Trinity Tx51-151
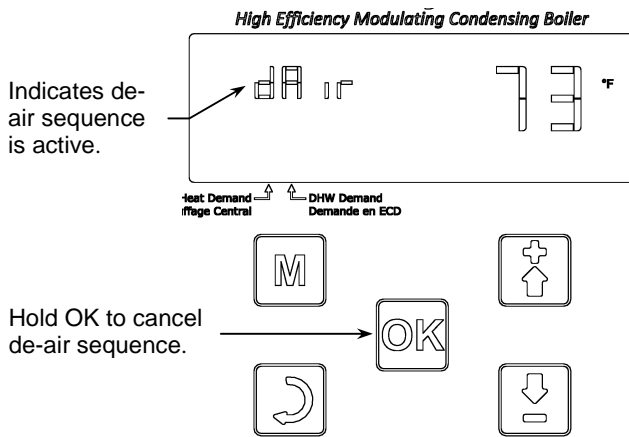## DISPLAY OPERATING GUIDE

⚠ **WARNING** These instructions are to be used as a guide only; prior to operating the boiler the installer must follow the instructions detailed in the Installation and Operating Instructions included with the boiler. Failure to follow the Installation and Operating Instructions may result in property damage, personal injury or death.
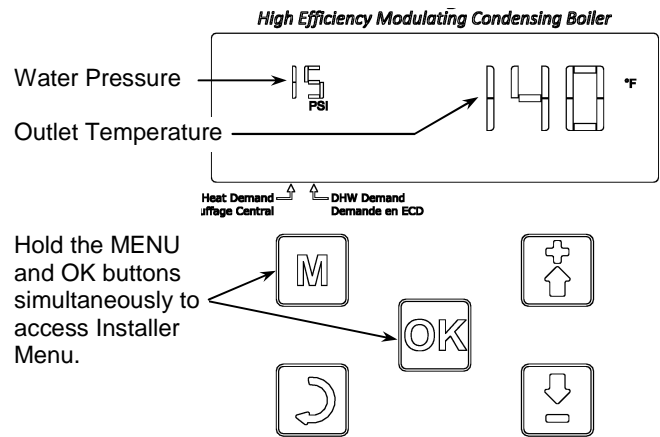
⚠ **WARNING** The de-air sequence is designed to remove air from the system, it should be permitted to complete at least one cycle; each cycle lasts approximately 7 minutes. Failure to adequately remove air from the system can damage the heat exchanger and void the warranty, and may lead to property damage or personal injury.

Set-up - The following instructions provides the installer with the basic steps necessary to setup the controller for most applications; refer to the Installation and Operating Instructions provided with the boiler for more details.
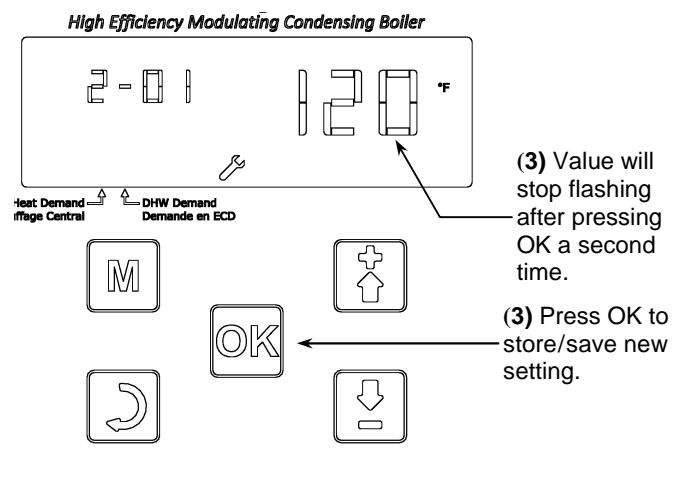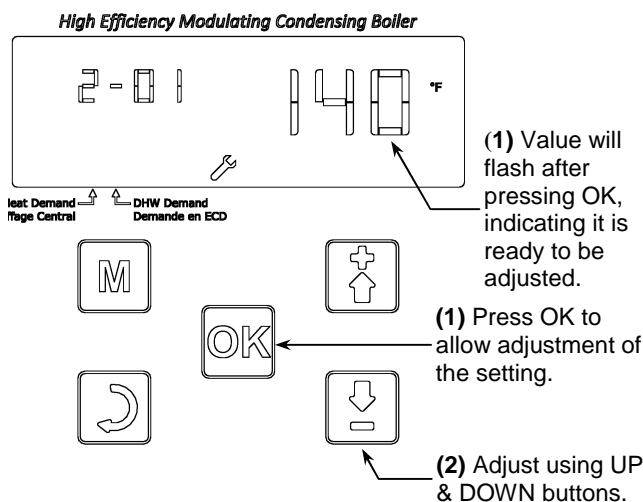
STEP 1 – AIR PURGE: Turn the power on and allow the controller to perform the de-air sequence to purge air from the boiler; this sequence is performed each time the power is turned on; it can be skipped by holding the OK button.

High Efficiency Modulating Condensing Boiler

Indicates de-air sequence is active.

dA ir   73 °F

Heat Demand / Chauffage Central   DHW Demand / Demande en ECD

Hold OK to cancel de-air sequence.

M   OK   ↑   ↓

STEP 2 – ACCESS INSTALLER MENU: Access the Installer Menu by pressing and holding the MENU and OK buttons at the same time until 2-01 is displayed in the top left corner of the display – see STEP 3.

High Efficiency Modulating Condensing Boiler

Water Pressure → 15 PSI   140 °F ← Outlet Temperature

Heat Demand / Chauffage Central   DHW Demand / Demande en ECD

Hold the MENU and OK buttons simultaneously to access Installer Menu.

M   OK   ↑   ↓

STEP 3 – COLD WEATHER CH SETPOINT (at 0°F): The first Installer Menu setting is 2-01, cold weather CH setpoint; default setting = 140°F. Modify setting by pressing OK, at which time the value will blink repeatedly indicating it is ready to be adjusted. Adjust setting using the UP and DOWN arrow buttons (UP to increase and DOWN to decrease). Once the desired value is displayed, save it by pressing OK, at which time the value will stop blinking. *Note: set value according to the heating system needs, e.g. 100-120°F (infloor); 140-160°F (cast-iron); 160-190°F (baseboard).*

High Efficiency Modulating Condensing Boiler

2-01   140 °F

Heat Demand / Chauffage Central   DHW Demand / Demande en ECD

M   OK   ↑   ↓

(1) Value will flash after pressing OK, indicating it is ready to be adjusted.

(1) Press OK to allow adjustment of the setting.

(2) Adjust using UP & DOWN buttons.

High Efficiency Modulating Condensing Boiler

2-01   120 °F

Heat Demand / Chauffage Central   DHW Demand / Demande en ECD

M   OK   ↑   ↓

(3) Value will stop flashing after pressing OK a second time.

(3) Press OK to store/save new setting.

STEP 4 – WARM WEATHER CH SETPOINT (at 70⁰F): Press the UP button to advance to Installer setting 2-05, warm weather CH setpoint; default setting = 95⁰F. Adjust setting as described in STEP 3. *Note: set value according to the heating system needs, e.g. 70-90⁰F (infloor); 100-120⁰F (cast-iron); 110-140⁰F (baseboard).*

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2-05   95 °F

Heat Demand / Hauffage Central   DHW Demand / Demande en ECD

M   OK   (up)   (down)   (reset)

(1) Value will flash after pressing OK, indicating it is ready to be adjusted.

(1) Press OK to allow adjustment of the setting.

(2) Adjust using UP & DOWN buttons.

High Efficiency Modulating Condensing Boiler

2-05   80 °F

Heat Demand / Hauffage Central   DHW Demand / Demande en ECD

M   OK   (up)   (down)   (reset)

(3) Value will stop flashing after pressing OK a second time.

(3) Press OK to store/save new setting.

STEP 5 – DHW SETPOINT: By pressing the UP button, advance to Installer setting 2-07, DHW setpoint; default setting = 136⁰F. Adjust setting as described in STEP 3 above. *Note: set value according to the application needs, e.g. 120-140⁰F (Combi boiler or tank sensor); 170-190⁰F (tank thermostat).*

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2-07   136 °F

Heat Demand / Hauffage Central   DHW Demand / Demande en ECD

M   OK   (up)   (down)   (reset)

(1) Value will flash after pressing OK, indicating it is ready to be adjusted.

(1) Press OK to allow adjustment of the setting.

(2) Adjust using UP & DOWN buttons.

High Efficiency Modulating Condensing Boiler

2-07   180 °F

Heat Demand / Hauffage Central   DHW Demand / Demande en ECD

M   OK   (up)   (down)   (reset)

(3) Value will stop flashing after pressing OK a second time.

(3) Press OK to store/save new setting.

STEP 6 – DHW MODE: Press the UP button to advance to Installer setting 2-08, DHW mode; default setting = 2 (5 for Combi). Adjust setting as described in STEP 3. *Note: set value according to the application needs, e.g. choose 1 when using a tank sensor; choose 2 when using a tank thermostat; choose 5 for a Tx132C/151C Combi.*

High Efficiency Modulating Condensing Boiler

2-08   2

Heat Demand / Hauffage Central   DHW Demand / Demande en ECD

M   OK   (up)   (down)   (reset)

(1) Value will flash after pressing OK, indicating it is ready to be adjusted.

(1) Press OK to allow adjustment of the setting.

(2) Adjust using UP & DOWN buttons.

High Efficiency Modulating Condensing Boiler

2-08   1

Heat Demand / Hauffage Central   DHW Demand / Demande en ECD

M   OK   (up)   (down)   (reset)

(3) Value will stop flashing after pressing OK a second time.

(3) Press OK to store/save new setting.

To return to Main Screen, hold the RESET button until the screen changes.