

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
 As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by SMITHCO ENGINEERING, INC., 6211 S. 39th W. AVENUE, TULSA, OKLAHOMA 74132
 (Name and address of Manufacturer)

2. Manufactured for INFRA XTL Technology Houston, TX 77019
 (Name and address of Purchaser)

3. Location of installation INFRA Technology LLC Houston
 (Name and address)

4. Type Horiz(Non-Cir) 2015B-2221-A 2015B-2221 14748 2016
 (Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 2013 --- ---
 [Edition and Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]

6. Shell Tube & Plug Sheets: SA-516 GR-70N FR 0.750 / BK 0.750 0.625 FR 0' 10.4375' / BK 0' 10.4375' 4' 11.6250"
 (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner Diameter) [Length (overall)]

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material

7. Seams Corner Joint --- 100 --- --- 100 1
 [Long (welded, dgl., sngl., lap, butt)] [R.T. (spot or full)] (Eff., %) (H.T. temp.) (Time, hr) [Girth (welded, dgl., sngl., lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses)

8. Heads: (a) Material Covers: SA-516 GR-70N (b) Material Ends: SA-516 GR-70N
 (spec. no., grade) (spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Fr/BK	0.375/0.375	0.0625	---	---	---	---	---	4.0000/4.0000 x 59.6250	Flat
(b)	Fr/BK	0.375/0.375	0.0625	---	---	---	---	---	3.6875/3.6875 x 10.1250/10.1250	Flat

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)												
(b)												

9. MAWP 100 at max. temp. 240
 (External) (External)

Min. design metal temp. -20 at 100 Hydro., pneu., or comb. Test pressure 130
 Proof test _____

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, ect.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
INLET/OUTLET	1/1	4"150/ XS	RFWN	SA-105		0.337	.0625	Integral		UW-16.1(a)	FR/BK HEAD

11. Supports: Skirt No Lugs Legs 4 Other Attached Welded to covers
 (Yes or no) (Number) (Number) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report _____
 (Name of part, item number, Manufacturer's name and identifying stamp)

Impact Testing exempt per: UG-20(f) ITEM: AC-1710A SERVICE: AMINE AIR COOLER

Tubes: SA-214 WLD - 171 x 0.75" x .060" x 39.0000' - Straight

Constructed per UW13

FORM U-1A (Back)

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 4175

expires February 28, 2018

Date 2/9/16 Co. name Smithco Engineering, Inc. Signed Regina Rogers
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Smithco Engineering, Inc. at Tulsa, Oklahoma
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by ONECIS INSURANCE COMPANY OF LYNN, MA

have inspected the component described in this Manufacturer's Data Report on 2/8/16, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concernin the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2/10/16 Signed [Signature] Commissions NB12736 A OK914
(Authorized Inspector) (National Board (incl. endorsements))