



	
DOC NUMBER: 569-DB7A-MEC-725-001		CLIENT NUMBER: PRD-MEC-DSH-002	
CLIENT: TAKEDA			
PROJECT: BURITI EPCVM PROJECT			

DATA SHEET
WATER COLLED CHILLER
CH-7A-1 / CH-7A-2 / CH-7A-3

0	30/JUL/2021	ISSUED FOR CONSTRUCTION	ASO	LFF	RSP
B	27/APR/2021	90% DD ISSUE	ASO	LFF	RSP
A	08/FEB/2021	30% DD ISSUE	ASO	LFF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV

 		 	
NUMBER: 569-DB7A-MEC-725-001		CLIENT NR: PRD-MEC-DSH-002	
TITLE WATER COOLED CHILLER - CH-7A-1 / CH-7A-2 / CH-7A-3			SHEET: 2/5 REV.: 0

1. REVISION HISTORY

Rev	Reason For Change
A	ORIGINAL ISSUE
B	PAGE 03, line 6: changed capacity from 400 Tons to 530 Tons
	PAGE 03, line 12: changed refrigerant from R-134A to R-514A
	PAGE 03, line 14: changed capacity from 400 Tons to 530 Tons
	PAGE 03, line 25: changed flow rate from 54.4 lps to 63.3 lps
	PAGE 03, line 31: informed number of passes
	PAGE 04, line 06: changed flow rate from 72.5 lps to 101.4 lps
	PAGE 04, line 12: informed number of passes
	PAGE 04, line 21: changed compressor type from screw to centrifugal
	PAGE 05, line 13: excluded from the scope chilled and condensation water flow switches and automatic block valve. Changed protocol communication description.
	PAGE 05, line 28: included note 6
0	ISSUED FOR CONSTRUCTION

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CLIENT NR: PRD-MEC-DSH-002

TITLE

WATER COOLED CHILLER - CH-7A-1 / CH-7A-2 / CH-7A-3

SHEET:

3/5

REV.:

0

CLIENT: Takeda / Baxalta

SERVICE.: Air Conditioning Units (7A and 7B Bldg)

LOCATION: Goiana - PE

EQUIPMENT TAG: CH-7A-1 / CH-7A-2 / CH-7A-3

PLANT: Hemobrás' site

QTY.: 3 units

APPLICABLE TO:



Proposal



Purchase



As Built

PROCESS CONDITIONS:

1	GENERAL		
2		Required	To Be Completed By Vendor
3	MANUFACTURER:	(Note 1)	
4	MODEL:	(Note 1)	
5	UNITS:	3	
6	UNIT EFFECTIVE CAPACITY (kW):	1,865 (530 tons)	
7	REFRIGERANT CHARGE	(Note 1)	
8	SERVICE RATING:	1,0	
9	PERFORMANCE OF ONE UNIT		
10		Required	To Be Completed By Vendor
11	PROCESS FLUID:	Water	
12	REFRIGERANT:	R-514A (Note 5)	
13	ELEVATION ABOVE SEA LEVEL (m):	13	
14	CAPACITY @ RATED TEMPERATURE (kW)	1,865 (530 tons)	
15	COEFFICIENT OF PERF @ RATED TEMP (kW/kW):	(Note 1)	
16	IPLV (kW/kW):	(Note 1)	
17	UNIT POWER DEMAND (TOTAL - kW):	(Note 1)	
18	UNIT POWER DEMAND (COMPRESSORS - kW):	(Note 1)	
19	OVERALL SOUND PRESSURE @ 1M (dBA):	<85	
20	EVAPORATOR		
21		Required	To Be Completed By Vendor
22	TYPE	Shell & Tube	
23	ENTERING TEMPERATURE (°C):	12.5	
24	LEAVING TEMPERATURE (°C):	5.5	
25	NOMINAL FLOW RATE (l/s):	63.3 (228 m³/h)	
26	MIN/MAX FLOW RATE (l/s):	(Note 1) / (Note 1)	
27	PRESSURE DROP (kPa g):	<65	
28	FOULING FACTOR (m².K/kW):	(Note 1)	
29	SHELL MATERIAL / TUBE MATERIAL:	Carbon Steel / Copper	
30	CONNECTION SIZE / TYPE:	(Note 1) / Flanged B16.5	
31	NUMBER OF EVAPORATOR PASSES:	3	

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WATER COOLED CHILLER - CH-7A-1 / CH-7A-2 / CH-7A-3

SHEET:

4/5

REV.:

0

CLIENT: Takeda / Baxalta

SERVICE.: Air Conditioning Units (7A and 7B Blds)

LOCATION: Goiana - PE

EQUIPMENT TAG: CH-7A-1 / CH-7A-2 / CH-7A-1

PLANT: Hemobrás' site

QTY.: 3 units

APPLICABLE TO: ☒ Proposal ☐ Purchase ☐ As Built

1	CONDENSER	
2		Required
3	TYPE	Shell & Tube
4	ENTERING TEMPERATURE (°C):	31.5
5	LEAVING TEMPERATURE (°C):	37.0
6	NOMINAL FLOW RATE (l/s):	101.4 (365 m³/h)
7	MIN/MAX FLOW RATE (l/s):	(Note 1) / (Note 1)
8	PRESSURE DROP (kPa g):	<65
9	FOULING FACTOR (m².K/kW):	(Note 1)
10	SHELL MATERIAL / TUBE MATERIAL:	Carbon Steel / Copper
11	CONNECTION SIZE / TYPE:	(Note 1) / Flanged B16.5
12	NUMBER OF CONDENSER PASSES:	2
13	ELECTRICAL	
14	UNIT VOLTAGE (V / F / PH):	380 / 60 / 3
15	NORMAL OPERATING CURRENT (A):	(Note 1)
16	MAXIMUM OPERATING CURRENT (A):	(Note 1)
17	STARTING CURRENT (A):	(Note 1)
18	STARTING TYPE:	VFD (Note 6)
19	CONSTRUCTION	
20	NO. REFRIGERATION CIRCUITS PER UNIT:	(Note 1)
21	COMPRESSOR TYPE:	Centrifugal
22	TEST PRESSURE (KPa g):	(Note 1)
23	UNIT LENGTH (mm):	(Note 1)
24	UNIT WIDTH (mm):	(Note 1)
25	UNIT HEIGHT (mm):	(Note 1)
26	EMPTY MASS WEIGHT (kg):	(Note 1)
27	OPERATING MASS WEIGHT (kg):	(Note 1)
28	SHIPPING WEIGHT (kg):	(Note 1)
29	CODE REQUIREMENTS:	ASME / AHRI
30		
31		

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SHEET:

5/5

REV.:

0

CLIENT: Takeda / Baxalta

SERVICE.: Air Conditioning Units (7A and 7B Bldg)

LOCATION: Goiana - PE

EQUIPMENT TAG: CH-7A-1 / CH-7A-2 / CH-7A-1

PLANT: Hemobrás' site

QTY.: 3 units

APPLICABLE TO:



Proposal



Purchase



As Built

1	ADDITIONAL REQUIREMENTS	
2	MINIMUM CLEARANCES FOR MAINTENANCE	
3	FRONT (mm):	(Note 1)
4	BACK (mm):	(Note 1)
5	RIGHT SIDE - LOOKING TO COMPRESSOR (mm):	(Note 1)
6	LEFT SIDE - LOOKING TO COMPRESSOR (mm):	(Note 1)
7	SOUND PRESSURE BETWEEN UNITS (dBA):	(Note 1)
8	PAINT SPEC.: PRIMER (µm):	(Note 1)
9	1st COAT (µm):	(Note 1)
10	2nd COAT (µm):	(Note 1)
11	TOP COAT (µm):	(Note 1)
12	TOTAL PAINT THICKNESS (µm):	(Note 1)
13	ACCESSORIES (Note 4)	
14	<input checked="" type="checkbox"/> ELECTRICAL PANEL	<input checked="" type="checkbox"/> PLC (PROTOCOL IN ETHERNET AND
15	<input type="checkbox"/> CHILLED WATER FLOW SWITCH	COMPATIBLE WITH THE WONDERWARE
16	<input type="checkbox"/> CONDENSATION WATER FLOW SWITCH	PLATFORM (BMS SYSTEM)).
17	<input checked="" type="checkbox"/> ANTI-VIBRATION DEVICE	
18	<input type="checkbox"/> AUTOMATIC BLOCK VALVE	
19	<input checked="" type="checkbox"/> ANTI-FREEZE PROTECTION	
20	GENERAL NOTES	
21	1) TO BE CONFIRMED BY SUPPLIER	
22	2) COP: COEFFICIENT OF PERFORMANCE	
23	3) IPLV: PARTIAL LOAD EFFICIENCY CALCULATED TO ARI STANDARD 550 / 590 EQUATION.	
24	4) FOR ADDITIONAL INFORMATION AND SPECIFICATIONS SEE PRD-MEC-TSP-002 - TECHNICAL	
25	SPECIFICATION - CHILLERS	
26	5) OTHER REFRIGERANT SHOULD BE PROPOSED, BUT MUST BE HFC TYPE, FREE CHLORINE	
27	IN THE COMPOSITION.	
28	6) FREQUENCY INVERTER CONSIDERED ONLY FOR STARTING, NOT FOR CONTROL.	
29		
30		
31		