







DOC NUMBER:

569-DB7B-MEC-712-001

CLIENT NUMBER:

PRD-MEC-DSH-013

CLIENT:

TAKEDA/BAXALTA

PROJECT:

**BURITI EPCVM PROJECT** 

## **DATA SHEET** COMPRESSED AIR - COMP-7B-1 / COMP-7B-2 AD-7B-1 / AD-7B-2 AR-7B-1

0	30/JUL/2021	ISSUED FOR CONSTRUCTION	ASO	LFF	RSP
В	02/JUN/2021	90% DD ISSUE	ASO	LFF	RSP
Α	08/FEB/2021	30% DD ISSUE	ASO	LFF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









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COMPRESSED AIR - COMP-7B-1 / COMP-7B-2 // AD-7B-1 / AD-7B-2 // AR-7B-1

2/6

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## 1. REVISION HISTORY

Rev	Reason For Change						
Α	ORIGINAL ISSUE						
	Page 3, lines 15, 28, 37,45 e 53: Changed flow rate from 2,330 Nm³/h to 1,200 Nm³/h.						
	Page 3, line 7: Adjusted air receiver design temperature.						
	Page 3, line 8: Indicated manhole dimension						
В	Page 3, line 9: Informed air receiver dimensions						
	Page 3, line 10: Adjusted air compressor connections						
	Page 5: Adjusted sketch						
	Page 6, note 6: Complemented communication protocol information						
	Page 6: Included note 14						
0	ISSUED FOR CONSTRUCTION						









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COMPRESSED AIR - COMP-7B-1 / COMP-7B-2 // AD-7B-1 / AD-7B-2 // AR-7B-1

3/6 REV.:

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1	ITEM Nº: COMP-7B-1 / COMP-7B-2 QTD: 2	AIR RECEIVER DESIGN CONDITIONS				
2	SERVICE: Compressed Air - Drug Substance Bld. (7B)	AIR RECEIVER TYPE: Vertica				
3	LOCAL: Goiana - Pernambuco	<b>ITEM №</b> : AR-7B-1 <b>QTD</b> : 1				
4	APPLICABLE:  PROPOSAL  PURCHASE	DESIGN CODE: ASME VIII - DIV 1 e NR-1				
5	AS BUILT	VOLUME: 3 m				
6	COMPRESSOR DESIGN CONDITIONS	PRES.E (bar g) 11,0 DESIGN 6,0 OPER.				
7		TEMP. (°C) -20@100 DESIGN 40,0 OPER.				
8		MANHOLE DIMENSION (mm): 350 X 450				
9		<b>DIMENSIONS (DXH) mm:</b> 1,265 x 2,88				
10		MATERIAL/PAINTING: Vendor Standard (note 1)				
11	ACTUATION VFD (Variable-frequency drive)	, ,				
12	MATERIAL/PAINTING: Vendor Standard (note 1)					
13	COMPRESSOR OPERATION CONDITIONS	WATER INLET TEMPERATURE: 31.5 °C				
14		WATER RETURN TEMPERATURE: 37.0 °C				
15	·	WATER COOLING FLOW: By Vendo				
16		PRESSURE OPERATION: By Vendo				
17		PRESSURE DROP: By Vendo				
18		COMPRESSOR GENERAL DATA				
19		NUMBER OF STAGES: By Vendo				
20		EFFECTS SINGLE DOUBLE				
21	AIR DRYER DESIGN CONDITIONS	TYPE:   LUBRIC.   OIL FREE				
22	DRYER TYPE: Adsorption type - heated					
23	, .,	MINIMUM ALLOWABLE FLOW: By Vendo				
24						
25	<u> </u>	MAXIMUM ALLOWABLE FLOW: By Vendor LOCATION Indoor				
26						
27		NOISE LEVEL W/ ACOUSTIC CABIN: 85 dB(A) max				
28		POWER (HAN)				
29	MATERIAL/PAINTING: Vendor Standard (note 1)	POWER (kW): By Vendor				
30	AIR DRYER PRE-FILTER DESIGN CONDITIONS	· · · ·				
31	FILTER TYPE: Particulate Coalescing Filter	TENSION (V) 380				
32		N° OF PHASES:         3           FREQUENCY (Hz):         60				
33		SPEED CONTROL: Yes				
34		INSULATION CLASS: F				
35						
36		SERVICE FACTOR: 1,25				
37		ZONE / TEMP. CLASS / GROUP: N/A PROTECTION: IP 5				
38	AIR DRYER POST-FILTER DESIGN CONDITIONS					
39	FILTER TYPE: Particulate Coalescing Filter					
40	ITEM Nº: F-AD-7B-1/F-AD-7B-2 QTD: 2	WATER IN/OUT By Vendor ANSI B16.5 / 150#				
41		DISCHARGE By Vendor By Vendor				
42	TYPE OF PURGE: Automatic					
43		AIR DRYER CONNECTIONS				
43		SERVICE SIZE TYPE				
45		AIR INLET. By Vendor By Vendor				
46	AIR RECEIVER POST-FILTER DESIGN CONDITIONS	AIR OUTLET By Vendor By Vendor				
47		AIR DRYER FILTERS CONNECTIONS(PRE/POS)				
48	ITEM Nº: F-AR-7B-1 QTD: 1	SERVICE SIZE TYPE				
49		AIR INLET. By Vendor By Vendor				
50		AIR OUTLET By Vendor By Vendor				
51		AIR RECEIVER POST-FILTER				
	-					
52 53	_	SERVICE   SIZE   TYPE     AIR INLET.   By Vendor   By Vendor				
	1,200 NM97.					
54		AIR OUTLET By Vendor By Vendor				









PRD-MEC-DSH-013 569-DB7B-MEC-712-001 CLIENT NR: NUMBER:

TITLE SHEET: 4/6

## COMPRESSED AIR - COMP-7B-1 / COMP-7B-2 // AD-7B-1 / AD-7B-2 // AR-7B-1

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CONIF	PRESSED AIR - COMP-	-, D•	i i COIV	/	D-2 // AU-/	19-1 / AU-1D	-411 AR-1	ו -ני	REV	0
1	SHOP INSPECTION AND	WEIGHT								
2	SHOP INSPECTION	_	REQ'D	П	NOT REQ'D	COMPRES.:	Bv Vendor	EMPTY	By Vendor	OPER.
3	HYDROSTATIC	=	REQ'D	Ħ		AIR DRYER:			By Vendor	
4	MECHANICAL RUN	=	REQ'D	Ħ		AIR RECEIV.:			By Vendor	
5	PERFORMANCE TEST	=	REQ'D	Ħ	NOT REQ'D	_				0. 2
6	COMPLETE UNIT TEST	_	REQ'D	Ħ	NOT REQ'D	1				
7	FULL-LOAD TEST	=	REQ'D	Ħ	NOT REQ'D					
8	EQUIPMENT AND INSTR			PLIE		<u> </u>				
9	COMPRESSOR:	MFR.	By Vendor	МО	DEL	By Vendor				
10	DRYER				MFR.	By Vendor		DEL	By Ver	
11	DRYER PRE FILTER				MFR.	By Vendor		DEL	By Vendor	
12	DRYER POST-FILTER			MFR.	By Vendor		DEL	By Vendor		
13	AIR RECEIVER POST-FILTER				MFR.	By Vendor		DEL	By Vendor	
14	ELECTICAL MOTOR			MFR.	By Vendor		DEL	By Vendor		
15	PRESSURE GAUGES			MFR.	By Vendor		E & TYPE	By Vendor		
16	TEMPERATURE GAUGES			MFR.	By Vendor		E & TYPE	By Vendor		
17	LEVEL GAUGES			MFR.	By Vendor		E & TYPE	By Vendor		
18	DIFF-PRESSURE GAUGES			MFR.	By Vendor		E & TYPE	By Vendor		
19	PRESSURE SWITCHES/TRANSMITTERS			MFR.	By Vendor		E & TYPE	By Vendor		
20	DIFF-PRESSURE SWITCHES/TRANSMITTERS				By Vendor		E & TYPE	By Vendor		
21	TEMPERATURE SWITCHES				MFR.	By Vendor		E & TYPE	By Ver	
22	LEVEL SWITCHES/TRANSM				MFR.	By Vendor		E & TYPE	By Ver	
23	CONTROL VALVES				MFR.	By Vendor		E & TYPE	By Vendor	
24	PRESSURE-RELIEF VALVE	S			MFR.	By Vendor		E & TYPE	By Vendor	
25	THERMAL RELIEF VALVES			MFR.	By Vendor		E & TYPE	By Vendor		
26	FLOW INDICATORS			MFR.	By Vendor		E & TYPE	By Vendor		
27	GAS FLOW MEASUREMENT			MFR.	By Vendor		E & TYPE	By Ver		
28	VIBRATION/AXIAL POSITION MEASUREMENT				By Vendor		E & TYPE	By Ver		
29	SPEED MEASUREMENT			MFR.	By Vendor		E & TYPE	By Ver		
30	SOLENOID VALVES				MFR.	By Vendor		E & TYPE	By Ver	
31	ON-OFF VALVES				MFR.	By Vendor		E & TYPE	By Ver	
32	DEW POINT ANALYZER				MFR.	By Vendor		E & TYPE	By Ver	
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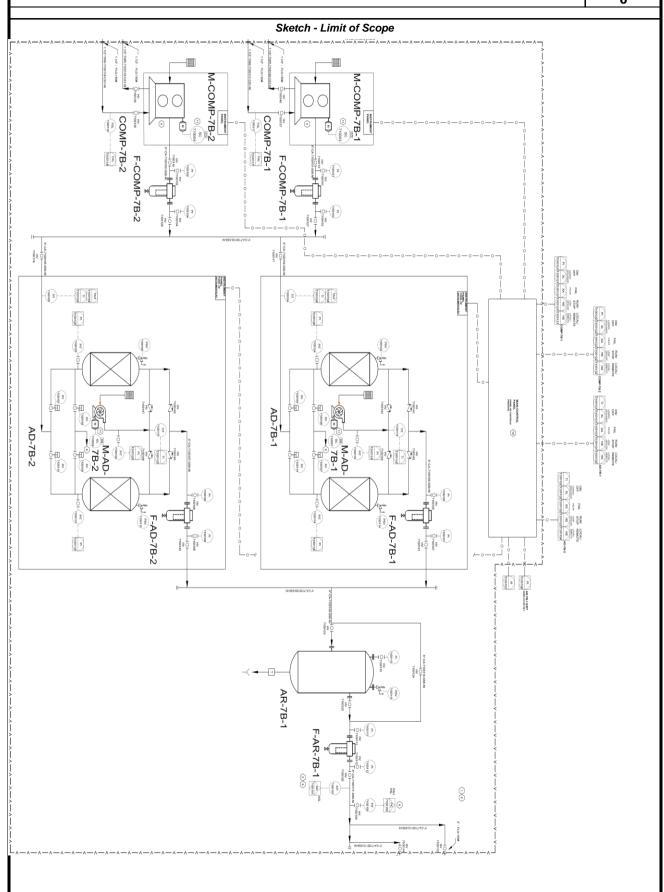


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TITLE SHEET: 5/6

COMPRESSED AIR - COMP-7B-1 / COMP-7B-2 // AD-7B-1 / AD-7B-2 // AR-7B-1

REV.:











Takeda | Hemobrás NUMBER: CLIENT NR: PRD-MEC-DSH-013 569-DB7B-MEC-712-001 TITLE 6/6 COMPRESSED AIR - COMP-7B-1 / COMP-7B-2 // AD-7B-1 / AD-7B-2 // AR-7B-1 Notes: 1- Vendor Shall complete all blank fields in this data sheet. 2- Supplier shall issue with the proposal the material standard (ASTM, ANSI, etc) used in the equipment fabrication, as well as the painting procedure. 3- The scope of supply includes the instruments and wiring to junction box and/or local panel. 4- The local control panel is the battery limit of the package. 5- All instruments and components of the automation shall follow TAKEDA/BAXALTA's vendor list. 6- The control system shall be supplied with communication protocol in Ethernet and compatible with the Wonderware platform (BMS System) and manager all automation of the compressed air generation system. 7- The supplier shall provide the following documents: Instrument List, I/O List, Installation Bill of Materials, Instrumentation Hook-up, Logic Diagram, Cable List, Instrumentation Plans, Instrument Data Sheets, Control Valves and Pressure Relief Valves. 8- Available electrical power 380V - 3ph - 60 Hz. Control voltage shall be 220 V generated internally in the scope of the package. 9- Compliance with NR-10 is required. 10- Compliance with NR-12 is required. 11- Compliance with NR-13 is required. 12- Reference document: PRD-MEC-TSP-004 (TECHNICAL SPECIFICATION - COMPRESSED AIR SYSTEMS) 13- Air classification 1.2.0, according to ISO 8573-1: 2010. 14- The vessel shall have an internal and external painting. Internal only primer coat in epoxy, minimum thk of 100 μm. External shall have primer and finish top coat in epoxy with a thickness of 100 - 280 µm