

Item 22: Heater Treater- Vertical - 48" OD x 20' S/S x 125 psig

Data	Parameter
Size	48" OD x 20'-0" S/S
Rating	125 psig @ -20°/200°F
Heat Duty Rating	500,000 BTU/HR
ASME Code Stamped	Yes
NB Registered	Yes
Shell Material	SA-516-70
Head Material	SA-516-70
NDE	RT-2
Corrosion Allowance	0"
Post Weld Heat Treatment	Not Included
Hydro Test	Per Code
Estimated Weight (Empty)	TBD

Internals	QTY
Coalescing Baffle	1
Downcomer Pipe	1
Downcomer Splash Plate	1
Mesh Pad, 304SS, 8" Thk., 9# Mesh	1
Siphon Drain	1

Externals	QTY
Skirt w/ Base Plate	1
Lift Lugs	2
Stack, 12", SA-53B with Cone	1

Vessel Connection Schedule	QTY	Size	Type
Inlet	1	6"	150# RF
Gas Outlet	1	4"	150# RF
Water Outlet	1	4"	150# RF
PSV	1	2"	150# RF
Oil LC	1	3"	150# RF
Drains	2	3"	150# RF
Oil Outlet/Drain	1	3"	150# RF
Anode	2	4"	150# RF
Oil, Water, 2-Interface Level Gauge	8	1/2"	3000# NPT
Oil Leg Control	1	6"	150# RF
Water Leg Control	1	6"	150# RF
Temperature Controller	1	3/4"	3000# NPT
Temperature Transmitter	1	3/4"	3000# NPT
Temperature Gauge	1	3/4"	3000# NPT
Pressure Safety High	1	1"	3000# NPT
Pressure Safety High High	1	1"	3000# NPT
Level Safety Low Level Switch	1	2"	3000# NPT
Level Safety Low Low Level Switch	1	2"	3000# NPT

Level Safety High Level Switch	1	2"	3000# NPT
Level Safety High High Level Switch	1	2"	3000# NPT
Pressure Indicator	1	1/2"	3000# NPT
Firetube Flange	1	TBD	Bolted
Manway	1	18"	150# RF

Paint	
Specification	Cimarron Standard (CIM-ENG-MECH-001)
External Surface Preparation	SSPC-SP3
External Primer Coat	Not Included/Optional Adder
External Intermediate Coat	Not Included/Optional Adder
External Top Coat	Alkyd Enamel / Stack: Temperkote 1000
Color:	To be provided by Customer ARO
Internal	Not Included/Optional Adder

Accessory Kit (shipped loose)

Description	OEM	OEM Model #	QTY	Tag
Flame Arrestor Aluminum construction "O" Type 2pc. Hinged left or right hand side W/ 4" Mounting neck & od flange W/ (1) 3" NS-120 Air/gas mixer head W/ (1) 3" Sticktite burner nozzle W/ (1) 3" X TBE pipe nipple extension W/ (1) Flameco pilot assembly W/ (1) 28" OD X 4" thk. Aluminum flame cell w/ 6" handhole & 1" peep sight Gas/aux. connections, hinge side, f/t neck length, & flange bolt pattern to be determined	Flameco	SB28/18-16	1	
Equalized Stack Head Aluminum construction W/ Rain cap & bird screen W/ Slip-fit for 8" OD stack	Flameco	8-ESH	1	
Valve,Relief,2" 150# X 3" 150#,Set@125# ,"G" Orifice	Mercer	91-51G11V09U1	1	
Temperature Indicator,3" Dial, 6" Stem, 50/550 F&C, 1/2" Npt	Generic		1	
Thermowell,3/4" MNPT X 1/2" FNPT, 6" Stem, 316SS	Generic		1	
Sight Glass,5/8" X 36" Heavy Gauge Glass - 36" Expanded Metal Protector - SS Hose Clamps	Inferno or Eq.	12T-SS	1	
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Sight Glass,5/8" X 36" Heavy Gauge Glass - 36" Expanded Metal Protector - SS Hose Clamps	Inferno or Eq.	12T-SS	1	
Sight Glass,5/8" X 36" Heavy Gauge Glass - 36" Expanded Metal Protector - SS Hose Clamps	Inferno or Eq.	12T-SS	1	
Valve,Needle,1/2"NPT,SS	Generic		8	
Pressure Gauge,4" Face,1/2" NPT,0-250 Psig, LF	Generic		1	

Pressure Control Valve,4" 150# RF,418 FGT BP-D Regulator, 4" IV	Kimray	AAX	1	
Level Controller,2"NPT,Pneumatic,Gen II	Kimray	CML	1	
Control Valve,4" 150# RF,425 FMT PBT PO-D,4" IV	Kimray	EMW	1	
Control Valve,3" 150# RF,325 FMT PBT PO-D, 3" IV	Kimray	EMV	1	
Level Switch,SPDT,2"NPT,316SS,Wellmark	Wellmark	LLS 7x0_790_- _Sf_2_-_A_---	1	
Level Switch,SPDT,2"NPT,316SS,Wellmark	Wellmark	LLS 7x0_790_- _Sf_2_-_A_---	1	
Level Switch,SPDT,2"NPT,316SS,Wellmark	Wellmark	LLS 7x0_790_- _Sf_2_-_A_---	1	
Level Switch,SPDT,2"NPT,316SS,Wellmark	Wellmark	LLS 7x0_790_- _Sf_2_-_A_---	1	
BMS				
Burner Management Kit: - ARControl IGNITION SYSTEM - In-Line Pilot, 310SS, #66 Orifice - Tec Cable Connector Fitting Kit 1/2" NPT Connectors w/ 3/4" Reducer Bushing - Type K Thermocouple Armoured Wire #20 Gauge w/ 2 Pair - Installation Kit - Enclosure - Ignition Cable - Pressure Transducer, 0-5 PSIG, 1/4"-18MNPT, 10VDC - Thermowell 1/2" NPT x 12" SST (TW-20A0) - Inline Fuel Train - 24VDC - Single Block Shutdown, Pneumatic Back up with Slow Opening Temperature Valve and Y Strainer - Preassembled - ASCO Solenoids - Parker Speed Control Valve - Belgas or Eq. Regulators - Kimray Temperature Valve - Quickstand Electrical Assembly - IFTS Electrical Assembly	Cimarron	N/A	1	BMS