



DESIGN DATA				
DESIGN CODE		ASME BOILER & PRESSURE VESSEL SECTION VIII, DIV. 1, ED. 2017 + TEMA B		
		SHELL SIDE	TUBE SIDE	
DESIGN (INT./EXT.)	PRESSURE BAR	10	10	
	TEMPERATURE °C	150	100	
TEST	HYDROSTATIC BAR	13	13	
PRESSURE	PNEUMATIC BAR	NIL	NIL	
JOINT EFFICIENCY	SHELL	LW 0.85	0.85	
		CW 0.70	0.70	
	HEAD	LW 0.85	0.85	
		CW 0.70	0.70	
CORROSION ALLOWANCE MM		0	0	
FLUID NAME		CHILLED WATER	ALKALINE WATER	
RADIOGRAPHIC EXAMINATION		NIL	NIL	
LIQUID PENETRANT EXAMINATION		NIL	NIL	
PAD LEAK TEST		NIL	NIL	
POST WELD HEAT TREATMENT		EXEMPTED PER UHA-32		
IMPACT TEST		EXEMPTED PER UHA-51(d)		
MAWP BAR		10		
MDWT °C		0		
INSULATIONS MM		NIL		
SURFACE	S.S	NIL		
PREPARATION	C.S	STANDARD SHOP PRIMER		
HEATING SURFACES AREA M2		NIL	3.2	
VOLUME M3		0.47	0.16	
EMPTY WEIGHT KG		200		
FULL WATER WEIGHT KG		283.3		
LETHAL SERVICE		NO		
NOTE : - ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED - ALL BOLT HOLES TO STRADDLE PRINCIPAL AXIS - ALL FILLET WELD SIZE SHALL WITHIN TOLERANCE -0 & +3 - DIMENSION TOLERANCE AS PER QC MANUAL EXHIBIT 4.2 - LIFTING ANGLE MUST NOT LESS THAN 45° - ALL PIPES USED ARE WELDED PIPE, UNLESS OTHERWISE STATED				
APPROVAL :				

ITEM	DESCRIPTION	MATERIAL	INSTALL	SPARE	QUANTITY	REMARKS
5	EARTHING LUG	SA240-304	2	-	-	PLATE-40mm x 40mm x 5mm THK
4	PAD	SA240-316	2	-	-	PLATE - 200mm x 200mm x 5mm THK
3	WEB	SA240-304	2	-	-	PLATE - 154mm x 141mm x 6mm THK
2	RIB	SA240-304	2	-	-	PLATE - 138mm x 97mm x 6mm THK
1	BASE PLATE	SA240-304	2	-	-	PLATE-154mm x 150mm x 10mm THK

NOZZLE	QTY	SIZE	SCH/THK	FLANGE MATERIAL	TYPE OF FLANGE/RATING	SERVICE
N4	1	DN50	SCH.40S	SA182-F316	ASME B16.5 CL150 SORF	CHILLED WATER INLET
N3	1	DN50	SCH.40S	SA182-F316	ASME B16.5 CL150 SORF	CHILLED WATER OUTLET
N2	1	DN50	SCH.40S	SA182-F316	ASME B16.5 CL150 SORF	ALKALINE WATER INLET
N1	1	DN50	SCH.40S	SA182-F316	ASME B16.5 CL150 SORF	ALKALINE WATER OUTLET

