MASCOT FT COMBI & HEAT ONLY.

QUICK START GUIDE

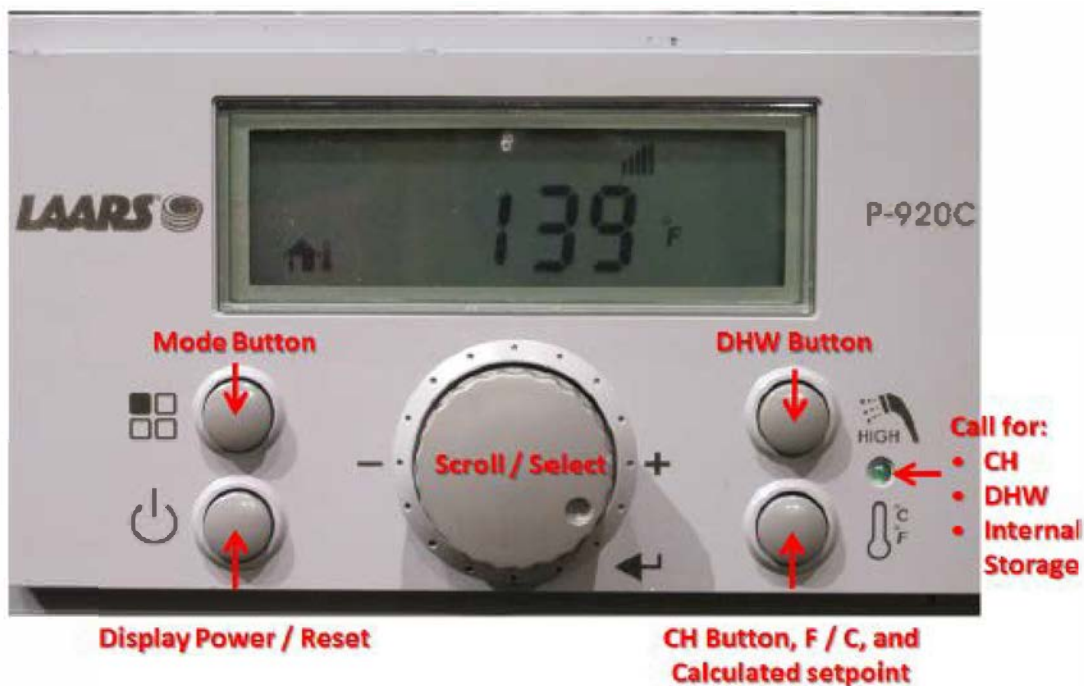**COMBI -WALL**

COMBI -FLOOR

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HEATING ONLY

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and pages 12-13

LAARS
Heating Systems Company
A subsidiary of **BRADFORD WHITE** Corporation

COMBI MODELS ONLY

Setting CH Set point

Press the CH button

Note: CH button is only active prior to connecting the outdoor sensor

You will see the CH Icon on the screen.

Use the Scroll/Select button and adjust to desired set point

NOTE: CH Set point has a 9°F (5°C) OFF Differential

When you reach the desired set point, press the Scroll/Select button to lock in your selection

To exit at the end of any step, press the Mode button.

COMBI MODELS ONLY

Setting DHW Set point

Press DHW button

You will see the DHW Icon.

Use the Scroll/Select button and adjust to desired set point.

Press Scroll/Select to lock in your selection

Setting High Temp DHW Set point

Press DHW button

Press and hold DHW button until "H" appears to adjust temperature above 120°F.
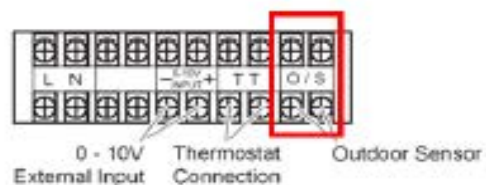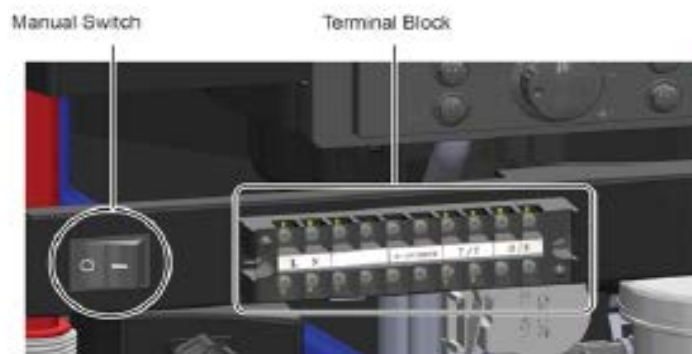

Use the Scroll/Select button to adjust the desired set point.

Press the Scroll/Select button to lock in your selection

To exit at the end of any step, press the Mode button.

COMBI MODELS ONLY

Outdoor Reset - Installer Level

Manual Switch   Terminal Block

0 - 10V   Thermostat   Outdoor Sensor
External Input   Connection

Install and connect the Outdoor Sensor to terminals marked O/S.
Then go to the **Installer Parameters** to complete the set up.

Power off the display.

Press and HOLD the Mode button until 1:EH appears.

Using the Scroll/Select button locate 6:OH

This is the Maximum Outdoor Air Temperature.

Press the select button

Scroll to the desired High Outdoor Temperature.

Press the Scroll/Select button to lock in the setting

Outdoor Reset (cont'd)

Using the Scroll/Select button locate 7:OL

This is the Minimum Outdoor Air Temp.

Press the select button

Scroll to the desired Low Outdoor Temperature.

Press the Scroll/Select button to lock in the setting

Scroll to 15:OF

This is the Warm Weather Shut Down.

Press the select button

Scroll to the desired WWSD Temp.

Press the Scroll/Select button to lock in the setting

COMBI MODELS ONLY

Outdoor Reset (cont'd)

Using the Scroll/Select button locate 16:cH

This is the Maximum CH Temp.

Press the select button

Scroll to the desired Maximum CH Temp.

Press the Scroll/Select button to lock in the setting

Scroll to 17:cL

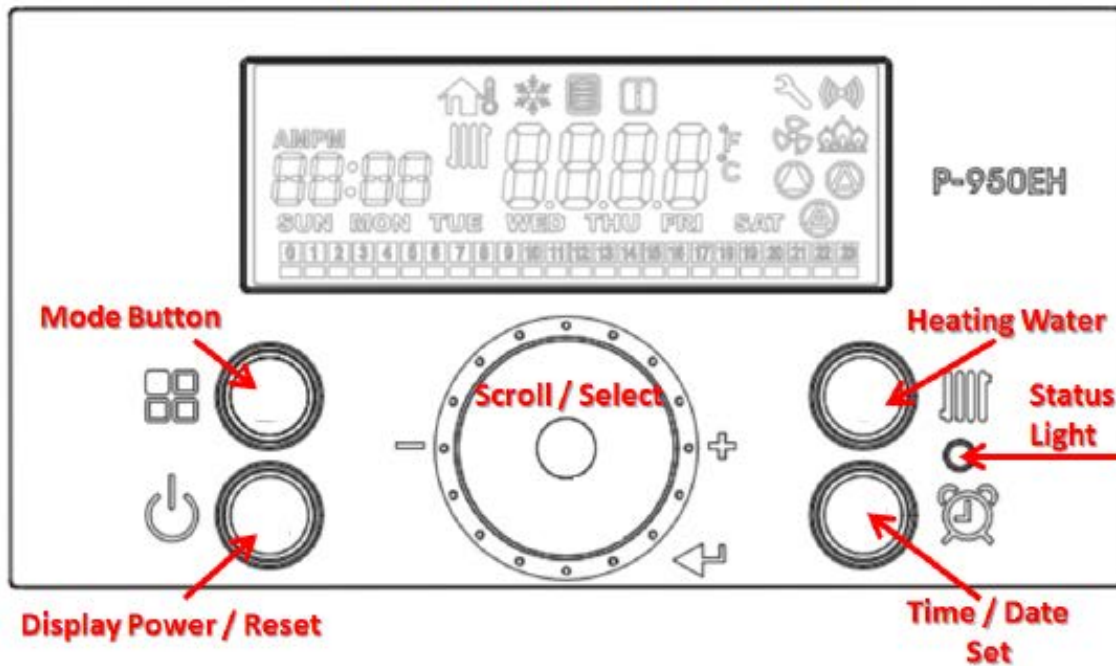This is the Minimum CH Temp.

Press the select button

Scroll to the desired Minimum CH Temp.

Press the Scroll/Select button to lock in the setting

To exit at the end of any step, press the Mode button.

HEATING ONLY MODELS

Setting CH Set point

Press the CH button

Note: CH button is only active prior to connecting the outdoor sensor

You will see the CH Icon on the screen.
Use the Scroll/Select button and adjust to desired set point

NOTE: CH Set point has a 9°F (5°C) OFF Differential

When you reach the desired set point, press the Scroll/ Select button to lock in your selection

To exit at the end of any step, press the Mode button.

HEATING ONLY MODELS

Outdoor Reset Installer Level

Manual Switch   External Power Connections   Low Voltage Connections

Install and connect the Outdoor Sensor to terminals marked O/S. Then you will need to go to the **Installer Parameters** to complete the set up

Power off the display.

Press and HOLD the Mode button until 1:EH appears.

Using the Scroll/Select button locate 4:OH This

is the Maximum Outdoor Air Temperature.

Press the select button

Outdoor Reset Installer Level

Scroll to the desired High Outdoor Temperature.

Press the Scroll/Select button to lock in the setting

Using the Scroll/Select button locate 5:OL

This is the Minimum Outdoor Air Temp.

Press the select button

Scroll to the desired Low Outdoor Temperature.

Press the Scroll/Select button to lock in the setting

Using the Scroll/Select button locate 6:cH

This is the Maximum CH Temp.

Press the select button

Scroll to the desired Maximum CH Temp.

Press the Scroll/Select button to lock in the setting

HEATING ONLY MODELS

Scroll to 7:cL

This is the Minimum CH Temp.

Press the select button

Scroll to the desired Minimum CH Temp.

Press the Scroll/Select button to lock in the setting

Scroll to 8:OF

This is the Warm Weather Shut Down.

Press the select button

Scroll to the desired WWSD Temp.

Press the Scroll/Select button to lock in the setting

To exit at the end of any step, press the Mode button.

HEATING ONLY MODELS

Setting the Clock

Press and hold the clock button for 10-15 seconds

Scroll to the correct YEAR

Press the select button to save

Scroll to the correct MON (1-12)

Press the select button to save

Scroll to the correct DATE (1-31)

Press the select button to save

Scroll to the correct HOUR (1-24)

Press the select button to save

Scroll to the correct MIN (1-59)

Press the select button to save

Scroll to the correct DAY (SUN - SAT)

Press the select button to save

To exit at the end of any step, press the Mode button.

COMBI AND HEATING ONLY MODELS

Measuring and Adjusting CO2 - Combi & Heat Only

- Turn on Gas and Water supply to the Mascot

- Remove the plug located in the vent pipe adaptor and set up your gas analyzer

CO_2 adjustments are made when the boiler is in "Min Fire"

Set DIP Switch #7 to the **ON** position to run boiler in "Min Fire"

Shown in this example are the DIP switch settings for a model 140 using Natural Gas and 3" Venting and in Normal Operation.

ON	OFF
MIN Fire	Normal Operation
MAX Fire	Normal Operation
NG Natural	LP Propane
3" Vent Size	2" Vent Size

MBH	80	100	120	140	175	199
	ON	OFF	ON	OFF	ON	ON
	OFF	ON	ON	OFF	OFF	ON
	OFF	OFF	OFF	ON	ON	ON

REFERENCE ONLY, DO NOT CHANGE

DIP Switch Settings

For details, reference Section 4.18 or 4.19 of your Installation and Operating Manual.

COMBI AND HEATING ONLY MODELS

Adjust CO2 using 4mm allen wrench at cap screw on gas valve

- Natural Gas 8% - 10% Min Fire
- Propane Gas 9% - 10.5% Min Fire

- Once you have measured and adjusted CO2 in "Min Fire"
- Set DIP Switch #7 to OFF and #6 to ON
- This will fire the boiler at "Max Fire"

DO NOT MAKE ADJUSTMENTS IN MAX FIRE

If "Max Fire" is too low you will need to go back to "Min Fire" and adjust to bring CO^2 up
If "Max Fire" is too high you will need to go back to "Min Fire" and adjust to bring CO^2 down

ON	OFF	#
MIN Fire	Normal Operation	7
MAX Fire	Normal Operation	6
NG Natural	LP Propane	5
3" Vent Size	2" Vent Size	4
Do Not Touch	Normal Operation	3
Do Not Touch	Normal Operation	2
Normal Operation	Do Not Touch	1

Once the CO^2 has stabilized and is within the specification, set all DIP Switches to the proper position according to the table.

Remove all test equipment and replace boiler cover

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COMBI -WALL

COMBI -FLOOR

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