Rinnai

## PERFORMANCE DATA

To Obtain Performance Data:

1. Press and hold the $\mathbf{V}$ (Down) button.

(1):

Use the $\boldsymbol{\Delta}($ UP) and $\boldsymbol{\text { and }}$ (Down) butions to ccroll to the desired
peeformance information described below.


Defaut display is isza

- depends on connectio


## PARAMETER SETTINGS

To Adjust the Parameters:


Use the $\mathbf{\Delta}$ (U) and $\mathbf{V}$ (Down)
(See Parameter Settings Table).


Once the desired seting number is selecteded use the "OO/Off" button on the
controlerer to changet e selectection for the setinn number. Controlerer to change the selection for the seting number.
Exampe: ispoy w will change from O1A to o 1 tb tor Maximum
To exit the parameters, press the "A" button on the PC board for 1 second

## Parameter Settings Table

| $\stackrel{\substack{\text { Sering } \\ \hline}}{ }$ | SEECTINGG | SELECTION |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| $\square$ | $\underset{\substack{\text { Maximum Set } \\ \text { Temperature }}}{\text { asem }}$ | Residential | ${ }_{\text {Residential }}^{\text {cel }}$ |  |  |
| $\square$ | $\begin{gathered} \text { High Altitude } \\ \text { (Installation Loca- } \\ \text { tion) } \end{gathered}$ | (o-2000f) | $\begin{array}{\|l\|l\|} \hline 2,001-5,400 \mathrm{tr} \\ (610-1,64 \mathrm{~m}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 5,401-7,700 \mathrm{ft} \\ (1,646-2,347 \mathrm{~m}) \end{array}$ | $\left\|\begin{array}{l} 7,701-10,200 \mathrm{ft} \\ (2,37-3,109 \mathrm{~m}) \end{array}\right\|$ |
| 03 | Service Soon ${ }^{1}$ | Disabled | 0.5 vear | 1 Vear | 2 Vears |
| $\square^{84}$ | Recirculation Settings | Reciriculation | Reitalation | Recirculation <br> Crossove |  |
| 05 | ${ }_{\substack{\text { Recircualion } \\ \text { Mode }}}^{\text {a }}$ | Economy | Comfort | Commercial ${ }^{\text {b }}$ |  |
| 07 |  | 2 | 1 |  |  |
| 10 | ${ }_{\text {fasias }}^{\text {frape) }}$ | N6 | LPG |  |  |
| " | ${ }_{\text {Maximum }}^{\text {Rate }}$ Fiow | Standard | High |  |  |
| 12 | er Heater | Without Pump | ${ }_{\text {With fump }}^{\substack{\text { (RUR) }}}$ | $\mathrm{W}_{\text {(RSC) }}^{\substack{\text { (Ritump }}}$ |  |
| 13 |  | ${ }_{(1239)}^{1937}$ |  | ${ }_{(2500}^{1650}$ |  |
| 14 | ble) | (interal | (Exteral) |  |  |
| $15^{6}$ | $\begin{gathered} \text { Low Activation } \\ \text { Mode } \end{gathered}$ | on | off |  |  |
| 15 | Pump Speed | Max | Low |  |  |
| 17* | First Day Pump Operation | Pump off | Pump on |  |  |





- Comfort mode cycles the pump
temeratur emain higer but
${ }^{3}$ BMs $=$ Building Management System

4 Selecting "High"" will increanenset the wemer flow rate to the maximum capacity.
"Commercial mode should not be used for residentia




## ELECTRICAL DIAGNOSTICS

NOTE: Wiring diagram is available in manual and on the inside front cover. Important Safety Notes
Important satety Notes
There are a number of live) tests reauired when performing electrical
diagnostics on this product proced diagnostics on this product. Proceed with caution at all times to avoid contax
with energied components inside the water heater. Only trained and with energized components inside the water heater. Only trained and
qualified service technicians should attempt to repair this product. Before cuanfed servie technicins shold
checking for resistance readings, isconnect the power source to the unit and
isolate the item from the circitit (unplug it) isolate the item from the circuit (unplug it).
Frezze Protection
This unit
as streeze
This unit has freeze protection heaters mounted at different points to protect
the water heater from freezing. All of them should d display a positive the water heater fro
resistance reading.
Flame Rod
Place one lead of your meter to the flame rod and the other tog ground. With
the unit running you should read between $5-150$ vac. Set your metert the the the unit running you should read between $5-150 \mathrm{VAC}$. Set your meter to the
micro ( $\mu$ ) amp scale and a arange meter leads in line with the flame rod. You miro ( $($ ) amp scale and a range meter eads
should read 1 ine with or greate for proper flame ircuit. In the e event of low flame circuit, remove the flame rod and check for carcbibn or or damage. The Amp fuses
Amp Fuses
This unit has two glass fuses located on the PC Board, one inline ( 10 ) amp and one (4) amp glass fuse. Remove the fuses and dheck continuity through it. If you have continuity through each fuse then it it functioning. Otherwise the fuse is
Thiown a
Thers
Thermistors
Check kill thermistors by inserting meter leads into each end of the thermistor
 the thenmistor buib should decrease the resistance. Appling ice to the
thermistor bulb should increase the resistance.
Below are examples of typical temperatures and resistance readings.


Electrical circt $221^{\circ} \mathrm{F}$


## DIAGNOSTIC CODES

## To Display Diagnostic Codes:

## Visit www.rinnai-Ims.com for additional troubleshooting resources




