

Datasheet

Filter Separator

Project:
Document Number:

KYMEA Meter Station
8122-DAT-0004

Revision History

Description	Revision	Date	By	Approved
Issued for Review	A	3-Mar-25	JS	BM
Issued for Bid	B	15-May-25	JS	AR

Approvals

	By:	Date:
Initiator	BH	01/21/25
Process	N/A	
Mechanical	JS	03/03/25
Civil	N/A	
Electrical	N/A	
Instrumentation	N/A	
Project Eng.	AR	5/15/25
Project Mgr.	BM	03/04/25

Reference Documents

Purchase Specification: Filters Separators, Rev 1.30, 10/09/2020

OP-CC-GS-COAT-001 General Coating Specifications, Revision 3.20, 05/31/2024

TGT Design Standard: Meter Station, EC-DS-007, Rev 1.20, 05/17/2024

EnSiteUSA P&ID

Attachment A - Gas Compositions

Location: Madisonville, Kentucky Lat 37.318287°, Long -87.529971°

Identification Tag FS-101 Requisition No: _____

Project: KYMEA Meter Station Project No. _____

Prepared By: BH Approved By: BM

Date: 03/04/2025 Revision: A Revised Date: _____

Procurement Point:

Rob Leesman, VP of Market Analytics
rleesman@kymea.org
Kentucky Municipal Energy Agency (KYMEA)
1700 Eastpoint Parkway Ste.220
Louisville, KY 40223

Ship To:

KYMEA Energy Center I
Attn: Stan Conn
1957 AC Slaton Rd.
Madisonville, KY 42431

Gas Design Conditions:

Flow: Normal 10.6 MMSCFD @ 965 psig & 100 ° F

Min Flow 75 SCFH

Max Flow 26,940 lbm/hr

Operating Pressure: Operating Temperature:

Min/Max 0/965 psig Min/Max -20/110 ° F

Design pressure: 1142 psig (118% MAOP)

Maximum Noise at 3 ft: 85 dB

Performance:

Remove 99.9% of all entrained solids 0.3 microns and larger at all flow conditions.

Remove 99.9% of all liquids 1 micron and larger at all flow conditions.

Maximum of 2.0 psi pressure drop through the filter separator.

Insulation:

Insulate and heat trace the lower liquid level sump, the level gauges, level controllers, dump valves and drain lines to below frost depth –**Required**

The complete lower sump section shall be in an insulated enclosure with heat and drain lines insulated and heat traced to below frost depth – **Required**

Gas Analysis (Mole %) (Fill in parameters below or attach analysis to this specification):

BTU	
Specific Gravity	.58-.62
Gas Analysis (Mole %)	
C1 Methane	See Attachment A
C2 Ethane	
C3 Propane	
IC4 Iso-Butane	
NC4 Normal Butane	
IC5 Iso-Pentane	
NC5 Normal Pentane	
C6 Hexane	
CO2 Carbon Dioxide	
N2 Nitrogen	
H2O Water	

Notes:

- 1) Vendor to provide level accessories, including bridle, gauge, and sensor.
- 2) Vendor to size and provide relief valve. Relief valve duty requirements and relief valve actual capacity calculations must be provided in the Documentation package from the vendor.

Vendor Furnished Information:

Total Liquid Storage Capacity (gal.) _____

Total Solid Capacity (Cu-Ft. or Lbs.) _____

Design Pressure (MAWP) _____ psig

Design Temperature Min _____ ° F to Max _____ ° F

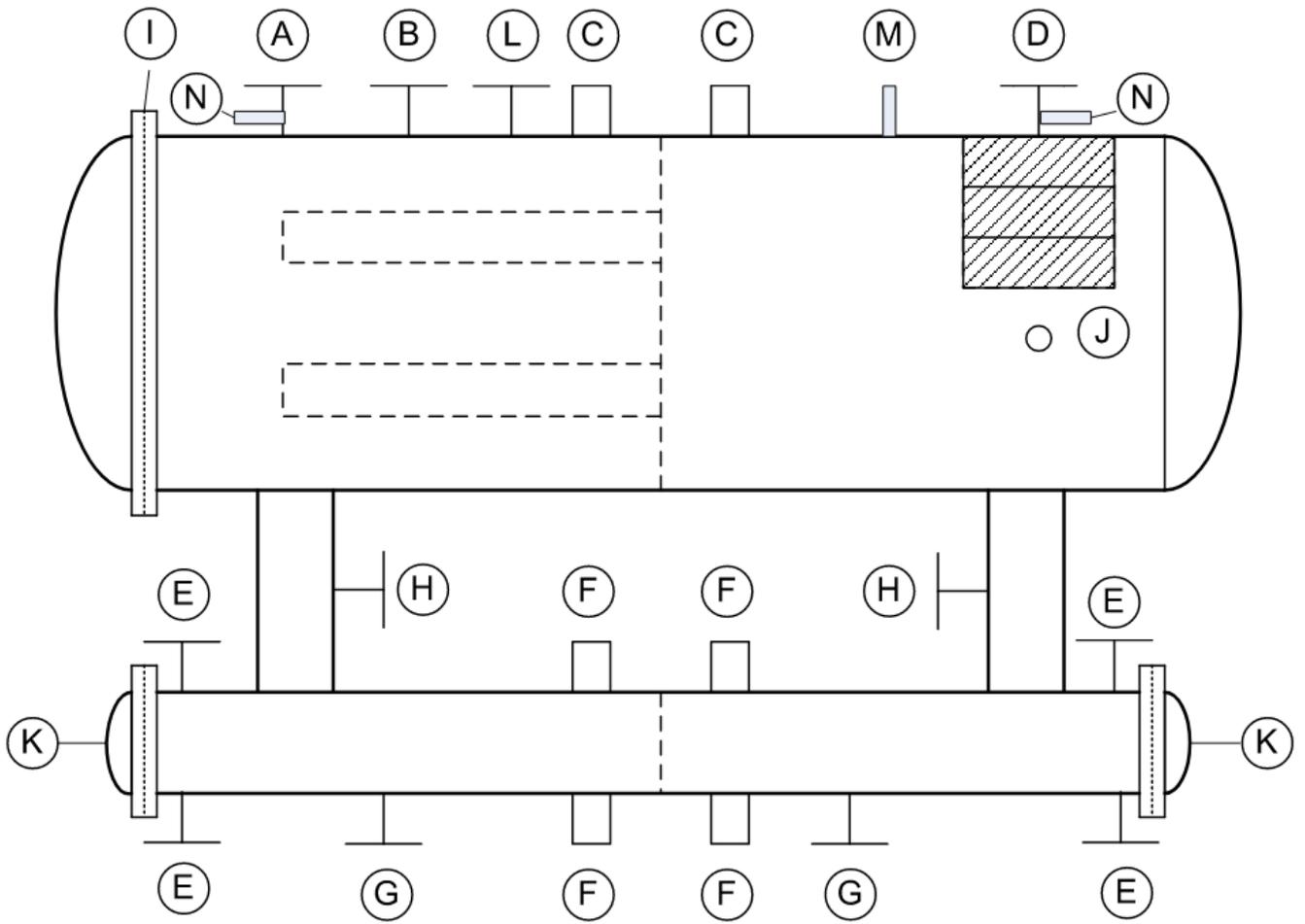
Corrosion Allowances: Vessel: _____ inches, Internals: _____ inches

Support Earthquake Zone: _____ or NA

Horizontal Separator Openings

(To be completed by vendor unless specified. See also [Vessel Diagram](#))

Nozzle	Service	No.	Size (in)	Rating	Type	Nozzle Projection
A	Inlet	1	6	600#	RF FLG	
B	Relief Valve					
C	Pressure Differential					
D	Outlet	1	6	600#	RF FLG	
E	Level Control Bridle					
F	Level Gauge					
G	Liquid Drain					
H	Bridle, Level, Sensor					
I	Filter Access/Closure					
J						
K	Sump					
L	Blowdown/Vent					
M	Pressure Gauge					
N	Test Connections	2	1	600#	RF FLG	



Vessel Diagram