OPERATING INSTRUCTIONS MANUAL

(Please retain for future reference)

For

FVO-400 INDIRECT FIRED SPACE HEATERS



CERTIFIED FOR USE IN CANADA AND U.S.A.
As per CSA B140.8 Portable Oil Fired Heaters / CSA B140.02003 Oil Burning Equipment
Construction Heaters Unattended Type.
UL 733 Oil-fired Air Heaters

Issue date October 1, 2015



FLAGRO INDUSTRIES LIMITED ST. CATHARINES, ONTARIO CANADA

GENERAL HAZARD WARNING:

FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER, CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.

ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.

IF YOU NEED ASSISTANCE OR HEATER INFORMATION SUCH AS AN INSTRUCTIONS MANUAL, LABELS, ETC. CONTACT THE MANUFACTURER.

WARNING:

FIRE, BURN, INHALATION, AND EXPLOSION HAZARD. KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE HEATER AS RECOMMENDED BY THE INSTRUCTIONS. NEVER USE THE HEATER IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES, OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNER, DUST PARTICLES OR UNKNOWN CHEMICALS.

WARNING:

NOT FOR HOME OR RECREATIONAL VEHICLE USE.

WARNING:

INTENDED USE IS PRIMARILY THE TEMPORARY HEATING OF BUILDINGS UNDER CONSTRUCTION, ALTERATION, REPAIR OR EMERGENCIES ONLY.

This heater is designed and approved for use as a construction heater under CSA B140.8 Portable Oil Fired Heaters / CSA B140.02003 Oil Burning Equipment. UL-733 Oil Fired Air heaters

We cannot anticipate every use which may be made of our heaters. CHECK WITH YOU LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS.

Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.

SPECIFICATIONS

| Model | FVO-400 |
|------------------|---------------------------------------|
| Input | Range |
| 325,00 | 00 – 390,000 |
| Fuel | No.1, No. 2, diesel or kerosene |
| Fuel Pressure | 170 psi |
| Nozzle | 2.25 x 45B |
| | 390,000 Btu |
| | |
| | 2.00 x 60B/W |
| | 353,000 BTU |
| | 1.75 x 60B/W 325,000 BTU |
| Ignition | Direct Spark |
| | Thermostat Control |
| Air Circulation | 2500 cfm |
| Fuel Consumption | 2.75 Gal/hr |
| Approved | cETLus listed |

INSTALLATION:

The installation of this heater for use with No.1, No.2, Diesel or Kerosene and shall conform with local codes or, in the absence of codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54. Installation of the unit shall be in accordance with the regulations of the authorities having jurisdiction or the CSA Standard B139.

CLEARANCE TO COMBUSTIBLES:

| <u>TOP</u> | <u>FRONT</u> | SIDES | REAR | <u>FLUE PIPE</u> |
|------------|--------------|-------|------|------------------|
| 3 ft | 10 ft | 3 ft | 3 ft | 3 ft |

FUEL: This heater will operate with No.1, No.2, Diesel or Kerosene.

Note: No.1 Fuel Oil or Kerosene must be used for

temperatures less than -10° C (8° F).

REMOTE TANK OPTION:

The FVO-400 may be installed with a remote fuel tank providing the manufacturer approved FVO-TLS remote fuel kit is used. This kit includes the tiger loop filter system using a single line supply and pressure relief valve (FVO-TLPRV) This system prevents overpressure fuel supply and stops the fuel flow in the case of a leak in the fuel line where pump vacuum pressure is lost. A maximum of 50ft supply hose must be used with this installation.

All installations must conform to local installation codes and authorities having jurisdiction.

ELECTRICAL: WARNING Electrical Grounding Instructions

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.

115v supply must be available. Please note that the heater requires 15 amps for proper operation. Ensure appropriate gauge extension cord is used.

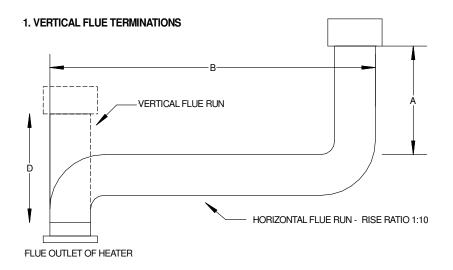
- 12/3 AWG at 50 Feet
- 10/3 AWG at 100 Feet

FLUE PIPE:

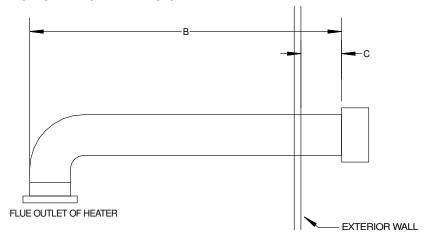
Flue pipe connection must terminate with a vertical run at least 2ft long.

The vent outlet on the heater is 6" diameter. Certified venting must be used at all times. Vent cap should be installed in situations where downdrafts occur. All venting must correspond with the CSA B149 standard or in its absence, local codes.

FV SERIES CONSTRUCTION HEATER – VENTING REQUIREMENTS



2. HORIZONTAL FLUE TERMINATIONS



- A VENT TERMINATION MUST BE A MINIMUM OF 2FT HIGHER THAN ANY POINT WITHIN 10FT.
- B MAXIMUM HORIZONTAL RUN IS 30FT.
 NOTE: 90deg ELBOW = 10ft HORIZONTAL VENT ALLOWANCE
 45deg ELBOW = 5ft HORIZONTAL VENT ALLOWANCE

- C VENT TERMINATION IN HORIZONTAL POSITION MUST BE MINIMUM 4ft FROM ANY COMBUSTABLE SURFACE
- D EXTERIOR VERTICAL VENT TERMINATION MUST BE A MINIMUM OF 2ft.

NOTE: ALL VENT TERMINATIONS MUST HAVE A RAIN CAP INSTALLED AS PER

LOCAL CODE REQUIREMENTS.

DUCTING: Hitex heater duct with a minimum temperature handling of

300 deg F. including wire reinforcement to prevent collapsing. Heater is designed for use with 2 x 12" (FV-HD12) diameter or 1 x 16" (FV-HDG16) ducting equipped with pin lock

coupling or cuff & buckle. Ducting should be inspected periodically for tearing and/or wear marks. Ducting should be

stored in a dry area when not in use.

MAINTENANCE:

- 1. Every construction heater should be inspected before each use, and at least annually by a qualified service technician. Incorrect maintenance my result in improper operation of the heater and serious injury could occur.
- 2. Service and Maintenance only to be performed by a qualified service technician.
- 3. The hose assemblies shall be visually inspected prior to each use of the heater. If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer.
- 4. The flow of combustion and ventilation air must not be obstructed. Be sure to check the fan assembly and ensure that the motor and blade are operating properly.
- Compressed air should be used to keep components free of dust and dirt build up. Note: <u>Do not</u> use the compressed air inside any piping or regulator components.
- 6. Change fuel filter insert (Part# FVO-419) once per month. Change fuel filter cartridge (Part# FVO-418) once every 6 months.
- Change oil nozzle once per year. FV-435B (2.00 X 60B/W), FV-435WC (1.75 X 60B/W)
- 8. Fan Limit Switch (Part# FV-407A) should be replaced if the fan motor does not shut off after the heat exchanger has cooled down.

- 9. The High Limit Switches (Part# FV-406 & FV-437) should be checked each season. These limit switches will ensure the burner shuts down if the temperature exceeds 150° F at rear of unit and 250° F at the outlet.
- 10. Fuel tank should be drained on a regular basis by removing drain plug.

CAUTION: Do not have any source of ignition near the heater when draining tank.

NOTE: No.1 fuel oil or kerosene is recommended for temperatures below -10° C / 8° F

11. Heat Exchanger should be cleaned if smokey conditions continue even after the air adjustments on the burner are made.

START UP INSTRUCTIONS:

- 1. Position heater on level surface
- 2. Ensure the toggle switch is in the "OFF" position.
- 3. Ensure burner "air gate" is properly set at 4.5
- 4. Ensure electrical cord is grounded and plugged into a 115V 15AMP outlet. Verify cord size 12/3AWG at 50 FT or 10/3AWG at 100ft
- 5. The indicator light on the control box will engage. If the green light illuminates, you have proper power supply. If not, refer to the label on the heater to verify power supply issue(s). Correct the power supply issue(s) before operating the heater.
- 6. Move switch to "MANUAL" position for manual control.
- 7. Move switch to "THERMOSTAT" position for thermostatic control.

Please Note:

- 1. If using Thermostat on unit, unit must be started in Thermostat position.
- 2 When changing between manual and thermostat operation, the heater must be left in the "OFF" position for 30 seconds to prevent the burner from locking out.
- 3. When using a generator for electrical supply, make sure the generator is properly grounded and generator is at a 60Hz frequency.
- 4. In the event that a Generator is being used and the generator runs out of fuel, make sure the heater switch is in the "OFF" position before restarting generator, failure to do so may damage heater.

TO SHUT DOWN:

1. Move Burner switch to "OFF" position.

NOTE: Fan will continue to operate after the burner shuts down. Once the unit cools down, the fan will stop.

IF HEATER FAILS TO START:

- 1. Press manual reset button at rear of burner. (Red button).
- 2. Check fuel level. There must be 2-4 gallons of fuel in the tank for the heater to start properly.
- 3. Make sure there are no air locks in fuel lines or filter.
- 4. Ensure proper power supply and extension cord is being used.
- 5. Check for dirty fuel filter or blocked fuel supply line.
- 6. Check burner nozzle assembly.

NOTE: IF THE BURNER HAS BEEN RESET SEVERAL TIMES THERE MAY BE AN ACCUMULATION OF OIL IN THE CHAMBER! DO NOT CONTINUE TO TRY AND START THE HEATER!

DRAIN OIL FROM HEAT EXCHANGER USING DRAIN HOLE AT FRONT OF HEAT EXCHANGER FOR 15-20 MINUTES BEFORE ATTEMPTING TO RELIGHT. LET REMAINING EXCESS OIL BURN OFF BEFORE CHECKING COMBUSTION OF UNIT.

SAFE OPERATION PRECAUTIONS:

- 1. Do not fill fuel tank while heater is operation.
- 2. Do not attempt to start heater if excess oil remains in the heat exchanger.
- 3. Use switch to shut down the heater. Do not try to shut down the heater by unplugging the electrical cord.

- 4. Do not plug anything other that the thermostat into the "Thermostat" plug.
- 5. Do not use any fuel other that those listed on rating plate.
- 6. Follow electrical requirements shown on rating plate and/or Electrical requirements section of this manual.
- 7. Before removing any guards or performing any maintenance, be sure that the main power supply is disconnected.

COMBUSTION AIR ADJUSTMENTS:

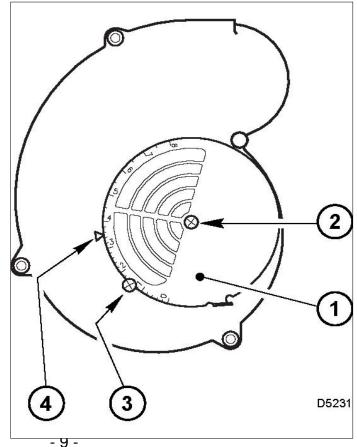
NOTE:

Proper combustion air adjustment must be achieved using a certified combustion analyzer and smoke tester to ensure complete combustion.

The air adjustment should be made to achieve 10% CO₂ and No. 1 or "trace" smoke. (Bacharach Scale)

SETTING THE AIR ADJUSTMENT PLATE

- A) Regulation of the combustion air flow is made by adjustment of the manual AIR ADJUSTMENT PLATE (1) after loosening the FIXING SCREWS (2 & 3). The initial setting of the air adjustment should be made plate according to Column 5 in the Burner Set-up Chart.
- B) The proper number on the manual AIR ADJUSTMENT PLATE (1) should line up with the SETTING INDICATOR (4) on the fan housing cover. Once set, the air adjustment plate should be secured in place by tightening SCREWS 2 and 3.



C) The final position of the air adjustment plate will vary on each installation. Use instruments to establish the proper settings for maximum CO_2 and a smoke reading of zero.

NOTE: Variations in flue gas, smoke, CO₂ and temperature readings may be experienced when the burner cover is put in place. Therefore, the burner cover **must** be in place when making the final combustion instrument readings, to ensure proper test results.

BURNER SET-UP CHART

| 1 | 2 | 3 | | 4 | 5 |
|-------------------------------|----------------|---------------|-----|-----------------------|---------------|
| ACTUAL FIRING RATE ± 5% | NOZZLE SIZE | PUMP PRESSURE | | TURBULATOR SETTING | AIR DAMPER |
| GPH | GPH | PSI | BAR | SETTING | SETTING |
| | 2.25 x 45° | 170 | 10 | 5 | 4 - 6 |
| 2.75 | 2.00 x 60° | 170 | 10 | 5 | 4.5 |
| | 1.75 x 60° | 170 | 10 | 5 | 4.5 |

^{*} Note – Air damper setting is typically set at 4 for operation in colder temperatures. A combustion analyzer should always be used when setting the burner.

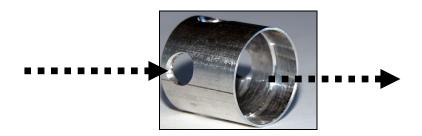
TEMPERATURE FEELER GAUGE ADJUSTMENT (ATTACHED TO FAN SWITCH)

The temperature feeler gauge is required to be always touching the heater exchanger.

The temperature feeler gauge controls the air flow over the fan switch, which eliminates any unnecessary fan cycling. The temperature feeler gauge can be adjusted for different outside temperatures, by rotating the location of the temperature feeler gauge holes. This will provide maximum performance of the unit in different applications.

If supply air is warm (-5° C, indoor application):

Turn the temperature feeler gauge so that the holes are parallel with the heat exchanger. This will help the fan switch to remain cool and not overheat. See following:



If supply air is cold (under -5°C):

Turn the temperature feeler gauge so that the holes are closed off as the air goes over the heat exchanger. This will reduce fan cycling and the unit from shutting down. See following:



In extreme cold conditions, cover the holes on the temperature feeler gauge using foil tape. Ensure that the temperature feeler gauge is readjusted for warmer weather conditions. Failure to do so may result in burning out fan switches- not covered under warranty.

POWER SUPPLY INDICATOR LIGHT:

The power supply indicator light will help detect any faulty power supplied to the heater such as; grounding issues, reverse polarity or missing/poor connections.

Warning Light Indications

Green Light Meets Power Requirements

Solid Red Light..... Reverse Polarity

Solid Red & Green Light... Ground Issue



ATTENTION: IF SOLID RED & GREEN IS INDICATED, MAKE CORRECTIONS TO POWER SUPPLY BEFORE TURNING HEATER ON. FAILURE TO DO SO WILL VOID ANY WARRANTY.

ELECTRICAL CONNECTIONS

It is advisable to leave the control box off the sub-base while completing the electrical connections to the burner.

 Wire access hole (Use BX electrical connector)

2) Earth ground conductor terminal (GREEN WIRE)

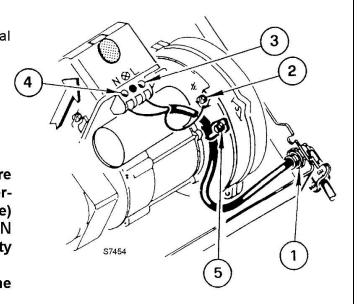
3) Hot conductor terminal (BLACK WIRE)

4) Neutral conductor terminal (WHITE WIRE)

5) Strain relief clamp

WARNING: The hot (black) wire must be connected to the L terminal and the neutral (white) wire must be connected to the N terminal or the primary safety control will be damaged. Do not connect either wire to the

Do not connect either wire to the Terminal.



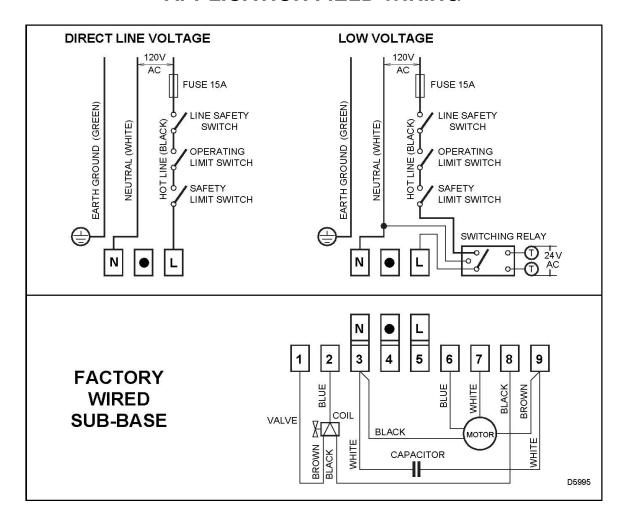
The burner may be controlled using either a DIRECT LINE VOLTAGE control circuit (120V AC 60 cycle) **OR** a LOW VOLTAGE control (24V AC 60 cycle) using a R8038A Honeywell switching relay or equivalent.

Using the appropriate diagram below, make electrical connections to the burner. All wiring must be done in accordance with existing electrical codes, both national and local.

When all electrical connections have been made, the control box may be put back in place on the sub-base.

WARNING: DO NOT activate burner until proper oil line connections have been made, or failure of the pump shaft seal may occur.

APPLICATION FIELD WIRING

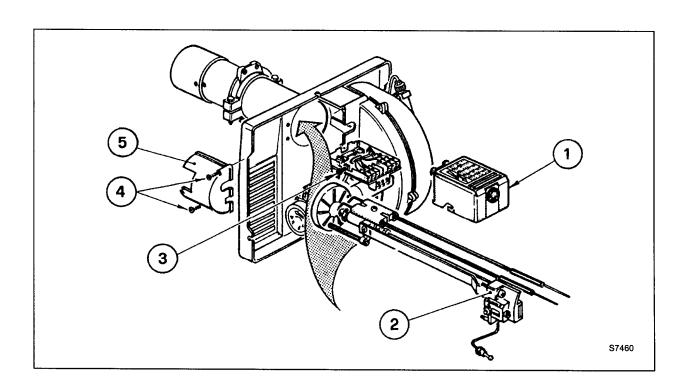


REMOTE SENSING OF SAFETY LOCKOUT: The SAFETY SWITCH in the 530SE CONTROL BOX is equipped with a contact allowing remote sensing of burner lockout. The electrical connection is made at terminal 4 (●) on the SUB-BASE. Should lockout occur the 530SE CONTROL BOX will supply a power source of 120Vac to the connection terminal. The maximum allowable current draw on this terminal (4) is 1 Amp.

WARNING: If a neutral or ground lead is attached to this terminal, the CONTROL BOX on the burner will be damaged should lockout occur.

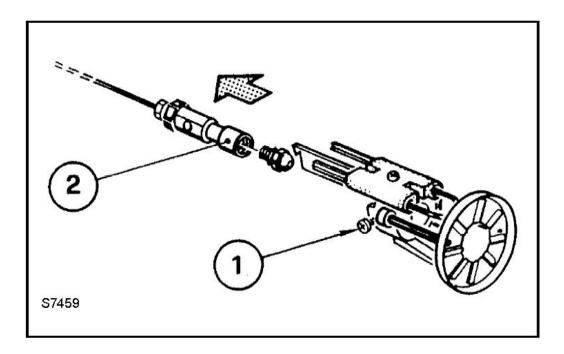
INSERTION / REMOVAL OF DRAWER ASSEMBLY

- A) To remove drawer assembly, loosen SCREW (3), then unplug CONTROL BOX (1) by carefully pulling it back and then up.
- **B)** Remove the AIR TUBE COVER PLATE (5) by loosening the two retaining SCREWS (4).
- **C)** Loosen SCREW (2), and then slide the complete drawer assembly out of the combustion head as shown.
- **D)** To insert drawer assembly, reverse the procedure in items A to C above, and then attach fuel line to the pump.



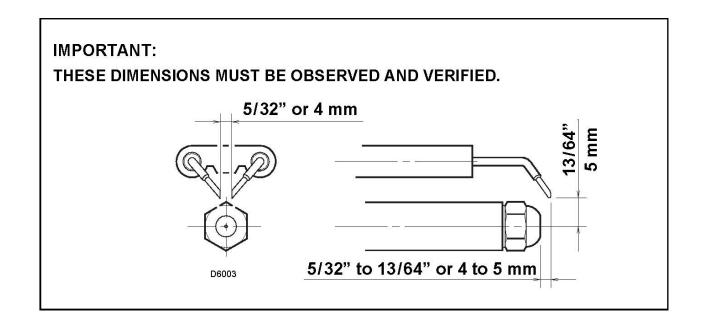
NOZZLE PLACEMENT

A) Remove the NOZZLE ADAPTER (2) from the DRAWER ASSEMBLY by loosening the SCREW (1).



- **B)** Insert the proper NOZZLE into the NOZZLE ADAPTER and tighten securely (Do not over tighten).
- **C)** Replace adapter, with nozzle installed, into drawer assembly and secure with screw (1).

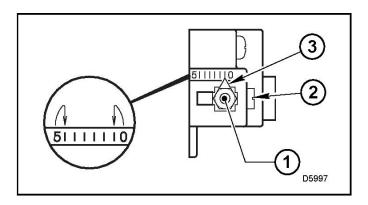
ELECTRODE SETTING



TURBULATOR SETTING

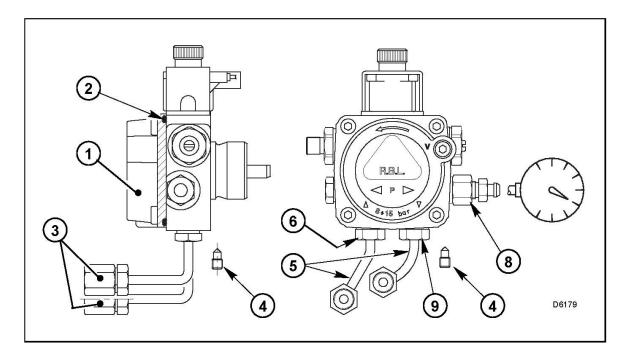
- A) Loosen NUT (1), then turn SCREW (2) until the INDEX MARKER (3) is aligned with the correct index number as per the Burner Set-up chart, on page 12.
- **B)** Retighten the RETAINING NUT (1)

NOTE: Zero and five are scale indicators only. From left to right, the first line is 5 and the last line 0.

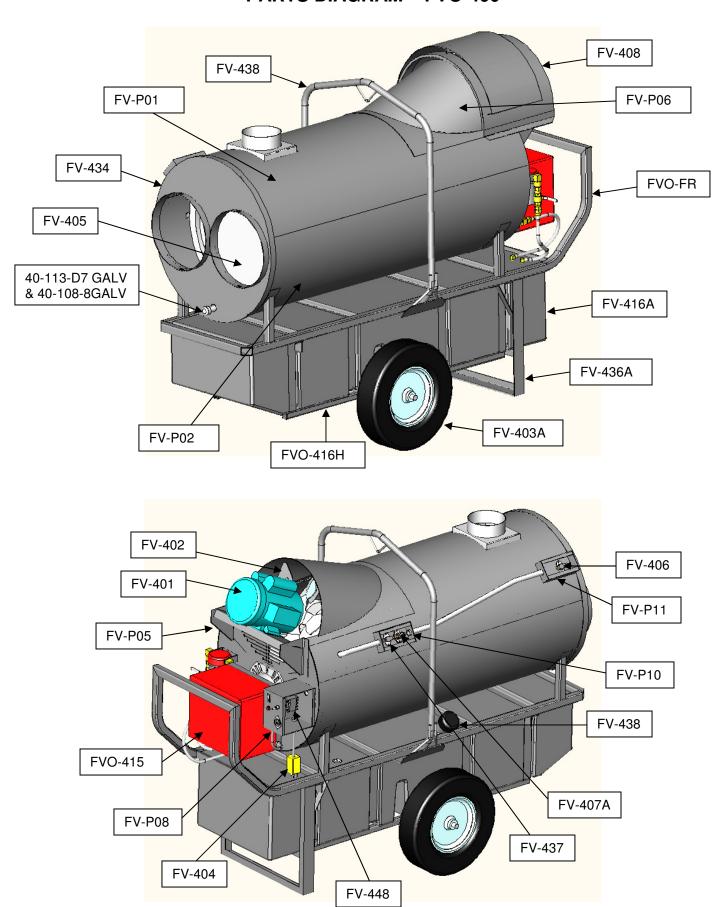


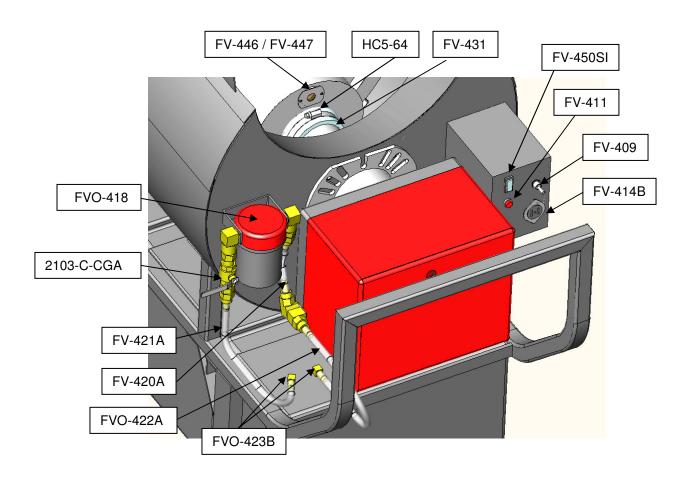
OIL LINE CONNECTIONS

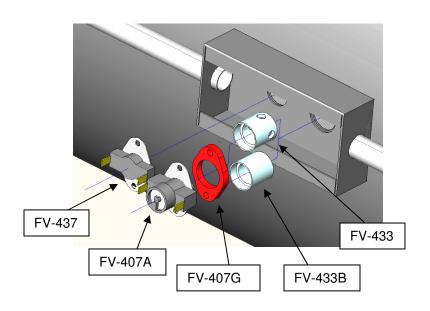
Note: Pump pressure must be set at time of burner start-up. A pressure gauge is attached to the PRESSURE PORT (8) for pressure readings. Two PIPE CONNECTORS (5) are supplied with the burner for connection to either a single or a two-pipe system. Also supplied are two ADAPTORS (3), two female 1/4" NPT, to adapt oil lines to burner pipe connectors. All pump port threads are British Parallel Thread design. Direct connection of NPT threads to the pump will damage the pump body. Riello manometers and vacuum gauges do not require any adaptors, and can be safely connected to the pump ports. An NPT (metric) adapter must be used when connecting other gauge models.



PARTS DIAGRAM - FVO-400







PARTS PRICE LIST FOR FVO-400

| Part Number | Part Description |
|---------------|--|
| FV-401 | PRIMARY FAN MOTOR |
| FV-402 | 16" FAN BLADE |
| FV-403A | 16" WHEEL - FLAT FREE 3.80KG |
| FV-404 | 18" POWER CORD C/W PLUG END |
| FV-405 | SS HEAT EXCHANGER |
| 40-113-D7GALV | 1/2" X 7" GALVANIZED NIPPLE |
| 40-108-8GALV | 1/2" GALVANIZED CAP |
| FV-406 | HIGH LIMIT SWITCH (OUTLET) |
| FV-407A | FAN LIMIT SWITCH (ADJUSTABLE) |
| FV-407G | FAN LIMIT SILICONE GASKET |
| FV-408 | FAN MOTOR CANOPY C/W LABELS |
| FV-P01 | TOP BODY PANEL |
| FV-P02 | BOTTOM BODY PANEL |
| FV-P04 | REAR BURNER MOUNT PANEL |
| FV-P05 | MOTOR MOUNT BRACKET |
| FV-P06 | FAN HOOD |
| FV-P08 | CONTROL BOX |
| FV-P09 | CONTROL BOX LID |
| FV-P10 | LIMIT BOX (DOUBLE HOLE) |
| FV-P11 | LIMIT BOX (SINGLE HOLE) |
| FV-P12 | LIMIT BOX LID |
| FV-P15 | OIL FILTER BRACKET |
| FVO-FR | HEATER FRAME |
| FV-409 | TOGGLE SWITCH (ON CONTROL BOX) |
| FV-410 | GREEN LIGHT (ON CONTROL BOX) |
| FV-411 | RED LIGHT (ON CONTROL BOX) |
| FV-414 | THERMOSTAT PLUG (ON CONTROL BOX) |
| FV-414A | THERMOSTAT PLUG (ON CONTROL BOX) 2008> |
| FV-414B | THERMOSTAT PLUG (ON CONTROL BOX) 2011> |
| FV-415 | FEMALE CONNECTOR FOR FV-THA |
| FV-415A | MALE CONNECTOR FOR FV-THB |
| FVO-415 | RIELLO BURNER (OIL) |
| FVO-416A | 42 US GALLON OIL TANK (POLY TANK) |

| FVO-416G FUEL GAUGE (POLY TANK) FVO-416GG FUEL GAUGE GROMMET (POLY TANK) FVO-416TG SUPPLY & RETURN ADAPTER GROMMET (POLY TANK) FVO-416H 42 US GALLON OIL TANK HARNESS (POLY TANK) FVO-417B OIL TANK CAP (POLY TANK) 40-121-6GALV OIL TANK DRAIN PLUG (FOR POLY TANK) FVO-418 FUEL FILTER (COMPLETE) FVO-419 FUEL FILTER (INSERT ONLY) FVO-420A CLEAR FUEL LINE - TANK TO FILTER FVO-421A CLEAR FUEL LINE - FILTER TO BURNER FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423B PICK UP TUBE CW ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET CW CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER CW PLUG 1/4 NPT FV-433 FEELER GAUGE FV-434CB16 FRONT FACE PLATE (2 X 12") FV-435WC OIL BURNER NOZZLE (1.75 X 66W) FV-436A SUPPORT TEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-449SI-R SIGHT GLASS WASHER FV-4448 MAIN RELAY FV-4450SI POWER SUPPLY INDICATOR 2014> EV-441 BURNER ROUPLY INDICATOR 2014> EV-441 BURNER FOR THE TO THE TOP TOT TO THE TOP TOT TO THE TOP TOT TO THE TOP TOT TO TH | | |
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| FVO-416TG SUPPLY & RETURN ADAPTER GROMMET (POLY TANK) FVO-416H 42 US GALLON OIL TANK HARNESS (POLY TANK) FVO-417B OIL TANK CAP (POLY TANK) 40-121-6GALV OIL TANK DRAIN PLUG (FOR POLY TANK) FVO-418 FUEL FILTER (COMPLETE) FVO-419 FUEL FILTER (INSERT ONLY) FVO-420A CLEAR FUEL LINE - TANK TO FILTER FVO-421A CLEAR FUEL LINE - FILTER TO BURNER FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE CW ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M-FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M-FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-435CB16 FRONT FACE PLATE (2 X 12") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-436A | FVO-416G | FUEL GAUGE (POLY TANK) |
| FVO-416H 42 US GALLON OIL TANK HARNESS (POLY TANK) FVO-417B OIL TANK CAP (POLY TANK) 40-121-6GALV OIL TANK DRAIN PLUG (FOR POLY TANK) FVO-418 FUEL FILTER (COMPLETE) FVO-419 FUEL FILTER (INSERT ONLY) FVO-420A CLEAR FUEL LINE - TANK TO FILTER FVO-421A CLEAR FUEL LINE - BURNER TO TANK FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE C/W ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" M.F.L BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 FV-433 FEELER GAUGE FV-433 FEELER GAUGE FV-433 FELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-436 FV-437 HIGH LIMIT (REAR) FV-448 MAIN RELAY FV-449SLR SMART INDICATOR 2014> POWER SUPPLY INDICATOR 2014> POWER SUPPLY INDICATOR 2014> | FVO-416GG | FUEL GAUGE GROMMET (POLY TANK) |
| FVO-417B OIL TANK CAP (POLY TANK) 40-121-6GALV OIL TANK DRAIN PLUG (FOR POLY TANK) FVO-418 FUEL FILTER (COMPLETE) FVO-419 FUEL FILTER (INSERT ONLY) FVO-420A CLEAR FUEL LINE - TANK TO FILTER FVO-421A CLEAR FUEL LINE - FILTER TO BURNER FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE C/W ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" M.F. L BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE - SOLID FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-435CB16 FRONT FACE PLATE (2 X 12") FV-435CB16 FRONT FACE PLATE (1 X 16") FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-448 MAIN RELAY FV-449SLR SMART INDICATOR RETROFIT KIT FV-449SLR SMART INDICATOR 2014> POWER SUPPLY INDICATOR 2014> | FVO-416TG | SUPPLY & RETURN ADAPTER GROMMET (POLY TANK) |
| ### 40-121-6GALV OIL TANK DRAIN PLUG (FOR POLY TANK) FVO-418 | FVO-416H | 42 US GALLON OIL TANK HARNESS (POLY TANK) |
| FVO-418 FUEL FILTER (COMPLETE) FVO-419 FUEL FILTER (INSERT ONLY) FVO-420A CLEAR FUEL LINE - TANK TO FILTER FVO-421A CLEAR FUEL LINE - BURNER TO BURNER FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE C/W ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FV-0440 WHEEL AXLE - (POLY TANK) FV-446< | FVO-417B | OIL TANK CAP (POLY TANK) |
| FVO-419 FUEL FILTER (INSERT ONLY) FVO-420A CLEAR FUEL LINE - TANK TO FILTER FVO-421A CLEAR FUEL LINE - FILTER TO BURNER FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE C/W ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS WASHER FV-4448 MAIN RELAY FV-449SI-R SMART INDICATOR 2014> | 40-121-6GALV | OIL TANK DRAIN PLUG (FOR POLY TANK) |
| FVO-420A CLEAR FUEL LINE - TANK TO FILTER FVO-421A CLEAR FUEL LINE - FILTER TO BURNER FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE C/W ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FV-0-440A WHEEL AXLE - (POLY TANK) FV-4446 SIGHT GLASS C/W FIBER GASKET F | FVO-418 | FUEL FILTER (COMPLETE) |
| FVO-421A CLEAR FUEL LINE - FILTER TO BURNER FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE C/W ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTINIG (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-438 LIFTING HARNESS FV-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R < | FVO-419 | FUEL FILTER (INSERT ONLY) |
| FVO-422A CLEAR FUEL LINE - BURNER TO TANK FVO-423A PICK UP TUBE CW ELBOW FVO-423B RETURN LINE ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FV-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS WASHER FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT< | FVO-420A | CLEAR FUEL LINE - TANK TO FILTER |
| FVO-423A PICK UP TUBE C/W ELBOW 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FV0-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FVO-421A | CLEAR FUEL LINE - FILTER TO BURNER |
| ## FVO-423B RETURN LINE ELBOW ## 48-6C BRASS FITTING (POLY TANK TO FILTER) ## 2103-C-CGA 3/8" SHUT OFF VALVE ## 122-C 3/8" BRASS HEX NIPPLE ## 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW ## 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW ## 5V-431 BURNER GASKET C/W CLAMP ## FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT ## FV-433 FEELER GAUGE ## FV-433B FEELER GAUGE - SOLID ## FV-434CB12 FRONT FACE PLATE (2 X 12") ## FV-434CB16 FRONT FACE PLATE (1 X 16") ## FV-435WC OIL BURNER NOZZLE (1.75 X 60W) ## FV-435B OIL BURNER NOZZLE (2.00 X 60W) ## FV-436A SUPPORT LEG (POLY TANK) ## FV-437 HIGH LIMIT (REAR) ## FV-438 LIFTING HARNESS ## FV-440A WHEEL AXLE - (POLY TANK) ## FV-446 SIGHT GLASS WASHER ## FV-448 MAIN RELAY ## FV-449SI-R SMART INDICATOR RETROFIT KIT ## FV-450SI POWER SUPPLY INDICATOR 2014> | FVO-422A | CLEAR FUEL LINE - BURNER TO TANK |
| ## 48-6C BRASS FITTING (POLY TANK TO FILTER) 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FVO-423A | PICK UP TUBE C/W ELBOW |
| 2103-C-CGA 3/8" SHUT OFF VALVE 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FVO-423B | RETURN LINE ELBOW |
| 122-C 3/8" BRASS HEX NIPPLE 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | 48-6C | BRASS FITTING (POLY TANK TO FILTER) |
| 49-6C 3/8" MP X 3/8" M.FL BRASS ELBOW 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR 2014> | 2103-C-CGA | 3/8" SHUT OFF VALVE |
| 49-6B 1/4" MP X 3/8" M.FL BRASS ELBOW FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435W OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | 122-C | 3/8" BRASS HEX NIPPLE |
| FV-431 BURNER GASKET C/W CLAMP FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR 2014> | 49-6C | 3/8" MP X 3/8" M.FL BRASS ELBOW |
| FV-432 PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | 49-6B | 1/4" MP X 3/8" M.FL BRASS ELBOW |
| FV-433 FEELER GAUGE FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-431 | BURNER GASKET C/W CLAMP |
| FV-433B FEELER GAUGE - SOLID FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-432 | PRESSURE TEST GAUGE ADAPTER C/W PLUG 1/4 NPT |
| FV-434CB12 FRONT FACE PLATE (2 X 12") FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-433 | FEELER GAUGE |
| FV-434CB16 FRONT FACE PLATE (1 X 16") FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-433B | FEELER GAUGE - SOLID |
| FV-435WC OIL BURNER NOZZLE (1.75 X 60W) FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-448 SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-434CB12 | FRONT FACE PLATE (2 X 12") |
| FV-435B OIL BURNER NOZZLE (2.00 X 60W) FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-434CB16 | FRONT FACE PLATE (1 X 16") |
| FV-436A SUPPORT LEG (POLY TANK) FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-435WC | OIL BURNER NOZZLE (1.75 X 60W) |
| FV-437 HIGH LIMIT (REAR) FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-435B | OIL BURNER NOZZLE (2.00 X 60W) |
| FV-438 LIFTING HARNESS FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-436A | SUPPORT LEG (POLY TANK) |
| FVO-440A WHEEL AXLE - (POLY TANK) FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-437 | HIGH LIMIT (REAR) |
| FV-446 SIGHT GLASS C/W FIBER GASKET FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-438 | LIFTING HARNESS |
| FV-447 SIGHT GLASS WASHER FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FVO-440A | WHEEL AXLE - (POLY TANK) |
| FV-448 MAIN RELAY FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-446 | SIGHT GLASS C/W FIBER GASKET |
| FV-449SI-R SMART INDICATOR RETROFIT KIT FV-450SI POWER SUPPLY INDICATOR 2014> | FV-447 | SIGHT GLASS WASHER |
| FV-450SI POWER SUPPLY INDICATOR 2014> | FV-448 | MAIN RELAY |
| | FV-449SI-R | SMART INDICATOR RETROFIT KIT |
| EV-461 PLIMP INLET/OLITLET ADAPTED | FV-450SI | POWER SUPPLY INDICATOR 2014> |
| I V-401 | FV-461 | PUMP INLET/OUTLET ADAPTER |

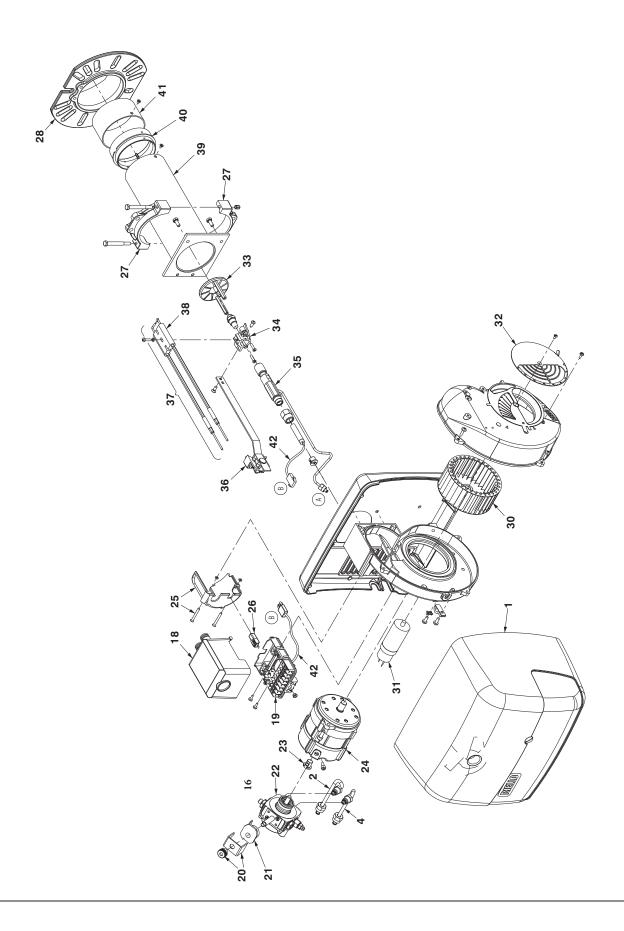
| FV-471 | 30" 4 WIRE BX CABLE |
|--------|---------------------|
| FV-472 | 40" 2 WIRE BX CABLE |

| | ACCESSORIES |
|--------------|--|
| FV-HD12 | 12" X 12-FT HITEX DUCTING PIN LOCK |
| FV-HD12X25 | 12" X 25-FT HITEX DUCTING PIN LOCK |
| FV-HDG16 | 16" X 25-FT HITEX DUCTING CUFF & BUCKLE |
| FV-THB | THERMOSTAT C/W 25FT CORD/MALE PLUG END |
| FV-THB (15M) | THERMOSTAT C/W 50FT CORD/MALE PLUG END |
| FVO-TLS | TIGERLOOP SYSTEM C/W FILTER |
| FVO-TLSF | REPLACEMENT FILTER FOR TIGERLOOP |
| FVO-TLPRV | PRESSURE RELIEF VALVE FOR TIGERLOOP |
| GR48300-6 | 3/8" X 25 FT GRIZZLY HOSE ASSEMBLY FOR TIGERLOOP |
| GR48600-6 | 3/8" X 50 FT GRIZZLY HOSE ASSEMBLY FOR TIGERLOOP |
| FV-VK | 6" X 3FT C-VENT C/W RAIN CAP |
| FVO-C7001001 | EMERGENCY SERVICE KIT |
| FVO-C7050010 | VACUUM & PRESSURE TESTER MANIFOLD |





F-10 OIL FIRED BURNER - PARTS DIAGRAM

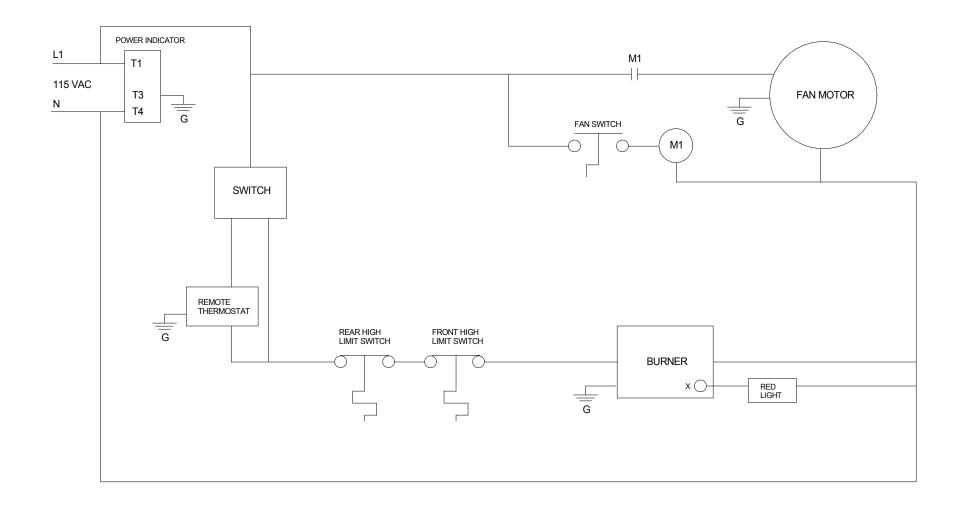


| | RIELLO BURNER F10 - PARTS LIST DIAGRAM | | | |
|----|--|--|--|--|
| N# | PART NUMBER | DESCRIPTION | | |
| 1 | FV-20136636-OIL | PLASTIC BURNER COVER C/W LABELS | | |
| 2 | FVO-3006992 | SUPPLY LINE | | |
| 4 | FVO-3006993 | RETURN LINE | | |
| 16 | FVO-3020076 | PUMP ADAPTER FOR NOZZLE HOLDER FUEL LINE | | |
| 18 | FVO-C700-1029 | IGNITION MODULE | | |
| 19 | FVO-3002278 | SUB-BASE FOR IGNITION MODULE | | |
| 20 | FVO-3006553 | COIL U-BRACKET C/W KNURLED NUT | | |
| 21 | FVO-3002279 | PUMP COIL | | |
| 22 | FVO-20136488 | BURNER PUMP | | |
| 23 | FVO-3000443 | PUMP DRIVE KEY | | |
| 24 | FVO-C7001034 | BURNER MOTOR | | |
| 25 | FVO-3007317 | AIR TUBE COVER PLATE | | |
| 26 | FVO-20132573 | PHOTO CELL | | |
| 27 | FVO-3005854 | SEMI FLANGE | | |
| 28 | FVO-3005855 | MOUNTING FLANGE | | |
| 30 | FV-3005788 | BURNER FAN | | |
| 31 | FVO-3005844 | BURNER CAPACITOR | | |
| 32 | FVO-3007205 | AIR DAMPER | | |
| 33 | FVO-3006978 | TURBULATOR DISC | | |
| 34 | FVO-3006966 | ELECTRODE SUPPORT | | |
| 35 | FVO-20136639 | NOZZLE HOLDER | | |
| 36 | FVO-3005889 | REGULATOR ASSEMBLY | | |
| 37 | FVO-3005891 | ELECTRODE ASSEMBLY | | |
| 38 | FVO-3005869 | ELECTRODE PORCELAIN | | |
| 39 | FVO-3006982 | BLAST TUBE | | |
| 40 | FVO-3006983 | END CONE ADAPTER | | |
| 41 | FVO-3006984 | END CONE | | |
| 42 | FVO-20136491 | PREHEATER | | |



26 Benfield Drive , St.Catharines Ontario Canada 905-685-4243

FV-400 SERIES - WIRING SCHEMATIC 2011



| FLAGRO INDUSTRIES LIMITED | | |
|---------------------------|----------------------------|-------------------------|
| TITLE: | FVO-400 - WIRING SCHEMATIC | DWG. NO. FV-400 WS 2011 |