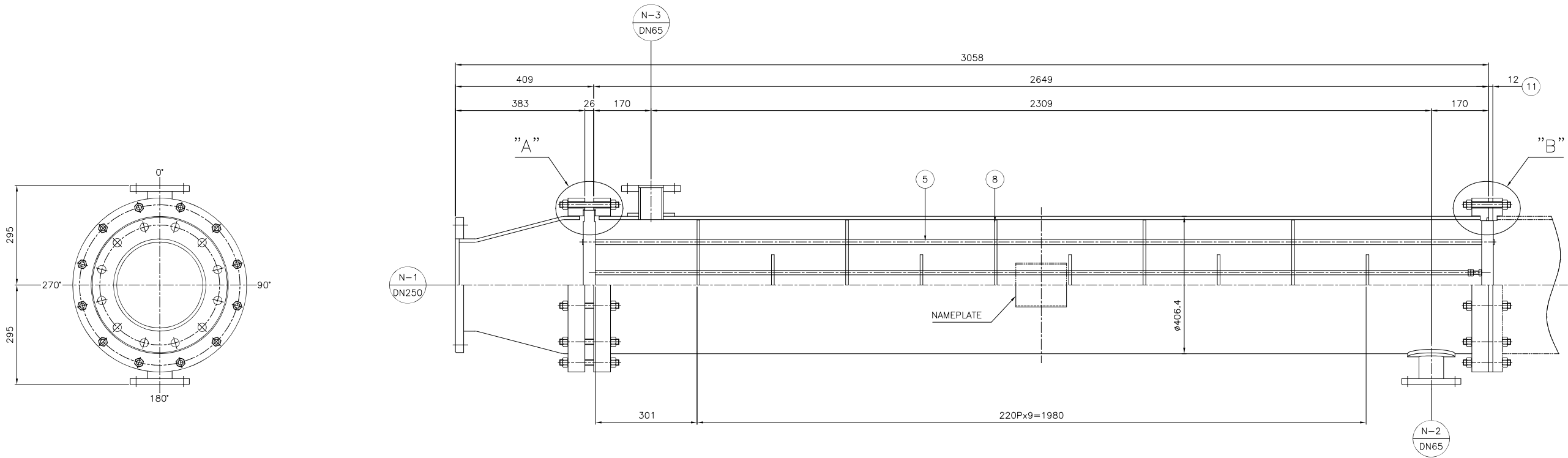


REV.	DESCRIPTION	Prepared		Reviewed & Approved	
△	FOR APPROVAL	2023.7.20	K.K.Y	2023.7.20	L.K.W



AFTER COOLER

DHA-1004356

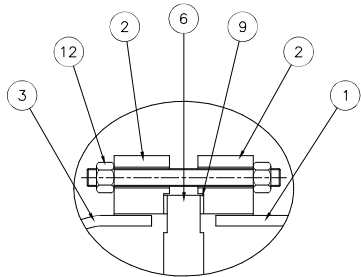
DESIGN DATA			
CODE OR REGULATION	ASME SEC.VIII DIV.1 2021 EDITION & KOSHA		
	SHELL SIDE	TUBE SIDE	
FLUID CIRCULATED	WATER	AIR	
INLET TEMP.	32 °C	146 °C	
OUTLET TEMP.	39 °C	40 °C	
INLET PRESS.	0.29 MPaG	0.7 MPaG	
DESIGN PRESS.	0.49 MPaG	0.971 MPaG	
DESIGN TEMP.	75 °C	200 °C	
HYDRO. TEST PRESS.	0.74 MPaG	1.456 MPaG	
LEAK. TEST PRESS.	0.49 MPaG	0.971 MPaG	
CORROSION ALLOWANCE	1.6 (C.S) mm	1.6 (C.S) mm	
JOINT EFFICIENCY(S/H)	1.0 / -	1.0 / -	
RADIOGRAPHY	NO	NO	
STRESS RELIEF	NO	NO	
P.W.H.T	NO	NO	
M.D.M.T	-10°C at 0.49 MPaG	-10°C at 0.971 MPaG	
M.A.W.P	0.49 MPaG at 75°C	0.971 MPaG at 200°C	
IMPACT TEST	NO		
NO. OF PASS	1	1	
VOLUME	0.182 m³	0.130 m³	
HEAT TRANSFER AREA	32.4 m²		
WEIGHT	BUNDLE 420 kg	UNIT 830 kg	

NOTE

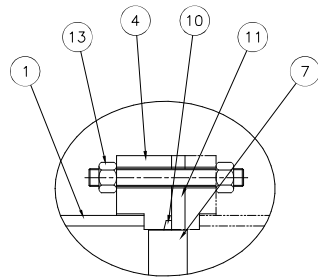
1. ALL DIMENSION IN MILLIMETER UNLESS OTHERWISE NOTED.
2. FABRICATION TOLERANCE SHALL BE IN ACCORDANCE WITH TEMA.
3. ALL FLANGE BOLT HOLES TO STRADDLE THE NATURAL VESSEL CENTERLINES UNLESS OTHERWISE SPECIFIED.
4. SPECIFIED FILLET WELD SIZE SHALL BE MINIMUM.
5. SADDLE & LUG WEAR PLATE SHALL BE PROVIDED WITH Ø6 WEEP HOLE. (WITH GREASE)
6. SHELL INSIDE WELD PARTS SHALL BE FLUSH GRINDING.

NOZZLE LIST

NO.	SIZE & RATING	MATERIAL		PIPE SCH.	Q'TY	TYPE	PART NAME
		FLANGE	PIPE				
N-1	KS 10K DN250 FLANGE	SA105	-	-	1	SO,FF	AIR INLET
N-2	KS 10K DN65 FLANGE	SA105	SA106-B	40	1	SO,FF	WATER INLET
N-3	KS 10K DN65 FLANGE	SA105	SA106-B	40	1	SO,FF	WATER OUTLET



DETAIL "A"



DETAIL "B"

13	STUD BOLT/ HEAVY HEX NUT	SA193-B7/SA194-2H	M16x140L	12/24	
12	STUD BOLT/ HEAVY HEX NUT	SA193-B7/SA194-2H	M16x175L	12/24	
11	END PLATE	SA516-70	t12	1	
10	O-RING	VITON	ø8.4	1	P375
9	GASKET	NON-ASBESTOS	t3	2	
8	BAFFLE PLATE	BAKELITE	t8	10	
7	REAR TUBESHEET	SA266-2	ø375xt36	1	
6	FRONT TUBESHEET	SA266-2	ø443xt36	1	
5	TUBE	SB111-C70600	ø15.88xt1.2	247	
4	FLANGE	SA105	ø515xt50	1	
3	REDUCER	SA234-WPB	DN400xDN250	1	STD'
2	FLANGE	SA105	ø515xt50	2	
1	SHELL	SA53-B	DN400xSTD'	1	ERW
No.	Description	Material	Size	Q'ty	Remarks
Project 광) FeMn 설비					
Title AFTER COOLER ITEM NO. : FM 841C01-03 GENERAL ASSEMBLY					
Customer POSCO					
Manufacturer  DAEHEUNG COOLER CO., LTD. OIL COOLER & HEAT EXCHANGER					
Scale -	Unit mm	Ref. No.			
W/O No.	-	Serial No. 2307-4356-01			
		DWG. No. DHA-1004356			