# Rinnai

## ERFORMANCE DATA

## To View Performance Data:

- Press and hold the (Down) button for two seconds (Fig 1). While holding the (Down) button, press
- and hold the "Domestic Hot Water" (DHW) button (hold both buttons at the same time) Use the (Up) and (Down) buttons

(Fig 2) to scroll to the desired information

To exit performance data, repeat step 2 above.

- described in Table 1(A). Performance Data. The data for the performance number
- automatically appears in the display (Fig 3).

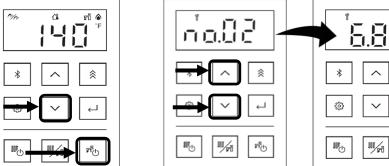


		Table 1(A). Performance Data
1	1	# Data
na.02   <del> </del>		₩ Water Pressure
		Supply Temperature
		Return Temperature
		Freeze Protection Temperature
		Exhaust Temperature
		# Fan Frequency
		■ Venturi Position
		■ Venturi Cycles
		Pump Cycles
		Pump Hours
Wo   Write   right		Pump for Boiler
Fig 2. "Up" and "Down" Buttons	Fig 3. Data Appearing in Display	Pump for System (Pumps 1-3) See Table 1(B) to right for more information.
rig 2. Op una bown battons		

CN6

Unit	# Data	Unit	Table 1(B). Pum	p for Systen	า (1-3)
PSI/bar <sup>1</sup>	Pump for System (Pump 4)	0=OFF, 1=ON	Pump	for System	(1-3)
°F/°C¹	Indirect Tank Thermistor Temperature	°F/°C¹		•	i i
°F/°C¹	Outdoor Temperature	°F/°C¹	System Pump	ON	OFF
°F/°C¹	Secondary System Temperature	°F/°C¹	Pump 1	1	0
°F/°C¹	4□ Energization Hours	x100			
Hz	Combustion Hours	x10	Pump 2	1_	0_
0=Closed, 1=Open	Combustion Cycles	x100			_
x100	45 Commissioning Cycles	x1	Pump 3	_1	_0
x100	<sup>1</sup> See "Units of Measurement" section to rig	ht.	l l		
10	1				

Ν	Pump	for System (	[1-3]
	System Pump	ON	OFF
	Pump 1	1	0
	Pump 2	1_	0_
	Pump 3	_1	_0

## **Units of Measurement**

1. Press the "Settings" button. 2. Press the (Up) or (Down) arrows to select a unit of measurement (refer to Table 2).

Table 2. Units of Measurement

Units of Measurement	Temp.	Water Flow	Pressu
1: English	°F	gal/min	psi
2: Metric	°C	L/min	bar

### **DIAGNOSTIC CODES** To Display Diagnostic Codes: Table 6. Error Reset Venturi Control (150), High Exhaust Temperature (540), and Freeze Issue (890) can be reset by shutting down power to . Press and hold the "DHW" button for two wer Reset seconds and then the 📤 (Up) button Venturi (170) and Solenoid Valve (520) allow only interlock reset. Please call Rinnai Technical Support. simultaneously (Fig 9). erlock Reset The last nine maintenance codes display and

Other error can be reset by Indirect Tank "On/Off" button or "Central Heating" (CH) button. ther Reset

Table 3. Diagnostic Points					
COMPONENT	WIRE COLOUR	VOLTAGE	RESISTANCE	PCB Connector	PCB PIN
Power Supply	Black-White	AC108∼132V	N/A	CN200	1-3
Flame Rod	Yellow(Black)-Body	more than 0.5VAC	N/A	CN7	17
Spark Electrode	White-Black	11~14VDC*	N/A	CN8	2-3
	Red-Black	7~48VDC*	N/A	CN7	18-19
Combustion Fan	White-Black	2~14VDC*	N/A	CN7	16-18
	Yellow-Black	11~14VDC*	N/A	CN7	17-18
	Blue-Blue	N/A	33~43Ω	CN11	1-2 3-4
	Blue-Black	11~14VDC		CN11	1-9
Venturi Control Device	Black-Black	Close Position: less than 1VDC Open Position: 4-6VDC	N/A	CN11	6-7
	Gray-Black	Close Position: 4-6VDC Open Position: less than 1VDC		CN11	5-7
Gas Solenoid Valve	Yellow-Black	11∼14VDC型	15~25Ω	CN8	11-12
Exhaust Thermistor	White-White		59°F: 11.4-14kΩ	CN7	3-6
Heat Exchanger Thermistor	White-White		86°F: 6.4-7.8kΩ 113°F: 3.6-4.5kΩ	CN7	6-11
Supply Thermistor	White-White		113 F : 3.6-4.5ΚΩ 140°F : 2.2-2.7kΩ	CN7	5-14
Return Thermistor	White-White	N/A	221°F: 0.6-0.8kΩ Disconnect the connector and measure at thermistor side.	CN7	8-10
Freeze Protection Thermistor	Black-Black		32°F: 38k~43k 50°F: 22k~26k 68°F: 14k~17k Disconnect the connector and measure at thermistor side.	CN7	7-14
	White-Grey	AC108∼132V		CN202	1-2
Transformer	Red-Red	AC20~30V (possible to measure at Output terminal as substitute position)	N/A	CN202	3-4
Overheat Switch	Black-Black	less than 1VDC	less than 2Ω	CN8	4-15
	Red-Black	11~14VDC		CN8	5-9
Water Pressure Sensor	Yellow-Black	0kPa : 655∼745mV 200kPa : 2155∼2245mV 400kPa : 3655∼3745mV	N/A	CN8	1-9
Water Level Electrode	White-White	11∼14VDC	N/A	CN8	13-14
		•	·		1

 $11^{\sim}14$ VDC

Fig 1. "Down" and "DHW" Buttons

## **PC BOARD BUTTONS**

0=OFF, 1=ON

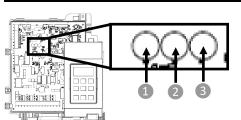


Fig 4. PC Board Buttons

**Primary Function** Notes Refer to section "12.4 Parameter Settings" in Boiler Installation and Parameter Setting Refer to section "10. Commissioning" in Boiler Installation and Operation Manual. Data Transfer Mode, This is for transferring PCB data when replacing the PCB. Refer to Test Combustion the instructions included in the replacement parts. Also, this is used for setting the boiler into forced combustion mode and flushing

There are a number of (live) tests required when performing electrical diagnostics on this product. Proceed with caution at all times to avoid contact with energized components inside the boiler. Only trained and qualified service technicians should attempt to repair this product. Before checking for resistance readings, disconnect the power source to the unit and isolate the item from the circuit (unplug it).

flash one after the other.

3. To exit diagnostic codes and return the boiler to

### **Electrical Diagram** Refer to the Wiring Diagram attached to the back

of the boiler front cover. Flame Rod

Place one lead of your meter to the flame rod and the other to the ground. When the unit is attempting to ignite, you should read more than 2 VAC.

## Amp Fuses

This unit has two (2) amp glass fuses located on the PC Board. Remove the fuses and check continuity through it. If you have continuity through each fuse, then it is functioning. Otherwise, the fuse is blown and must be

button for two seconds, and then the foller to button for two seconds, and then the (Up)	Fig 9. "Up" and "DHW" Buttons		
Table 7. Diagnostic Codes	rig 3. Op una DΠVV BUTTONS		
Fan current initial check error.  Ensure condensate line and trap is not be Ensure internal air filter is clean with no Ensure high altitude setting is set proper Ensure combustion air and exhaust vent venting materials are being used.  Ensure either the exhaust ring or intake Ensure vent length is within limits.  Check fan for debris and ensure wheel the Verify fan check valve is not stuck between the study of the condensure wheel the characteristics.	olocked. obstructions. rly (See High Altitude Setting). s are not blocked and the approved cap is removed properly. urns freely.		th Exhaust Temperature  Make sure boiler pump activates during operation. Check the exhaust thermistor wiring for damage. Clean the surface of the thermistor. Measure the resistance of the exhaust thermistor.* If the sensor has been replaced and the error still appears, check the return thermistor. If boiler is used in a hard water area, flush the DHW plate heat exchanger. Check the exhaust duct, seal, and venting for damage.  mbustion Fan Check the motor wire harness for loose or damaged connections.
No Ignition (Unit Not Turning On)  Ignition Error.			Measure resistance and voltage of motor wire harness.* Ensure the combustion fan spins freely.
<ul> <li>Check that the gas is turned on at the bound of the unit is installed in a propane syste</li> <li>Bleed all air from the gas lines.</li> </ul>	•	PC •	PC Board circuit error. Replace PC Board.
Check the ground wire for the PC Board Ensure the flame rod wire is connected. Ensure the igniter is operational.* Ensure the venting is installed in accord: Check that the surface of the electrode: Check gas solenoid valves for open or should be accorded by the form of the control of the	ance to this manual. and flame rod are clean. Iort circuits.* the gas system the unit is installed in.		Ensure Dip switch 5 on the PC Board is in the OFF position (default). Ensure the gas control wire is not loose or damaged. Ensure the heater circuit is not grounded. Replace the PC Board.  me Rod
<ul> <li>If the unit is installed in a propane syste</li> </ul>		763 0-1	Check the flame rod and wire for damage. Ensure the flame rod and wire are not wet. If there is no issue with the flame rod or wiring, replace the PC Board.  OV Input
<ul> <li>Ensure the venting is installed in accord.</li> <li>Ensure the flame rod wire is connected.</li> <li>Ensure the gas type and inlet gas pressu</li> <li>Bleed all air from the gas lines.</li> </ul>		● ● BH Ind	0-10V input overrange detection. Check the external controller settings.  lirect Tank Temperature
Check the ground wire to the PC Board.     Check flame rod voltage to ground durin     Heat Exchanger Overheat	ng ignition.	•	Indirect tank runs for more then twelve hours without cycling off. Check if the tank size is adequate. Check the thermistor location.
Overheat switch is tripped.  Measure the resistance of the Overheat  Check the heat exchanger surface for he to scale buildup.  Ensure the boiler pump is not locked up	ot spots which may indicate blockage due		Confirm that primary-secondary piping is utilized (such as low loss header, closely spaced tees, etc.) Check if the supply temperature for the tank is higher than the tank setting temperature (see parameter 30 in "Parameter Setting" section). Check sensor wiring for damage. Measure resistance of sensor.*
Ensure that all of the valves in the CH cir     Ensure the boiler and CH circuit does no     The surface of the heat exchanger may be	t have a freezing condition.	•	If something is wrong on the sensor, replace the sensor.
tempered even in normal conditions. The condition.  Check for damage on the exhaust, seal,		•	The boiler checks the heat exchanger temperature at the time of operation. If the temperature is too low, an error will occur. Check if there is freezing in the boiler or CH system.
Venturi Control     Venturi operation error.     Ensure the venturi motor is operating control error.     Replace the gas valve assembly.	orrectly.*	FFF Ma	This code is a placeholder in diagnostic code history indicating a service provider performed maintenance or service.
is connected properly.  SB Electrical Grounding	age. ondensate drain is block and if the venting	•	Enter this code after performing service by pressing the following buttons at the same time: UP, DOWN, and DHW. FFF appears on the monitor (right image).
<ul> <li>Secondary circuit ground fault.</li> <li>Check all electrical components for electrical components.</li> </ul>	trical short.	55 Ser	rvice Soon (55)
Condensate Pump (Accessory)     Boiler will operate for 60 seconds.     Confirm wire connections and harnesse:     Ensure the condensate reservoir is empi		•	Service Soon (55) is a time-based service indicator set during installation. See parameter IH in the "Parameter Settings" section for more information. To reset the 55 code, press the Central Heating (CH) button 5 times until 55 disappears.
■ Secondary Thermistor  ■ Ensure that Parameter □ is set to be avecally the Check sensor wiring for damage.  ■ Measure the resistance of the sensor.  ■ Replace if necessary.  ■ Ensure the installation of sensor, includi		•	iler Does Not Start Heating With a Heating Demand Present Supply temperature or return temperature inside the boiler may be too hot. Ensure the pump operates properly. If there is a demand immediately after using DHW, wait at least three minutes for operation. iler does not start heating the indirect tank although the indirect tank is calling
Freeze Protection Thermistor  Check sensor wiring for damage.  Measure the resistance of the sensor.  Replace if necessary.  Supply Thermistor		Aft pri	heat.  er the tank priority time (Parameter 34) passes, the boiler will be in heating ority for 60 minutes.  pply Temperature is Different From the Setting Temperature on the Controller During outdoor sensor control, the supply temperature will vary dependent on the outdoor temperature.
<ul> <li>Check sensor wiring for damage.</li> <li>Clean the surface of the sensor.</li> <li>Measure the resistance of the sensor.</li> <li>Check the return thermistor.</li> <li>Replace if necessary.</li> </ul>		•	Capacity is Insufficient Ensure the parameters are properly set for the installation.  n Even With No Demand
363 Return Thermistor  Check sensor wiring for damage.  Measure the resistance of the sensor.			The boiler may start or operate the pump for freeze protection operation. The pump may intermittently operate to prevent it from becoming stuck.
Replace if necessary.  Indirect Thermistor Check sensor wiring for damage. Check if the indirect thermostat is not u Measure resistance of sensor and replace Replace if necessary.			
Exhaust Thermistor     Check sensor wiring for damage.     Clean the surface of the sensor.     Measure the resistance of the sensor.     Check the return thermistor.     Replace if necessary.			
Outdoor Thermistor     Ensure that parameter number III is set     Check sensor wiring for damage.     Measure the resistance of the sensor.     Replace if necessary.	to the appropriate position.		
Pressure Sensor     Check sensor wiring for damage.     Measure the voltage of the sensor.     Replace if necessary.			
High/Low Water Pressure  If the water pressure is too low, add war observed.  Ensure there are no leaking components if the pressure is too high, adjust the pressure the pressure relief valve and water	essure to a maximum of 30 PSI.		
HHB Low Water Cut-Off (LWCO)  ■ Ensure the LWCO device is working corr ■ Ensure the LWCO jumper is connected p ■ Ensure the output is 24 V AC. If it is not,	properly when LWCO is not in use.		
Solenoid Valve Circuit  Check the flame rod and wire for damage Close the gas shut off valve installed nea  Ensure the flame rod and wire are not we Check the output from the PC Board to be fit the output from the PC Board is abnored to the coupt of the property of the	ge. ar the boiler. ret. the solenoid gas valve. mal, replace the PC Board.		
<sup>3</sup> See "Electrical Diagnostics" section of this documer	nt.		

## Check the flame rod and wire for damage. Ensure the flame rod and wire are not wet. If there is no issue with the flame rod or wiring, replace the PC Board. 0-10V Input

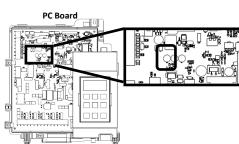
## Indirect tank runs for more then twelve hours without cycling off. Check if the tank size is adequate. Check the thermistor location.

# 

## PARAMETER SETTINGS

When the unit is operating.

Black-Black



Press the (Up) or (Down) arrows to select a parameter setting. Then, press the "Select" button (Fig 7).

Fig 5. SW 1 Button on PC Board

	·
* ^ *	* ^ *

Fig 6. "DD-R" shown in display Fig 7. "Up," "Down" and "Select" Buttons

Press the (Up) or (Down) arrows to change the selection for the setting number (such as II-R or II-b). Then, press the "Select" button (Fig 8).



Fig 8. "Up," "Down" and "Select" Buttons

To exit parameter settings and enter normal operation mode, press and hold the SW1 Button on the PC Board.

For more information on parameter settings, refer to the "I-Series Plus Condensing Boiler Installation and Operation Manual."

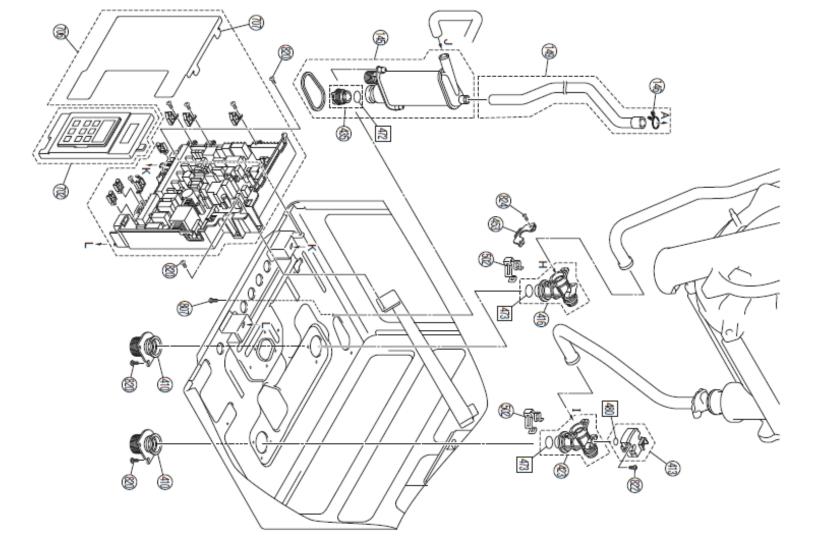
Table 5. Parar	neter Settings		Selection					
Parameter #	Setting Description	A (Default)	b	С	d	E	F F	
	Outdoor Temperature Sensor: Enables or disables the outdoor temperature sensor.	In Use	Not In Use					
01	Outdoor Reset Curve: (*) This parameter shows up only when selecting Outdoor Temperature Sensor "In Use" as selecting parameter number III. For selecting outdoor reset curve, see below:  Curve 1: Standard baseboard, high efficiency air handler, cast iron or panel radiators, Curve 2: Staple up radiant., Curve 3: High temperature air handler or undersized baseboard.  Curve 4: Low Mass Radiant, Curve 5: High Mass Radiant, Curve 6: Radiators, Curve 7: Custom curve based on customer input.	1	2	3	4	5	6 7	,
	Boost: Available when parameter 🕮 is selected as "A." Boost Mode increases the CH set temperature above the outdoor reset curve target when the boiler has been running on an unusually long call for heat.	30 Minutes	60 Minutes					
	Maximum Outdoor Temperature: Available when parameter 🗓 is set to as "A." Sets maximum outdoor temperature the boiler will fire in CH mode and can prevent boiler from firing in warm outdoor temperatures.	No Maximum	77°F (25°C)					
	Service Soon: 55 is a time-based service indicator set during installation.	Disabled	0.5 Year	1 Year	2 Years			
	Pressure Indication on Controller Panel: The current pressure will cycle on the controller display. If an external pressure gauge is present, it is permissible to change the setting to "No."  De-Rate: This parameter is to limit maximum input when it is necessary.	Yes No	No Setting 1	Setting 2				
	Indirect Tank: Enables the Indirect Tank Function for Pump 4.	On	Off	Jetting 2			_	
	Indirect Tank Thermistor/Thermostat Selection: Selects the method of controlling the indirect tank.	Thermostat	Thermistor					
30	Indirect Tank Supply Temperature with Thermistor Control: This parameter is available when parameter number 28 is selected as "A" and parameter number 29 is selected as "b." This selects the supply temperature for the indirect tank when using a thermostat. 180°F (Default) is the maximum supply temperature. The higher the supply temperature to the tank, the quicker the tank will heat up. If this temperature is too high, select other settings as appropriate. Ensure the indirect tank supply temperature is 18°F (10°C) higher than the set point temperature of the tank thermostat.	180°F (82°C)	Tank Setting Temperature +18°F (10°C)	Tank Setting Temperature +27°F (15°C)				
	Indirect Tank Supply Temperature with Thermostat Control: This parameter is available when parameter number 28 is selected as "A" and parameter number 29 is selected as "A." This selects the supply temperature for the indirect tank when using a thermostat. 180°F (Default) is the maximum supply temperature. The higher the supply temperature to the tank, the quicker the tank will heat up. If this temperature is too high, select other settings as appropriate.	180°F (82°C)	160°F (71°C)	140°F (60°C)				
31	Allowed indirect tank temperature drop before firing (with thermistor) This parameter is available when parameter number 28 is selected as "b." This selects the differential temperature between the indirect tank setpoint temperature and thermistor reading. The smaller the value, the more frequently the indirect tank will call for heat.	5.4°F (3°C)	10.8°F (6°C)	16.2°F (9°C)	21.6°F (12°C)			
32	Indirect Tank Operation Option This parameter is available when parameter number 28 is selected as "A." When a 3-Way Valve and the boiler pump are to be used for recovering the indirect tank, select "b". Only 120 VAC 3-Way Valves may be used in this application.	Use Pump	Use 3-Way Valve					
33	Indirect Tank Simultaneous Heating-Up This parameter is available when parameter number 28 is selected as "A." and parameter number 32 is selected as "A." This selects the operation of the indirect tank heating by priority or simultaneously with CH. When "Indirect Tank Priority" is selected, other pumps except for the indirect tank pump will not operate while the tank is being heated. When "Simultaneous Heating with Indirect Tank and CH", all pumps may operate simultaneously. When in Simultaneous mode, if the tank does not achieve the Indirect Tank Setpoint Temperature within 60 minutes, it will transition to Indirect Tank Priority.	Indirect Tank Priority	Simultaneous Heating with Indirect Tank and CH					
34	Indirect Tank Priority Time This parameter is available when parameter number 28 is selected as "A." This selects the time that the indirect tank will maintain priority. After this period of time passes, the indirect tank will cease to be heated and central heating will have priority. If there is still an indirect tank demand after 60 minutes passes of CH priority, indirect tank priority will begin again.	60 Minutes	40 Minutes	90 Minutes				
35	CH Temperature Limitation to Allow Simultaneous Operation with Indirect Tank This parameter is available when parameter number 28 is selected as "A," parameter number 32 is selected as "A" and parameter number 31 is selected as "b." This enables CH setting limitation during simultaneous heating. This can prevent unintentionally supplying high temperature supply water to low water heating temperature applications such as floor heating. During simultaneous operation, the heating supply temperature is based on the indirect tank supply temperature. When "NO" is selected, make sure that the CH system and heating application is designed to allow for the high supply temperature.	Yes	No					
40	Linked Operation Among Each CH Pumps This parameter enables linked operation among each CH pumps. For example, when parameter b is selected and T/T 1 is active, both pump 1 and 2 are ON. The T/T wire must be connected to the T/T1 connection. This setting is primarily for an application that requires two pumps or more for one zone, such as in use with an injection loop or similar system.  Note: Selection d is not available when using an Indirect tank.	No	Linked Together CH Pump 1 and Pump 2	Linked Together CH pump 1, pump 2 and pump 3	Linked Together CH pump 1, pump 2, pump 3 and pump 4			
41	Linked Operation Between Main Boiler Pump and CH Pump 1: This enables the linked operation between the main boiler pump and CH pump 1. Example: when the main pump is on, pump 1 is also on.	No	Yes (Linked together)					
42	Main Pump Runs When the Target Temperature is Reached: This selects the mode of the main pump running when the target setpoint is achieved. This setting is for whether running on intervals to reduce pump operation or continuously running to reduce wait time to re-fire. Intervals are 10 minutes ON and 30 minutes OFF.	Continuously	Intervals					
43	operation of continuously running to reduce wait time to re-ine. Intervals are 10 minutes of an 30 minutes of an 30 minutes of a 10 minutes of	Same as Main Pump	Does Not Run					
44	External Pump Running at Freeze Protection Operation: Selects the mode of external pump running when freeze protection operation. This is setting for whether stopping external pump running to reduce pump operation timing or operating as same as main pump operation to enable to deliver remained heat to the system for keeping system piping from freezing. But it could reduce the temperature inside heat exchanger.	Does Not Run	Same as Main Pump					
	Freeze Protection Level: This selects the freeze protection level. Selecting "b" will prevent the boiler from operating in freeze protection mode more than believed necessary.	Normal	For Warm Room Temp					
	The Differential Temperature From Extinguishing Fire to Fire Again: How much temperature drop is permitted by the supply water thermistor before the boiler will fire again. When selecting "Quick", the boiler will fire more frequently and achieve more temperature control	Normal	Quick					
46	CH Setting Temperature	Temperature Drop	Temperature Drop					
	168°F -182°F (75-82°C)	27°F (15°C)	15°F (8°C)					
	104°F-166°F (40-74°C)	15°F (8°C)	9°F (5°C)					
47	The Time Which Not Allow to Fire Again for CH: For selecting time which not allow to fire again for CH after shutdown burner. This is setting for whether preventing from frequently operating unit or allowing frequent operation for quick heating up again.	Normal (3 Minutes)	Quick (10 Seconds)					
48	Heating Eco Mode On Time	30	15					
	This setting changes the on time of the heating Eco mode. This mode enables greater energy savings by reducing the length of time the boiler is operating. The output temperature of the boiler is slower in this mode.  Air Handler Connection: The setting changes to enable to AH output with linking pump 3.	Minutes No	Minutes Yes					
	Air Handler Post Pump Extension Setting: Extending the post Pump timing of pump 3.	15 Seconds	40 Seconds					
55	0-10V Input Setting: Extending the post Pump timing of pump 3.	No	Setting temperature range	Setting temperature range	Setting temperature range			
			Set temperature —36°F (20°C)	Set temperature —54°F (30°C)	Set temperature —72°F (40°C)			
60	N/A: Manufacture Use Only	Manufacture Use Only	Manufacture Use Only					
61	Thermostat Usage: Changes the mode between Thermostat Usage and Central Heating Button.	Thermostat Used	CH ON button used. Boiler fires based on return water temperature.					
םר	System Thermistor Control: Enables system temperature control using the system thermistor on the secondary loop of a cascade system.	Not In Use	In Use					
CI.	Cascade: Setting Primary or Secondary unit assignment.	Secondary	Primary					
J5	Cascade Units in Standby: Sets which unit in the cascade is the primary unit	1	2	3	4	5	6	
RO .	Gas Type: For selecting gas type when conducting gas conversion.	Natural Gas	Liquid Propane					
RI	Model: Manufacture Use Only	Manufacture use only	Manufacture use only					
R2	Vent Material Used: This selects the venting material used. The boiler is set from the factory to be installed in a PVC venting system. If CPVC, PP, or other approved venting is used, this may be adjusted. See the section on PVC Safety Switch for more information.	PVC	Material other than PVC: CPVC, PP, or Other.					
R3	Altitude Setting: Sets the elevation of the boiler installation.	Level 0: 0-2,000 ft (0-610m)	Level 1: 2,001-5,400 (610-1646m)	Level 2: 5,401-7,700 ft (1,646- 2,347m)	Level 3: 7,701-10,200 ft (2,347- 3,109m)			

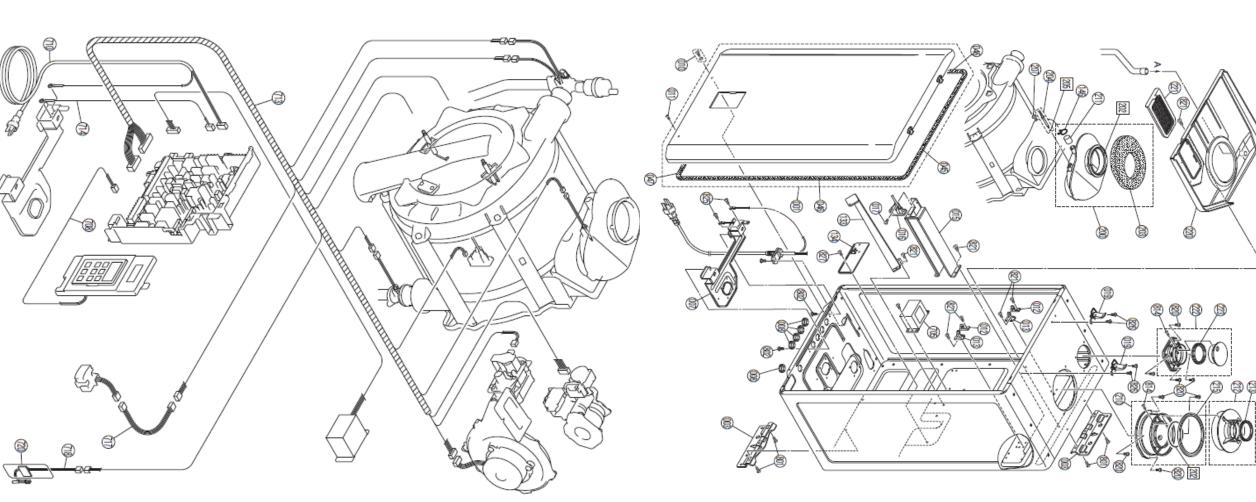
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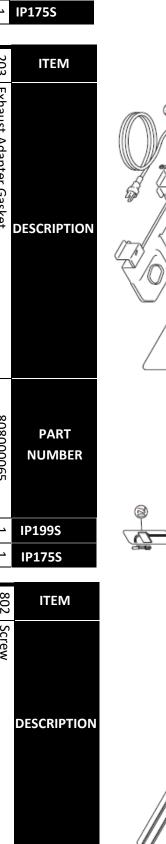


2001	IP175S	Models	Gas	
ואט/נדט	NO /1 DO	Gas Type	Gas Conversion Kits	
47T000400	00/00013/	Kit Number	Kits	

Gas Conversion Kits	Kits
Models Gas Type	Gas Type Kit Number
IP175S	15,000,00
IP199S	004000124
	Sas C







2	ITEM	
	DESCRIPTION	
2D V O V O S	PART NUMBER	
ر	IP199S	
ر	IP175S	

DESCRIPTIO	PART NUMBER	IP199S	IP175S	ITEM	DESCRIPTIO	PART NUMBER	IP199S	IP175S
Exhaust Adapter Gasket	808000065	1	<u> </u>	802	Screw	ZBA0408UK	2	2
Thermistor	105002024	1	1	803	Hexagon Head Screw	ZQAA0514UK	6	6
O-ring	107000323	1	1	807	Screw	U217-449	4	4
Exhaust Gasket	808000066	1	1	810	Screw	109000179	10	10
Thermistor Screw	109000622	ㅂ	1	814	Screw	109000651	2	2
Flue Connection Assembly	108000083	1	1	820	Screw	809000177	51	51
Cap	109001407	1	1	821	Truss Screw	109000598	24	24
Exhaust pipe connection port - 2 inch	108000084	1	1	822	Screw	809000178	2	2
Exhaust Gasket - 2 inch	109000623	1	1	823	Screw	CP-20883-408UK	6	6
Air Supply Pipe Seal Ring	108000017	1	1	824	Screw	809000179	2	2
Air Supply Box Assembly	808000067	1	1	825	Ground Screw	109000793	2	2
Air Supply Filter (set)	108000086	1	1	925	Screw	109000649	. ∝	. ∝
Air Supply Assembly	108000087	1	1	/78	Screw	809000331	2	4
Air Supply Gasket - 2 inch	109000624	1	1	828	Screw	809000332	2	2
CH Outlet Connection	807000182	2	2	829	Torx screw	809000333	4	4
Water Pressure Sensor Assembly	807000185	1	1	860	Wall Bracket	809000314	1	1
Plate HEX-CH Heating Connection (for solo)	807000339	1	1	861	Vent Screen Set	108000104	1	, h
CH Heating Return Pipe Assembly	807000340	1	1	298	LP Conversion Orifice-Included	806000095	7 1	<u>ب</u> د
CH return Connection (for solo)	807000341	1	1	864	Outdoor Temperature Sensor	80300081	٦ ٢	۱ د
Heat Exchanger Pipe Connection Assembly	807000333	ㅂ	1	865	System Thermistor	8050000179	۱ -	۱ -
Trap Drain Plug Assembly	807000195	1	1	888	User Manual - FN	800000018	1 -	ا د
HEX-CH Heating Connection Pipe	807000334	1	1	989	Installation Manual - FN	000000000000000000000000000000000000000	1	۱ د
Air vent	808000052	1	1	890	Tech sheet	N/A	1	<u> </u>
Heat Exchanger Return Connection	807000335	. 1	.   1	891	User Manual - FR	800000219	1	1
Pipe Bracket	805000154	4 4	4 4	892	Installation Manual - FR	N/A	1	1
Thermistor Sensor	805000154	1	1	Î				

Front Cover Panel Gasket Top
Front Cover Panel Gasket Side
Front Cover Panel Gasket Bottom
Burner Door Assembly
Burner Door Gasket
Berner Insulation
Combustion Check Valve Assembly
Combustion Fan Assembly
Fan Mounting Packing

PCB Bracket
Heat Exchanger Bracket
Adapter Gasket
Heat Exchanger Adapter
Fan Adapter
Gas Control Adapter

densation Drain Tube

Integrated Control Assembly

Transformer

PC Board Assembly-Solo

PCB Cover

Controller Unit Harness

Controller Unit Harness

Power Cord Assembly FF

Sensor Harness

Heater Ground Harness

Over Heat Switch

Water Pressure Connection Harness

n Tube at Air Intake ne Rod

nlet Gas Supply Connection nlet Gas Test Port Screw

ection Pipe Bracket

agon Head Screw Valve Assembly

ise Filter Assembly
at Exchanger Assembly
at Exchanger Insulation

Rubber Bushing

Residential Screw and Washer

Ground Screw

Combustion Chamber Support Plate (L)

Combustion Chamber Support Plate (R)

Reinforcement Plate

**DESCRIPTION** 

**PART NUMBER** 

IP199S

