

Datasheet

Condensate Tank

Project:

KYMEA Meter Station

Document Number:

8122-DAT-0003

Revision History

Description	Revision	Date	By	Approved
Issued for Review	A	03/04/2025	JS	BM
Issued for Bid	B	05/16/2025	JS	BM

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	03/04/25
Project Mgr.	BM	03/04/25

Reference Documents

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

Attachment A – Magtech Configuration Datasheet, Markup

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

EnSiteUSA P&ID



DOUBLE WALL ATMOSPHERIC TANK DATA SHEET

Client Name:	Kentucky Municipal Energy Agency	Equipment Name:	Condensate Storage Tank
Project Name:	KYMEA Meter Station	Item No.:	Quantity: 1
Location:	Madisonville, KY	Sheet No.: 1 of 3	
Project No.:		P&ID No.:	

Procurement: Rob Leesman, VP of Market Analytics
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Kentucky Municipal Energy Agency (KYMEDIA)
1700 Eastpoint Parkway Ste.220
Louisville, KY 40223

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

Process Data

MATERIAL STORED: Pipeline Condensate Liquids

PUMPING RATE (gpm)		WORKING VOLUME (gal)	Refer to Detail 1
CAPACITY (gal)	6,000, nominal	OPER. VACUUM (" w.c.)	N/A
LIQUID DENSITY (lb/cu ft)		VAPOR PRESSURE (psia)	
AMBIENT TEMPERATURE (°F)	110/-20	OPER. PRESSURE (psig)	0

Mechanical Data

ACCESSORIES:

See detail sheet, below

INTERNAL	TYPE/MODEL	EXTERNAL	TYPE/MODEL
BAFFLES	N/A	FOUNDATION TYPE	CONCRETE / ANCHOR
LIQUID DISTRIBUTOR	N/A	LIFTING LUGS	YES
AGITATOR	N/A	RELIEF HATCH	YES
COILS	N/A	GROUNDING LUGS	YES
COIL SUPPORT	N/A	INSULATION	N/A
SURFACE PREPARATION	N/A	FIRE PROTECTION	NO
EXTERNAL JACKET	DOUBLE WALL	ASME STAMP REQUIRED	N/A
SHOP OR FIELD FABRICATED	SHOP	API MONOGRAM REQUIRED	N/A
HEAD TYPE (TOP/BOTTOM)	N/A	SEAMS:	
INSIDE DIAMETER (ft)	*	LETHAL SERVICE (y/n)	N
HEIGHT (ft)	*	RADIOGRAPHIC EXAM.	N/A
SUPPORT TYPE/HEIGHT	*	WIND LOAD (velocity) (mph)	120 mph, Exposure C, ASCE 7-10
CYCLIC SERVICE	NO	EARTHQUAKE ZONE	SDC D, ASCE 7-10
STRESS RELIEF	N/A	ROOF SNOW LOAD	15 lbs/sq. ft , ASCE 7-10
FRANGIBLE ROOF JOINT (y/n)	N/A	WEIGHT (empty/full)	*

Materials of Construction				
	MATERIAL	THICKNESS (in)	MILL TEST REPORT REQUIRED (y/n)	CORROSION ALLOWANCE (in)
SHELL	SA-36	*	N	N/A
TOP HEAD	SA-36	*	N	N/A
BOTTOM HEAD	SA-36	*	N	N/A
LINING	N/A	N/A	N/A	N/A
NOZZLES	SA-106B	*	N	N/A
FLANGES	SA-105	*	N	N/A
BOLTING	SA-193 B7 SA-194 2H	N/A	N/A	N/A
GASKETS	SS Spiral Wound CGI	*	N/A	N/A
STRUCTURALS	SA-36	N/A	N/A	N/A
INSULATION	N/A	N/A	N/A	N/A
Design Standards and Inspection				
DESIGN PRESSURE (oz/in ²)		16/-8	DESIGN CODE	UL-142 & STI F921
DESIGN TEMPERATURE (max/min °F)		110/-20	INSPECTION	YES
HYDROSTATIC TEST PRESSURE (psig)		AIR TEST PER UL-142	DWGS. AND DATA REQ.	YES
MANUFACTURER		TBD	ORDER No.	
DATE OF INQUIRY			DWG No.	
MAXIMUM NOISE at 3ft (dB)		85		

“ * “ – Denotes information to be supplied by Vendor

DOUBLE WALL ATMOSPHERIC TANK DATA SHEET

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Project Name:	KYMEA Meter Station	Item No.:	Quantity: 1
Location:	Madisonville, KY	Sheet No.:	2 of 3
Project No.:		P&ID No.:	

Notes

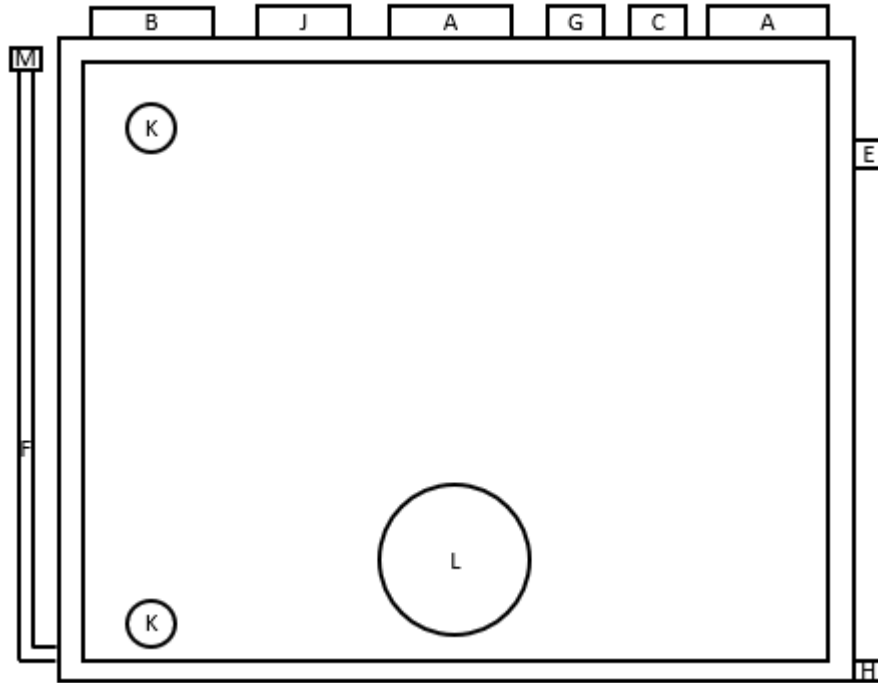
1. Tank shall bear the Steel Tank Institute (STI) F921 Double-Wall Aboveground Storage Tank identification label.
2. Tank shall bear Underwriters Laboratories UL 142 label for primary tank and secondary containment.
3. Aboveground tank primary and secondary containment (inner and outer walls) shall be manufactured in accordance with and listed for Underwriters Laboratories UL 142.
4. Tank shall be double-wall with a steel inner wall for primary containment and provide integral secondary containment by an impervious steel outer wall.
5. Integral secondary containment shall be testable and provide access for interstitial leak detection monitoring.
6. UL/ULC listed supports shall be used for all horizontal, rectangular, and vertical double-wall tanks.
7. Manufacturer shall be a licensed member of the Steel Tank Institute and subject to Steel Tank Institute's Quality Assurance program.
8. Vendor shall supply nuts, bolts and gaskets where mating flanges are supplied.
9. Vendor to specify maximum pressure and vacuum ratings attainable at the design temperature based on selected shell/head thickness.
10. Vendor shall provide coatings as listed below:
 - a. Interior: Phenoline 187 two coat epoxy.
 - b. Exterior:
 - i. PRIMER: Carboguard 890 epoxy primer,
 - ii. FINISH: Carbothane 134 Boardwalk Grey polyurethane exterior
11. Tank shall be elevated on steel beams to allow inspection underneath. Vendor to provide I-beam supports.

APPLICABLE SPECIFICATIONS AND STANDARDS:

UL-142
STI F921

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Structural Data		Nozzles					
STAIRWAY	N/A	Two (2) – 8" 244OF flanged emergency vents (A) One (1) – 8" Thief hatch (B) One (1) – 4" 94550-15-11-77 Shand & Jurs Flame Arrestor/Free Vent (C) One (1) – 3" 150# RF flange outlet (D) One (1) – 2" 150" RF flange for inlet (E) One (1) – 2" Interstitial monitor port (F) One (1) – 4" 150# RF flange with Blind (G) One (1) – 1" FNPT for interstitial drain (H) One (1) – 6" 150# RF flange for level transmitter (J) Two (2) – 2" 150" RF flange for Magtech 316ss Level Gauge Assembly 2" chamber, 316ss float, model MLS3EX-MAZZZS1C1E8 - 1A (resistive) level switches, C/C 1" FNPT side inlet/outlet, 1" ball valve vent/drain, Indicator: Bi-Colored (Red and Silver), vendor determined* range, feet and inch units, standard mounting (K) One (1) – 24" Shell manway (L) One (1) – Gems LS800 Leak Detector Switch (M)					
ANGLE TO HORIZ.	Parallel						
LADDER (y/n)	Y						
WALKWAY (y/n)	Y						
WIDTH (in)	*						
LENGTH (ft)	*						
TANK BOTTOM:	*						
SLOPE (in per ft)	N/A						
NOTES:							
1. VENDOR TO PROVIDE STAMPED STEEL NAME PLATE							
W/ VESSEL TAG NUMBER PERMANENTLY STAMPED ON							
NAME PLATE.							

* * * – Denotes information to be supplied by Vendor

