FUEL	MODEL SIZE	GAS VALVE			
		GV1	GV2	GV3	GV4
NAT & PRO	302	A	C (2 STG ONLY)		
	402	A	C (2 STG ONLY)		
	502	A	A		
	652	A	A		
	752	A	A		
	902	A	A	A	
NAT	992	B	B	C	
	1262	B	A	B	C
PRO	992	A	A	C	
	1262	A	A	A	C

A
HONEYWELL GAS VALVE

B
ROBERTSHAW GAS VALVE

C
SOLENOID VALVE
LOCATED BELOW IN AIR CHAMBER

SAMPLE 1262 NAT GAS
(SEE TABULATION)

INSERT –A–
ON/OFF CONTROL
POOL HEATERS

SEE INSTALLATION & OPERATION MANUAL FOR ALTERNATE STAGING OPTIONS

PUMP
WHEN PROVIDED WITH PUMP RATED OVER 3/4 HP

PUMP DATA

FACTORY	FIELD
MODEL :	
H.P. :	
AMPS:	

PUMP
IF PROVIDED

PUMP POWER THROUGH SEPARATE CIRCUIT BREAKER FROM APPLIANCE POWER (SIZE BREAKER AND WIRE ACCORDING TO PUMP REQUIREMENTS)

CONTROLLER (2 STAGE OR 4 STAGE)
OPTIONAL

TO CPW J10

OUTLET SENSOR

INLET SENSOR

RAYPAK MODULATING CONTROL

INSERT –B–

SENSORS

VDC INPUT

ENABLE/DISABLE

DHW

COM

AIR

SYS/D

(–)

(+)

SYS PUMP

E–5 ALARM W/SILENCER

RESET SWITCH

SILENCING SWITCH

RELAY

TO UDB P6 (NO)

TO CPW J5 24VR

1262 TIME DELAY 3

902–1262 TIME DELAY 2

502–1262 TIME DELAY 1

JUMPER 302–402

SOLID STATE PUMP DELAY

AIR PRESSURE SWITCH 1

AIR PRESSURE SWITCH 2

TO BUILDING MANAGEMENT SYSTEM (NORMALLY JUMPERED)

SEE TABULATION

GAS VALVES

TD3

TD2

TD1

TIME DELAY

ECONOMASTER

FLOW SWITCH

CHX FLOW SWITCH

OPTIONAL FIELD INSTALLED

JUMPER 992–1262

JUMPER 302–902

ENABLE/DISABLE

AIR PRESSURE 1

AIR PRESSURE 2

AIR PRESSURE 3

STAGE SELECTOR

STAGE 1

STAGE 2

STAGE 3

STAGE 4

PANEL SWITCH

SAFETY BOARD INTERFACE

LWCO

K1 LY2

K2 LY2

K4 LY3

DIAGNOSTICS CABLE

UNIVERSAL DIAGNOSTICS CENTER PCB

PANEL LIGHTS

PILOT DUTY

120 VAC PILOT DUTY RELAY (BY OTHERS)

RELAY CONTACT WILL CLOSE TO ENERGIZE FAN/DAMPER.
DO NOT POWER FAN MOTOR DIRECTLY!
CONNECT FAN/DAMPER PROVE SWITCHES AT J9 INTERLOCK.

FAN AND DAMPER CONNECTIONS IF NECESSARY

SAFETY VALVE

SEE INSERT –L– THRU –N– IF PROVIDED

IGNITION MODULE 1

HOT SURFACE ELEMENT

REMOTE SENSOR

IGNITION 1

UDB

LCD DISPLAY

KEYPAD

WATER FLOW SW
BLOWER AIR SW
FACTORY OPTION
EXT INTERLOCK
CWS/CWR ALARM
IGNITION LOCKOUT
REMOTE STATUS
IGN CTRL STATUS
ALARM RELAY

TO CWS/CWR BOARD (1 NO) WHEN APPLICABLE

FROM ALARM

SEE INSERT –A– THRU –B–

JUMPERED EXCEPT WHEN PROVIDED

(NC) MANUAL HI LIMIT

(NC) BLOCKED VENT

(NO) LO GAS PRESSURE

OPTIONAL (302–902)
(STANDARD) (992–1262)

(NC) HI GAS PRESSURE

OPTIONAL

200° OR 240°F AUTO HI LIMIT

OPTIONAL

LWCO (NO)
OPTIONAL

TEST SWITCH (NC)

WATER PROBE

RESET SWITCH (NC)

TO CPW (J5 P3–16)

TO UDB (P4 3–AUTO HI LIMIT)

140°F–180°F AUTO HI LIMIT

OPTIONAL

INSERT –H–
TRANSFORMER
24V CONTROLLER

24V POWER TO CONTROLLER

CAUTION: CONNECT APPROPRIATE POWER SUPPLY TO DIGITAL CONTROLLER, OBSERVE PROPER VOLTAGE REQUIREMENT.
FOR 24V USE J10 TRANSFORMER PLUG. SEE INSERT –H–
FOR 120V USE J7 CONTROL POWER PLUG

INSERT –J–

BLOWER 1

BLOWER 2

992–1262

CONTROL POWER

POWER INPUT

J10 TRANSFORMER

(CPW) CENTRAL POINT WIRING

TERMINAL BLOCK

POWER SWITCH

120V HOT (L1)
120V COM (L2)
GROUND

INSERT –L–
24V SAFETY VALVE OPTIONAL

INSERT –M–
M1/M10 OPTIONAL

INSERT –N–
G2 OPTIONAL 502–1262

NOTES:
7. CORRECT OPERATIONAL STATUS OF SAFETIES SHOWN AS ( )
6. ALL INTERLOCK SWITCHES MUST BE WIRED IN SERIES AT J9
5. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE HEATER MUST BE REPLACED, IT MUST BE REPLACED WITH ITS EQUIVALENT 105°C.
4. ☑ CHECK CONTROLS PROVIDED (WIRED AS SHOWN)
3. PUMP DELAY 10 MINUTES MAX.
2. PUMP CONTACTOR MUST BE RATED FOR APPROPRIATE PUMP SIZE.
1. USE GROUND CONNECTION PROVIDED. FAILURE TO PROVIDE PROPER GROUND MAY RESULT IN LOCK–OUT.

KEY

LOW VOLTAGE
FIELD INSTALL
LINE VOLTAGE
FIELD INSTALL
GROUND
CONNECTION
MALE/FEMALE TERMINAL CONN

BK – BLACK
BL – BLUE
BR – BROWN
GY – GRAY
G – GREEN
O – ORANGE
R – RED
V – VIOLET
W – WHITE
Y – YELLOW

CHECKED BY:	
APPROVED BY:	
ORIG E.O. 3893	12/7/06
CHG E.O. 4832	09/27/11

Raypak

WIRING DIAGRAM–HSI CPW

INPUTS: 300,000 THRU 1,260,000 BTUH

SIZE: 302B–1262B | TYPE: H/WH/P

152958 | 11

For Reference Only