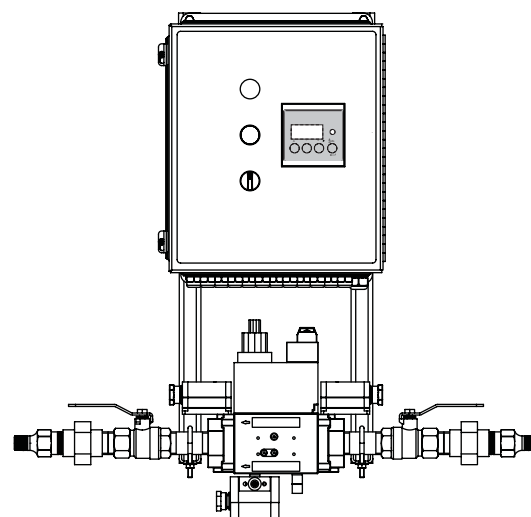


HeatPak

Packaged Burner Options

Version 1.1

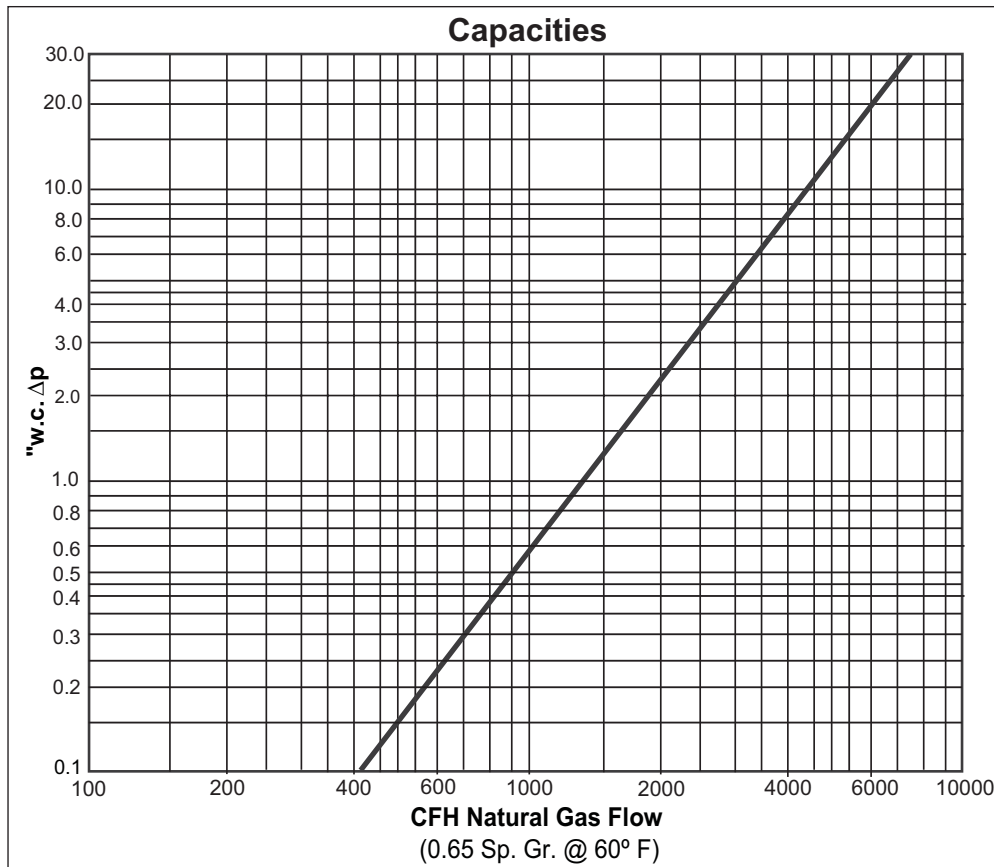
The Eclipse HeatPak is a quick, simple and reliable pre-configured, packaged system for use with Eclipse RatioMatic, ThermAir, RatioAir, Winnox, ImmersoJet, and ImmersoPak burners. Components include Dungs DMV-DLE 702 valve train with proof of closure switch, Eclipse Trilogy T420 modulating single burner monitoring system, GAO-A2 gas pressure switches, 7000V ignition transformer and a metal NEMA 12 enclosure. In order to select the HeatPak option, the desired burner must be ordered with an Eclipse Trilogy T510 Rotary Actuator, an air pressure switch and a flamerod or UV scanner. All components of the HeatPak are pre-piped and pre-wired and will be shipped assembled to the burner for a completely packaged burner system. The included burner support bracket is intended only to provide support during shipment and may not be an adequate means of supporting the HeatPak in the final installation. Customer must provide additional support. HeatPak is available for left hand or right hand burner piping options and can be supplied with upright or inverted burner configurations.



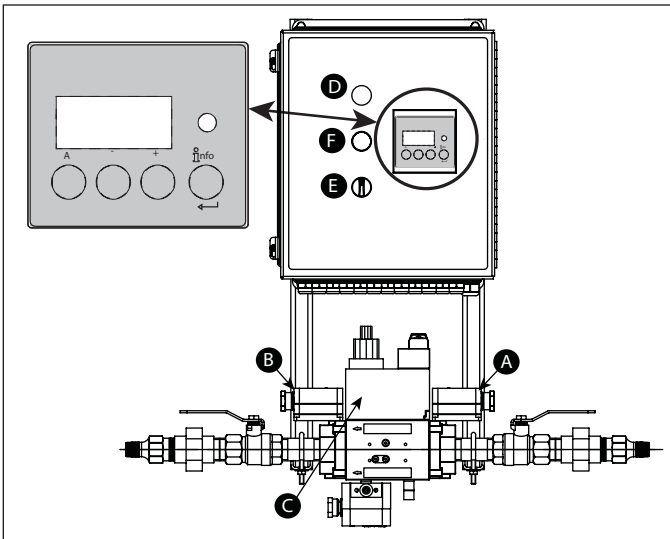
Parameter	Specifications
NPT Pipe Interfaces	1/2", 3/4", 1", 1-1/2", 2"
Maximum Operating Pressure	7 PSI
Gases	Natural Gas, Propane, Butane (for other gases, consult factory)
Gas Temperature	-40°F to 140°F
Ambient Temperature	0°F to 140°F
Ambient Environment	NEMA 12
Electrical Rating	110 to 120 VAC, 50 to 60 Hz
Power Consumption	90VA
Weight	See chart for individual models, page 3
Approvals	None, Components are UL approved, recognized or meet UL requirements

Burner/HeatPak Model Selection

Burner Model	HP Model - (Gas Train Pipe Size in Inches)				
	HP2 (1/2)	HP3 (3/4)	HP4 (1)	HP6 (1-1/2)	HP8 (2)
RatioMatic (RM)	-	050	075, 100	200, 300	400, 500
RatioAir (RA)	025	040	075, 100	200, 300	500
ThermAir (TA)	015, 025	040	075, 100	200, 300	400, 500
Winnox (WX)	-	050	100	200, 300, 400	500, 600
ImmersoJet (IJ)	-	002	003	004, 006	008
ImmersoPak (IP)	004	-	005, 006	008	010, 012

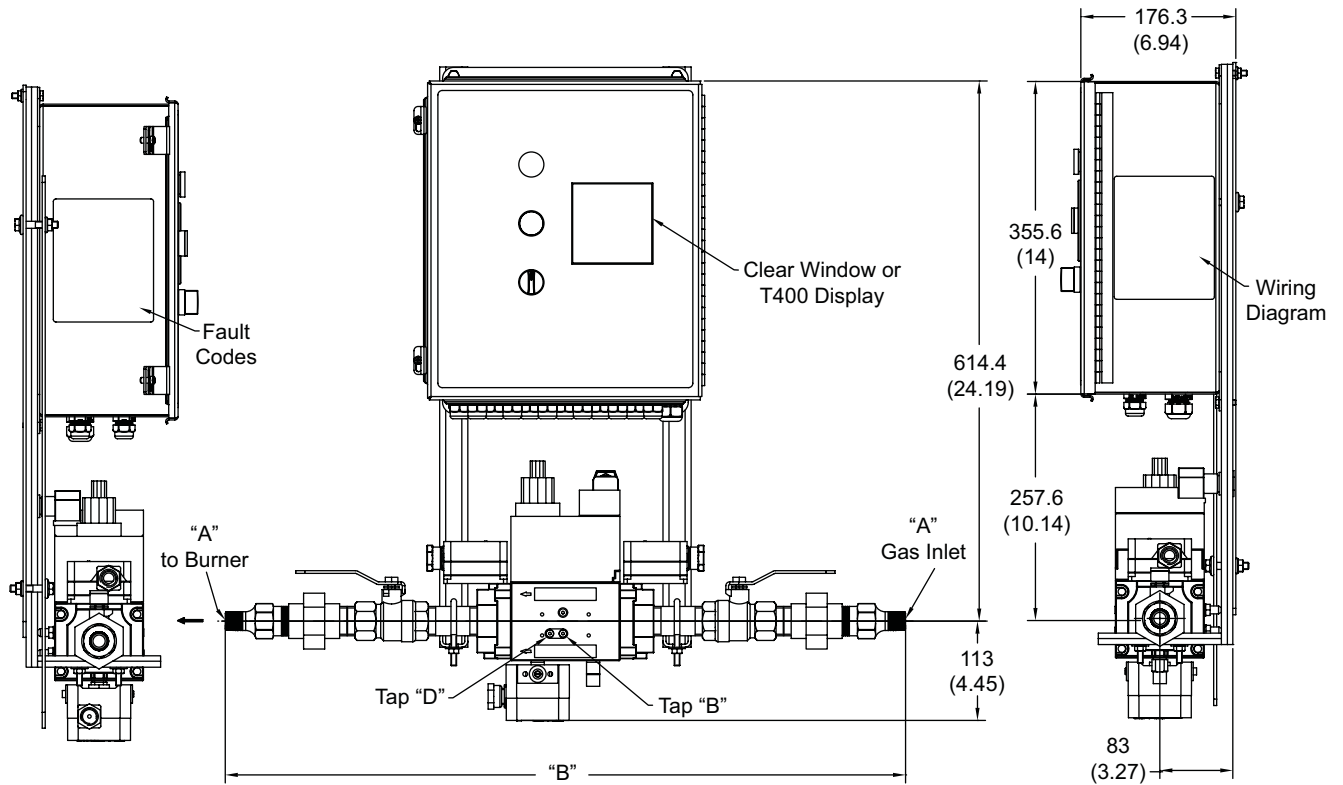


Sequence of Operation Burner / HeatPak Model Selection



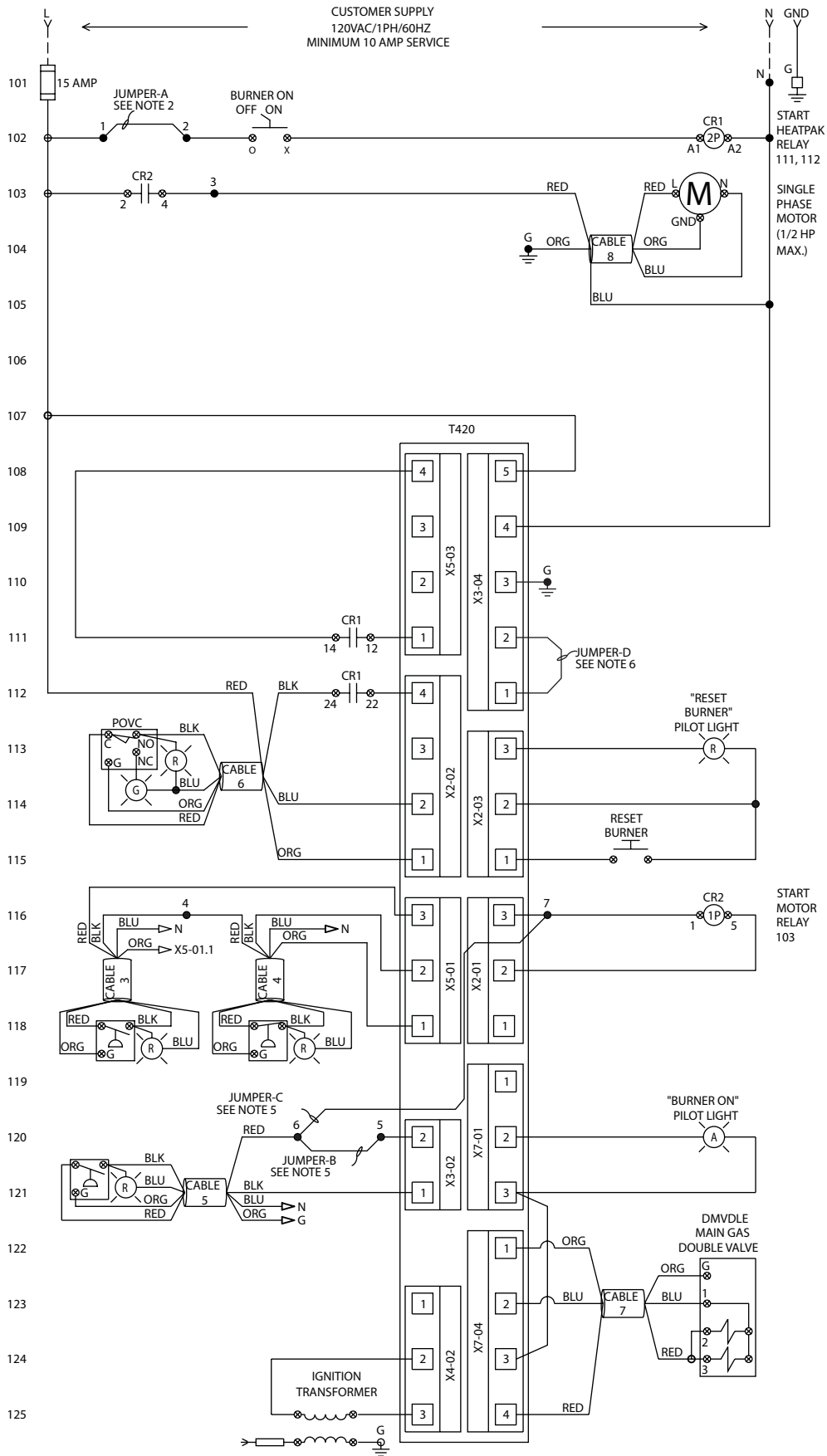
1. With power applied the Eclipse T420 displays "OFF".
2. Turn control box switch (E) "ON".
3. If customer provided interlock (or jumper D) is made, and the low (B) and high (A) gas pressure switches are made, then the T420 activates and displays "P21", proof-of-closure test.
4. The T420 energizes the motor (or motor starter) and displays "P22", fan on/air switch test, and then checks the combustion air pressure switch.
5. The T420 displays "P24", actuator to purge position.
6. The actuator rotates to purge position.
7. The T420 displays "P30", pre-purge, while purging. When purging is complete the T420 displays "P36", actuator to ignition position.
8. The actuator rotates to ignition position.
9. The spark and main gas valve (C) are energized. The T420 displays "P40" ignition, pilot on.
10. The T420 displays "P42", flame detect.
11. After a time, the "Burner On" light (D) illuminates. The T420 displays "OP", operate mode. Now the actuator will respond to a control signal (temperature controller).
12. In the event of a fault, the "Reset" lighted push button (F) illuminates. Correct the cause of the fault and then push the lighted button (F) to reset.
13. To shutdown, turn control box switch (E) "OFF".
14. The T420 displays "P72", actuator to purge position.
15. The actuator rotates to purge position.
16. The T420 displays "P74", post-purge, while timing.
17. When purging is complete the T420 displays "P10", shutdown/actuator to low position.
18. The actuator rotates to low fire.
19. When the actuator is at low position the T420 goes to standby and displays "OFF".

Dimensions mm (inches)

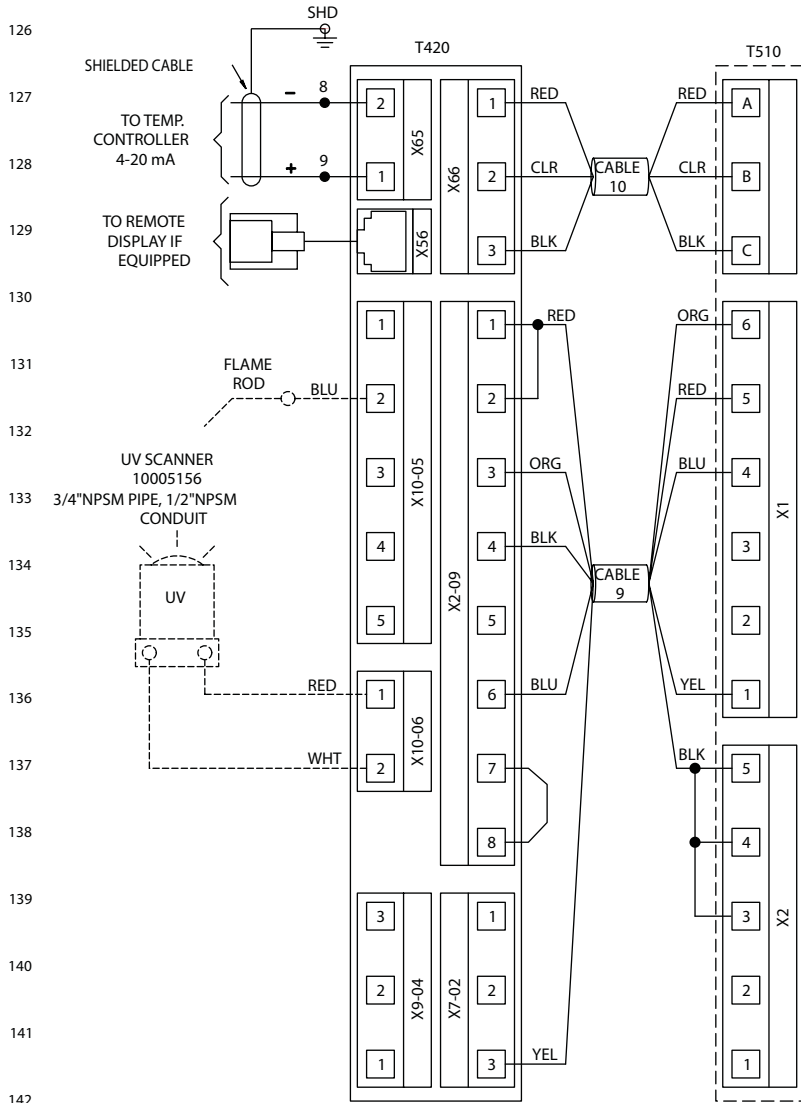


HeatPak Model	"A"	"B" in mm (inches)	Weight, kg (lbs)
HP.N-2	1/2" NPT	773.8 (30.46)	26 (57)
HP.N-3	3/4" NPT	773.8 (30.46)	26 (57)
HP.N-4	1" NPT	748.4 (29.46)	26 (57)
HP.N-6	1-1/2" NPT	888.7 (34.99)	27 (60)
HP.N-8	2" NPT	976.4 (38.44)	29 (63)

Wiring



Wiring

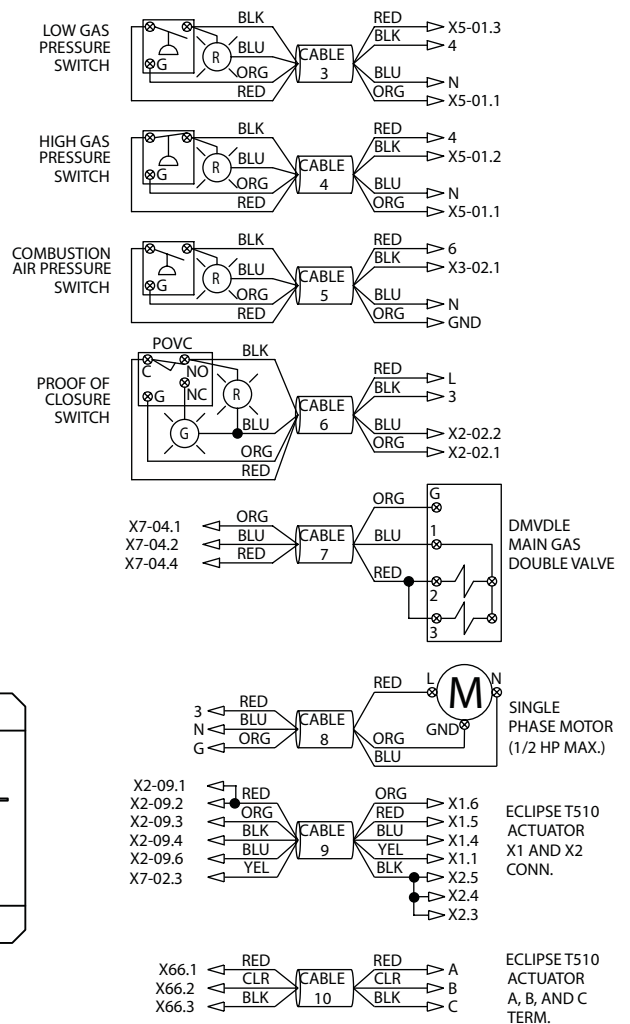


NOTES:

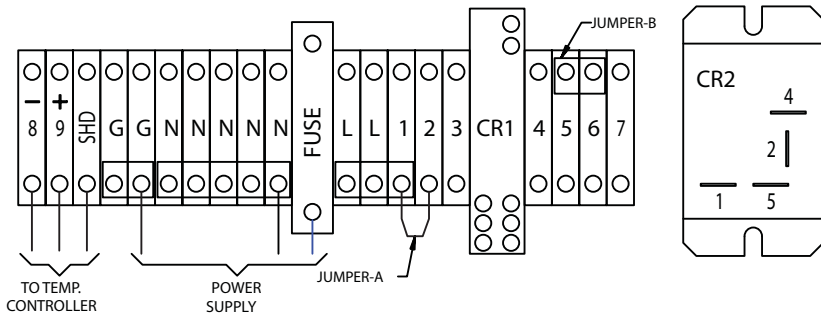
1. INCOMING POWER LINES MARKED (L & N) MUST BE CONNECTED TO THE 120VAC POTENTIAL. THE NEUTRAL (N) WIRE MUST BE BONDED TO GROUND AT ITS SOURCE.
2. EXTERNAL LIMIT CONTROL, TIMER, CLOCK OR OTHER REMOTE CONTROL DEVICE AS REQUIRED, TO BE SUPPLIED BY CUSTOMER (CONNECT BETWEEN TERMINALS "1" & "2" AND REMOVE JUMPER-A).
3. INSTALLATION, OPERATION AND MAINTENANCE SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS NATIONAL AND LOCAL CODES, AND AUTHORITIES HAVING JURISDICTION.
4. CONNECT ALL GROUND & SHIELD WIRES AND WIRE TERMINAL "G" TO GROUND STUD ON SUB-PANEL.
5. FOR REMOTE MOTOR STARTER (NOT DRIVEN BY T420 TERMINAL "X2-01.3") REMOVE JUMPER-B BETWEEN TERMINALS "5" & "6" AND ADD JUMPER-C BETWEEN TERMINALS "6" & "7".
6. FOR EXTERNAL SAFETY LOOP (TO BE SUPPLIED BY CUSTOMER) CONNECT BETWEEN TERMINALS "X3-04.1" & "X3-04.2" AND REMOVE JUMPER-D ON THE T420 FLAME SAFETY.

- KEY:**
- TERMINAL NUMBER ON ECLIPSE TERMINAL BLOCK
 - ⊗ DEVICE TERMINAL
 - PANEL GROUND LUG
 - 1 T400 TERMINAL

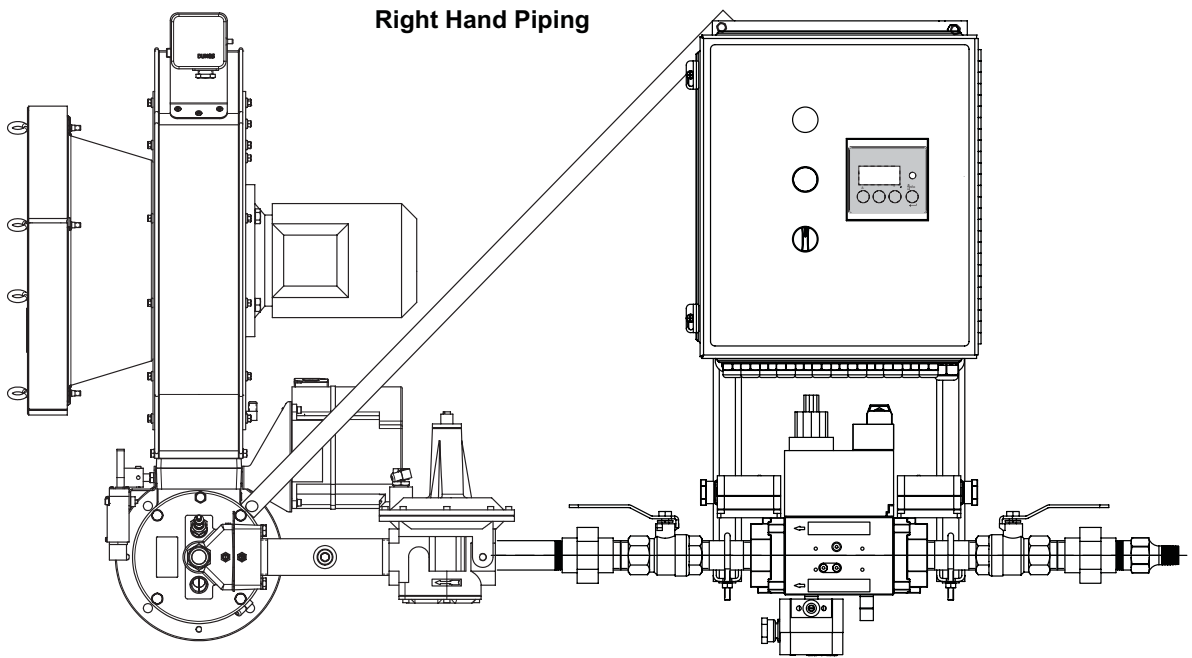
CABLE CHART



TERMINAL STRIP

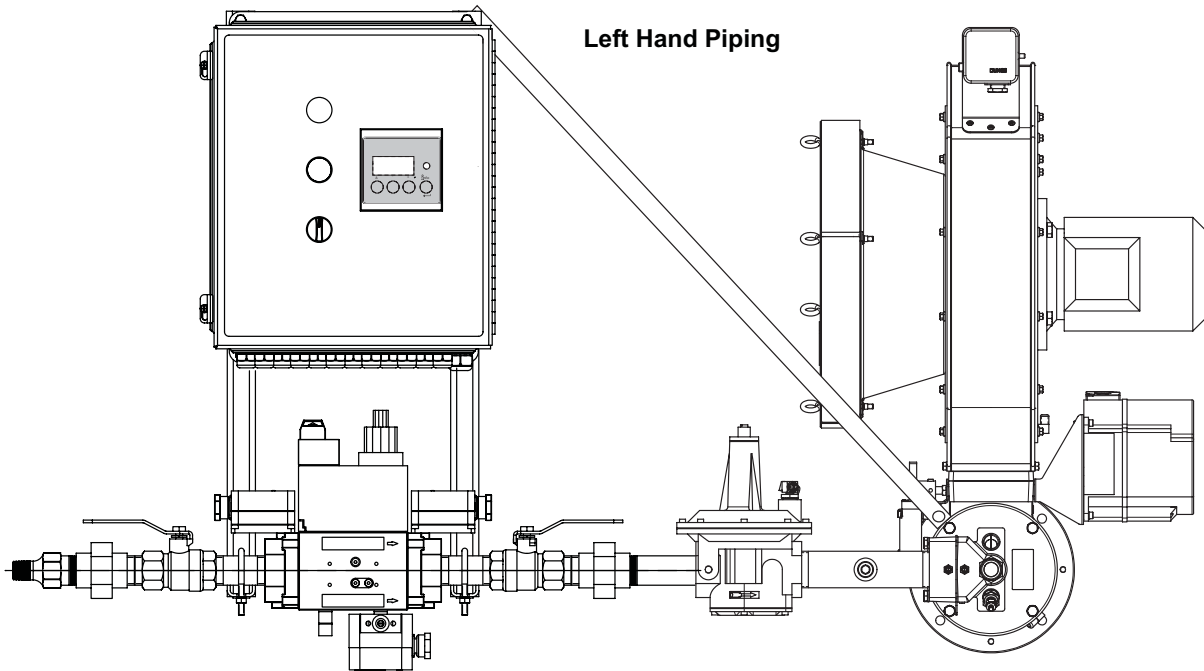


Typical Packaged Burner Arrangement



RatioAir Burner

HeatPak



HeatPak

RatioAir Burner



Offered By:

Power Equipment Company
2011 Williamsburg Road
Richmond, Virginia 23231
Phone (804) 236-3800
Fax (804) 236-3882

www.peconet.com