



PLASTIC **P**ROCESS **E**QUIPMENT, INC.

MFP MAINFRAME Installation Manual



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WARRANTY

PPE mainframes are warranted to be free of defective material and workmanship for a period of 90 days from date of sale unless otherwise noted. Warranty does not apply to normal maintenance or wear items. This Warranty will not extend to goods subjected to misuse, abuse, neglect, accident or improper installation or maintenance, or products or goods which have been altered, modified or repaired by anyone other than seller or its authorized and approved representatives.

LIABILITY

Plastic Process Equipment, Inc.'s liability arising from, or in any way connected with, the items sold shall be limited exclusively to repair or replacement, at seller's sole option.

In no event shall seller be liable for any incidental, consequential or special damages of any kind or nature whatsoever. This includes, but is not limited to, lost profits arising from items sold, or in any way connected with this agreement. Hereunder, in tort (including without limitation, negligence, failure to warn, or strict liability).

***INSTALLATION AND SERVICE SHOULD BE
PERFORMED BY QUALIFIED PERSONNEL
ONLY!***

LOCATION:

The proper location is important for dependable service. The control systems should be located so as to allow free air movement into and out of the mainframe. Consideration should be given to allow the least exposure to heat, dust/dirt, moisture, and corrosive vapors. The front of the system must be readily accessible for set up and adjustment purposes.

It is recommended that a service disconnect switch be installed. This will provide a convenient means to completely disconnect all power from the temperature control system.

CONNECTING INPUT POWER:

1. Remove the input power access panel, located on the right side of the mainframe by removing the 8 phillips head screws. (Fig 1a)
2. Select input cable size and configuration based on load requirements and local electrical codes. Feed the cable through the cable clamp of the panel. (Fig 1b)
4. Strip wires and insert into the terminal block and tighten screws securely. (Fig 1a)
5. Replace the access panel.
6. Take up excess slack in the cable and secure with the strain relief clamp.
7. Route the AC input cable to a branch circuit (service) disconnect switch and connect to the fused side of the switch. Be sure the ground lead is attached to a proper earth ground.
8. Insert appropriate fuses for the main service fuse box.

Fig 1a

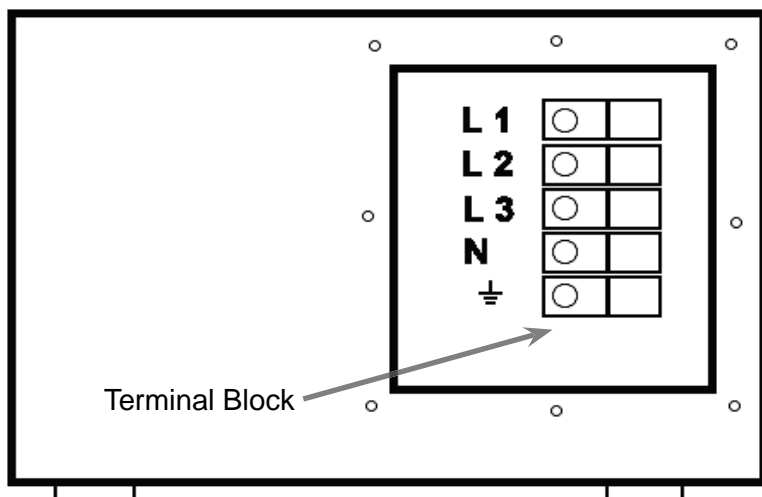
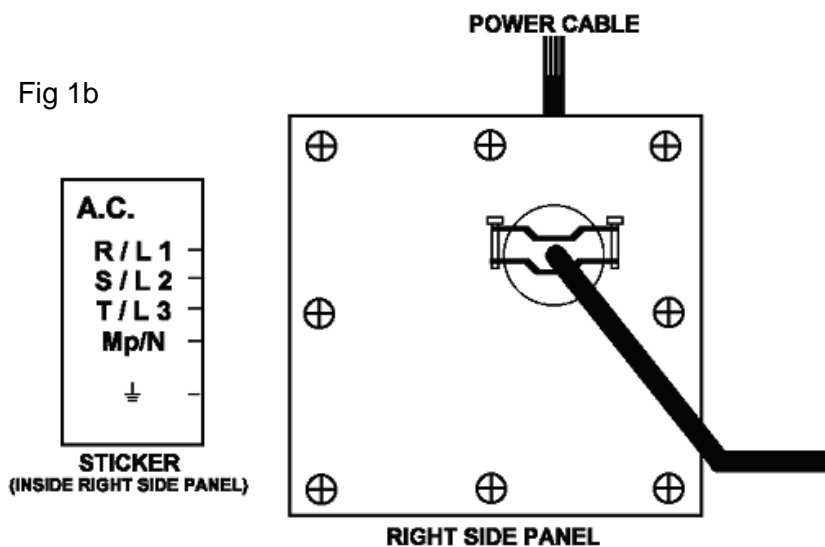


Fig 1b



Note:

Domestic: L1, L2, L3 + ground

Export: L1, L2, L3 + Neu + ground

MFCP MAINFRAMES (GTC ONLY)

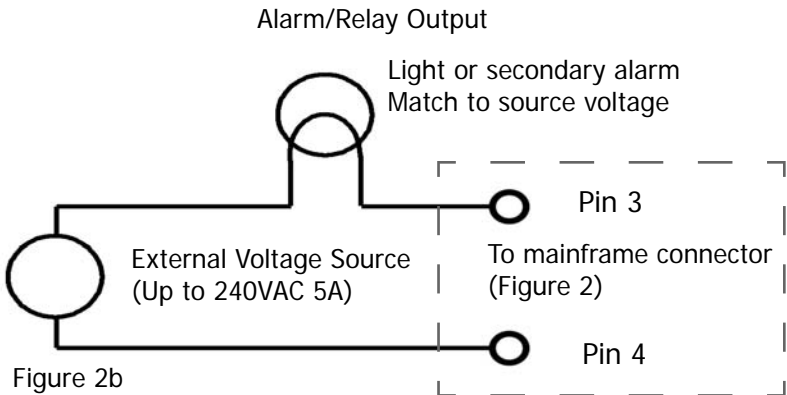
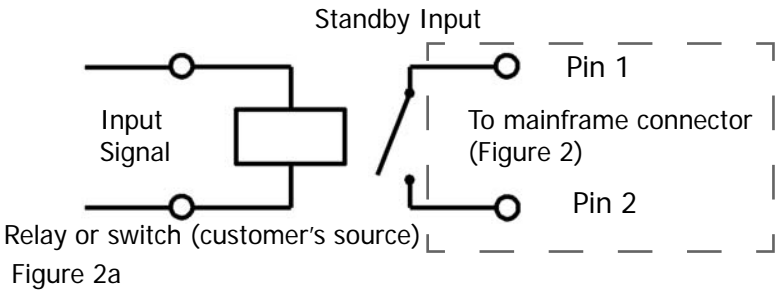
MFCP mainframes come with communication and interface board with siren, which enables global functions, grouping, thermocouple slaving, even temperature rise, and Live Swap features. External alarm relay, and remote standby interface connector is located on the right side above the power input panel. Figures 2, a, and b below shows connector and external wiring circuits needed for these functions.

Alarm/Relay Output & Remote Standby Input Connector



Figure 2

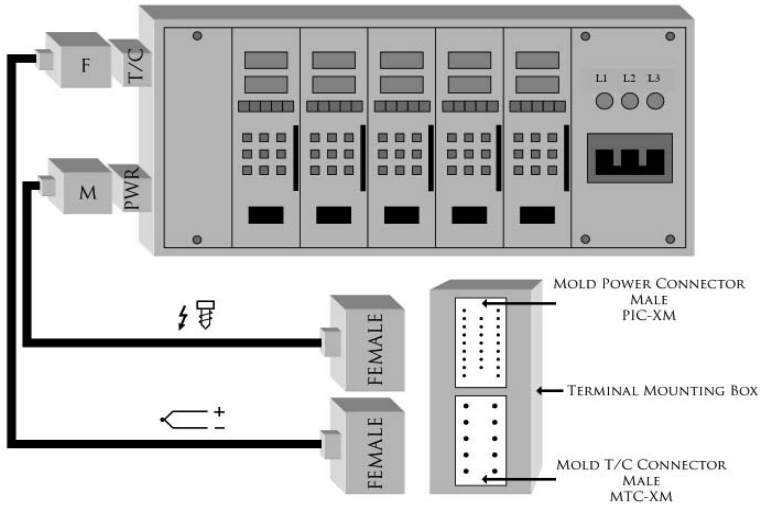
Pin #	Function
1	Remote Standby Input
2	
3	Alarm/Relay Output
4	



Typical Mainframe

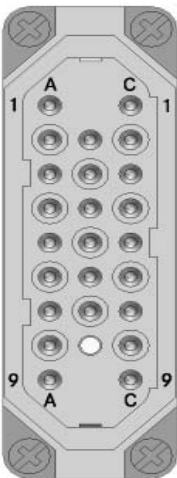
Rear or side mounted connectors

Fig. 3



POWER OUTPUT CONNECTOR PINOUT

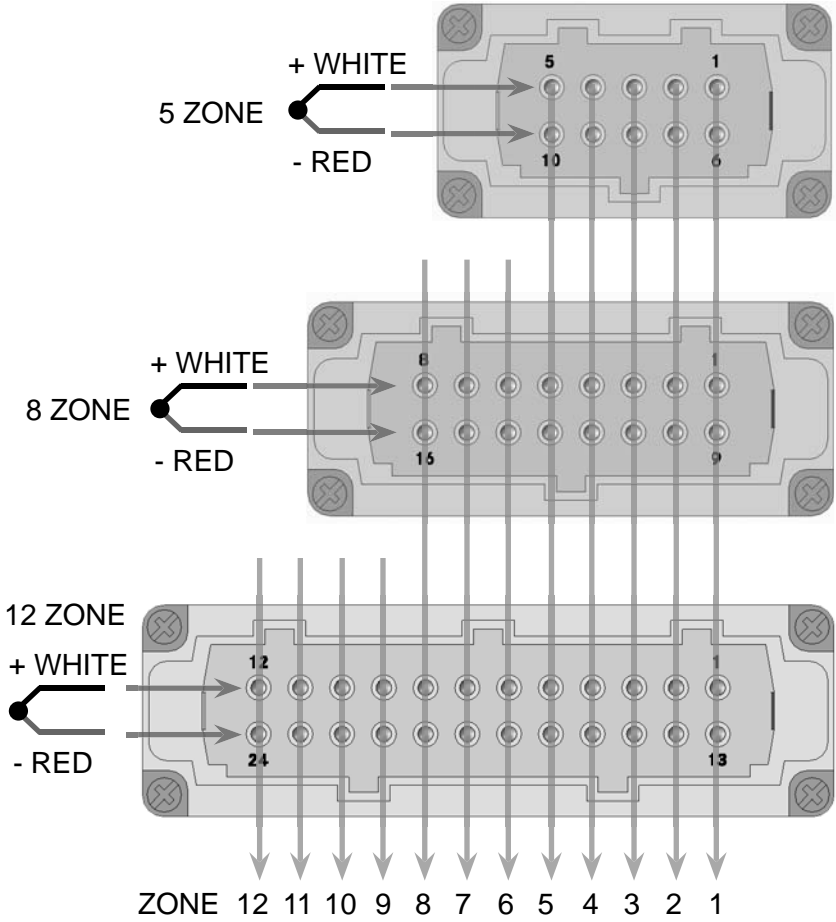
Fig. 3a



Pin	Zone	Pin	Zone	Pin	Zone
A1	Zone 1			C1	Zone 8
A2		B2	Zone 5	C2	
A3	Zone 2	B3		C3	Zone 9
A4		B4	Zone 6	C4	
A5	Zone 3	B5		C5	Zone 10
A6		B6	Zone 7	C6	
A7	Zone 4	B7		C7	Zone 11
A8		B8		C8	
A9	Zone 12			C9	Zone 12

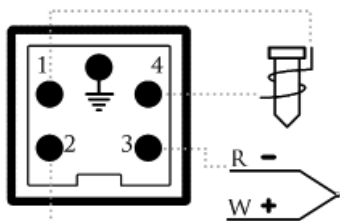
Thermocouple Connector Pinout

Fig. 3b



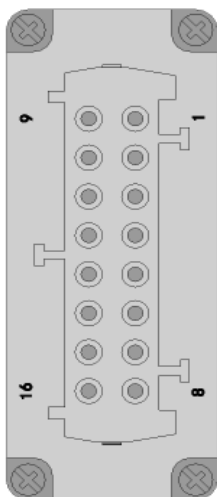
1 & 2 Zone Mainframe Power and Thermocouple Connector

Figure 8



Pin #	Function
1	Power Output
2	T/C +
3	T/C -
4	Power Output
5	GND

3 Zone Mainframe Power and Thermocouple Connector



Pin #	Function	Pin#
1	Zone 1 Power Out	9
2	Zone 2 Power Out	10
3	Zone 3 Power Out	11
4	NC	12
5	NC	13
6	Zone 1 T/C Input	14
7	Zone 2 T/C Input	15
8	Zone 3 T/C Input	16

Figure 9

Note:

1, 2, and 3 zone mainframes are wired for single phase 240VAC operation.