

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

Page 1 of 2

1. Manufactured and certified by A.S.T.R.A Refrigeranti S.r.l. (AIR COM SEP) – Via Leopardi N.27 – S.Pietro Mosezzo 28060 – Italy
(Name and address of Manufacturer)

2. Manufactured for ATLAS COPCO AIRPOWER n.v. PORTABLE AIR DIVISION - Ingberthoeveweg 7 B – 2630 Aartselaar – Belgium
(Name and address of Purchaser)

3. Location of installation Not known
(Name and address)

4. Type Vertical Oil Separator S 47198 to S 47203 n.a. SEP00494 Rev. 06 n.a. 2021
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 Edition 2019 n.a. n.a.
(Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell SA/EN 10028-2 P295GH 0.157 in. 0 in. 0 ft. 10.197 in. 2 ft 3.756 in.
(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
1	Flange	7.480 in.	10.512 in.	1.969 in.	---	SA 105	UW 13.2 (d)	Shell	No. 12 M12x40	SA449 Cl. 1/SF 568 Type 8.8	---	---

7. Seams UW 12 Tp. 1 No 70% No No UW 12 Tp. 2 No 65% 1
(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 SA 105 (b) Material SA/EN 10028-2 P295GH
(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)	Top	0.520 in.	0 in.	---	---	---	---	---	7.717 in.	---
(b)	Bottom	0.142 in.	0 in.	10.512	1.260	---	---	---	---	Concave

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)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
(b)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

9. MAWP 232 psi n.a. at max. temp. 250 °F n.a.
(Internal) (External) (Internal) (External)

Min. design metal temp. -4 °F At 232 psi . Hydro., pneu., or comb. test pressure 348 psi

Proof test No .

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inspection	1	G 1/2"	Coupling	SA 105	---	0.217 in.	0 in.	n.a.	UW 16.2 (K)	---	Bottom end
	1	G 1 – 1/4"	Coupling	SA 106 Gr. B	---	0.126 in.	0 in.	n.a.	UW 16.1 (c)	---	Shell
	1	G 3/4"	Coupling	SA 105	---	0.365 in.	0 in.	n.a.	UW 16.2 (K)	---	Shell
Inlet, Outlet And Drain	1	I.D. 2.166 in.	Coupling	SA 105	---	0.492 in.	0 in.	n.a.	UW 16.2 (K)	---	---
	1	I.D. 2.547x1.220 in.	Special Pipe	SA 106 Gr. B	---	0.157 in.	0 in.	n.a.	UW 16.1 (c)	---	---
	1	G 3/4"	Coupling	SA 105	---	0.365 in.	0 in.	n.a.	UW 16.2 (K)	---	---

11. Supports: Skirt No Lugs No Legs No Other 1 Basement Attached Welded on bottom head
(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: n.a.

(Name of part, item number, Manufacturer's name and identifying stamp)

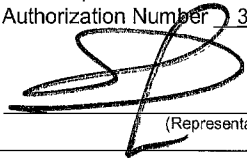
- Anti-vibrating system and safety valve not supplied. It is responsibility of the user; Tested in horizontal position – acc. To UG 99(c)
- Girth seam: Joggle in head UW 13.1(i); Impact test exemption per UG 20 (f)
- Threaded couplings
- Corrosion allowance not required per UG 25(d) (Non corrosive service)
- Special Pipe I.D. 2.547x1.220 in. has been proof tested with bursting type according to UG 101 (m) at 2320 PSI and accepted by the inspector on October 08,2009

Manufactured by A.S.T.R.A Refrigeranti S.r.l. (AIR COM SEP)

Manufacturer's Serial No. S 47198 to S 47203 CRN n.a. National Board No. n.a.

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 35,139
Expires June 03, 2023.

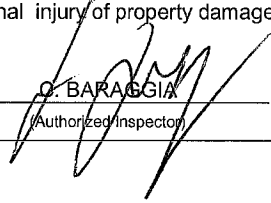
Date 05 May 2021 Co. name A.S.T.R.A Refrigeranti S.r.l. (AIR COM SEP) Signed  (Representative)
(Manufacturer)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by A.S.T.R.A Refrigeranti S.r.l. (AIR COM SEP) at S. Pietro Mosezzo – Novara – ITALY

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by
Lloyd's Register Verification Limited of UK

have inspected the component described in this Manufacturer's Data Report on 05 May 2021
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, concerning 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 05 May 2021 Signed  Commissions 12912
(Authorized Inspector) (National Board Authorized Inspector Commission number)

AUSTRALIAN STANDARD 4458
MANUFACTURER'S DATA REPORT - PRESSURE VESSEL - No 18/46/1

(To be Completed and Forwarded to Respective Statutory Authority where Installed) Registration No.

1. TITLE OF VESSEL/COMPONENT OIL SEPARATOR
2. MANUFACTURED BY AIR COM (a brand of A.S.T.R.A. REFRIGERANTI S.R.L.) - Via Dante Alighieri, 8 - 28060 SAN PIETRO MOSEZZO - ITALY
3. MANUFACTURED FOR Atlas Copco Airpower n.v. P.B. 103 - Boomsesteenweg 957 - 2610 Wilrijk - Belgium
4. LOCATION OF INSTALLATION Unknown
5. DESIGN APPROVED: State NEW SOUTH WALES No PV 6-131821/10 - 15 July 2010
6. MANUFACTURER'S SERIAL NUMBER 46 / 824 to 46 / 829 INTERNAL VOLUME 0,042 m³
7. LOCATION OF REGISTRATION ---
8. TYPE: Vertical CODE & CLASS AS1210 - 3 HAZARD LEVEL AS4343: C
9. DRAWING No SEP00494 rev.01

10. DESIGN PRESS. 1600 kPa DESIGN TEMPERATURE + 120 °C max. -7 °C min Design life n.a. hcycles

11. PRESSURING FLUID (Steam, air, gas, etc.) Gas

12. SHELL Diameter 267 mm Length 826 mm Nominal thickness 4 mm
Corrosion allowance 0,75 Material (Spec & Grade) P295GH UNI EN 10028-2
Longitudinal Joint: single butt weld Heat treat. No NDT No Joint eff. 0,7
Circumferential Joint: single butt weld

13. ENDS	Location	Shape	Side to pressure	Diam.(mm)	Thck. Min (mm)		
(a)	TOP	Flat	---	267	50		
(b)	bottom	Elliptical	Concave	267	4		
	Corrosion Allow.(mm)	Crown radius.(mm)	Knuckle radius (mm)	Cone apex Angle	Material (Spec.& Grade)	Joint Eff.	Method of Attachment
(a)	0,75	---	---	---	SA 105	----	Welded
(b)	0,75	---	---	---	P295GH UNI EN 10028-2	----	Welded

14. QUICK ACTUATING DOOR: Type (Bayonet, etc.) --- Interlock fitted (Yes, No) ---

15. JACKET: Type --- Closure (Ogee, bar etc and Dimensions) ---

16. STAYS: Size (Diam.thck.) --- Material (Spec. & Grade) --- Attachment ---

17. BRANCHES	No	Size	Material (Spec & Grade)	No	Size	Material (Spec & Grade)
	1	45	O.D. SA 105			
	1	35	O.D. SA 105			
	1	48,3	O.D. SA 106 Gr. B			
	1	70	O.D. SA 106 Gr. B			
	1	80	O.D. SA 105			

Flange Spec. --- Flange rating ---

18. INSPECTION Manhole: No. --- Size --- Location ---

OPENINGS Handhole: No. ---

Sighthole No. 1 Size 190 Location Top End

19. SUPPORTS Type Saddle No. 1 Location End

Type Feet No. Location

20. SAFETY DEVICE: Safety valve: No. --- Size --- Type --- Location ---

Other device ---

21. WELDERS QUALIFICATION AND CERTIFICATION: According to EN 287- EN 9606

22. TEST: Production test plates Yes Test Pressure : 2400 kPa

Pressure test medium (Hydro, Pneum, Combin.) Hydro TEST POSITION : Horizontal

Max. Permanent stretch - % Location of max. stretch -

23. CERTIFICATE OF MANUFACTURER: I certify the data in this report are correct and that all details of material, manufacture and workmanship satisfy the requirements of AS 1210.

(Manufacturer) A.S.T.R.A. REFRIGERANTI S.R.L.

05/05/2021

24. INSPECTING AUTHORITY (or Independent Inspector)

05/05/2021

[Signature]
05/05/21

CERTIFICATE OF SHOP INSPECTION

Inspection Check List - Fired and Unfired Pressure Vessels

Manufacturer AIR COM (a brand of A.S.T.R.A. REFRIGERANTI S.R.L.) - Via Dante Alighieri, 8 - 28060
SAN PIETRO MOSEZZO - ITALY

Vessel description & item number OIL SEPARATOR Lt. 42 - 1626437200

Serial No (s) 46 / 824 to 46 / 829 Drawing No SEP00494

WorkCover Authority Design Approval No. PV 6-131821/10

WorkCover Approval Date 15 July 2010 Manufacture Commencement date 01/05/2021

NO	STAGE OF CONSTRUCTION	CONSTRUCTION CODE AS1210					STATUTORY AUTHORITY Approved 3rd PARTY INSPECTOR	
		CLASSES OF CONSTRUCTION					INITIALS	INSPECTION DATE
		1H	2H	2A	2B	3		
1	Approval/Competence of Manufacturer						A.P.	01/05/2021
2	Check on procedure						A.P.	01/05/2021
3	Qualified welding personnel						A.P.	01/05/2021
4	Material identification - mark and re-mark							
5	General inspection - Examination for material defects e.g. laminations						A.P.	05/05/2021
6	Edge preparations							
7	At assembly tack and fit up - dimensional & alignment check - branches, reinforcements attachments							
8	Witnessing of production weld test plates							
9	Welding first side - back chip or gouge							
10	On completion of welding - On dressing of weld if required - inspect internally where possible						A.P.	05/05/2021
11	Radiography						A.P.	05/05/2021
12	Repair and retest							
13	Heat Treatment with test plates							
14	Mechanical test - Result - Retest							
15	NDT on nozzles etc							
16	Hydrostatic pressure test						A.P.	05/05/2021
17	Examination of marking and reports, Manufacturer's data sheets, etc.						A.P.	05/05/2021

This form must be filled in by a Statutory Inspection / Approved Third Party Inspector inspecting the vessel on behalf of the Victorian Department of Labour.

When the inspector is satisfied that a particular item of the Check List has been complied with he or she must place a " V " against the appropriate item and class of construction and initial the item.

The initials of each inspector appearing on this sheet must be identified by placing the inspector's name in printed form against one sample of the initials.

Signed (A.P.) A.Perocco

Statutory Authority/Third Party Inspection Agency.....

Date 05/05/2021

[Handwritten signature]
05/05/21