



	
DOC NUMBER: <b>569-DB7B-MEC-731-002</b>		CLIENT NUMBER: <b>PRD-MEC-DSH-022</b>	
CLIENT: <b>TAKEDA</b>			
PROJECT: <b>BURITI EPCVM PROJECT</b>			

DATA SHEET  
EXPANSION TANK  
TK-7B-1

0	30/JUL/2021	ISSUED FOR CONSTRUCTION	ASO	LFF	RSP
B	28/JUN/2021	90% DD ISSUE	ASO	LFF	RSP
A	12/FEB/2021	30% DD ISSUE	ASO	LFF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV

 		 	
NUMBER: <b>569-DB7B-MEC-731-002</b>		CLIENT NR <b>PRD-MEC-DSH-022</b>	
TITLE <b>EXPANSION TANK - TK-7B-1</b>			SHEET: <b>2/4</b> REV.: <b>0</b>

## 1. REVISION HISTORY

Rev	Reason For Change
A	ORIGINAL ISSUE
B	General review: Changed equipment type from atmospheric to pressurized
0	ISSUED FOR CONSTRUCTION

NUMBER: 569-DB7B-MEC-731-002

CLIENT NR PRD-MEC-DSH-022

TITLE

SHEET: 3/4

EXPANSION TANK - TK-7B-1

REV.: 0

1	GENERAL			
1.1	SERVICE:	CHILLED WATER - PROCESS (LOOP 2)	ITEM Nº:	TK-7B-1
1.2	LOCAL:	DRUG SUBSTANCE BUILDING (7B)	QUANTITY:	1
1.3	MANUFACTURER:	(Note 1)	MANUFACTURING STANDARD:	-
1.4	APPLICABLE:	PROPOSAL		
2	OPERATION CONDITIONS (Note 2)			
2.1	SYSTEM VOLUME (m <sup>3</sup> ):	5.8	RETURN TEMPERATURE (°C):	10.7
2.2	INSTALLED POWER (TON):	258.6	MINIMUM TEMPERATURE (°C)	4.0
2.3	STATIC HEIGHT (m):	1.9	MAXIMUM TEMPERATURE (°C):	25.0
2.4	SUPPLY TEMPERATURE (°C):	6.0	SAFETY VALVE RESPONDE PRESSURE (barg):	3.0
3	CONSTRUCTION			
3.1	TYPE OF TANK:	PRESSURIZED		
3.2	SYSTEM TOTAL EXPANSION VOLUME (m³):	0.055		
3.3	VESSEL NET VOLUME (m³):	note 1		
3.4	VESSEL NOMINAL VOLUME (m³):	0.14		
3.5	VESSEL DESIGN PRESSURE (barg):	3.0		
3.6	VESSEL DESIGN TEMPERATURE (°C):	0.0 min / 40.0 max.		
3.7	VESSEL CONNECTIONS (DN / CLASS):	note 1 / 150# ASME/AISI B16.5		
3.8	SUPPORT:	LEGS		
4	MATERIAL			
4.1	BODY:	CARBON STEEL		
4.2	BAG / MEMBRANE:	AIRPROOF BUTYL (note 3)		
4.3	SAFETY VALVE:	BRASS		
5	MATERIALS INSPECTION			
5.1	IN THE EQUIPMENT MANUFACTURER:	NO		
5.2	IN THE CLIENT'S SITE:	VISUAL		
6	TANK FEATURES			
6.1	EMPTY (kg):	note 1	FULL OF WATER (kg):	note 1
6.2	DIAMETER (m):	note 1	HEIGHT(kg):	note 1
7	ACCESSORIES			
7.1	<input checked="" type="checkbox"/> SAFETY VALVE			
7.2	<input checked="" type="checkbox"/> MANUAL VALVES			
7.3	<input checked="" type="checkbox"/> WATER MAKE-UP DEVICE			

Notes:

1) To be confirmed by supplier.

2) The manufacturer will be responsible for the tank sizing.

3) The Tank shall be able of working with a chilled water supply temperature of 4°C and return of 8.7°C

REV.:	0
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