

EQUIPMENT SPECIFICATIONS

NATURAL GAS WELLSITE HEATER F-100

1981 mm OD x 13411 mm shell, standard ends.

78" OD x 44'-0" shell, standard ends.

Removable bundle and furnace.

Burner and flame arrestor with 3" glass viewing port, 2" manual ignitor port, removable pilot assembly.

Adjustable inlet air damper and secondary air damper.

Removable stack with snow shroud.

Fuel gas preheat coil 2" Sch. XH.

2 Saddles.

Rectangular access port to bundle on bundle end (9" x 30").

1 1/2" Mineral wool insulation c/w smooth aluminum cover outside building.

30" x 16'-6" Bath expansion chamber with gauge glass, horizontal, removable.

Drain valves WKM ball valves.

Nominal rating 5,000,000 BTU/hr (furnace).

"Nagy" type burner baffles/controls included.

Bath volume 172 BBL 50% inhibited MEG.

Maloney Industries Inc. Serial Number

98-C4260-3000

EQUIPMENT SPECIFICATIONS cont'd...

COIL BUNDLE

	<u>Coil #1</u>	<u>Coil #2</u>	<u>Coil #3</u>	<u>Coil #4</u>
Pipe size & schedule	6"/3" XXH	6" Sch. XH	2" XH	2" XH
Pipe material spec.	SA-333-Gr.6	SA-333-Gr.6	SA-106-B	SA-333-GR.6
180° Return type	Long radius	Long radius	Long Radius	Long Radius
Weld fitting material	SA-420-WPL6	SA-420-WPL6	SA-234-WPB	SA-420-WPL6
Forging material spec.	SA-350-LF2	SA-350-LF2	SA-105N	SA-350-LF2
Coil area - sq. ft/M2	795/74	302/28	108/10	160/15
Parallel passes	5	1	1	1
Design WP	4351 Psi at 200°F 30000 kPa at 93°C	1600 Psi at 200°F 11032 kPa at 93°C	2025 Psi at 200°F 13962 kPa at 93°C	1600 Psi at 200°F 11032 at 93°C
Corrosion allowance	3.2 mm	3.0 mm	1.6 mm	2.50 mm
Radiography	100%	100%	10%	100%
Post weld heat treatment	Yes	Yes	Yes	Yes
Sour spec. chemistry	Yes	Yes	Yes	Yes
Low temp. impact	Yes	Yes	Yes	Yes
Inlet flange	6" 2500# RTJWN	6" 900# RFWN	2" 900# RFWN	2" 900# RFWN
Outlet flange	6" 2500# RTJWN	6" 900# RFWN	2" 900# RFWN	2" 900# RFWN

Maloney Industries Inc. Serial Number

98-C4260-3001

Canadian Registration Number

L-0776.2

EQUIPMENT SPECIFICATIONS cont'd....

FUEL GAS SCRUBBER V-103

273 mm OD x 762 mm x 1034 kPa WP.

10 3/4" OD x 30" x 150 Psig WP.

Standard vertical drip pot.

Flanged top cover.

Inlet baffle.

Automatic high level shutoff.

Relief valve, pressure gauge.

Manual drain.

Maloney Industries Inc. Serial Number

98-C4260-3003

Canadian Registration Number

N-5923.23

STORAGE TANKS T-100, T-101

Westeel 500 gallon steel tank

14 Gauge steel, single compartment.

500 Imperial gallon.

(600 US gallon, 2250 litres)

50" OD x 73" long.

1" Drain connection with plug.

2 1/2" Combination fill and vent cap.

Opening with cap.

1" Liquid outlet connection.

Tank stand complete with access ladder.

EQUIPMENT SPECIFICATIONS cont'd...

PIG LAUNCHER L-101

219 mm OD x 1300 mm long x 11030 kPag DP at -45°C.

8 5/8" OD x 4'-3 1/4" long x 1600 Psi DP a -49°F.

Conforms to ANSI B31.3.

100% X-ray, no post weld heat treatment.

Complete with Huber Fig. 500 closure and break flanges.

2 Saddles.

PIG RECEIVER R-101

168 mm OD x 1300 mm long x 11030 kPag DP at -45°C.

6 1/2" OD x 4'-3 1/4" long x 1600 Psi DP at 49°F.

Conforms to ANSI B31.3.

100% X-ray, no post weld heat treatment.

Complete with Huber Fig. 500 closure and break flanges.

2 Saddles.

PIG LAUNCHER/PIG RECEIVER SKID

4115 mm wide x 7163 mm long x 305 mm I-Beam skid.

13'-6" wide x 23'6" long x 12" I-Beam skid.

1" x 3/16" Serrated grating.

Drip pan.

1" Ball valve drain c/w plug.

Lifting lugs, jacking lugs.

EQUIPMENT SPECIFICATIONS cont'd...

HEATER SKID

4115 mm Wide x 18896 mm overall length x 305 mm I-Beam skid.

13'-6" Wide x 62'-0" overall length x 12" I-Beam skid.

4 Lifting lugs, removable.

3/16" Checkerplate floor under building.

Sandblast, prime, paint.

PLATFORM

1066 mm wide x 1725 mm long.

3'-6" wide x 5'-8" long.

Welded steel frame and handrail.

1" x 3/16" W-19-4 serrated grating.

Ladder from skid elevation without cage.

Safety gate.

Sandblast, prime zinc chromate, paint 2 coats grey alkyd resin.

EQUIPMENT SPECIFICATIONS cont'd....

HEATER BUILDING

4115 mm Span x 7315 mm length with gable roof, 3:12 slope.

13'-6" Span x 24'-0" length with gable roof, 3.12 slope.

Eave height 8'-6" (2591 mm).

Exterior sheathing 22 GA smooth steel, white/white #2M-QC-283/5M-QC-317,
with cad plated screws.

Interior sheathing 24 GA aluminum.

Insulation rating: walls R-12, roof R20, 2 1/2" thick.

2 - 3' x 7' Insulated steel doors with:

- Self-closing check chains and door stop
- Von Duprin panic hardware with lock.
- Steel door frames with extruded thresholds.
- Chain hasp to keep doors open.
- 24" x 24" x 1/4" thick wire reinforced window.
- Door canopies (field installed).

2 - 40" x 40" Double glazed windows with screens and wire reinforced glass.

4 - 12" x 12" Wall louvres with screen and slide gates.

Ice rakes.

Ridge vent c/w manual actuator.

3" Thick urethane insulation under skid.

2 - 24" x 24" Catadyne heaters, explosion proof, 22,500 BTU/hr, with regulator,
safety shutoff, thermostat, safety grill and vent hood.

Building electrical:

- 2-12V DC explosion proof lights.
- 2 ESD buttons, outside building door.
- 1 Aluminum junction box c/w 80 SAK 4 terminal blocks.
- 1 - H2S gas detection head.
- 7 Transmitters.
- 12 Choke control.
- 10 Various control points.
- 1 Otis downhole ESD panel.

EQUIPMENT SPECIFICATIONS cont'd....

RTU BUILDING

1700 mm Span x 1800 mm long with shed roof, eave height 2438 mm low side.

5'-6 15/16" Span x 5'-10 7/8" long with shed roof, eave height 8'-0" low side.

Exterior sheathing 22 GA steel.

Interior sheathing 24 GA aluminum.

Support platform 5'-7" wide x 5'-11" long x C6, welded steel frame,

3/16" checkerplate floor covering.

4 mil vapour barrier.

Insulation rating walls and roof R-12.

Exterior colour white, interior colour aluminum.

1 Door 3' x 7' insulated and painted.

Self-closing with check chain, door stop.

Von Duprin panic hardware with lock.

Steel door frames with extruded thresholds.

24" x 24" Double glazed wire reinforced window.

1 - 24 x 24 Catadyne heater, explosion proof, 6000 BTU/hr, with regulator,
safety shutoff, thermostat and grill.

3" Thick urethane insulation under skid.

Aluminum liner.