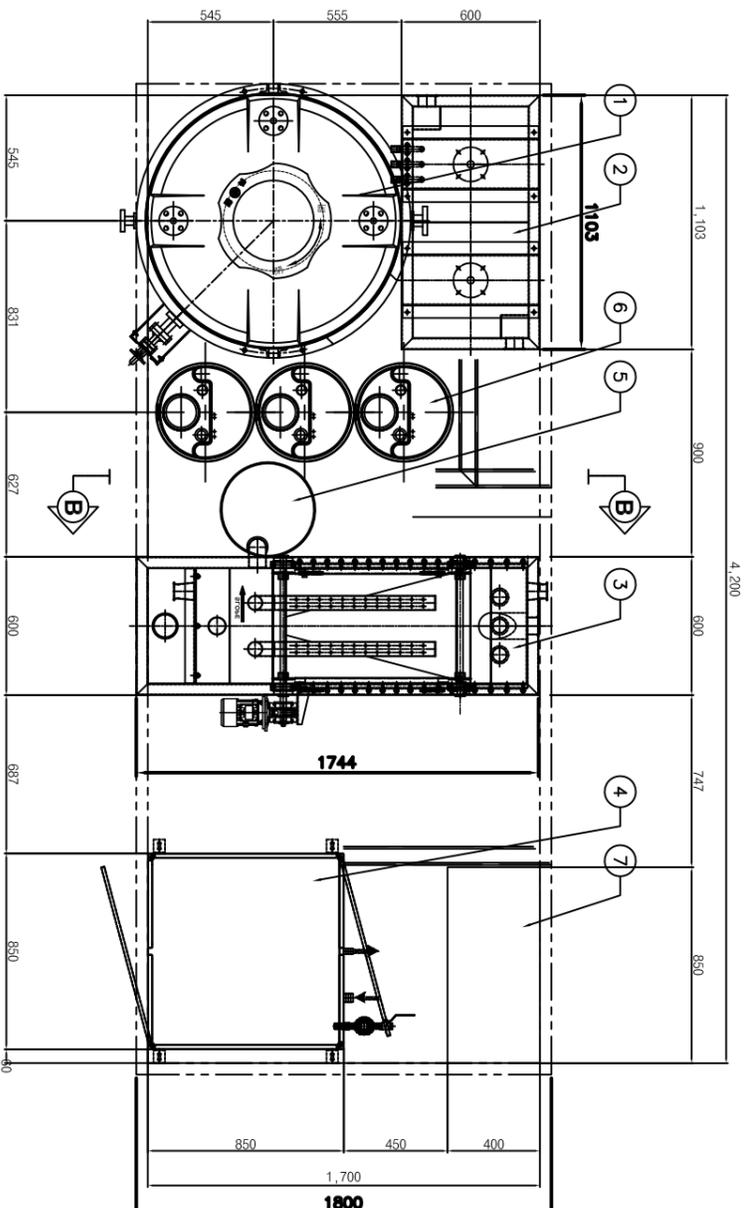


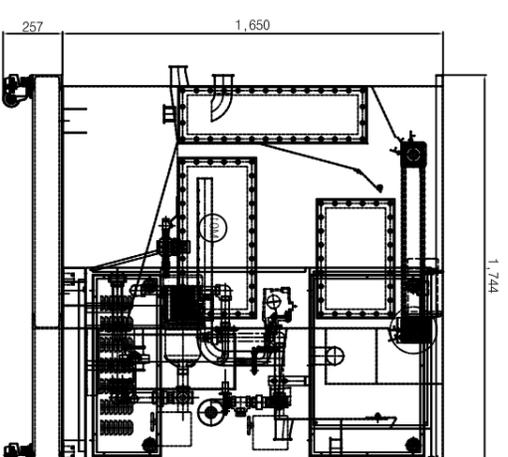
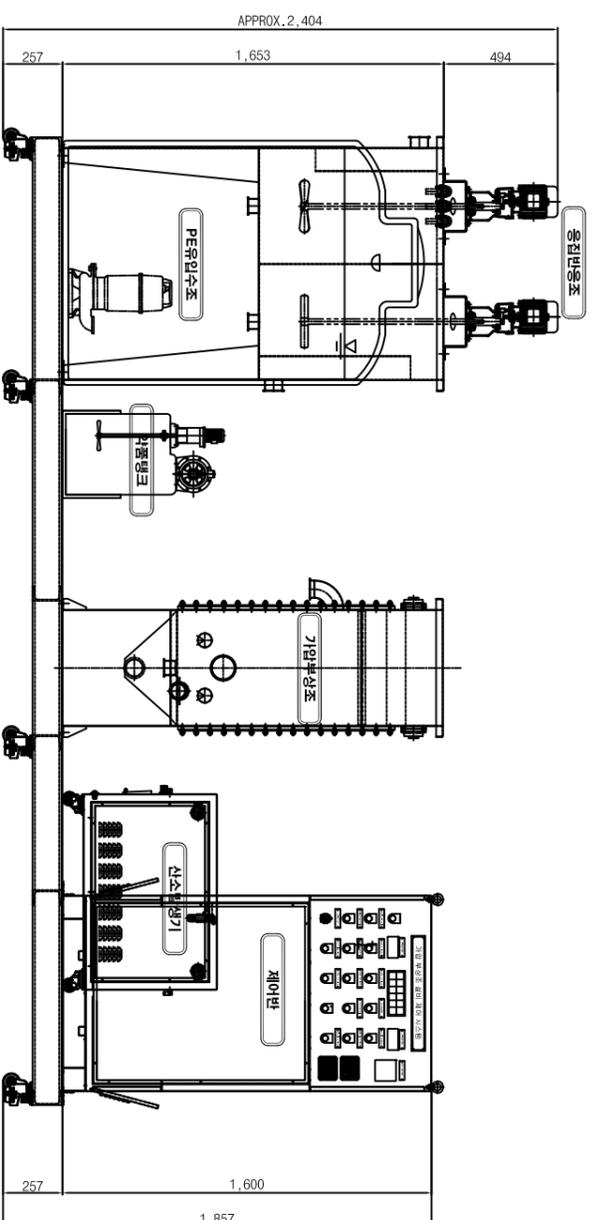
MNBG DAF SYSTEM(기계배치도)

평면도



● 평면도

● "B-B" 단면도



설비리스트

구분	명칭	사양	비고
1	PE유입수조	1000L x1.06m x1.54mH	
2	응집반응조	0.6mW x1.1mL x1.70mH	
3	기압부상조	0.6mW x1.74mL x1.65mH	
4	제어반 / 용해기	0.85mW x0.85mL x1.85mH	
5	슬러지 저장탱크	0.4mD x0.8mH	
6	약품탱크	0.39mD x0.59mH	
7	산소발생기	0.35mW x0.85mL x0.67mH	

REV.	DATE	DESCRIPTION	DGN	CHK	APP	APP.

PROJECT TITLE: 미세기포를 이용한 폐수처리 실험장치

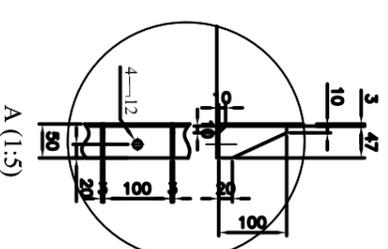
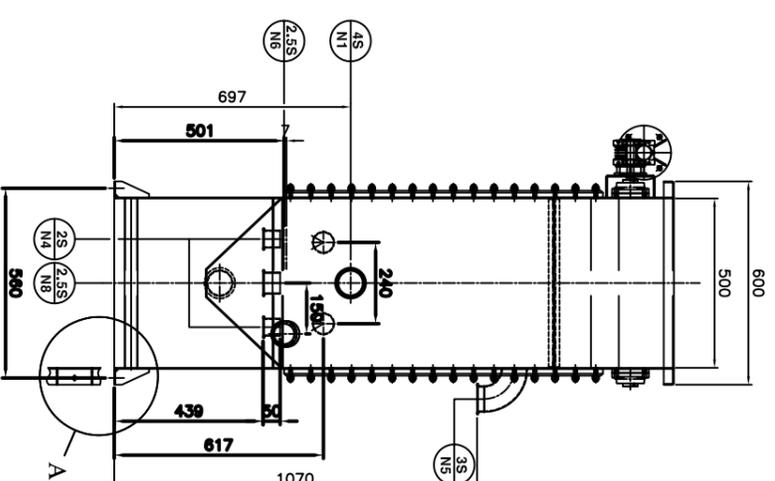
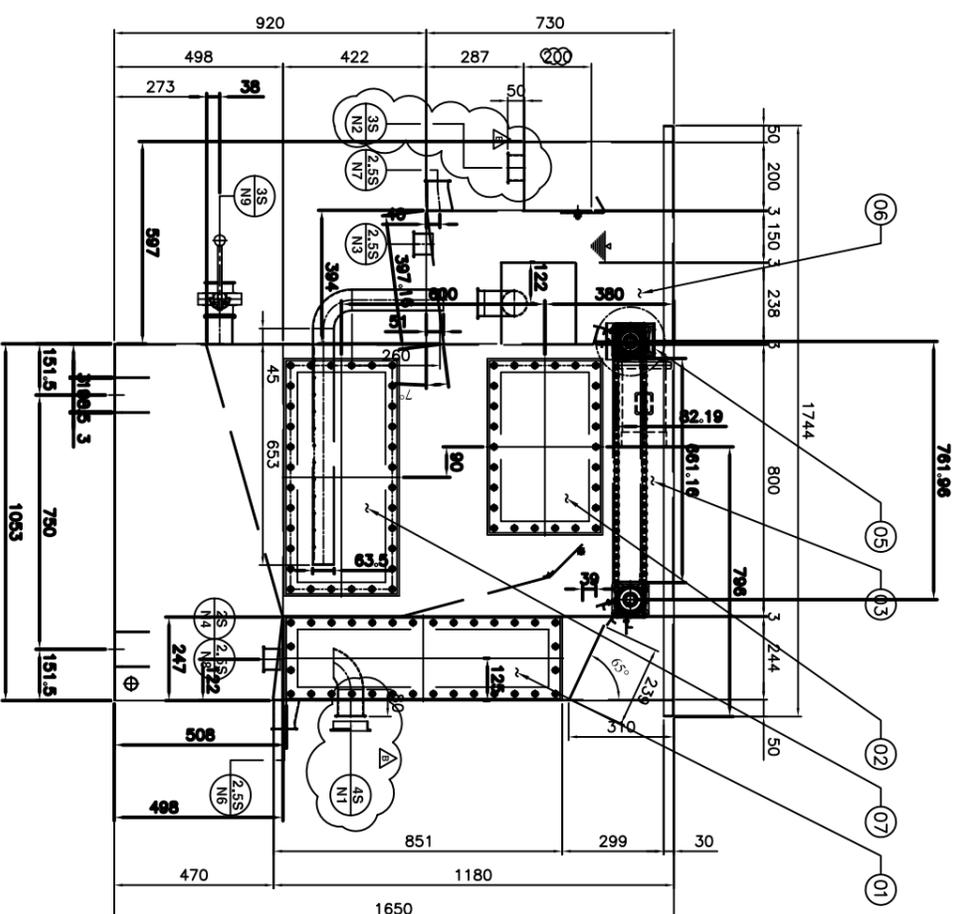
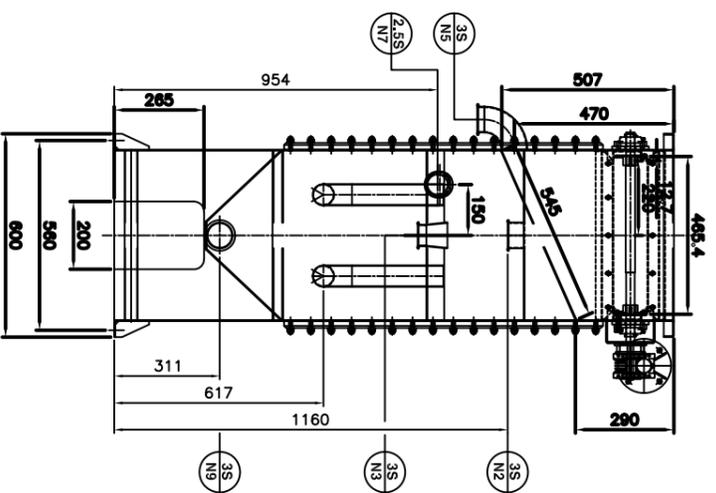
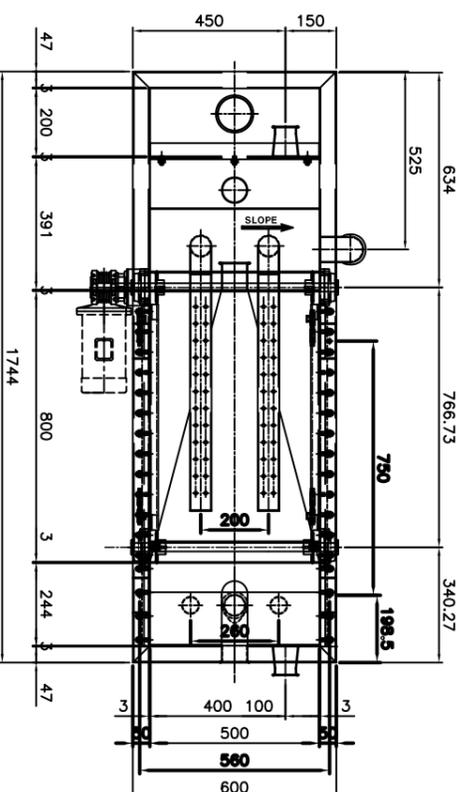
MNBG-DAF SYSTEM

기계 배치도

KIMM 한국기계연구원

SPONSOR	KIMM 한국기계연구원
SCALE	PROJLND
1/15	201512
DRAWING NO.	M-002
SHT. NO.	REV.
12	0
시(0415294m/㎡)	

MNBG DAF SYSTEM(기압부상조)



Access. No.	Pos.	Qty.	Description	Dimension	Material	Remark
-	01. 2	1	Acryl Sheet	820*250*15.0T	ACRYL	
-	02. 2	1	Acryl Sheet	520*340*15.0T	ACRYL	
-	03. 1	1	Body plate	3.0T	ST3304	58 LITTER
-	04. 3	3	Effluent Barrel	φ400*800H	ST3304	MTM50
-	05. 1	1	Skimmer ASS'Y	0.2KW*220V*φ371/40	ACRYL	TOP COVER
-	06. 2	2	Polycarbonate Sheet	900*1000*10.0T	ACRYL	
-	07. 2	2	Acryl Sheet	700*340*15.0T	ACRYL	
-	08. 180	180	BOLT/NUIT/SW/PW	M10x35	ST3304	
-	09. 4	4	BOLT/NUIT/SW/PW	M10x35	ST3304	

NOZZLE SCHEDULE

No.	Size	Qty.	Description	Type	Rating	Material	Remark
N1	3S	1	INLET	SOCKET	KS 10K	ST3304	W/H CAMLOCK
N2	3S	1	OUTLET	SOCKET	KS 10K	ST3304	W/H CAMLOCK
N3	2SS	1	CIRCULATION OUTLET	FERRULE	KS 10K	ST3304	
N4	2S	2	CIRCULATION INLET	FERRULE	KS 10K	ST3304	
N5	3S	1	SLUDGE OUTLET	FERRULE	KS 10K	ST3304	W/H CAMLOCK
N6	2SS	1	INLET DRAIN	FERRULE	KS 10K	ST3304	W/H BLIND
N7	2SS	1	CIRCULATION DRAIN	FERRULE	KS 10K	ST3304	W/H BLIND
N8	2SS	1	SPARE	FERRULE	KS 10K	ST3304	W/H BLIND
N9	3S	1	OUT DRAIN	FERRULE	KS 10K	ST3304	W/H VALVE

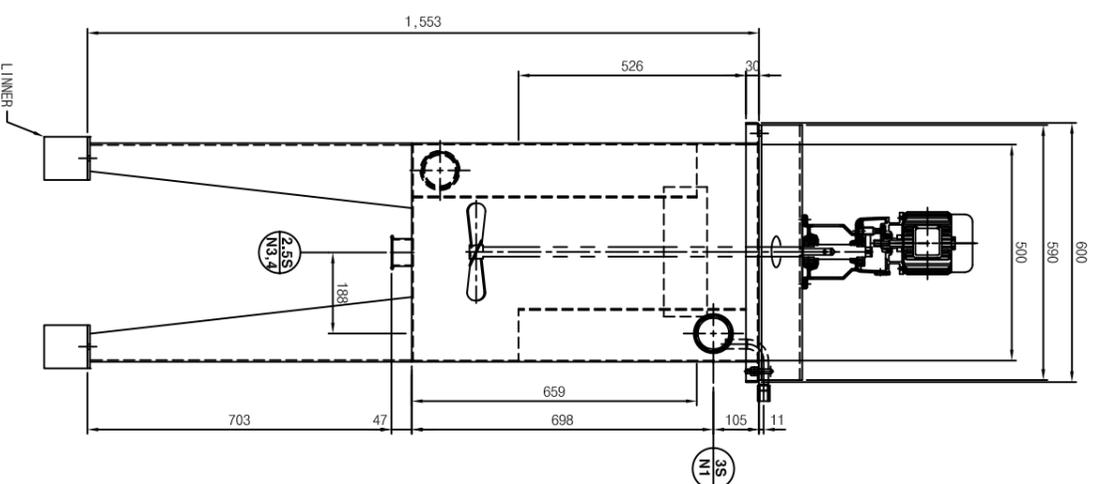
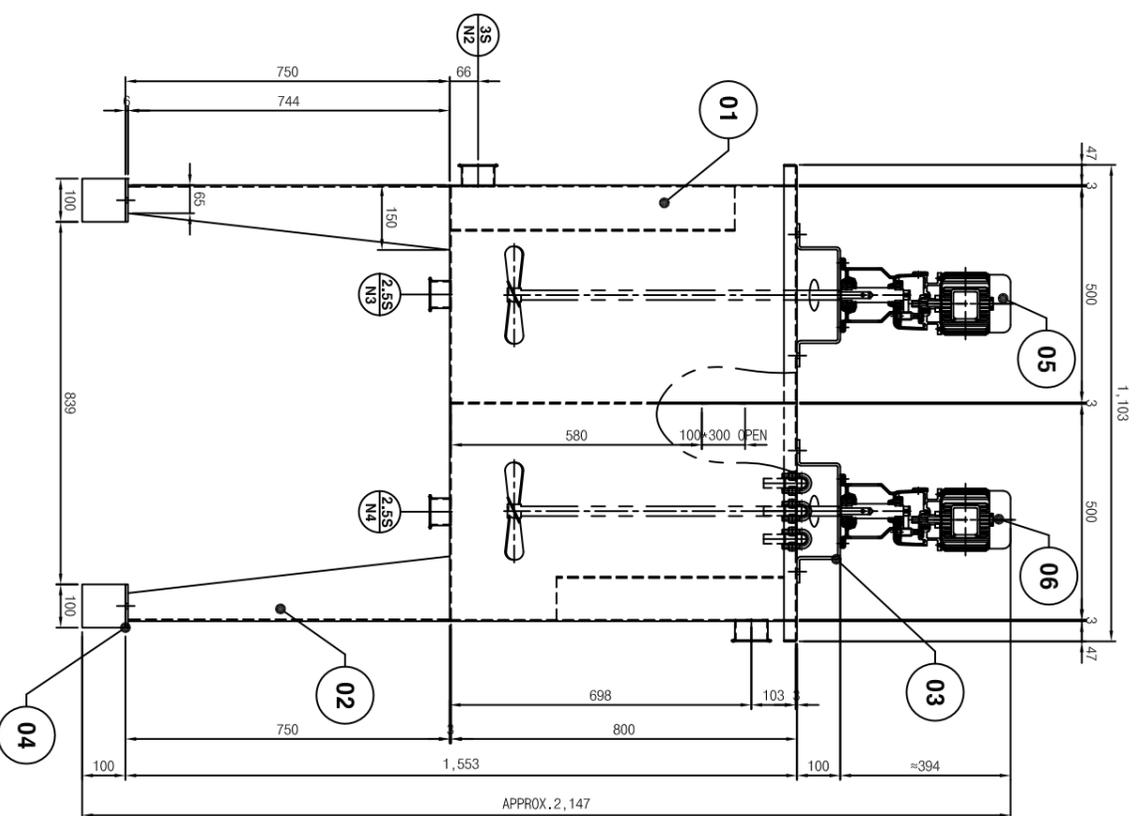
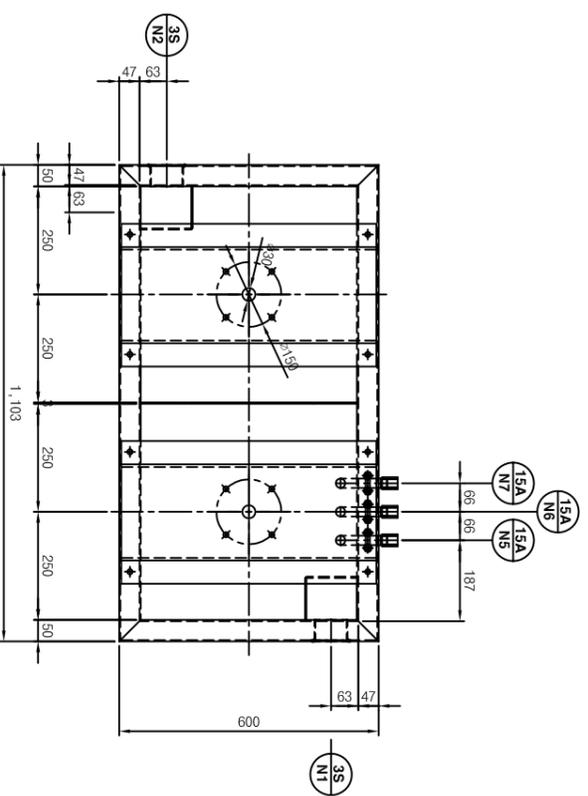
REV.	DATE	DESCRIPTION	DGN	CHK	APP	APP.

TITLE
MNBG-DAF SYSTEM
 기압부상조

SPONSOR
KIMM 한국기계연구원

SCALE	PROJ.NO.	DRAWING NO.	SHT.NO.	REV.
1/15	201512	M-003	0	

MNBG DAF SYSTEM(응집반응조)



Accessories No.	Pack. Qty.	Description	Dimension	Material	Remark
01.	1	BODY	PL 31	STS304	
02.	4	SUPPORT LEG	PL 41	STS304	
03.	2	AGITATOR BRACKET	PL 61	STS304	
04.	4	BASE PLATE	PL 61	STS304	
05.	1	AGITATOR(양축)	0.4kW*220V* 3~180PRM	TMR-005-180	
06.	1	AGITATOR(양축)	0.4kW*220V* 3~60PRM	TMR-005-60	

No.	Size	Description	Connection	Material	Remark
N1	3S	INLET	Socket HS 10K	STS304	
N2	3S	OUTLET	Socket HS 10K	STS304	
N3	2.5S	UPAIN	FERULE HS 10K	STS304	
N4	2.5S	OPEN	FERULE HS 10K	STS304	
N5	15A	양축#1 INLET	Socket HS 10K	STS304	
N6	15A	양축#2 INLET	Socket HS 10K	STS304	
N7	15A	양축#3 INLET	Socket HS 10K	STS304	

REV.	DATE	DESCRIPTION	DGN	CHK	APP	APP.
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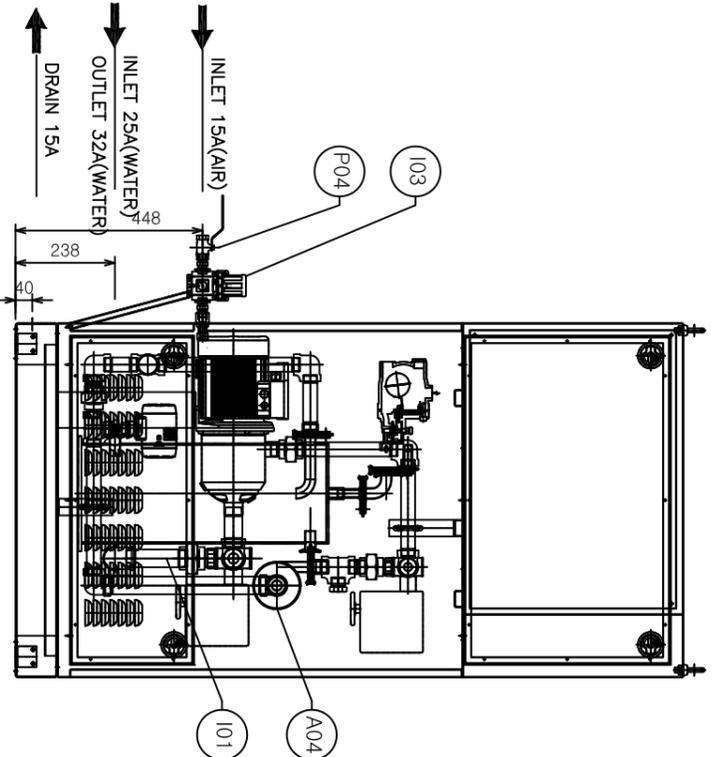
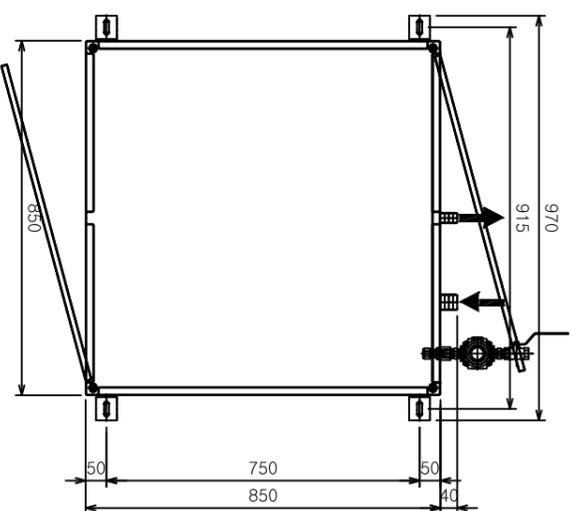
PROJECT TITLE: 미세기포를 이용한 폐수처리 실험장치

TITLE: MNBG-DAF SYSTEM

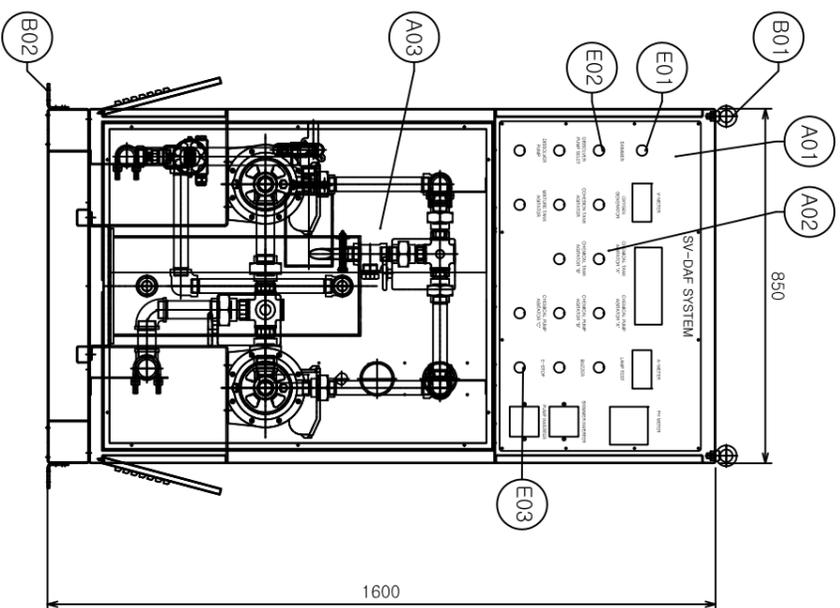
응집반응조

SPONSOR: KIMM 한국기계연구원

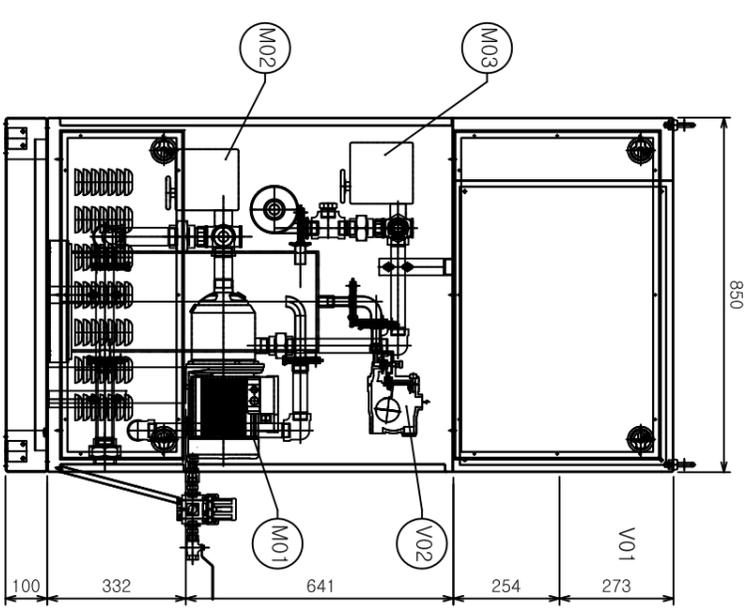
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1/10	201512	M-004	1/1	0



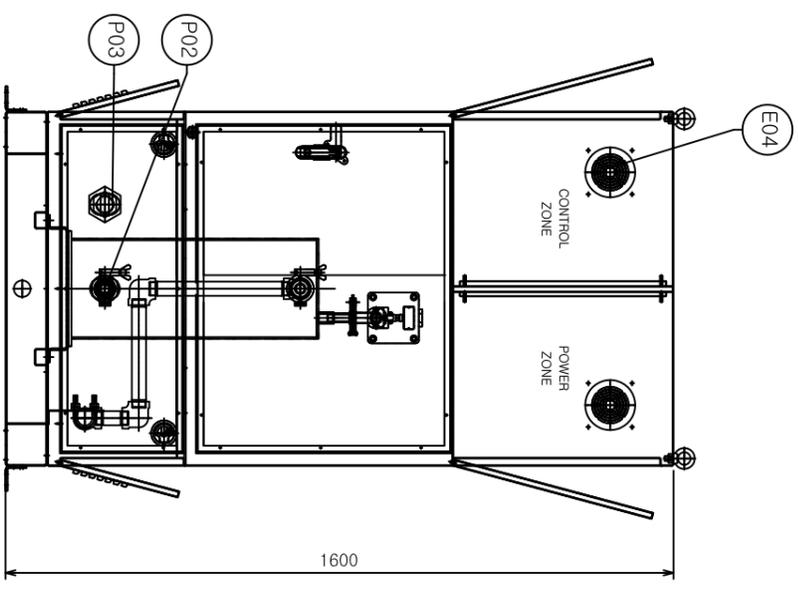
LEFT VIEW



FRONT VIEW



RIGHT VIEW



REAR VIEW

NO.	NAME	QTY	MATERIAL	SPECIFICATION & MODEL NO.	WEIGHT(kg)	NOTES
B02	BASE BRACKET	4 EA	STSS304	PL 4t		
B01	LIFTING BOLT	4 EA	STSS304	M12		
P04	AIR INLET NOZZLE	1 SET	STSS304	15A W/H VALVE		
P03	OUTLET NOZZLE	1 SET	STSS304	25A		
P02	INLET NOZZLE	1 SET	STSS304	32A		
P01	PIPING & FITTING	1 SET	STSS304	32A, 25A, 6φ		
E04	AIR SUPPLY FAN	2 EA	-	120 φ		
E03	E-STOP BUTTON LAMP	1 EA	-	SZER-EARAD		
E02	SELECTOR SWITCH	1 SET	-			

NO.	NAME	QTY	MATERIAL	SPECIFICATION & MODEL NO.	WEIGHT(kg)	NOTES
E01	POWER LAMP	1 EA	-	NF30-LW		KOINO
103	AIR REGULATOR	1 EA	-	10 kg/cm ²		YPC
102	MASS FLOW CONT.	1 EA	-	AIR 10LPM x 5kg/cm ²		LINETECH
101	PIT	2 EA	-	PTF30(WATER)/SPSA-1-R1/8(AIR)		KONICS
V02	AIR TRAP	1 EA	AL 4C 6T	ACETRAPS50N		ACE
V01	MANUAL BALL VALVE	1 EA	STSS304	15A		
M03	ELECTRIC MOTOR DRIVE 3-WAY BALL V/V	1 SET	SCS13	25A		
M02	ELECTRIC MOTOR DRIVE 3-WAY BALL V/V	1 SET	SCS13	32A		
M01	PUMP	2 SETS	-	MHI-404 (90LPM*5M) W/H INVERTER		1.5 kw

CLASS OF FILLS	TOLERANCE	DATE	SCALE	UNITS	CUS
▽	±0.1	2015.09.03	1 / 12	M/M	KIMM 한국기계연구원
▽▽	±0.2				
▽▽▽	±0.3				
▽▽▽▽	±0.4				
▽▽▽▽▽	±0.5				

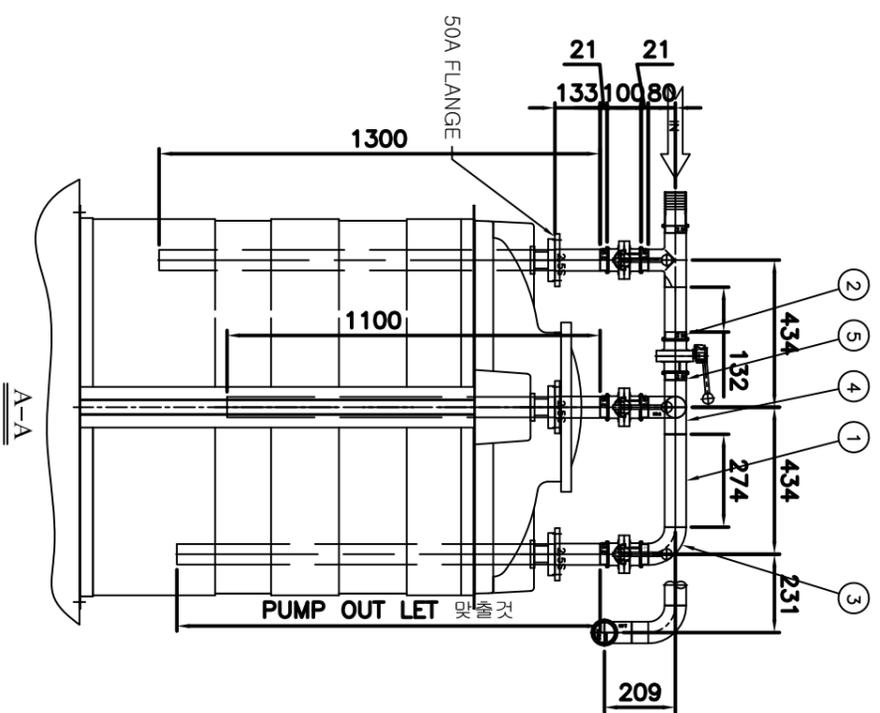
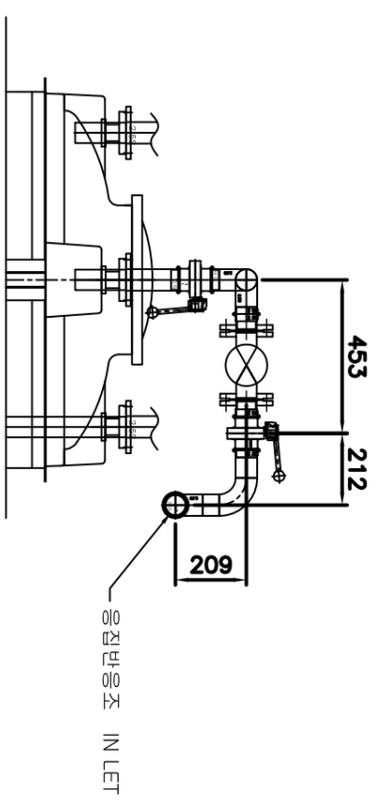
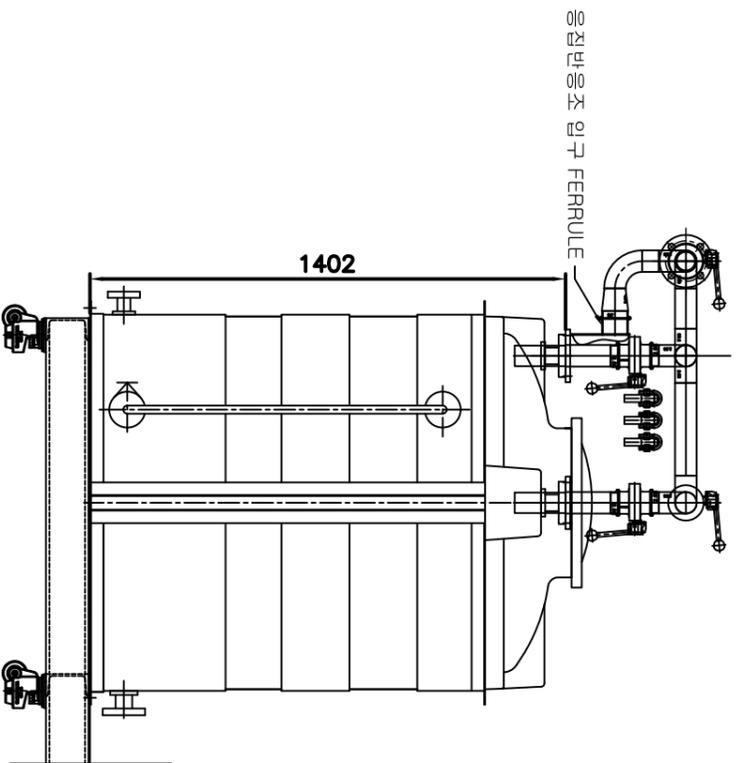
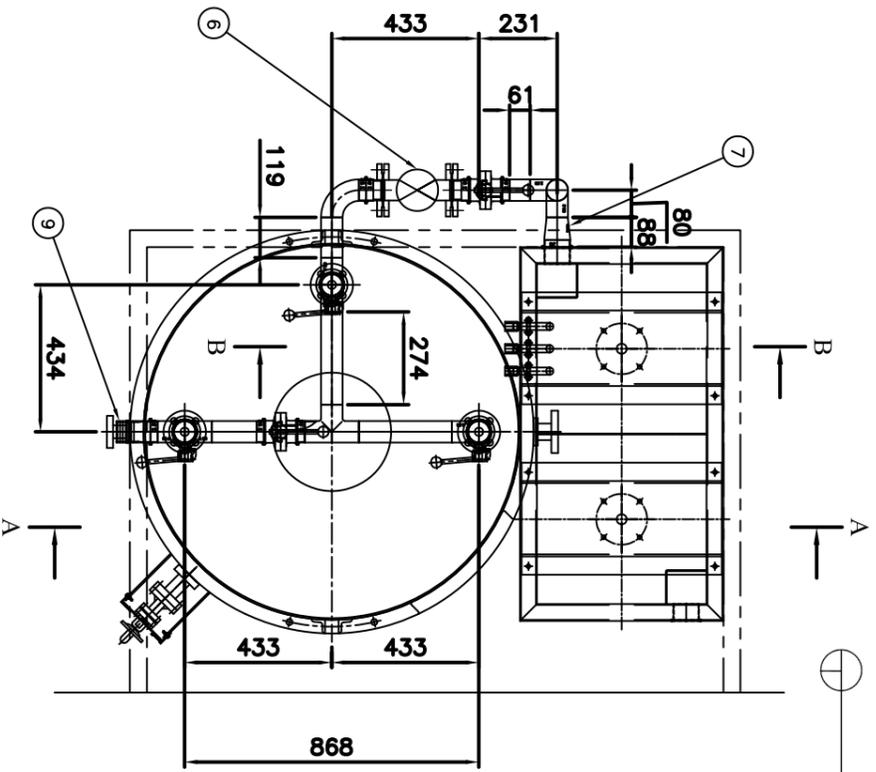
NO.	NAME	QTY	MATERIAL	SPECIFICATION & MODEL NO.	WEIGHT(kg)	NOTES
A04	MIXING POT	1 SETS	STSS304			
A03	AIR DISSOLVER	1 SET	STSS304			
A02	CONTROL BOX	1 SET	-	10" TOUCH SCREEN & PLC		
A01	CABINET	1 SET	STSS304	PL 2t/3t		

DESIGNED BY	CHECKED BY	APPROVED BY	TITLE	DWG NO.	REV.0
SI PARK	SI PARK	SI PARK	AIR DISSOLVER	M-D05	REV.0

PURITECH

비고
1. #차원 : HARLINE
2. APPROX. WEIGHT 790kg

MNBG DAF SYSTEM(원수 유입조)



NO	DESCRIPTION	SPEC	MATERIAL	QTY	REMARK
1	SANITARY PIPE	2.85	SIS 504	-	-
2	FERRULE	2.85	SIS 504	13	-
3	90° ELBOW	2.85	SIS 504	4	-
4	THREE BUTTERFLY VALVE	2.85	SIS 504	3	-
5	FLOWMETER	2.85	SIS 504	1	-
6	REDUCER	2.85-3S	SIS 504	1	-
7	FERRULE	3S	SIS 504	1	-
8	HOSE NIPPLE	2.85	SIS 504	13	-
9	CLAMP	2.85	SIS 504	13	-
10	CLAMP	3S	SIS 504	1	-

REV.	DATE	DESCRIPTION	DGN	CHK	APP	APP.
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PROJECT TITLE
미세기포를 이용한 폐수처리 실험장치

TITLE
MNBG-DAF SYSTEM

SPONSOR
원수 유입조

KIMM 한국기계연구원

SCALE	PROJ.NO.	DRAWING NO.	SHT.NO.	REV.
1/15	201512	M-008	0	0