# Inclusive Energy Ltd Unit Inventory

						Cint miterio, y		Current Market				
Unit	VIN / Serial #	Year	License #	Make	Model	Model	Purchased Price	Value	Purchased Date	Mileage	Hours	Hours
101		2013		KENWORTH		T800 TandemAxle- Winch	\$229,100		2013	37,655	1,211.7	NA
102		2013		KENWORTH		T800 TandemAxle- Winch	\$229,100		2013	36,221	1,254.2	NA
103		2013		KENWORTH		T800 TriAxle-TexBed	\$311,200		2013	34,863	1,789.4	NA
104		2013		KENWORTH		T800 TandemAxle- Winch	\$229,100		2013	56,503	1,739.3	NA
105		2014		KENWORTH		T800 TandemAxle- Winch	\$229,100		2014	95,008	2,929.1	NA
106		2014		KENWORTH		T800/Tri-axle/Haul Truck	\$176,500		2014	15,261	1,019.9	NA
107		2014		KENWORTH		T800/Tri-axle/Haul Truck	\$176,500		2014	24,154	1,569.7	NA
Trailers							\$1,580,600					
T110		2014		DOEPKER		Sissorneck Triaxle Heavyhaul Trailer	\$101,300		2014			
T111		2014		DOEPKER	SN16928S	Sissorneck Triaxle Heavyhaul Trailer	\$101,300		2014			
T113		2014		DIAMOND C		RoadClipper Tilt-Deck Trailer	\$7,300		2014			
T114		2015		MERIDIAN		Merdian Fuel Trailer	\$27,900		2015			
Heaters							\$237,800					
FH112		2013		DRAGON	38MMBTU	Frac Water Heater - Diesel Fired	\$941,000		2013			NA
FH114		2013		DRAGON	38MMBTU	Frac Water Heater - Diesel Fired	\$941,000		2013			NA
FH116		2015		ASTRO	25MMBTU	Frac Water Heater - Tri Fuel Fired	\$988,500		2015		3,039.3	4,661.9
FH118		2015		ASTRO	25MMBTU	Frac Water Heater - Tri Fuel Fired	\$988,500		2015		5,403.1	8,211.8
FH120				ASTRO	21MMBTU	Frac Water Heater - Tri Fuel Fired	\$151,400		2015		6,258.3	NA
FH131		2019		ENVIROFLAME	27MMBTU	Frack Water Heater - Tri Fuel Fired	\$600,000		Dec 2018		1,706.0	NA
FH132		2019		ENVIROFLAME	27MMBTU	Frack Water Heater - Tri Fuel Fired	\$600,000		Dec 2019		783.7	NA
FH133		2015		DRAGON	38MMBTU	Frac Water Heater - Tri Fuel Fired	\$575,000		Dec 2020			NA
FH134		2018		DYNAMIC	40MMBTU	Frac Water Heater - CNG & Propane Fired	\$309,000		Jan-19	NA	NA	NA
Pickups							\$6,094,400					
						Main Asset Value	\$7,912,800					
50		2013		DODGE	Ram	1500 4x4 Crewcab	\$45,939			269,621		
51		2012		FORD	F250	F250 4x4 Heavy Duty Crewcab	\$37,719			157,802		
52		2014		DODGE	Ram	1500 4x4 Crewcab	\$36,140			178,768		
Other												
DP001		2014		PIONEER	PP66S12L71	Diesel Pump ser# PP22972	\$43,900		2015		4017.5	
pump		2014		HONDA		Honda Transfer pump - 2"	\$450		2015			

,-,		INCLOSIVE NORTH SHOP INVENTORY						
Part ID # or location	Name	Description	Quantity	Approx Purchase Price	Comments	Date Counted		
	Frame mount tank	300 gal fuel tank (white from Dragons)	2	\$3,000	Original to Dragon SH	09-Sep-19		
	Tidy Tank Tidy Tank	175 gal portable fuel tank (red) 150 gal portable fuel tank (red)	2	\$2,500 \$2,000		09-Sep-19 09-Sep-19		
	Tidy Tank	65 gal portable tank used for H2O	1	\$250		09-Sep-19		
	Tidy Tank	50 gal portable fuel tank (used in Ranger)	1	\$200		09-Sep-19		
	Candy Cane	10" J-Tube (big blue Tubes - dented)	2	\$1,500		09-Sep-19		
	Tubular Union Frac Tank	12" Dia flanged 10' long, connect manifds 400BBL Dragon Vertical Tank	2	\$25,000	Damaged, lining failed	09-Sep-19		
	Submersible Stand	Submersible pump stand 15'	1	\$7,000	Daniageu, illing laileu	09-Sep-19		
	Hose floats	cylindrical red plastic floats	25	\$2,000		09-Sep-19		
	Hammer Unions	big wooden crate w/ 4" Unions, wing & thread halfs	approx. 200	\$16,000		09-Sep-19		
	Discharge hose	short 6", 8", & 10" discharge hose	approx. 15			09-Sep-19		
	Lay Flat Hose 5 gal fuel jugs	Pallets of 10" x 50 ft lay flat hose folded & banded plastic fuel jugs for Diesel, Gas, Kerosene	6	\$8,400		09-Sep-19 09-Sep-19		
	12" Manifold	FWM 115, 12" w 15 4" Flaper Valves	1	\$49,000		09-Sep-19		
	Frame Aligment Coupling	Joing FWM 115 to 116	1	1 .,		09-Sep-19		
	12" Manifold	FWM 116, 12" w 15 4" Flaper Valves	1	\$62,900		09-Sep-19		
	Mini manifolds	8" mini manifold w/ 4" valve ports	8	\$16,000		09-Sep-19		
	Mini manifolds Suction Hose	10" mini manifold w/ 4" valve ports 6" 20 ft Green Suction Hose, Cam Lock	3 14	\$15,000 \$12,600		09-Sep-19 09-Sep-19		
	Discharge hose	4" 30 ft Black Discharge Hose, Cam Loac	10	\$6,000		09-Sep-19		
	Discharge hose	4" 20 ft Black Discharge Hose, Cam Loac	109	\$41,000		09-Sep-19		
	Discharge hose	4" 10 ft Black Discharge Hose, Cam Loac	10	\$2,000		09-Sep-19		
	Hose Basket	5 x 5 x 20 ft, skidd mounted	2	\$4,000		09-Sep-19		
-	Centripetal pump Ladder	30 Hp pump backup for Astros (New) 20' Alum slide ladder	1	\$7,000 \$250		09-Sep-19 10-Sep-19		
	Ladder	20' fiberglass slide ladder	1	\$400		10-Sep-19		
	Ladder	16' Alum slide ladder	1	\$175		10-Sep-19		
	Ladder	10' Alum folding ladder	1	\$100		10-Sep-19		
	floats	Aluminum hose floats, 12" Blue	2	\$500	Damaged	10-Sep-19		
<b>—</b>	Candy Cane	6" Alum suct I-tube (short more like a II)	2	\$1,885 \$800		10-Sep-19 10-Sep-19		
	Candy Cane Candy Cane	6" Alum suct J-tube (short more like a U) 4" Alum suction J-tubes	10	\$8,200		10-Sep-19 10-Sep-19		
	Candy Cane	4" Alum discharge J-tubes	8	\$6,000		10-Sep-19		
	Candy Cane	4" plastic suction J-tubes	8	\$11,200		10-Sep-19		
	Candy Cane	4" plastic discharge J-tubes	5	\$6,000		10-Sep-19		
	Extensions	6" Alum tube 24" extension	3	\$450		10-Sep-19		
	Extensions	4" Alum tube 24" extension	8	\$800		10-Sep-19		
	Extensions Hose Reels	4" steel tube 24" extension	4 25	\$400 \$57,725	July 2015 Purchase, Min Use	10-Sep-19 10-Sep-19		
	Lay Flat Hose	8"-10" Hose Reel, hold 205m, Tall version, no Stands 8" x 660 ft Oroflex 20 Hose	25	\$264,000	July 2015 Purchase, Min Use	10-Sep-19 10-Sep-19		
	Deployer Lay Flat	Hose Deployment unit - For use w Skid Steer	1	\$10,820	July 2015 Purchase, Min Use	10-Sep-19		
	Elbows & Fittings	8" Hard Piping Elbow for use with 8" Lay Flat, Vict	50	\$13,126	July 2015 Purchase, Min Use	10-Sep-19		
	Tool Box	Steel black Tool Chest for a Pickup trk	1	\$750		10-Sep-19		
	portable heater	Herman Nelson heaters	6	\$2,200		10-Sep-19		
	Press regulator Shop Air Comp	CH4 gas pressure regltr w/ black hardcase 100 gal TechQuip Air Compressor	5 1	\$15,000		10-Sep-19 10-Sep-19		
	press washer	Honda press washer on wheels CR 160	1	\$3,800 \$1,000		10-Sep-19		
	emergency air	SCBA tanks w/ full face mask in hard case	2	\$4,000		10-Sep-19		
	Hydraulic fluid	55 gal drums of AW-22	3	\$2,100		10-Sep-19		
	portable vice	folding pipe stand w/ chain vice	1	\$300		10-Sep-19		
	Cordless Drill	18V DeWalt cordless Hammer drill	2	\$500		10-Sep-19		
	Impact driver	18V DeWalt cordless impact driver	1	\$180		10-Sep-19		
Storage rm 4	power saw Weed whacker	7.5" corded skill Saw Makita Yard Machines small gas weed whacker	1	\$100		10-Sep-19 11-Sep-19		
Storage rm 4	Centripetal pump	10 Hp pump backup to Astros 1new 1rebuilt	2	\$7,000	Suction pump and Motor Astro	11-Sep-19		
Storage rm 4	flow meter	8" inline flanged flow meter	3	\$8,970	, , , , , , , , , , , , , , , , , , ,	11-Sep-19		
Storage rm 4	flow meter	4" inline flanged flow meter	1	\$1,800		11-Sep-19		
Storage rm 4	flow meter	2" inline flanged flow meter	1	\$1,200		11-Sep-19		
Storage rm 4	Hydraulic motor	PTO driven Hydraulic motor	1			11-Sep-19		
Storage rm 4 Storage rm 4	Hydraulic motor Hydraulic motor	Hydraulic driven motor variable valve ctl hydraulically driven	2		Dragon Dragon	11-Sep-19 11-Sep-19		
Storage rm 4	Drive Coupling	Coupling Sleeves 8H (Orange)	6	\$450	Dragon	11 Scp 13		
Storage rm 4	Drive Coupling	Coupling Sleeves 9H (Orange)	7	\$525	Dragon			
Storage rm 4	VFD	Modicon PLC (Astro)	1	\$500	Astro Spare			
Storage rm 4		35" H2O press guage	8					
Storage rm 4		Used press guage	4					
Storage rm 4		104sb 200psi guage 2 1/2"	1					
Storage rm 4 Storage rm 4		LP guage 1/4" BM 300 psi guage 1/4"	1					
Storage rm 4	VFD	Modicon TM3AQ4	4	\$900	Astro			
Storage rm 4		0/600 volts ac guage	1		Asto			
Storage rm 4		Propane Shutdown switch	1	\$150	Astro			
Storage rm 4		Switch mode power Supply	1			ļ		
Storage rm 4	Burner Control	4" Butterfly valve (new in box) Model 101 1 1/2 Face 1/8" CBC	1	\$250 \$575	Actua	-		
Storage rm 4 Storage rm 4	Surfier Control	Quick flex coupling (blue)	2	\$575 \$100	Astro Dragon			
Storage rm 4	<del>i</del>	Voltage regulator	1	\$100				
Storage rm 4		Dragon Temp probe 238-0004	2	\$500	Dragon			
Storage rm 4		3-pole, 4 wire, grounding plug	12					
Storage rm 4		heat guns	3	\$250				
Storage rm 4		stanley lights battery powered	3	\$150				
Storage rm 4		60 amp class T fuse	10	\$200 \$500	Astro Astro	-		
Storage rm 4 Storage rm 4	1	small belt driven air compressor Matrix 15 Deep Impact Socket Set	1	\$500 \$150	7000			
Storage rm 4		Enviroflame Gen Set Oil filters	7	\$420				
Storage rm 4		Cascade Controls PLC controller	1	\$5,000	Astro			
Storage rm 4		Siemens 3RW4028-1BB15	2	\$1,800	Astro - Soft Start			
	Danfos	VLT Aqua Drive FC201	1	\$750	Astro - Suction Pump Control			
54	Danfos	VLT Aqua Drive FC202	1	\$1,500	Astro - Discharge Pump Control			
Storage rm 4	Filters	various sizes of fluid filters (new)	1	\$5,000		11-Sep-19		
}	riding mower mower accessory	John Deer Z-track 255 riding lawn mower John Deer Lawn Sweep	1	\$5,000 \$300		11-Sep-19 11-Sep-19		
<b> </b>	road safety kits	Road safety triange kits	25	\$300		11-Sep-19 11-Sep-19		
	hitches	2" ball slide hitch	T	\$75		11-Sep-19		
	hitches	2 5/16" ball slide hitch		\$100		11-Sep-19		
	hitches	2" pintle hitch		\$150		11-Sep-19		
	hitches	2 5/16" pintle hitch		\$150		11-Sep-19		
<b></b>	tools tools	3/8" pneumatic impact driver 12" radial chopsaw/grinder	1	\$100 \$300		11-Sep-19 11-Sep-19		
	tools	12" radial chopsaw/grinder  Estimated Total	1	\$300 <b>\$736,726</b>		11-Sep-19		
l	ł –	Current Value @ 20%		\$147,345.14				
				77,545.14				



+1-403-548-1231 +1-403-308-2019 1110 41st Street North Lethbridge, AB T1H 5M1



# tank specifications & features

- & loatalos
- Skidded heater and components 22' long and 58" wide, weight is 12,000lbs.
- Tank components and all piping manufactured to Canadian Welding Bureau standards.
- Fully engineered water flow simulation analysis (spray bars and jacket water) for optimal heating efficiency and fuel savings.
- Slim design for optimizing integration space and maximizing accessibility to heater components.
- Proprietary exhaust heat capture system, easy service.
- Proprietary mist extractor.
- Stack water filter and conveniently mounted blow/drain valve.

- Proprietary spray bar design for simple access and inspection/ cleanout.
- 2 sight glasses for internal heater flame/water viewing.
- Easy access tank manway and jacket water cleanout ports.
- Non-pressurized system.
- No regulator inspections or operating tickets necessary.

flow rates	temperature rise			
750 gpm	36°C	65°F		
800 gpm	34°C	61°F		
900 gpm	31°C	57°F		

# burner

specifications

- 25MM btu Vitotherm high efficiency tri-fuel burner diesel, propane, natural gas, instant fuel switching.
- Autoflame control package.
- Quiet operation, no air compressor required for combustion, 100% outside air ducting.
- Easy serviceability, swing away hinged blower housing to access combustion components.
- 2 supplied gas trains, (propane and natural gas) compact and mounted on top of heater tank.
- Electronic spark ignition.
- Full safety shutdowns.
- HMI digital display easy operation, digital combustion curve program uploaded and easily adjustable by technicians, backup program kept on file.



info@enviroflametechnologies.com 1110 41st Street North

Lethbridge, AB

## water pump specification & controls

- 2 operating pumps 20hp suction & 30hp discharge Berkeley long life centrifugal, VFD controlled, variable output.
- Capable of flow rates up to 950 gpm.
- 2-4" discharge water camlocks, manual butterfly valves on each.
- 2-6" suction water camlocks, manual butterfly valves on each.
- Proprietary built in suction priming/tank draining system 2" T&E gear pump, automated with electric butterfly valves (no external prime or drain system needed).
- Pressure transducer tank level control for consistent operation.
- High tank level sensor and suction water emergency slammer valve eliminates flooding.
- HMI digital display and control screen designed for simple operation, minimal training, operations logging and reporting, and simple diagnostics/troubleshooting.
- Electric water flow control valves and meters, no air required for heater operation.
- Full safety shutdowns.







# integration options

- Robust 40 ft hi-cube intermodal sea container, customized, insulated lining and painted exterior.
- Integrated office room with desk.
- Generator/electrical room lined with sound attenuation foam walls and ceiling.
- Generous exterior worksite LED lighting, internal 12v and 110v LED lighting.
- Packaged and ready to be attached on a standard 40' intermodal hi-cube container trailer chassis (supplied by customer).
- Reasonable footprint on lease, with maneuverability. Other integration solutions also available.

# **generator** & air compressor

- Reliable Isuzu engine with Stamford generator, 120Kw 150Kva prime power.
- Integrated 454 litre diesel fuel tank (approx. 30hr run time) c/w quick switch valve for external fuel tank.
- 60gal vertical tank c/w 240v air compressor for water hose blow out.



1110 41st Street North

Lethbridge, AB

## 25,000,000 BTU Frac Water Heater Unit

Industry Leading, 95%+ Thermal Heating Efficiency
State of the art, tri-fuel (diesel, propane, natural gas), trailer-mounted
Self-contained frac water heater systems
Officer superior heating times and expectional officiencies in fuel consum

Offers superior heating times and exceptional efficiencies in fuel consumption

#### Performance

Temperature Rise: 32 Deg C @ 830 GPM (Nom) Fuel Rate: 3 GPM, 180 GPH @ Full Fire (Nom)

Thermal Efficiency Average: 95%+  $CO_2$  Emissions: 0-3%









Tribal North

**Energy Services** 

# **Specifications**

- Direct contact combustion chamber is 95%+ thermally efficient – highest in industry
- Tri-fuel capable: flip between diesel and natural gas/propane with a single switch
- Environmentally friendly, producing less than 10 ppm CO and 30 ppm CO2 emissions
- Variable output to 25MM BTU (750 Boiler HP)
- Completely enclosed- all weather capable
- Equipped with 2nd 125 kW genset- complete redundancy as well as available on-lease power
- Lightweight 75% road ban capable to operate even during breakup
- 9,000 liter onboard diesel fuel, can operate independently for 12+ hours
- 88,000 lumens of perimeter lighting. Allows safe operations even in remote settings
- Onboard air compression sized to clear all hoses- allows environmentally safe usage of produced water
- Variable water flow to 3.5 m3/min
- Fully automated control system with complete data logging.
- 53' trailer









#### Calgary Office:

1440, 140 - 4th Avenue SW Calgary, AB T2P 3N3 Phone: (403) 930-0900 Fax: (403) 930-0924

#### High Prairie Facility:

74405 Rge. Road 180, Box 337 High Prairie, AB TOG 1E0

Phone: (780) 536-0001 Fax: (780) 536-0003

Dispatch: 1-855-821-0001

Tribal North

**Energy Services** 

# 25,000,000 BTU Enviroflame High Efficiency Industrial Water Heater



### Industry Leading Heating Efficiency & Fuel Savings

#### Tank Specifications & Features

- Skidded heater and components 22' long and 58" wide, weight is 12,000lbs.
- Tank components and all piping manufactured to Canadian Welding Bureau standards.
- Fully engineered water flow simulation analysis (spray bars and jacket water) for optimal heating efficiency and fuel savings.
- Slim design for optimizing integration space and maximizing accessibility to heater components.
- Proprietary exhaust heat capture system, easy service.
- Proprietary mist extractor.

- Stack water filter and conveniently mounted blow/ drain valve.
- Proprietary spray bar design for simple access and inspection/cleanout.
- 2 sight glasses for internal heater flame/water viewing.
- Easy access tank manway and jacket water cleanout ports.
- Non-pressurized system.
- No regulator inspections or operating tickets necessary.

Flowrates	Temperature Rise
750 gpm	36°C / 65°F
800 gpm	34ºC / 61ºF
900 gpm	31°C / 57°F

Tribal North

Energy Services

#### **Burner Specifications**

- 25MMbtu Vitotherm high efficiency tri-fuel burner-diesel, propane, natural gas, instant fuel switching.
- Autoflame control package.
- Quiet operation, no air compressor required for combustion, 100% outside air ducting.
- Easy serviceability, swing away hinged blower housing to access combustion components.
- 2 supplied gas trains, (propane and natural gas) compact and mounted on top of heater tank
- Electronic spark ignition.
- Full safety shutdowns.
- HMI digital display easy operation, digital combustion curve program uploaded and easily adjustable by technicians, backup program kept on file.

#### Water Pump Specification & Controls

- 2 operating pumps 20hp suction & 30hp discharge Berkeley long life centrifugal, VFD controlled, variable output.
- Capable of flow rates up to 950 gpm.
- 2-4" discharge water camlocks, manual butterfly valves on each.
- 2-6" suction water camlocks, manual butterfly valves on each.
- Proprietary built in suction priming/tank draining system-2" T&E gear pump, automated with electric butterfly valves (no external prime or drain system needed).

- Pressure transducer tank level control for consistent operation.
- High tank level sensor and suction water emergency slammer valve eliminates flooding.
- HMI digital display and control screendesigned for simple operation, minimal training, operations logging and reporting, and simple diagnostics/troubleshooting.
- Electric water flow control valves and meters, no air required for heater operation.
- Full safety shutdowns.

#### Trailer Configuration

- Robust 40 ft hi-cube intermodal sea container, customized, insulated lining and painted exterior.
- Integrated office room with desk.
- Generator/electrical room lined with sound attenuation foam walls and ceiling.
- Generous exterior worksite LED lighting, internal 12v and 110v LED lighting.
- Heater container attached to 40' air ride trailer chassis.
- Reasonable footprint on lease, with maneuverability. Other integration solutions also available.

### Generator & Air Compressor

- Reliable Isuzu engine with Stamford generator, 120Kw 150Kva prime power.
- Integrated 454 litre diesel fuel tank (approx. 30hr run time) c/w quick switch valve for external fuel tank.
- 60gal vertical tank c/w 240v air compressor for water hose blow out.

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Tribal North

Energy Services

# 40,000,000 BTU Updraft Superheater

Skid Mounted Results in the Smallest Footprint for its Capacity



Propane and Natural gas capability

Built in 10" manifold making it idea for

Slip Steaming application

Thermal efficiency 72-75%

Simplified control system, minimal moving parts

Powered by existing location light tower

Built in LEL Gas Detection System

#### Performance

Variable flow rate through coil up to 3.2 m3/min

Slip-Streaming capability up to 14m3.min

Capable of temperature rise of

39 deg C @ 3.2m3/min

Thermal Efficiency up to 75%

Tribal North

Energy Services

#### **Specifications**

- 25' x 8' Engineered Skid
- 40 million BTU input propane/natural gas unit
- 3" A106 grade B coil feed off of 4" head manifold c/w Thermo-finned tubing
- Burner chamber constructed of ¼" 44W
   M. S c/w with two layers of ceramic fiber insulation rated at 3400 degrees of thermal protection.
- 4" manifold System off of rear of Skid C/W blow down air lines
- Power connection 230V 30AMP Twist lock 150' plug in cable

- Internal air Compressor (DV 5HP) for valve control and blow down capabilities
- Work lights mounted around unit for night time operation
- Safety emergency flow switches
- Nitrogen Emergency Shutdown System
- Electronic temperature burner control system
- Constant burner control monitoring system
- Electronic Temperature controller on both input and output
- High temperature shut down on burner system
- SP6 Commercial blast grade on all steel components
- LPG pluming /NG pluming
- 10" inlet and Outlet Lines comes with 10" bypass line (Globe valve/Slipstream valve)
- 4" Flowmeter Badgermeter Model (150 ASA, flow rates 3.7 to 1230 GPM, Cast AL)
- UV Integrated Flame Scanner
- Type K temperature control modules
- Dual Ion Pilot Assembly (Ignitors)
- Hot Fill line outlet allows for heating a source while continuing to Slipstream through the 10" bypass



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Tribal North

Tribal North
Energy Services
1.855.821.0001
www.tribalnorth.com

CAUTION HOT

**Energy Services** 

# 38,000,000 BTU Frac Water Heater Unit

State of the art, natural gas or diesel-fired, trailer-mounted Self-contained frac water heater systems Offers superior heating times and efficiencies in fuel consumption

### Performance

Water Flow: 850 GPM @ 50 PSI Inlet Pressure (Nom)

550 GPM @ 30 PSI Inlet Pressure (Nom) 400 GPM @ 20 PSI Inlet Pressure (Nom)

Temperature Rise: 70 Deg F @ 850 GPM (Nom)

100 Deg F @ 500 GPM (Nom)

Fuel Rate: 4.3 GPM, 258 GPH @ Full Fire (Nom)

Dimensions: 45' Long, 8' 6" Wide, 13' High

66,000 Lbs (Nom, Dry Heat Exchanger)







Tribal North

**Energy Services** 

# **Specifications**

#### Type

 Natural Gas or Diesel fired, dual burner, trailer mounted, self contained system

#### Burner

- Dual burner package, NFPA combustion system, 19 million BTU per hour per burner
- Pressurized fuel and pressurized air systems for fuel atomization
- · Blower system for positive combustion air
- LP fired pilot with spark ignition
- Digital burner controls with programmable water temperature and burner fire rates
- Safety shutdowns

#### Heat Exchanger

- 2"- SA106 GR B, SCH 40 pipe
- Multi core, multi pass, low pressure design
- inlet and outlet manifolds within burner chamber
- 6x5 hydraulic drive centrifugal water charge pump
- Multiple 4" suction and discharge connections at rear of trailer

#### **Burner Chamber**

- 1/4" steel plate construction
  - removable top with air operated hinged covers
  - 3" ceramic fiber insulation rated at 2300° on all surfaces including top

#### Fuel Tank

- 2700 gal aluminum fuel tank
- Top fill and lower pressure fill connections
- Top manway, pressure relief valve, level gauge
- air operated vent valve, air operated fuel supply valve to burner
- Manual fuel supply valve to deck engine
- Heated and insulated tank bottom shell

#### **Engine**

 John Deere engine with jacket water heater and aluminum enclosure

#### Hydraulic System

- 300 gal hydraulic tank
- 4 Pump system with 2 oil coolers, valves and controls
- System operates, water charge pump, combustion blower, fuel pump, air compressor

#### Air Compressor

 rotary screw air compressor system with reservoir tanks, moisture separator, and aluminum enclosure

#### Trailer

- High strength drop deck frame
- 3 axle with air ride suspension, lift on rear axle
- ABS brake system, led lights





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Tribal North

**Energy Services** 

We will exceed our clients' expectations in the delivery of

# HIGH QUALITY, INNOVATIVE INDUSTRIAL AND FABRICATION SOLUTIONS

WELDING | FABRICATION | MECHANICAL SERVICES | DANGEROUS GOODS INSPECTION



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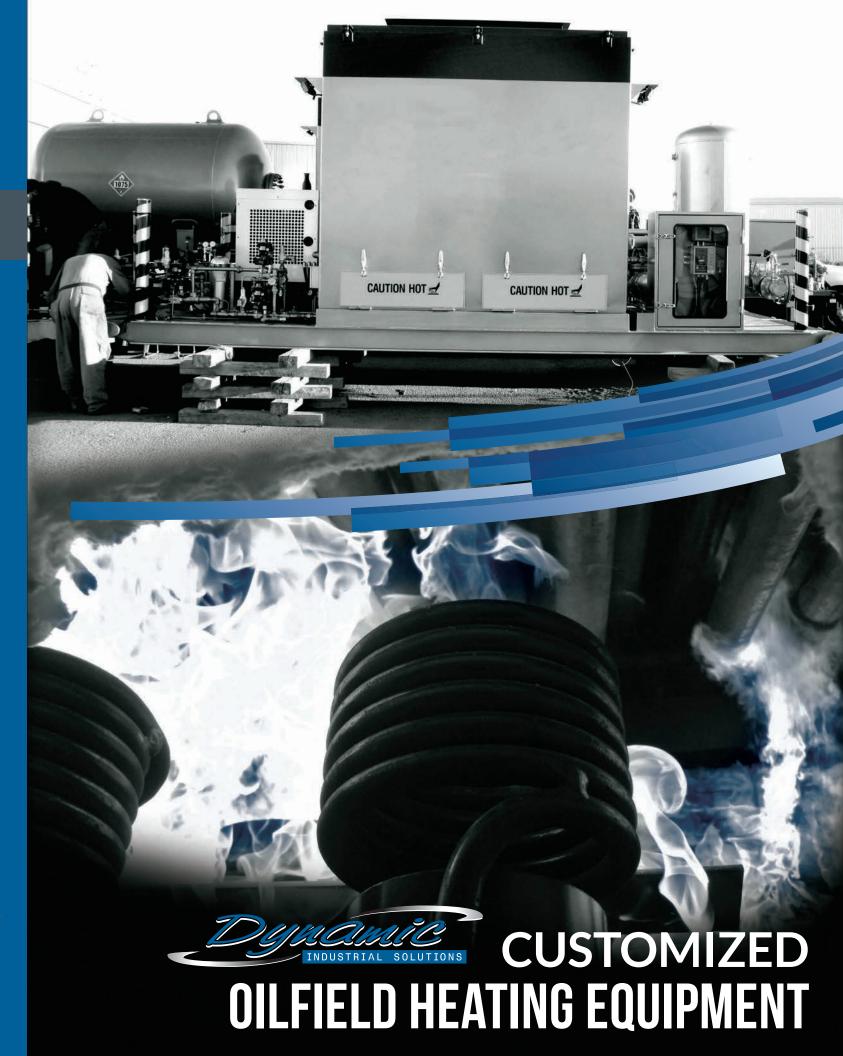












36,000,000 - 40,000,000 BTU

FRAC WATER HEATER SKID

Dynamic Industrial Solutions is a manufacturer of custom (truck, trailer, and skid mounted) frac heating equipment. The highly efficient propane or natural gas 'Heater', is used in many oilfield fluid heating applications such as:

- HEATING MULTIPLE 400BBL & 500BBL TANKS
- HEATING C-RINGS/POSEIDONS
- HEATING LARGE OPEN PITS
- HEATING PIPELINES

Our unique 'skid mounted' design also has slip-streaming capabilities, safety standards/shutdowns that meet and exceed the Canadian & US marketplace qualifications, ease of use operation, the ability to instantly switch from natural gas to propane, and a proven reliable track record in the oil & gas industry.







# DYNAMIC ADVANTAGE



24/7 SERVICE & SUPPORT



**30 AMP TWISTLOCK POWER CAPABILITY** 



**CONVERSION IN SECONDS** HIGHLY EFFICIENT PROPANE & NATURAL GAS CAPABILITIES



**EXTREMELY EFFICIENT** • HIGH FLOW RATES • LESS MOVING PARTS



MINIMAL **OPERATING COSTS INDUSTRY LEADER** 



**LOCATED IN SE ALBERTA** 2 HOURS FROM MONTANA BORDER



**CSA APPROVED VALVE TRAIN** (DESIGNED FOR CANADIAN WINTERS)



UNIQUE INTELLIGENT **DESIGN** 



**DESIGNED FOR MANY HEATING APPLICATIONS** 



**SAFETY LEADERS PROVEN SAFETY FEATURES** 

# **TECHNICAL SPECS & FEATURES**

#### **BURNER CONTROL**

Constant burner control monitoring system High temperature shut down on burner system

#### **AUXILIARY FUEL**

100 lb. Propane tank mount 50 gallon sub base fuel tank Non UL/C

#### FITTING STORAGE

Natural gas conversion (included)

4" head manifold c/w thermo-finned tubing

Burner chamber constructed of 1/4" 44W M.S. C/W with two layers of ceramic fiber insulation rated at 3400 degrees of thermal protection.

3000 LPM/792 GPM/25 BBL.

14.000 LPM/3698 GPM/117 BBL

3" A106 Grade B coil feed off

Maximum flowrate through coils

Maximum flowrate when slip-streaming

# **NEW** 30 AMP power capability

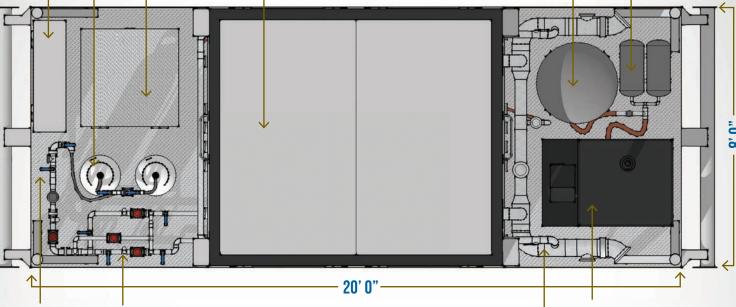
- Work lights mounted around unit
- for night time operation LPG pluming /NG pluming
- Computerized ignition system Flame Scanner

#### MAIN AIR STORAGE

Belt driven air compressor approximately 6 CFM @ 100 psi

6" manifold system off of rear of skid C/W blow down air lines





# **GAS INLET**

Safety emergency flow switches

#### **MAIN VALVE TRAIN**

All valves and stop valves in compliance with B620 -09

CSA approved valve train 4" flow meter

# MAIN WATER MANIFOLD

10" inlet and outlet lines comes with 10" bypass line (globe valve)

# **GENERATOR & AIR COMPRESSOR**

Kubota D1703 naturally aspirated diesel engine

40 million BTU input propane system 12 kW 120/240 volt single phase



APPLICATION EXAMPLES Heating C-Rings/poseidons, multiple tanks, large pit/containment pod along with slip-streaming capabilities