

# flagro

INDUSTRIES LIMITED



## PRODUCT CATALOGUE

# INDIRECT FIRED HEATERS



**FVO-400**



**FVNP-400**

MODEL	FVO-400	FVNP-400
Heat Capacity	up to 390,000 btuh	up to 390,000 btuh
Fuel Tank Capacity/Run Time	42 US Gallons / 14 hrs	External
Heater Dimensions/Weight	70" x 29" x 52" / 450 lbs	70" x 29" x 47" / 365 lbs
Heater Exchanger	16 Gauge 304 Stainless Steel	16 Gauge 304 Stainless Steel
Air Circulation	2,500 CFM - Ductable up to 50ft	2,500 CFM - Ductable up to 50ft
Air Outlet/Inlet	Outlet - 2 x 12" Dia. or 1 x 16" Dia.	Outlet - 2 x 12" Dia. or 1 x 16" Dia.
Wheels	16" Dia. Flat Free Wheels	16" Dia. Flat Free Wheels
Power Requirements	115V / 15Amp (10.5 Amp Draw)	115V / 15Amp (10.5 Amp Draw)



## FEATURES:

Proven Riello burner technology including nozzle pre-heater for cold weather start up and upgraded low temperature fuel pump.

High density flat free wheels, and smart power indicator control Stainless Steel welded heat exchanger

Optional: Tiger-loop fuel filter system that eliminates fuel system air locks & 118 US Gallon Fuel Tank.



**FVO-400RC**



**FVNP-400RC**

MODEL	FVO-400RC	FVNP-400RC
Heat Capacity	up to 390,000 btuh	up to 390,000 btuh
Fuel Tank Capacity/Run Time	42 US Gallons / 14 hrs	External
Heater Dimensions/Weight	70" x 29" x 54" / 450 lbs	70" x 29" x 54" / 365 lbs
Heater Exchanger	16 Gauge 304 Stainless Steel	16 Gauge 304 Stainless Steel
Air Circulation	4,000 CFM - Ductable up to 150ft	4,000 CFM - Ductable up to 150ft
Air Outlet/Inlet	Outlet - 2 x 12" Dia. or 1 x 16" Dia. Inlet - 1 x 16" Dia.	Outlet - 2 x 12" Dia. or 1 x 16" Dia. Inlet - 1 x 16" Dia.
Wheels	16" Dia. Flat Free Wheels	16" Dia. Flat Free Wheels
Power Requirements	115V / 15Amp (10.5 Amp Draw)	115V / 15Amp (10.5 Amp Draw)



## FEATURES:

Proven Riello burner technology including nozzle pre-heater for cold weather start up and upgraded low temperature fuel pump.

Powerful backward incline blower provides ultra-quiet operation & low amperage, ductable up to 150FT.

High density flat free wheels, smart power indicator control and volt meter.

Optional: Tiger-loop fuel filter system that eliminates fuel system air locks & 118 US Gallon Fuel Tank.



**FVO-200RC**



**FVO-200RC42**



**FVNP-200RC**

MODEL	FVO-200RC	FVO-200RC42	FVNP-200RC
Heat Capacity	185,000 btuh	185,000 btuh	200,000 btuh
Fuel Tank Capacity/Run Time	23 US Gallons / 21 hrs	42 US Gallons / 38 hrs	External
Heater Dimensions/Weight	51.5" x 27" x 48" / 350 lbs	51.5" x 27" x 48" / 425 lbs	51.5" x 27" x 44" / 300 lbs
Heater Exchanger	16 Gauge 304 Stainless Steel	16 Gauge 304 Stainless Steel	16 Gauge 304 Stainless Steel
Fan Motor	2,600 CFM Ductable up to 150ft	2,600 CFM Ductable up to 150ft	2,600 CFM Ductable up to 150ft
Air Outlet/Inlet	Outlet - 1 x 12" Dia. or 1 x 16" Dia. Inlet - 1 x 12" Dia.	Outlet - 1 x 12" Dia. or 1 x 16" Dia. Inlet - 1 x 12" Dia.	Outlet - 1 x 12" Dia. or 1 x 16" Dia. Inlet - 1 x 12" Dia.
Wheels	12" Dia. Pneumatic Wheels 6" Lockable Caster Wheels	16" Dia. Flat Free Wheels	12" Dia. Pneumatic Wheels 6" Lockable Caster Wheels
Power Requirements	115V / 15Amp (6 Amp Draw)	115V / 15Amp (6 Amp Draw)	115V / 15Amp (6 Amp Draw)



## FEATURES:

Proven Riello burner technology including nozzle pre-heater for cold weather start up and upgraded low temperature fuel pump.  
 Powerful backward incline blower provides ultra-quiet operation & low amperage, smart power indicator control and ductable up to 150FT.  
 Stackable frame allow for convenient transportation and storage.

# INDIRECT FIRED HEATERS



MODEL	FVO-750	FVNP-750
	<b>OIL</b>	<b>DUAL FUEL - LP/NG</b>
Heat Capacity	750,000 btuh	750,000 btuh
Temperature Rise	130°F	130°F
Fuel Consumption	5.2 Gal./hr	37 LBS./hr - 806 CFH
Heat Exchanger	16g 304 S/S	16g 304 S/S
Fan Motor	7.5 HP 7,000 CFM	7.5 HP 7,000 CFM
Fan Control	VFD Standard	VFD Standard
Ignition	Direct Spark Ignition	Direct Spark Ignition
Nozzle Size/Gas Pressure	4.50 x 60W @ 160 PSI	Propane - 1.5" W.C. Natural Gas - 2.2" W.C.
Air Outlet	Two 16" Dia.	Two 16" Dia.
Air Inlet	Two 16" Dia.	Two 16" Dia.
Power Requirements	1 PH / 208-230V or 3 PH / 208-230V	1 PH / 208-230V or 3 PH / 208-230V
Amperage Draw	18 AMP @ 1 PH 14 AMP @ 3 PH	18 AMP @ 1 PH 14 AMP @ 3 PH
Approvals	cETLus	cETLus
L x W x H	98" x 36" x 61"	98" x 36" x 61"
Weight	1,390 LBS	1,390 LBS

# INDIRECT FIRED HEATERS



Riello burners used exclusively for both oil and LP / NG models. "Plug and Play" burner assembly kit sold separately to convert heater from oil to LP / NG.

Oil units include "Tiger loop" system which allows for single fuel line supply and de-aeration of fuel line providing optimum burner performance.

Equipped with a VFD control allows for "soft start", regulating the fan speed at start up and shut down. It also provides overload motor protection and voltage management

## STANDARD EQUIPMENT:

Both 1 phase 208-230v and 3 phase 208-230v power supply connections are included on all models. Waterproof, emergency disconnect provided.

Recessed control panel protects the indicator lights, switches and disconnects, indicator lights show proper burner operations and possible burner lockout.

The reverse inclined blower, powered by the 7.5hp TEFC motor, allows for outlet ducting over 100ft. This pressurized design provides even airflow from both duct outlets.

Proven Flagro heat exchanger design includes fully welded, 16g 304 series stainless steel



## POWERFUL, FLEXIBLE AND DEPENDABLE HEAT FOR ANY JOB

The FV-750 indirect fired heater provides 130° F. temperature rise at 7000cfm. Return air duct inlet allows for recirculation of warm inside air and/or pressurization of building as desired. Single phase or three phase power supply operates both burner and fan motor.

Includes integrated fork lift pockets and lift points.  
Easy access to burner, fuel lines and electrical controls.  
Approved for indoor and outdoor installations.



16" x 25ft Hitex Outlet Ducting  
16" x 25ft Ventflex Inlet Ducting



Remote Thermostat Control  
c/w 25ft Cord

# SELF CONTAINED HEATER TRAILERS

PORTABLE HEAT AND POWER ANYWHERE YOU NEED IT



## FVO-1000TR/FVO-1100TR

- Two available models, FVO-1000TR or FVO-1100TR
- 1000TR; Includes 2 x Flagro FVOHC-400 Indirect Fired Heating Units
- 1100TR; Includes 2 x Flagro FVO-400RC Indirect Fired Heating Units with Full Recirculation.
- Can be equipped with 4 x 12" or 2 x 16" Duct Outlets
- 2 x 3500 LBS Dual Axle, 4 x 15" Galvanized Rims with Radial Tires

## STANDARD FEATURES

300 US Gal. TC approved Steel Diesel Tank with Full Fuel Containment  
Yanmar or Kubota 8KW / Stamford Newage Combo Genset  
Solid Steel Welded Channel Frame and Floor  
Electric Emergency Second Axle Brakes  
Safety Chains, Ball or Pintle Hitch & Jack

# SELF CONTAINED HEATER TRAILERS

<b>ENGINE:</b>	Yanmar or Kubota Liquid Cooled Diesel
	Electric Start/Glow Plugs Battery Charging alternator Heavy duty radiator and Air Cleaner
<b>HEATERS:</b>	
FVO-1000TR FVO-1100TR	2 X FVOHC-400 Flagro Indirect Fired Heaters 2 X FVO-400RC Flagro Indirect Fired Heaters with Recirculation
<b>FUEL CONSUMPTION:</b>	
FVO-1000TR FVO-1100TR	Engine: 1.08 GPH at full load Heaters: 400,000 BTU x 2 @ 2.75 GPH 44 hour run time before refuelling
<b>GENERATOR:</b>	Stamford Newage Generator
FVO-1000TR FVO-1100TR	Single Phase - 120 V Instrument Panel includes keyed ignition and hour meter 8 kw @ 1800 rpm (14HP)
<b>FUEL TANK:</b>	
	300 US Gallons TC Approved Steel Tank 2" Fuel inlet nozzle mounted at the side of the trailer for ground access
<b>DIMENSIONS:</b>	
FVO-1000TR	Length - 15ft, Width - 7ft-4in, Height - 7ft Weight - 4300 LBS (empty)
FVO-1100TR	Length - 15ft, Width - 7ft-4in, Height - 7ft Weight - 4300 LBS (empty)
<b>APPROVALS:</b>	CSA & ESA approved DOT approved trailer



# DUCTABLE DIRECT FIRED HEATERS



**THC-175DF**



**THC-355CDF**

MODEL	THC-175DF	THC-355CDF
Propane	THC-175DF - dual fuel	THC-355CDF - dual fuel
Natural Gas	THC-175DF - dual fuel	THC-355CDF - dual fuel
Fuel Consumption	8 lbs/hr - 175 CFH	16 lbs/hr - 307 CFH
Ignition System	Direct Spark	Direct Spark
Heat Capacity	175,000 btuh	330,000 btuh
Heated Air Output	1,200 CFM	2,600 CFM
Power Requirement	115V/60Hz/1ph/15amp	115V/60Hz/1ph/15amp
Thermostat	20ft Cord for remote location	20ft Cord for remote location
Shipping Weight	193 lbs	390 lbs
Net Weight	164 lbs	345 lbs
Net Weight	164 lbs	345 lbs
L x W x H	35" x 24" x 33"	47" x 32" x 42"



**THCP-DD and  
THCP-WD12**



**THCP-DD  
THCP-DD18**



**THCP-WD12  
THCP-WD18**



**THCP-HD85  
THCP-HD175**

## IDEAL FOR TENT AND CONSTRUCTION HEATING APPLICATIONS

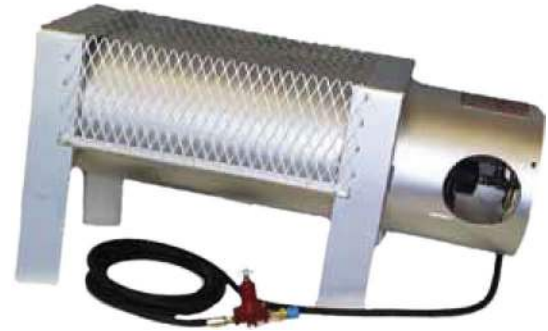
Thermostatically controlled for a consistent, comfortable environment  
 Operates as both a fresh air circulator or a heater at the touch of a switch  
 Ducting options allow for heat to be directed to specific areas  
 Quiet, efficient, easy to set-up, rugged design

# DIRECT FIRED CONSTRUCTION HEATERS



**F-150**

Adjustable heat from 50,000 to 150,000 btuh



**F-375**

Adjustable heat from 220,000 to 375,000 btuh

MODEL	F-150	F-375
Fuel	Vapor Propane	Vapor Propane
Heat Capacity	Max 150,000 btuh Min 50,000 btuh	375,000 btuh 220,000 btuh
Manifold Pressure	2-1/4 to 20 PSI	7 to 20 PSI
Hose Length	20ft is standard	20ft is standard
Regulator With POL	Adjustable to 20 PSI max.	Adjustable to 20 PSI max.
Approval	UL of Canada Listed	UL of Canada Listed
Weight	32 lbs	65 lbs
L x W x H	30" x 11.25" x 14"	42" x 17" x 22"
Air Outlet	8" Diameter	13" Diameter
Fuel Consumption	2.3 to 6.9 lbs/hr	10.1 to 17.3 lbs/hr
Ignition	Manual	Manual
Optional Fan	N/A	800 CFM fan assembly (120V)



2001-S2  
2 cylinder manifold



2001-S3  
3 cylinder manifold

## DEPENDABLE HEAT WHENEVER YOU NEED IT

- Engineered for simple operation and minimal servicing
- Light and highly portable
- Stackable for easy transportation and storage
- Designed to operate without a fan or electricity
- Temporary heat for use during construction and maintenance



## ALL THE HEAT YOU NEED

Thermostatically controlled  
 Heavy duty frame under 50 pounds  
 Recessed controls to eliminate damage  
 Stackable for easy storage and transportation  
 Improved maintenance accessibility  
 Your choice of natural gas or propane



FRHR-100N



MODEL	FRHR-100N (Natural Gas)	FRHR-100P (Propane)
Heat Capacity	Natural Gas 90,000 btuh	Propane 90,000 btuh
Manifold Pressure	Natural Gas 7.0" W.C.	Propane 10.0" W.C.
Fuel Consumption	100 CFH	5 lbs/hr
Approval Weight	cETLus - Intertek 47 lbs	cETLus - Intertek 47 lbs
L x W x H	16" x 16" x 35"	16" x 16" x 35"
Ignition	Piezo Ignition	Piezo Ignition
Standard	Thermostat Control	Thermostat Control
Inlet	3/8" FNPT	3/8" FNPT



FRHP-101

Hose Assembly



MAN-E1

Single Manifold



MAN-E2

Dual Manifold

# DUAL FUEL CONSTRUCTION HEATERS



**F-400T**



**F-1500T**

MODEL	F-400T	F-1000T	F-1500T
Fuel	Propane or Natural Gas	Propane or Natural Gas	Propane or Natural Gas
BTU/hr	400,000 btuh	1,000,000 btuh	1,500,000 btuh
Low Fire BTU/hr	N/A	N/A	650,000 btuh
Fuel Consumption			
Propane	18.5 lbs/hr	46 lbs/hr	69 lbs/hr
Natural Gas	380 CFH	952 CFH	1428 CFH
Inlet Pressure			
Propane	11" W.C. MAX	11" W.C. MAX	11" W.C. MAX
Natural Gas	4.0" W.C. MIN	10" W.C. MIN	10" W.C. MIN
Power Requirement	115V/60Hz/1PH/15Amp	115V/60Hz/1PH/20Amp	115V/60Hz/1PH/20Amp
Fan Motor	1/3 HP	1 HP	1 HP
Air Circulation	2,000 CFM	7,000 CFM	7,000 CFM
Ignition	Direct Spark Control	Direct Spark Control	Direct Spark Control
Thermostat Control	Yes	Yes	Yes
L x W x H	48" x 22" x 24"	61" x 29" x 38"	61" x 29" x 38"
Air Outlet	15" Diameter	26" Diameter	26" Diameter
Weight	90 lbs	356 lbs	360 lbs

## REQUIRED EQUIPMENT FOR HEATER INSTALLATIONS

Recommended For Model No.	Second Stage Regulator*	Typical Hose Assembly
<b>F-400T</b>	B42R0.75 (3/4" NPT)	S52180-12 3/4" x 15ft Hose Assembly
<b>F-1000T</b>	B42R1.25 (1-1/4" NPT)	S54180-20 1 1/4" x 15ft Hose Assembly
<b>F-1500T</b>	B31R1.25 (1-1/4" NPT)	S54180-20 1 1/4" x 15ft Hose Assembly

Note: \*Regulator sizing assumes job site inlet pressure of 2-10 PSI.  
\*\*Custom hose assemblies are available upon request.



Ventless regulator available on request



# PROPANE TORCH KITS



**FT15-250**

## PRE-ASSEMBLED TORCH, HOSE & REGULATOR KITS

MODEL	Description
<b>FT15-100</b>	FT-100, 15ft hose and regulator (25,000 to 80,000 BTUs)
<b>FT15-250</b>	FT-250, 15ft hose and regulator (90,000 to 300,000 BTUs)
<b>FT15-500</b>	FT-500, 15ft hose and regulator (110,000 to 410,000 BTUs)

Other hose lengths available

## TORCHES EQUIPPED WITH 100% SAFETY SHUT-OFF SYSTEM

MODEL	Description
<b>FT15-250SV</b>	Kit complete with FT-250SV Torch, 15ft hose and regulator
<b>FT15-500SV</b>	Kit complete with FT-500SV Torch, 15ft hose and regulator
<b>FT-250SV</b>	Torch only (90,000 to 300,000 BTUs)
<b>FT-500SV</b>	Torch only (110,000 to 410,000 BTUs)



**FT-250SV**

## INSTANT HEAT WHEN YOU NEED IT

Provides instant heat for many applications  
Heavy duty design and construction

Adjustable heat to suit your many needs:

- asphalt melting
- stress relieving
- drying roofs
- thawing/ice melting
- weed burning
- preheating for welding



1230VK1 Fitted  
Regulator Kit



34180-4  
15ft Hose  
Assembly



## WELL TYPE LIQUID BURNERS

Designed for tar kettle applications  
 Formed with heavy duty SCH 80  
 steel pipe coil  
 FT2 Series for use with up to 4" flues  
 FT5 Series for use with up to 6" flues



MODEL	BTU
FT2-3	300,000
FT2-5	500,000
FT2-7	700,000
FT2-9	900,000
FT5-10	1,000,000
FT5-15	1,500,000
FT5-20	2,000,000

## STRAIGHT LIQUID BURNERS

Formed with heavy duty SCH 80 steel pipe coil  
 Used as asphalt melters, crop dryers and high  
 pressure water heaters



MODEL	BTU
FT1-3	300,000
FT1-5	500,000
FT1-7	700,000
FT1-9	900,000
FT4-10	1,000,000
FT4-15	1,500,000
FT4-20	2,000,000



## LIQUID TORCHES

Ideal torch where high outlet is required  
 Allows full use of fuel in propane cylinder  
 FT6 Series provided with 2 ft handle  
 FT8 Series provided with 4 ft handle

MODEL	BTU
FT6-3	300,000
FT6-5	500,000
FT6-7	700,000
FT6-9	900,000
FT8-10	1,000,000
FT8-15	1,500,000
FT8-20	2,000,000



# flagro

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