BY 1-1
BURNER MANAGMENT SYSTEM

H1

Fireye YB110UV/YP100

FIREYE YB110UV YP100

L2

120 VAC, 50/60 Hz Power

L1

E

22 Reset

3

FUEL GAS PROOF OF CLOSURE ZSC 5-1

H21

13

RJ45 EXP

YP 100 Function: Terminal 10 to X = High Fire Purge, Terminal 10 to 12 = Low Fire Purge, Terminal 10 to 11 = Normal Modulation

Note: Jumper 6 to 7 on Straight Oil Burners

P

8

M

D

10

12

X

11

W

5

6

7

A

S1

S2

Baud Rate = 9600
Modbus Address = 00
Lock Settings = YES (After Testing)
DO IR LEARN = NO

Prove M-8 open = YES
Prove M-D open = YES
Post purge = 015 Sec.
M-D WAIT 10m = YES
Prove M-D TFI = YES

YP 100 Programming
Purge Time = 30 Sec.
Cover Mode = POWIN
Prove 3-P Open At Start = YES
PTFI WFTI Timing = 10/10/10/15
Terminal 6 = Interrupted Pilot

BC1
9 5
102
BURNER OFF/ON

H22

LT126 HIGH FUEL GAS PRESSURE PSH 5-1

LT126A LOW FUEL GAS PRESSURE PSL 5-1

LT126B HIGH FLUE GAS STACK TEMPERATURE TSH 1-3

LT126C COMBUSTION AIR BLOWER AUX. CONTACTS MC 4-1
3 4
132
3RA1125-1HA23-1AK6 (5.5-8 AMPS)

LOW COMBUSTION AIR PRESSURE LIMITS MADE PSL 4-1

H23 H24 H25 H26 H27

Note: Jump PSH 5-1 & PSL 5-1 if Burner is Under HC-175.

H2

LT128 G LIMITS MADE

HIGH FIRE PROOF SWITCH ZSH 4-1

LOW FIRE PROOF SWITCH ZSL 4-1

H30 H31 H32

H10 to 68 FIREYE TERM 10

H13 to 69 FIREYE TERM X

from 66 FIREYE TERM 12

from 69 FIREYE TERM 11

(OPTIONAL) MC 6-1
13
14
REMOTE FUEL OIL PUMP MOTOR STARTER CIRCUIT

MC 4-1
13 14
132
COMBUSTION AIR BLOWER MOTOR STARTER AUXILIARY CONTACT

MC 6-1
MC 4-1
A1 A2

REMOTE FUEL OIL PUMP MOTOR STARTER CIRCUIT (OPTIONAL)
NO 131
NC

COMBUSTION AIR BLOWER & FUEL OIL PUMP MOTOR
3RA1125-1HA23-1AK6 (5.5-8 AMPS)
NO 10,128,132
NC

BV 3-1 PILOT GAS VALVE

H33

IGNITION TRANSFORMER H1 H2 IT 4-1 X1 X2

BV 5-2 SECONDARY GAS SHUTOFF VALVE

BV 5-1 MAIN GAS SHUTOFF VALVE

H34 H34 to 111

LT145 R ALARM STROBE LIGHT

H35

Run scanner wiring in seprate conduit.
Cycle heater off and on once every 12 hours for nonself check scanners.

S1 S2

FIREYE UV1A6 Ultra Violet Scanner

BE 1-1
UV SCANNER

REV.	DESCRIPTION	DATE	CHKD.	APPR.	BY
A					

ISSUE DATE

WO# xx-xxx-131-531

JOB# Hxx-xxx

CUSTOMER:

DRAWING NAME:
HHW Water Heater
110 - 120 Volt Control Wiring Page 2
UT150, YB110UV/YP100, Straight Gas

HEATEC INC.
an Aztec company
P.O. BOX 72760
CHATTANOOGA, TN. 37407
PHONE (423) 821-5200
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DWN. DATE BLW 03/11/09

CHKD. DATE

APPR. DATE

DWG/PART NO. 4001907