API Specification
12L
Fifth Edition, October 2008
Specification for Vertical and Horizontal
Emulsion Treaters

Annex C

Treater Design Information

API Monogram® Required ❑ Yes ❑ No

Annex C
(informative)

Treater Design Information

Field Name and Location _____

Design Conditions

Oil Rate _____ bbl/hr Oil Gravity _____ °API

Oil Viscosity SSU _____ @ _____ °F _____ @ _____ °F _____ @ _____ °F

Pour Point _____ °F

Water Rate _____ bbl/hr, Water Specific Gravity _____

Gas Rate _____ SCF/hr, Gas Specific Gravity _____

Sand, Salt or Solids Present: Describe _____

_____

Gas/Oil Ratio (GOR) Average _____ SCF/bbl

Percent H_2S _____% Percent CO_2 _____%

Surging or Instantaneous Flow: Describe _____

_____

Foaming or Paraffin (if Present, Describe) _____

_____

Recirculating Rate (if Any) _____

Production Temperature to Treater _____ °F

Estimated Treating Temperature (if Known) _____ °F

Operating Pressure Required _____ psig

Design Pressure _____ psig. (Normal is 50 psig)

Design Temperature °F _____ Max _____ Min

Required BS&W of Outlet Oil _____%

Fuel Source _____ High Heating Value (HHV) _____ BTU/SCF, BTU/lb

Fuel Supply Pressure _____ psig

Disposition of Effluent Water: (Describe)

Firetube Minimum Thickness: _____ if Greater Than Standard

Copyright 2009 – American Petroleum Institute. All rights reserved.

Optional Requirements

Vertical or Horizontal (Preference) _____

Type Coalescing: Hay Section, Electric, Plates _____

Skid Mounted (Horizontal) _____ Yes _____ No _____

Lifting Lugs _____ Stack Flame Arrestor _____

Stack Down-draft Diverter _____

Corrosion Allowance: Pressure Parts _____, Non-pressure Parts _____,

Firetube _____

Seal Welding: Internal _____, External _____

Flame Arrestor _____

Stack Gas/Temperature Connection _____

Sample Cocks in Lieu or Gage Glass _____

Special Paint of Coating: Internal: _____

External: _____

Firetube: _____

Stack: _____

Fuel Gas Scrubber: _____ Yes/No. Internal Float Shutoff: Yes/No _____

Valves & Controls: Mfg. Standard _____ Others _____

Pilot Igniter _____ Yes/No _____ Flame Detector/Shutdown _____ Yes/No

Anode Connections: _____ Yes/No _____ Qty _____ Size _____Type

Interface Drains: _____ Sand Jets (Manual/Auto) _____ Sand Pan _____

Space/Height Limitations or Size Preference _____

Heat Efficiency Options:

a. Burner Stack Draft Controller _____
b. Flue Gas Economizer _____
c. Heat Exchanger _____ Type _____
d. Insulation: Specify _____
e. Turbolater: _____
f. Others _____

Comments: _____

_____

Copyright 2009 – American Petroleum Institute. All rights reserved.