V
SM40SP013	1472801-24	Seal	
SM40SP014	16JCQCJX2-0901	Contacto	CJX2-0901 220V
SM40SP015	16BXSZD	Fuse Seat	111A
SM40SP016	16BXSG111B	Fuse Cover	111B
SM40SP018	16JXZ5P	Wiring Terminal	5P
SM40SP019	1240S-100-08	Floor Plate	430/2B-1T*955*750
SM40SP020	2CTL01	Magnet	45*19*6
SM40SP021	12PR40050	Magnet Box	430/2B-1T*96*29
SM40SP022	17MFT-40S	Seal	
SM40SP023	1440S-10-04	Aluminum Frame	A6061 L=650,D=55MM
SM40SP024	16FST	Waterproof Jacket	EA0000AA,D=25mm
SM40SP025	16DGL20W	Fluorescent Lamp	TLD20W/220V
SM40SP026	1440S-80-01	Handle	40S-80-01 L=1650
SM40SP027	15BLL40-80-10-05	Window	5*290*1088
SM40SP028	15HNLCT1132	Latch	CT1132
SM40SP029	15LZL1/2-32F	Wheel	32F-010, HH025AMT
SM40SP030	15LZ3	Wheel	2.5"



# PARTS LIST

## P-1R Steam Generator



