


	
DOC NUMBER: <b>569-DB7A-MEC-731-002</b>		CLIENT NUMBER: <b>PRD-MEC-DSH-011</b>	
CLIENT: <b>TAKEDA</b>			
PROJECT: <b>BURITI EPCVM PROJECT</b>			

DATA SHEET  
EXPANSION TANK  
TK-7A-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-DB7A-MEC-731-002</b>		CLIENT NR <b>PRD-MEC-DSH-011</b>	
TITLE <b>EXPANSION TANK - TK-7A-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-DB7A-MEC-731-002

CLIENT NR PRD-MEC-DSH-011

TITLE

SHEET: 3/4

EXPANSION TANK - TK-7A-1

REV.: 0

1	GENERAL			
1.1	SERVICE:	CHILLED WATER (HVAC)	ITEM Nº:	TK-7A-1
1.2	LOCAL:	DRUG PRODUCT BUILDING (7A)	QUANTITY:	1
1.3	MANUFACTURER:	(Note 1)	MANUFACTURING STANDARD:	-
1.4	APPLICABLE:	PROPOSAL		
2	OPERATION CONDITIONS			
2.1	SYSTEM VOLUME (m <sup>3</sup> ):	30.1	RETURN TEMPERATURE (°C):	12.5
2.2	INSTALLED POWER (TON):	1,060	MINIMUM TEMPERATURE (°C)	4.5
2.3	STATIC HEIGHT (m):	4.4	MAXIMUM TEMPERATURE (°C):	25.0
2.4	SUPPLY TEMPERATURE (°C):	5.5	SAFETY VALVE RESPONDE PRESSURE (barg):	3.0
3	CONSTRUCTION			
3.1	TYPE OF TANK:	PRESSURIZED		
3.2	SYSTEM TOTAL EXPANSION VOLUME (m³):	0.11		
3.3	VESSEL NET VOLUME (m³):	note 1		
3.4	VESSEL NOMINAL VOLUME (m³):	0.5		
3.5	VESSEL DESIGN PRESSURE (barg):	6.0		
3.6	VESSEL DESIGN TEMPERATURE (°C):	4.0 min / 40.0 max.		
3.7	VESSEL CONNECTIONS (DN / CLASS):	note 1 / 150# ASME/AISI B16.5		
3.8	SUPPORT:	LEGS		
4.1	MATERIAL			
4.2	BODY:	CARBON STEEL		
4.3	BAG / MEMBRANE:	AIRPROOF BUTYL		
5	SAFETY VALVE:	BRASS		
5.1	MATERIALS INSPECTION			
5.2	IN THE EQUIPMENT MANUFACTURER:	NO		
6	IN THE CLIENT'S SITE:	VISUAL		
6.1	TANK FEATURES			
6.2	EMPTY (kg):	note 1	FULL OF WATER (kg):	note 1
7	DIAMETER (m):	note 1	HEIGHT(kg):	note 1
7.1	ACCESSORIES			
7.2	<input checked="" type="checkbox"/> SAFETY VALVE			
7.3	<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.

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TITLE

SHEET:  
**4/4**

**EXPANSION TANK - TK-7A-1**

REV.:  
**0**

**BATTERY LIMITS**

