FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS Additional Drawing No. (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 Header Volume (cu.ft.) 1. Manufactured and certified by Harsco Industrial Air-X-Changers, 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA (Name and address of Manufacturer) 2. Manufactured for EXTERRAN, P.O. BOX 690349, HOUSTON, Texas, 77269, USA (Name and address of Purchaser) 3. Location of Installation UNKNOWN (Name and address) Heat Exchanger 14147624.5 N/A HDR-5, REV0 88333 2015 4. Type (Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built) 5. ASME Code, Section VIII, Division 1 2013/ N/A N/A N/A [Edition and Addenda, if applicable (date)] (Special service per UG-120(d)) (Code Case numbers) 6. Shell: 1.625 in 0.0625 in N/A N/A SA516 70 (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)] Body Flanges on Shells Bolting How Flange ID Bolting No. Туре OD Min Hub Thk Material Location Washer (OD, ID, Washer Attached Thk Num & Size Material thk) Material N/A C=.20 7. Seams: Corner Joint N/A N/A N/A N/A N/A N/A N/A [Long. (welded, dbl., sngl., lap, butt)] [R.T.(spot or full)] (Eff.,%) (H.T. temp) (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses) 8. Heads: (a) Material (b) Material SA516 70 SA516 70 (Spec. no., grade) Location (Top, Bottom, Side to Pressure (Convex or Minimum Corrosion Crown Radius Knuckle Radius | Elliptical Ratio Conical Hemispheri Flat Diameter Thickness cal Radius Ends) Allowance Apex Angle Concave) (a) TOP, BTM 1.0" 0.0625 N/A N/A N/A N/A N/A 4" x 34.375' N/A **ENDS** .875' 0.0625 N/A N/A N/A N/A (b) N/A N/A 4" x 6.3125 Body Flanges on Heads Min Hub Bolting Material Washer (OD, How Attached Location ΙD OD Flange Thk Material Nο Type Thk Num & Size Washer Material N/A N/A (a) N/A N/A N/A N/A N/A N/A N/A N/A N/A at max. temp. 9. MAWP 1650 psi N/A 350 °F N/A (External) (External) (Internal) (Internal) 1650 psi HYDRO, at 2145 psi Min. design metal temp. -20 °F at Hydro, pneu., or comb. test pressure Proof test N/A 10. Nozzles, inspection and safety valve openings: Nozzle Thickness Material Attachment Details Purpose (Inlet, Outlet, Drain, Diameter Reinforcement Location No. Type Material (Insp. Open.) etc.) or Size Nozzle Nom. Corr Nozzle Flange Flange IN/OUT 3 3" 900# RFWN SA106 GRB **SA105 SCH-80** Weld Welded Welded Header 1.5" DRAIN 1 **CPLG SA105** 6000# Weld Welded Welded Header DRAIN 2 0.75" **CPLG SA105** 6000# Weld Welded Welded Nozzle DRAIN 2" **CPLG SA105** 6000# Weld Welded Welded Header 11. Supports: Skirt Other Attached Lugs NO N/A Legs N/A Structure **Bolted** (Yes or no) (Number) (Number) (Where and how) (Describe) 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)

Line 6 - -Tube and Plug Dimensions OR Header Dimensions: 8.3125" X 1.6250" X 2' 10.3750"

Straight length of tubes, OR, Distance between the headers: 22' 0.0"

(A) TUBES: 108 x .625" OD, Gauge: 16BWG, Material: SA214 Rolled Tube Sheet (B) INSP.OPENINGS:

216, Type: 3/4X16UNF-Threaded, Material: SA105 (C)IMPACT REQUIREMENTS: IMPACT EXEMPT PER:

UG-20(f). Constructed in conformance with Appendix 28.

FORM U-1A (Back)

NB Number 88333

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 4241 expires December 31, 2017					
Date 01/25/2015	Co. name	Harsco Industrial Air-X-C	hangers	Signed	(Representative)
CERTIFICATE OF SHOP/FIELD INSPECTION					
			at 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA		
l, 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					
Date01/27/2	015 Sigı	ned Distributed Michigan	_ Commissions		672A, OK765 ard (incl. endorsements)]

2190213 exe: v6.4.28 *Form and version:* U1A-18