



Spec. Number:
Orig. Issue Date:
Revision Date:

Title: **ADSORPTION GAS TREATMENT PLANT - DESIGN INFORMATION**
Project:

MANUFACTURER'S DATA SHEETS

Design Conditions

Design Flow rate (MMSCFD or B/D) _____
Inlet Pressure PSIG _____
Inlet Temperature °F _____
Inlet Specific Gravity _____
Inlet H₂O Design Point _____
Outlet H₂O Design Point _____
Regeneration H₂O Content _____
Max Plant Press Drop PSI _____
Max Press Drop Regen System PSI _____
Regeneration Flowrate (MMSCFD) _____
Regeneration Inlet Temp (F) _____
Regeneration Outlet Temp (F) _____
Cycle Time - Hrs _____
 Adsorption Time - Hrs _____
 Heating Time - Hrs _____
 Cooling Time - Hrs _____
Pressure at Regen Outlet Tie-in Point PSIG _____
Treated Outlet Temp (F) _____
Number of Towers _____
Diameter OD/ID _____
Length (Seam to Seam) _____
Weight (lbs) _____
Shell Material/Thickness _____
Head Material/Thickness _____
Inlet Pressure, PSIG _____
Inlet Temperature, °F (Min/Max) _____
Design Capacity MMSCFD _____
Adsorbent Capacity - lbs _____
Pressure Drop - Flange to Flange PSI _____
Adsorbent Supports – Description _____

Adsorbent Retention - Description _____

Design Pressure PSIG _____
Vacuum Design Pressure PSIA _____
Design Temperature (F) _____
Test Pressure PSIG _____
Inlet Connection Size/Type/Rating _____
Outlet Connection Size/Type/Rating _____
Orientation (Vertical/Horizontal) _____
Pressure Safety Valve Manufacturer/Model No. _____



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Design Conditions (cont'd)

Pressure Safety Valve Set Pressure/Capacity

Diff. Press Indicator/Switch Manufacturer/Model No/Range

Manway/Inspection Port Size/Type/Rating

Inlet Gas Filters Coalescer

Number of Filter Vessels _____

Diameter OD/ID _____

Length (Seam to Seam) _____

Weight (lbs) _____

Shell Material/Thickness _____

Head Material/Thickness _____

Inlet Pressure PSIG _____

Inlet Temperature, °F (Min/Max) _____

Design Capacity _____

Pressure Drop Flange to Flange PSI _____

Design Pressure (PSIG) _____

Vacuum Design Pressure PSIA _____

Design Temperature °F _____

Test Pressure (PSIG) _____

Inlet Connection Size/Type/Rating _____

Outlet Connection Size/Type/Rating _____

Orientation (Vertical/Horizontal) _____

Filter Element Manufacturer/Model No _____

Filter Element Quantity/Diameter/Length _____

Filter Element Max Allow Press Drop PSI _____

End Closure Type/Size (Full/reduced) _____

Differential Press Ind/Switch Manufacturer/Model _____

Pressure Safety Valve Manufacturer/Model No. _____

Pressure Safety Valve/Set Pressure/Capacity _____

Manway/Inspection Port Size/Type/Rating _____



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Outlet Gas Filter

Number of Filter Vessels _____
Diameter OD/ID _____
Length (Seam to Seam) _____
Weight (lbs) _____
Shell Material/Thickness _____
Head Material/Thickness _____
Inlet Pressure PSIG _____
Inlet Temperature, °F (Min/Max) _____
Design Capacity MMSCFD _____
Pressure Drop Flange to Flange PSI _____
Design Pressure (PSIG) _____
Vacuum Design Pressure PSIA _____
Design Temperature °F _____
Test Pressure (PSIG) _____
Inlet Connection Size/Type/Rating _____
Outlet Connection Size/Type/Rating _____
Orientation (Vertical/Horizontal) _____
Filter Element Manufacturer/Model No _____

Filter Element Quantity/Diameter/Length _____

Filter Element Max Allow Press Drop PSI _____

End Closure Type/Size (Full/reduced) _____

Differential Press Ind/Switch Manufacturer/Model _____

Pressure Safety Valve manufacturer/Model No. _____

Pressure Safety Valve/Set Pressure/Capacity _____

Manway/Inspection Port Size/Type/Rating _____



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MANUFACTURER'S DATA SHEETS

Regeneration Gas Scrubber

Diameter OD/ID _____
Length (Seam to Seam) _____
Weight (lbs) _____
Shell Material/Thickness _____

Head Material/Thickness _____

Inlet Pressure PSIG _____
Inlet Temperature, °F (Min/Max) _____
Design Capacity _____
Liquid Storage Capacity Gallons _____
Pressure Drop Flange to Flange PSI _____
Vane Element Manufacturer/Model No. _____

Vane Element Material/Rating _____

Design Pressure (PSIG) _____
Vacuum Design Pressure PSIA _____
Design Temperature °F _____
Test Pressure (PSIG) _____
Inlet Connection Size/Type/Rating _____
Outlet Connection Size/Type/Rating _____
Orientation (Vertical/Horizontal) _____
Gauge Glass Manufacturer/Model No. _____

Liquid Level Controller Manufacturer/Model No. _____

Liquid Level Switch Manufacturer/Model No. _____

Dump Valve Manufacturer/Model No. _____

Pressure Safety Valve Manufacturer/Model No. _____

Pressure Safety Valve Set Pressure/Capacity . _____

Differential Press Ind/Switch manufacturer/Model _____

Manway/Inspection Port Size/Type/Rating _____



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MANUFACTURER'S DATA SHEETS

Regeneration Gas Cooler

Manufacturer _____
Model Number _____
Type Drive _____
Drive Rating _____ HP _____
Cooler Duty _____ MMBTU/Hr _____
Louvers Included Yes _____ NO _____
Vibration Switch _____
Materials _____

Regeneration Gas Heater

Type _____
Manufacturer _____
Model Number _____
Type Drive _____
Blower Rating _____ HP _____
Heat Transfer Duty _____ MMBTU/Hr (LHV) _____
Materials _____
Emission Levels NOx Lb/Hr _____
CO Lb/Hr _____

Regeneration Compressor/Pump

Manufacturer _____
Model Number _____
Type/Orientation _____
Design Pressure (PSIG) _____
Design Temperature °F _____
Seal type _____
Suction Nozzle Size/Rating _____
Discharge Nozzle Size/Rating _____
Aerodynamic Assembly Model/Type _____
Compressor Mounting (Skid) _____
Suction Pressure PSIG _____
Suction Temperature °F _____
Discharge Pressure PSIG _____
Discharge Temperature °F _____
Flow _____
Brake Horsepower (Maximum) HP _____
Speed (Maximum) RPM _____
Torque (Maximum) Ft-Lbs _____
Torque (Starting Breakaway Ft-Lbs _____
at design pressure) _____
Guaranteed Isentropic Efficiency %
at _____ RPM _____ Ft-Lb/Lb _____ CFM