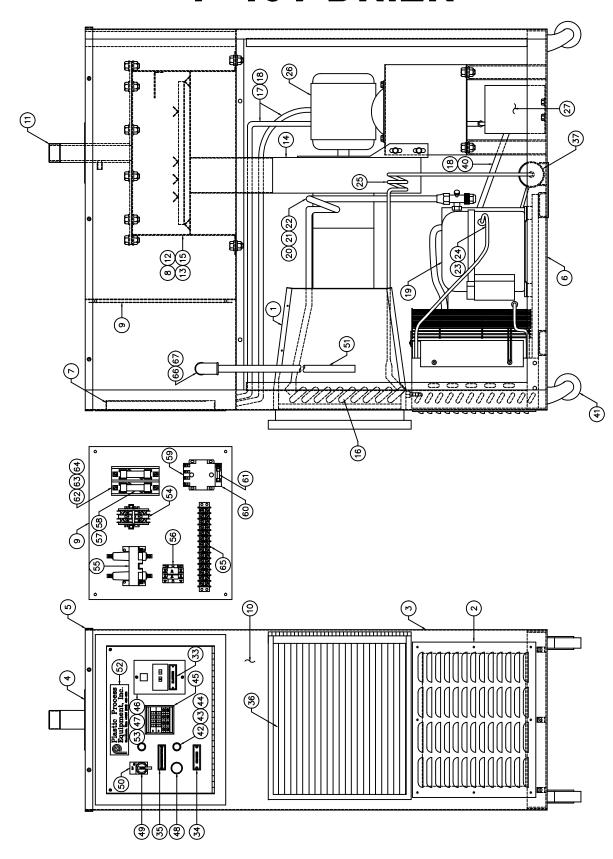
P-161 DRIER





PLASTIC PROCESS EQUIPMENT, INC.

8303 Corporate Park Drive, Macedonia (CLEVELAND), OHIO 44056 (216) 367-7000 TOLL FREE: 800-321-0562 FAX (216) 367-7022 ORDER FAX: 800-223-8305 EMAIL: SALES@PPE.COM



INSTRUCTIONS P-161 DEHUMIDIFYING **HOPPER DRYER**

MODEL NO.

P-161

SERIAL NO.



PPE Hopper Dryers are manufactured and sold direct by Plastic Process Equipment, Inc. We are not associated with any other manufacturer except Budget Molder's Supply, Inc. Always specify genuine PPE or Budget Machinery! Do not accept

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PLASTIC PROCESS EQUIPMENT, INC. www.ppe.com • e-mail: sales@ppe.com

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909-627-8511 • 800-258-8877 • Fax: 909-627-8101

PDE 11218 Challenger Avenue, Odessa, Florida 33556, U.S.A.
727-834-8888 • 800-282-6783 • Fax: 727-834-8878

SOUTH 727-834-8888 • 800-282-6783 • Fax: 727-834-8878

8303 CORPORATE PARK DRIVE, MACEDONIA (Cleveland), OHIO 44056, U.S.A.

Toll Free: USA, Canada & Mexico
16-367-7000 • Toll Free: 800-321-0562 • Fax: 216-367-7022 • Order Fax: 800-223-8305

RECEIVING

Please thoroughly inspect your hopper drier and report any damage to the motor freight carrier before uncrating for set up. They are responsible for any damage incurred during transit. Uncrate and remove protective wrap, retain information package and note unit serial number.

ELECTRICAL

CAUTION: All supply wire and electrical apparatus used must be in compliance with all local and/or national electrical codes. The model P-161 Hopper Drier control panel is completely wired with a 120 volt OSHA approved control circuit. To comply with OSHA 1910.147 Lockout/tagout the user must supply a separate fused disconnect power supply rated as follows:

For 230/60/3 operation: Use a 40 amp fused disconnect. For 460/60/3 operation: Use a 30 amp fused disconnect.

AIR HOSE CONNECTION

ALWAYS MAKE CONNECTIONS WITH HEAT TURNED

OFF. Connect air hose to outlet on top of drier. Secure with stainless steel hose clamp supplied. Repeat the same for the air dispersion cone. Locate air cone in the bottom of your material hopper and fill hopper with material.

PRINCIPLE OF OPERATION

- Energize control circuit by depressing manual starter blower switch. This will cause blower to operate, check blower rotation. This can be done simply by checking to see if air is flowing out of the discharge.
- 2) Energize dehumidifier. Pilot light will indicate dehumidifier is in operation.
- 3) Energize heater circuit. Pilot light will indicate heat coils are on. Heat circuit can function without dehumidifier operating. This circuit can only be de-energized by, (a) the Fuji control, (b) the manual starter blower switch, and (c) the hi-limit safety switch.
- 4) Set desired temperature on the Fuji control (see section on setting the control), the heat circuit and pilot light will react accordingly. NOTE: Your heater circuit is protected from runaway heats with a hi-limit safety sensor located on the heat chamber top. This device is preset at approximately 450° F at the factory and will shut down your heater circuit above that temperature. If your heating circuit is de-energized prior to reaching your temperature setting, the hi-limit switch may be out of adjustment.

SETTING THE FUJI CONTROL

The PYZ7 Fuji process/temperature control is a microprocessor based unit which allows simple finger tip control by the operator and displays both the desired setting (SV) and the actual temperature (PV) simultaneously. The control parameters have been pre set at the factory so all that is required from the user is to set the desired temperature (SV). Setting the fuji control is very simple, to set the desired temperature (SV) proceed as follows:

 Press the (^) button below whichever digit you wish to change, this will cause the digit to flash. Pushing the (^) button again will cause the digit to index up by 1, to reduce the digit by 1 press the (V) button on the far left.



- 2) Repeat step 1 for all digits.
- Once you have your desired temperature displayed correctly press the (ENT) button, this will store your setting in memory. The (PV) light will light and you are operational.

MAINTENANCE

- 1) Electrical control panel must be kept closed. Moisture and dust can affect the relay and switch performance.
- Air intake filter should be kept clean to insure adequate air flow.
- Keep area around top of cabinet and exhaust stack clean and free of objects. These areas could become extremely hot during prolonged periods of operation.

LAMP REPLACEMENT

CAUTION: To prevent injury, disconnect all power sources prior to initiating work.

- 1) Remove lens.
- 2) Push lamp inward, turn counterclockwise and remove.
- 3) Reverse procedure to install new lamp. Tighten lens securely. Lamp part number is 35F2806

TEMPERATURE CONTROLLER TROUBLE SHOOTING

- 1) Control will not operate.
 - a) If CRI is energized and L1 is not lit then proceed to step 2.
 - b) Check fuses to heaters.
 - c) Check power at control terminals.
 - d) Check hi-limit switch
- 2) Relay will not energize.
 - a) Place jumper wire across thermocouple terminals. If relay switches at room temperature, controller is operating properly.
 - b) Check all connections for tightness, Replace thermocouple if necessary.



GENERAL TROUBLE SHOOTING

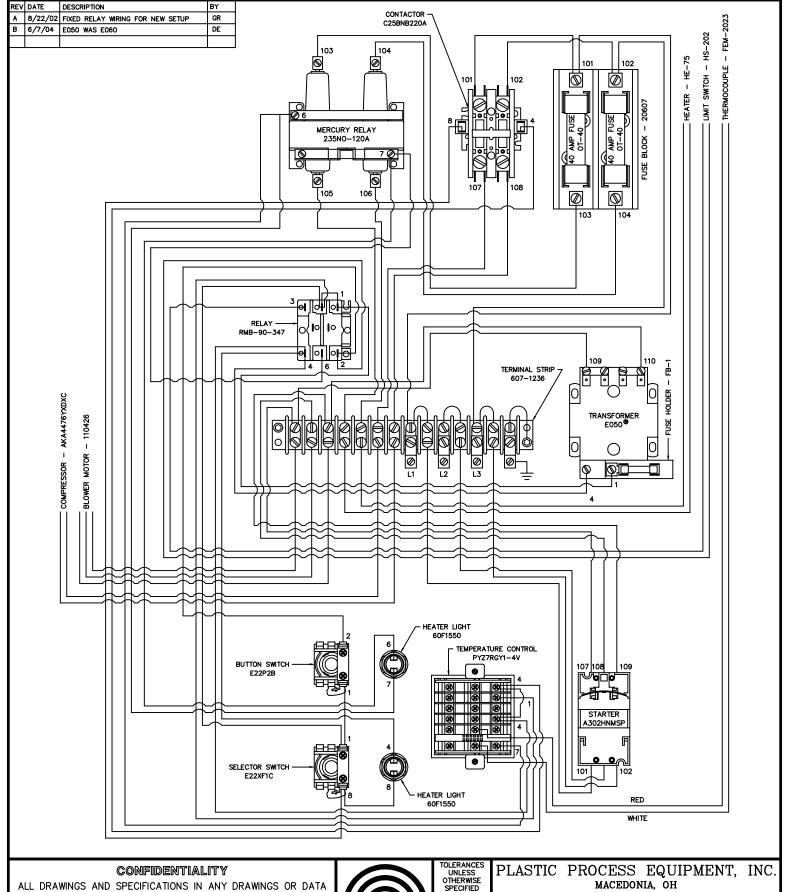
- 1) Blower fails to start
 - a) Check supply voltage
 - b) Press the manual blower start/stop button to reset and try restarting.
- 2) Dehumidifier not working
 - a) Check control circuit fuse (F3)
 - b) Check voltage to dehumidifier wires 107 & 108 230 volt, wires 110 & 111 460 volt
- 3) Heat not working
 - a) Check Fuji control desired temperature (SV) setting.
 - b) Check control circuit fuse (F3)
 - c) Check heater fuses (F1 and F2)
 - d) Check voltage between wire #2 and #4 should read 110v - if not CRI not working
 - e) Check voltage between wire #3 and #4 should read 110v - if not hi-limit switch open
 - f) Check voltage between wire #1 and #7 should read
 0v if not Fuji control not functioning correctly.
 - g) Check voltage between wires #105 and #106 should read 230v on 230v unit and 460v on 60v unit
 - h) Check heater for continuity
 - i) Check hi-limit switch, turn CCW to raise hi-limit temperature. Warning, do not set hi-limit switch above 450°F maximum temperature.
- 4) Ice buildup on evaporator/radiator unit (located behind the filter)
 - a) Check refrigeration pressure you must run the system for 1/2 hour before checking the pressure which should read 27psi at ambient temperature of 70°F with the compressor running. If system loses charge **do not vacuum system**. Check for leaks then purge with R-134-A (in accordance with all local and federal regulations) and recharge to 27psi with compressor running. The system is charged with 2 lbs. of freon.
 - b) If compressor is freezing up then system is **overcharged**.
 - c) If evaporator is freezing up then system is undercharged.
 - d) CAUTION: DO NOT LOOSEN OR REMOVE RED CAP!

WARRANTY

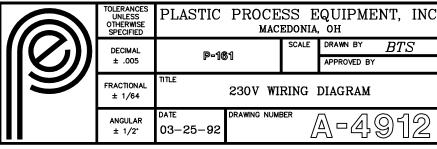
All PPE machinery is warranted to be free of defective material and workmanship for a minimum period of 1 YEAR from date of Invoice. Some machinery components may carry longer warranties per our suppliers policies which are passed on to our customers i.e., our drier compressors, conveyor motors, etc.

DEFAULT CONTROLLER SETTINGS

ITEM	MEANING	INITIAL SETTING	
Р	Proportional Band	22	
I	Integral Time (Reset)	34	
d	Derivative Time (Rate)	6.6	
TC	Cycle Time (Output 1)	7	
HYS	Hysteresis (Output 1)	1	
AT	Autotuning	0	
bAL	Balance	0.0	
Ar	Anti-reset windup	48	
LoC	Lock out	0	
P-n1	Control Action	0	
P-n2	Input Type	2	
P-dF	Input filter constant	4.0	
P-SL	Lower range of input	32	
P-SU	Upper range of input	500	
P-dP	Decimal Point Position (Resolution)	0	
PVOF	Process Variable Offset	0	
SVOF	Setpoint Variable Offset	0	
P-F	°C/°F Selection	1	
FUZY	Fuzzy Control	OFF	
dSP1	Parameter mask	49	
dSP2	Parameter mask	253	
dSP3	Parameter mask	248	
dSP4	Parameter mask	255	
dSP5	Parameter mask	129	
dSP6	Parameter mask	139	
dSP7	Parameter mask	125	



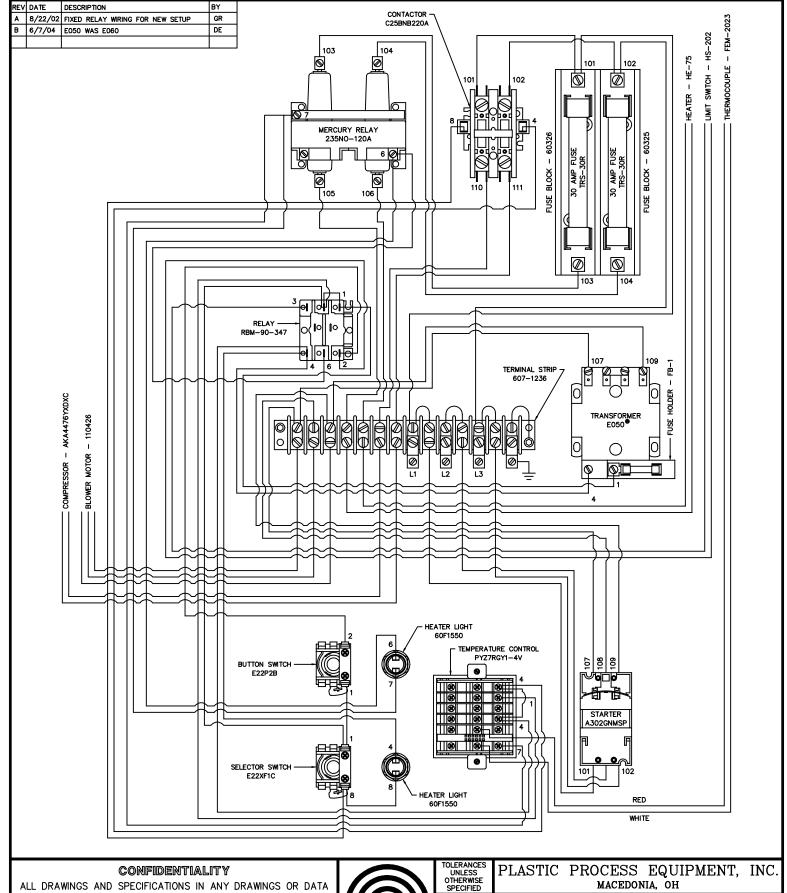
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P-161 DRIERS PARTS LIST

12/06/2010

43 60F1551 LENS FOR P-161 EA 44 96F6580 LAMP EA 45 PXR7-RGY1-4V0A1 TEMPERATURE CONTROLLER EA 46 A302HNMSP 230V MANUAL STARTER EA 47 A302GNMSP 460V MANUAL STARTER EA 48 E22P2B PUSH BUTTON SWITCH EA 49 E22XF1C SELECTOR SWITCH EA 50 E22NS105 ON/OFF TAG EA 51 10-4 NEOPRENE COVERED POWER CORD PER FT 4 COND 10GA EA 52 PPE PPE BUMPER STICKER EA 53 C799FP41 ENCLOSURE FOR P-161 EA 54 C25BNB220A CONTACTOR EA 55 235NO-120A MERCURY RELAY FOR P-161 EA 56 RBM-90-347 RELAY EA 57 OT-40 40 AMP FUSES (230V) EA 58 TRS-30R 30 AMP FUSES (460V) EA 59 E050 TRANSFORMER EA 60 FB-1 FUSE HOLDER EA 61 <	TD	12/06/201	0	
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3 D-2794 SIDE PANELS FOR P-161 P. P.				
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S				
Section				
77				
B		D-2797	BASE FRAME FOR P-161	EA
9	7	A-4463		EA
10	8	D-4547	HEATER ELEMENT HOUSING FOR P-161	EA
11	9	A-4603	COMPONENT MOUNTING PLATE	EA
12	10	D-4610	P161 CABINET NEW (extended model)	EA
13	11	A-4616	PIPE PLATE	EA
14	12	HS-202	LIMIT SWITCH	EA
15	13	FEM-2023	THERMOCOUPLE "J"	EA
16	14	4C108	BLOWER LESS MOTOR	EA
16	15	HE-75	HEATER ELEMENT	EA
17				
18				
19				
20 3/8CTUBE 3/8" COPPER TUBING PER FT 2A				
21				
22		<u> </u>		
23				
24				
25				
26	24	1/4CC	1/4" COPPER COUPLING	EA
27 53012-S	25	S862	STRAINER	EA
28 OSHA-8 HOT FLUID SIGN EA 29 HYTAG HIGH VOLTAGE TAG EA 30 PLTAG PLASTIC LOGO DECAL EA 31 PPETAG PPE SERIAL NO. TAG EA 32 DETAG DRAIN TAG P-161 EA 33 BLTAG BLOMER TAG EA 34 HETAG HEATER TAG P-161 EA 35 DETAG DEHUMIDIFIER TAG P-161 EA 36 14X16x1 PILTER 97614186 EA 37 C052-S DRIER SPORLAN CATCHALL EA 38 CN-50 CHASE NIPPLES (APPLETON) EA 40 XC290 3/8 CONNECTOR EA 41 53925 CASTERS FOR P-161 (4030-01-STL) EA 42 88F4232 BASE EA 43 60F1551 LENS FOR P-161 EA 44 96F6580 LAMP EA 45 PKF7-RGY1-4V0A1 TEMPERATURE CONTROLLER EA 47 A302	26	110426	1 HP MOTOR (460V 3PH) P-161	EA
29	27	53012-S	TRANSFORMER 2.0 KVA (460V)	EA
30	28	OSHA-8	HOT FLUID SIGN	EA
31 PPETAG	29	HVTAG	HIGH VOLTAGE TAG	EA
31 PPETAG	30	PLTAG	PLASTIC LOGO DECAL	EA
32 DRTAG DRAIN TAG P-161 EA				
BLTAG				
SA				
35 DETAG				
36				
37				
38				
39 BL-50 1/2" TIGER GRIPS				
40	38	CN-50		EA
### 41 5x925	39	BL-50	1/2" TIGER GRIPS	EA
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62 20607 GOULD FUSE BLOCK (230V) EA 63 A53TP25D SOLID STATE RELAY EA 64 60326 GOULD FUSE BLOCK 460V) FOR P-161 EA 65 607-1236 ALLIED TERMINAL STRIP FOR P-161 EA 66 2274 90 DEG CORD CONNECTOR 3/4 EA 67 BL-75 APPLETON BONDING LOCK NUT 3/4 EA	60	FB-1	FUSE HOLDER	EA
62 20607 GOULD FUSE BLOCK (230V) EA 63 A53TP25D SOLID STATE RELAY EA 64 60326 GOULD FUSE BLOCK 460V) FOR P-161 EA 65 607-1236 ALLIED TERMINAL STRIP FOR P-161 EA 66 2274 90 DEG CORD CONNECTOR 3/4 EA 67 BL-75 APPLETON BONDING LOCK NUT 3/4 EA	61	FUSE	FUSE	EA
63 A53TP25D SOLID STATE RELAY EA 64 60326 GOULD FUSE BLOCK 460V) FOR P-161 EA 65 607-1236 ALLIED TERMINAL STRIP FOR P-161 EA 66 2274 90 DEG CORD CONNECTOR 3/4 EA 67 BL-75 APPLETON BONDING LOCK NUT 3/4 EA				EA
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66 2274 90 DEG CORD CONNECTOR 3/4 EA 67 BL-75 APPLETON BONDING LOCK NUT 3/4 EA				
67 BL-75 APPLETON BONDING LOCK NUT 3/4 EA				
68 EZZBZ SINGLE CONTACT BLOCK EA				
	68	E77R7	SINGLE CONTACT BLOCK	ΕA



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