



	
DOC NUMBER: 569-DB7A-MEC-725-002		CLIENT NUMBER: PRD-MEC-DSH-003	
CLIENT: TAKEDA			
PROJECT: BURITI EPCVM PROJECT			

DATA SHEET
 WATER COLLED CHILLER
 PCH-7A-1 / PCH-7A-2

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-725-002		CLIENT NR: PRD-MEC-DSH-003	
TITLE WATER COOLED CHILLER - PCH-7A-1 / PCH-7A-2			SHEET: 2/5 REV.: 0

1. REVISION HISTORY

Rev	Reason For Change
A	ORIGINAL ISSUE
B	PAGE 03, line 6: changed capacity from 100 Tons to 150 Tons
	PAGE 03, line 14: changed capacity from 100 Tons to 150 Tons
	PAGE 03, line 17: unit power demand by vendor
	PAGE 03, line 23: changed temperature from 15.0°C to 11.0°C
	PAGE 03, line 25: changed flow rate from 16.4 lps to 21.1 lps
	PAGE 03, line 31: informed number of passes
	PAGE 04, line 06: changed flow rate from 19.7 lps to 29.2 lps
	PAGE 04, line 12: informed number of passes
	PAGE 05, line 13: excluded from the scope chilled and condensation water flow switches and block valve. Changed protocol communication description
	PAGE 05, line 28: adjusted note 6
0	PAGE 05, line 30: included note 7
	ISSUED FOR CONSTRUCTION
	PAGE 03, line 23: changed temperature from 11.0°C to 9.5°C
	PAGE 03, line 25: changed flow rate from 21.1 lps to 29.2 lps
	PAGE 05, line 28: adjusted note 6

NUMBER: 569-DB7A-MEC-725-002

CLIENT NR: PRD-MEC-DSH-003

TITLE

WATER COOLED CHILLER - PCH-7A-1 / PCH-7A-2

SHEET:

3/5

REV.:

0

CLIENT: PA (Takeda / Baxalta)

SERVICE.: Process (7A Bld.)

LOCATION: Goiana - PE

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

PLANT: Hemobrás' site

QTY.: 2 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:	2	
6	UNIT EFFECTIVE CAPACITY (kW):	528 (150 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 (Note 6)	
12	REFRIGERANT:	HFC-134a (Note 5)	
13	ELEVATION ABOVE SEA LEVEL (m):	13	
14	CAPACITY @ RATED TEMPERATURE (kW)	528 (150 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 (Note 6)		
21		Required	To Be Completed By Vendor
22	TYPE	Shell & Tube	
23	ENTERING TEMPERATURE (°C):	9.5	
24	LEAVING TEMPERATURE (°C):	5.0	
25	NOMINAL FLOW RATE (l/s):	29.2 (105 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:	2	

 		 	
NUMBER: 569-DB7A-MEC-725-002		CLIENT NR: PRD-MEC-DSH-003	
TITLE WATER COOLED CHILLER - PCH-7A-1 / PCH-7A-2			SHEET: 4/5 REV.: 0
CLIENT: PA (Takeda / Baxalta)		SERVICE.: Process (7A Bld.)	
LOCATION: Goiana - PE		EQUIPMENT TAG: PCH-7A-1 / PCH-7A-2	
PLANT: Hemobrás' site		QTY.: 2 units	
APPLICABLE TO: <input checked="" type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As Built			
1	CONDENSER		
2		Required	To Be Completed By Vendor
3	TYPE	Shell & Tube	
4	ENTERING TEMPERATURE (°C):	31.5	
5	LEAVING TEMPERATURE (°C):	37.0	
6	NOMINAL FLOW RATE (l/s):	29.2 (105 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	
19	CONSTRUCTION		
20	NO. REFRIGERATION CIRCUITS PER UNIT:	(Note 1)	
21	COMPRESSOR TYPE:	Screw	
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			

NUMBER: **569-DB7A-MEC-725-002**

CLIENT NR: **PRD-MEC-DSH-003**

TITLE

WATER COOLED CHILLER - PCH-7A-1 / PCH-7A-2

SHEET:

5/5

REV.:

0
CLIENT: **PA** (Takeda / Baxalta)

SERVICE.: Process (7A Bld.)

LOCATION: Goiana - PE

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

PLANT: Hemobrás' site

QTY.: 2 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) THE SELECTED EQUIPMENT SHALL BE ABLE TO WORK WITH PROPYLENE GLYCOL SOLUTION AT 1°C.	
29	THE DELTA T SHOULD BE 4.5°C, WITH A RETURN OF 5.5°C.	
30	7) FREQUENCY INVERTER CONSIDERED ONLY FOR STARTING, NOT FOR CONTROL.	
31		