OPERATING INSTRUCTIONS MANUAL

(Please retain for future reference)

For

F-1000T DUAL FUEL CONSTRUCTION HEATER



CERTIFIED FOR USE IN CANADA AND U.S.A.
As per Standard ANSI Z83.7 2000/
CSA 2.14 2000 Gas Fired Construction Heaters Unvented /Unattended Type.



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.

ALWAYS PROVIDE ADEQUATE VENTILATION. 1 SQ. IN. OF FRESH AIR MUST BE SUPPLIED FOR EVERY 1000 BTUH OF HEAT.

THIS HEATER SHALL BE INSTALLED SUCH THAT IT IS NOT DIRECTLY EXPOSED TO WATER SPRAY, RAIN AND/OR DRIPPING WATER.

This heater is designed and approved for use as a construction heater under ANSI Z83.7 2000 and CSA 2.14 2000 Gas Fired Construction 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	F-1000T	
Input	1,000,000 btuh	
Fuel	Natural Gas or Propane	
Inlet Pressure	Natural Gas: 7.0" W.C.	
	Propane: 11" W.C.	
Ignition	Direct Spark Ignition	
	Thermostat Control	
Air Circulation	7000 cfm	
Fuel Consumption	46 lbs/hr	
	952 cfh	
Approved	cULus listed	

INSTALLATION:

The installation of this heater for use with natural gas shall conform with local codes or, in the absence of codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54 and the Natural Gas and Propane Installation Code, CSA B149.1.

The installation of this heater for use with propane tank or cylinder shall conform with Local codes or, in the absence of local codes, with the Standard for the Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA 58 and the Natural Gas and Propane Installation Code, CSA B149.

This heater must be located at least 10ft (3m) from any propane gas cylinder. This heater shall not be directed toward any propane gas container within 20ft (6m).

CLEARANCE TO COMBUSTIBLES:

F-1000T TOP: 4 ft FRONT: 16 ft SIDES: 2 ft REAR: 2 ft

CONNECTING THE CYLINDER:

If cylinders are used to supply the heater, no cylinders smaller than 100lb capacity shall be used. These cylinders must supply a vapor withdrawal only.

- 1. All cylinder connections must be made using a wrench to tighten the POL fitting.
- 2. Be sure that the cylinder valve is in the closed position when connection or disconnecting the cylinder.
- 3. A soap and water solution must be applied to all connections in order to leak check the system.

The gas must be turned off at the propane supply cylinder(s) when the heater is not in use. When the heater is to be stored indoors, the connection between the propane supply cylinder(s) and the heater must be disconnected and the cylinders removed from the heater and stored in accordance with Standard for the Storage and Handling or Liquefied Petroleum Gases, ANSI/NFPA 58 and CSA B149.1, Natural Gas and Propane Installation Code.

PIPING:

This heater must be installed by a qualified gas technician following local codes published by the authority having jurisdiction. Sizing of supply piping must be determined using the length of pipe run as well as total btuh rating of the appliance(s). Appropriate piping tables must be used to determine size of supply piping dependant on the length of run from source.

PRESSURES: MAXIMUM INLET PRESSURES: LP: 14.0 IN. WC.

NG: 14.0 IN. WC.

MINIMUM INLET PRESSURES: LP: 11.0 IN. WC.

NG: 7.0 IN. WC.

This heater must be supplied by pressures indicated on the

approval label. Over pressure may cause controls to fail.

<u>DO NOT</u> supply this unit with more than ½ psig (14.0 in. W.C.) Note: A second stage regulator must be installed if the supply

pressure exceeds ½ psig.

FUEL: This heater will operate on propane or natural gas. The manifold

pressures are listed on the approval label. Ensure that the proper pressure settings are achieved depending on the fuel being used.

A fuel selector valve is located on the manifold of the heater. Ensure that this valve is in the proper position depending on the fuel being used. DO NOT operate the heater with the valve in the

incorrect position.

HOSES: All hoses used to connect this heater of fuel supply must be Type 1

approved propane / natural gas hose assemblies.

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.

120v supply must be available. Please note that the motor on this unit requires 20 amps. Ensure appropriate gauge extension cord is used.

MAINTENANCE:

- 1. Every construction heater should be inspected before each use, and at least annually by a qualified service person.
- The hose assembly 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.
- 3. The appliance must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- 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.
- 5. 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.

START UP INSTRUCTIONS:

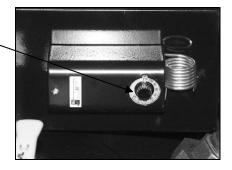
1. Set fuel selector valve according to gas supply to be used.



- 2. Connect construction heater to gas supply with approved hose assembly.
- 3. Plug the electrical cord into a 20 amp supply.
- 4. Open all gas supply valves.
- 5. Depress the main switch to the "START" position. The fan will start and the burner should ignite. Release switch to "RUN" position.



6. Set the Thermostat to the desired temperature.

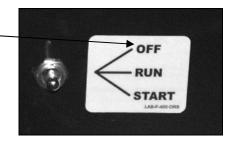


7. If heater fails to ignite after 3 attempts call your supplier for service.

TO SHUT DOWN:

1. Close main gas supply valve while heater is operating.

2. Move main switch to the "OFF" position.



3. Disconnect heater from gas supply.

F-1000T TROUBLESHOOTING ANALYSIS

PROBLEM

POSSIBLE CAUSES

REMEDY

Heater will not light

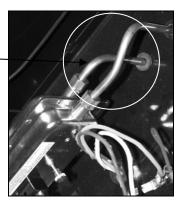
Air switch improperly set

- use centre adjusting screw to set air switch. Turn clockwise to increase sensitivity, turn counter clockwise to decrease sensitivity.



Blockage in copper inlet tubes

- disconnect tubes from air switch. Use high pressure air to clean any debris that may block airflow.



Rear of heater blocked

- ensure rear of heater is unobstructed and proper rear clearances are maintained (see approval label)



Faulty switch

- replace switch

Gas supply

- ensure required gas supply pressures are supplied to the heater (see approval label)

Solenoid

ensure solenoid is energized (use volt meter)

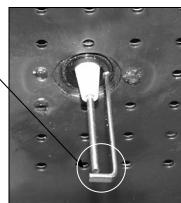
- ensure plunger in solenoid is being activated (use manometer at test point

after solenoid)



Spark Plug

- ensure gap in spark plug is approx. 1/8"
- check spark plug wire connections
- ensure spark plug has good spark
- replace spark plug if necessary



Ignition Board

- ensure electrical signals for both spark plug and solenoid are present (use volt
- meter)
- ensure ignition board is properly grounded



Thermostat

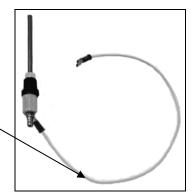
- ensure thermostat is calling for heat



Heater will not remain lit after start up

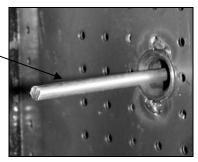
Faulty flamerod wire

- check flamerod wire for any damage. Replace if necessary. <



Faulty flamerod

-ensure connections are secure. Replace flamerod if necessary.



Ignition board

- check ground wire for proper connection
- check polarity of extension cord compared to polarity of plug on the heater
- replace faulty ignition board



Thermostat

- ensure thermostat is calling for heat

Electrical

All components

- before replacing any component, all connections must be checked to ensure electrical circuit is complete. (use volt meter and enclosed wiring diagram).
- any point in the circuit where 120v is not achieved indicates location of problem and/or possible faulty component.



Piping

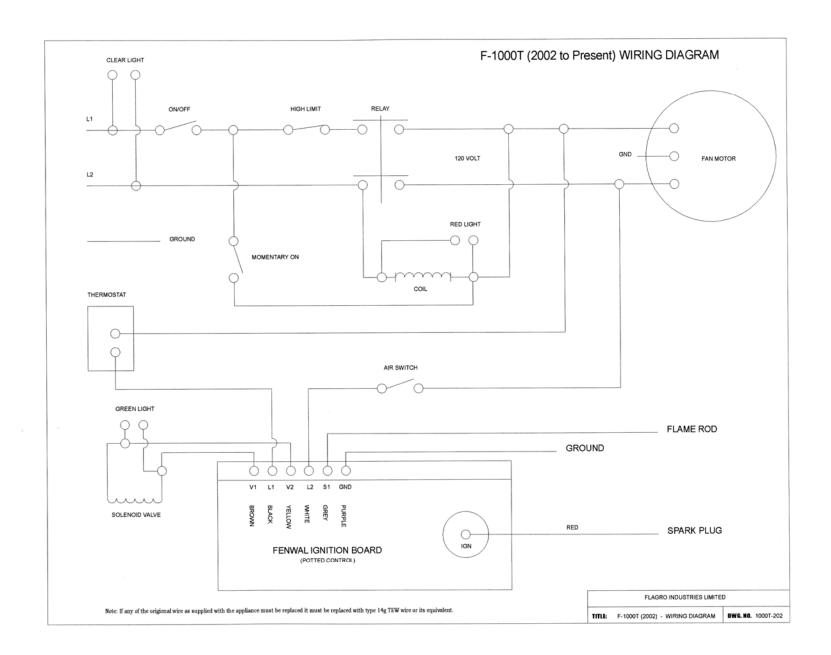
All pipe fittings

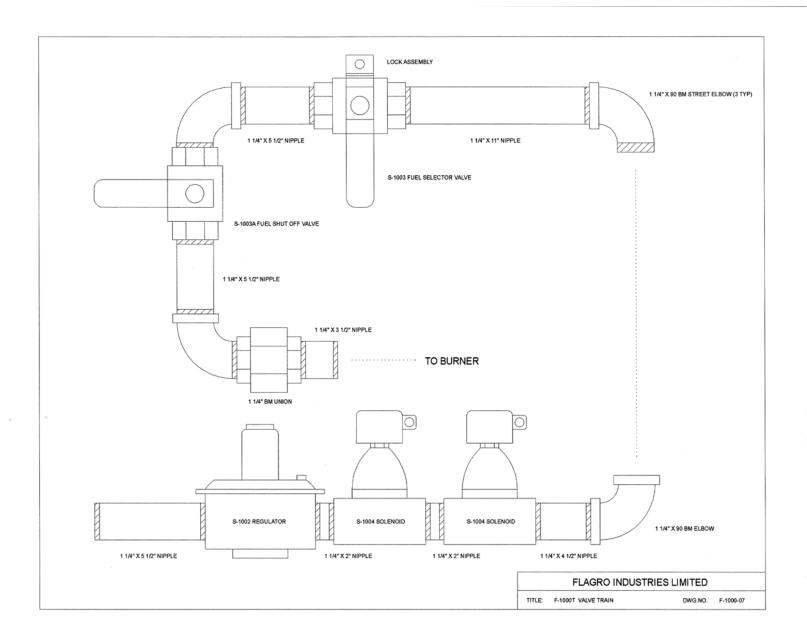
- When loosened, tightened or replaced, the complete fitting should be removed and approved pipe dope applied to all male threads before reconnection.
- After a heater is serviced, the valve train should be checked for leaks with a soap and water solution or approved leak detector solution.

PARTS LIST

F-1000T CONSTRUCTION HEATERS

S-1000	1 HP Motor	
S-1001	Fan blade	
S-1002	Regulator	
S-1002FS	S.S. Filter screen	
S-1002T	Modulating regulator hi/low fire	
S-1003	Fuel selector valve	
S-1003A	Fuel shut-off valve	
67871A	Solenoid valve cover	
S-1004	Solenoid valve	
S-1005	Burner	
S-406	Flame rod	(S-1006)
S-1007	Flame rod wire	
S-408A	Long reach igniter	(S-1008)
S-1009	Ignition wire	
S-410	High temperature limit	(S-1010)
S-411	Off-run-start switch	(S-1011)
S-412	Main relay	(S-1012)
S-414	Air proving switch	(S-1014)
S-415A	Ignition control-120V (Fenwal) old	(S-1015)
S-415P	Potted ignition control 120V (Fe	enwal 02)
S-416	Thermostat	(S-1016)
S-1019	Screen assembly	
S-1020A	Clear indicator light	
S-1020B	Red indicator light	
S-1020C	Green indicator light	
S-1021	Power cord including plug	
S-1022	Rubber wheel - 8"	
B42R1.25	1-1/4" Second Stage Regulator	
S54180-20	S54180-20 1-1/4" x 15-ft Hose Assembly	





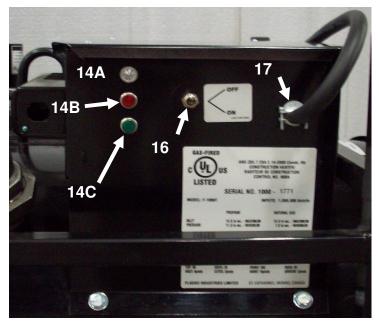


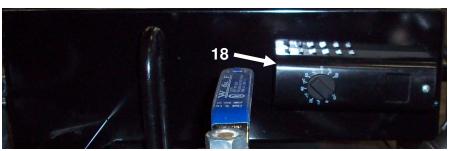


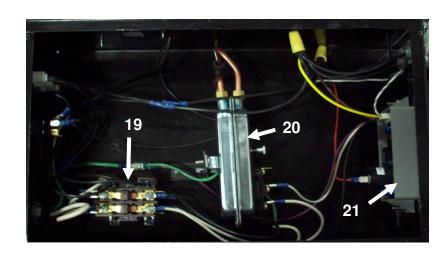








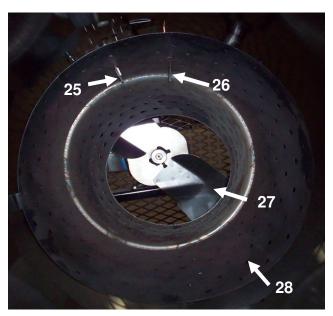






1 1 1/4" x 3 1/2" Nipple 40-113G3. 2 1 1/4" BM Union 40-104-20 3 1 1/4" x 90 BM Street Elbow 40-116-20 4 1 1/4" x 5 1/2" Nipple 40-113G5. 5 Fuel Shut Off Valve S-1003A 6 Fuel Selector Valve S-1003 7 1 1/4" x 11" Nipple 40-113G1 8 Pipe Hanger S-1031 9 1 1/4" x 4 1/2" Nipple 40-113G4. 10 Solenoid S-1004 11 1 1/4" x 2" Nipple 40-113G2 12 Regulator S-1002 14A Clear Light Indicator S-1020A 14B Red Light Indicator S-1020B 14C Green Light Indicator S-1020C 16 Off/ON Switch S-411 17 Power Cord including plug S-1021 18 Thermostat S-416 19 Main Relay S-412 20 Air proving switch S-414 21 Potted Ignitino contro	Item #	<u>Description</u>	<u>P/N</u>
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26 Flame Rod S-406 27 Fan Blade S-1001 28 Burner S-1005	24	Rear Filter Screen	S-1002FS
27 Fan Blade S-1001 28 Burner S-1005	25	Long reach Igniter	S-1009
28 Burner S-1005	26		S-406
	27	Fan Blade	S-1001
29 1 1/4" x 15FT Hose Assembly S54180-20	28		
	29	1 1/4" x 15FT Hose Assembly	S54180-20
30 1 1/4" Second Stage Reg. B42R1.25	30	1 1/4" Second Stage Reg.	B42R1.25





Hose & Regulator

