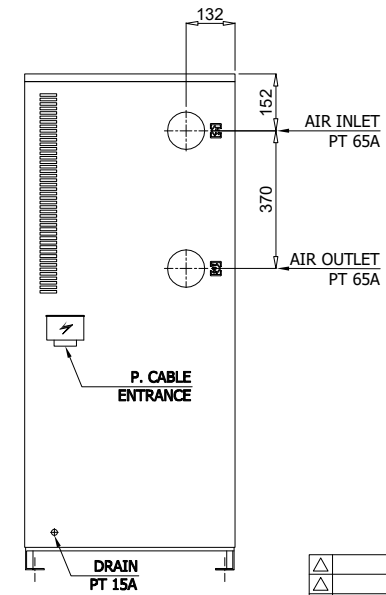
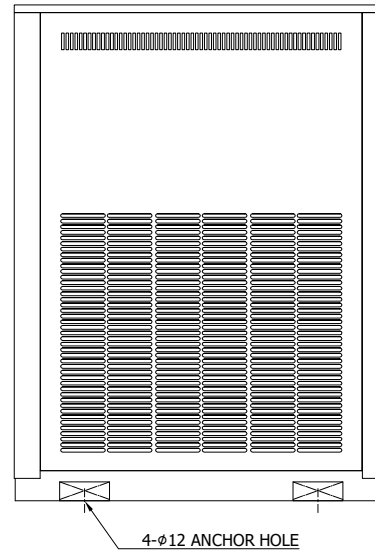
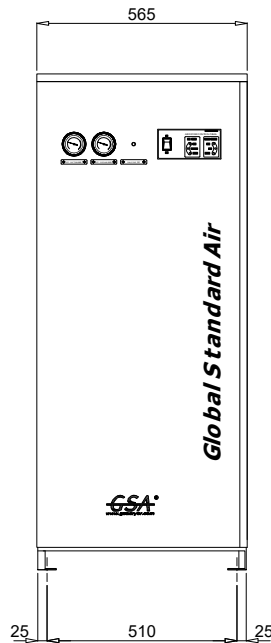
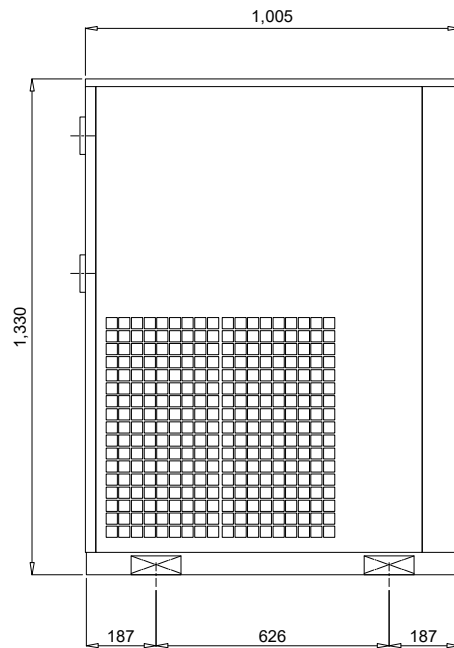
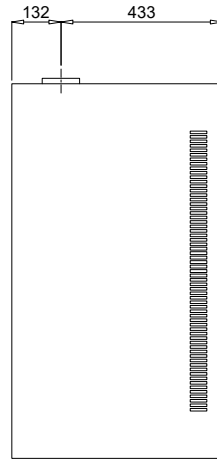
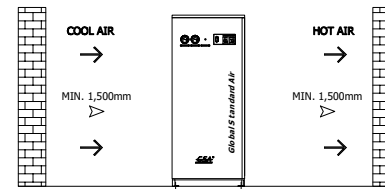
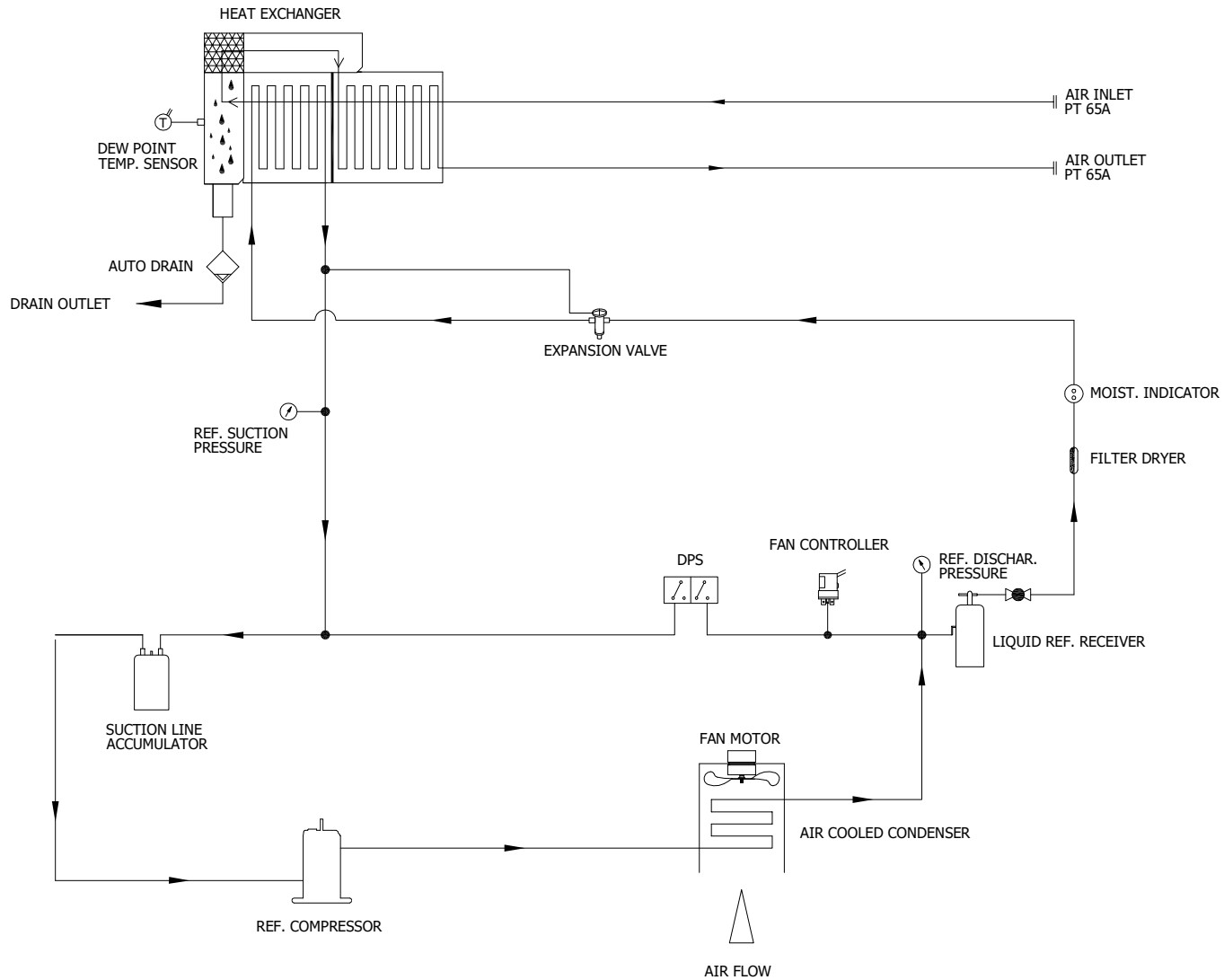
	2nd Generation Refrigerated Air Dryer		Rev.	Date	Prepared By	Checked By	Approved By
			1	2020.09.18	WOO.I.H.	JO.S.J.	KIM.H.W.
	Air Cooled Type		2				
			3				
4							
Project Name			-		Model Name		HYD-150N2
SPECIFICATION							
1							
2	Supply Voltage	380V	Inlet Flow Rate	21	Nm ³ /min		
3	Phase	3PH	Inlet Pressure	7	barg		
4	Frequency	60Hz	Inlet Temp.	38	°C		
5	Control use	220V	Outlet Flow Rate	21	Nm ³ /min		
6	Fulid	Compressed Air	Outlet Pressure	6.8	barg		
7	Location	Indoor	Outlet Temp.	28±5	°C		
8	Design Code	Maker STD.	Pressure Drop	0.2	bar		
9	Area Class	Non-Hazardous	Outlet Dew Point	2~10	°C		
10			Design Pressure	9.7	barg		
11			Design Temperature	70	°C		
12			Ambient Temperature	32	°C		
CONSTRUCTION							
13							
14	Refrigerant	R-22	Dimension (W x L x H)	565 X 1005 X 1330	mm		
15	Ref. Compressor Type	Scroll	Weight	172	kg		
16	Ref. Compressor Capacity	3 HP	Power Consumption	1.45	kW		
17	Condenser Type	Air Cooled	Inlet Connection	65A	PT Female Screw		
18	Condenser Fan Motor	0.4 kW	Outlet Connection	65A	PT Female Screw		
19		1 EA	Drain Connection	15A	PT Female Screw		
20	Condenser Fan Size	550 mm	Color (Munsell)	5.7PB 4.1/9.9			
21	Condenser Capacity	3 HP		5.7PB 2.9/3.5			
22	Condenser Material	Aluminum & Copper					
23	Heat Exchanger Type	Block					
24	Heat Exchanger Material	Aluminum					
25	Ref. Control Device	TEV					
26	ECO Mode Control	Dew Point Temp. Control					
27	Drain Trap Type	Electric					
STANDRAD FEATURES AND CONTROL							
28							
29	Fan Controller	YES	Ref. Compressor	YES			
30	Ref. Liquid Filter Dryer	YES	Expansion Valve	YES			
31	Overload Relay	YES	Hot Gas Bypass Valve	NO			
32	PCB Controller	YES	Air Cooled Condenser	YES			
33	Fan Motor Test Button	YES	Accumulator	YES			
34	Air Pressure Gauge	NO	Liquid Ref. Receiver	YES			
35	Ref. Pressure Gauge	YES	Oil Separator	NO			
36	Dual Pressure Switch	YES	Circuit Breaker	NO			
37	Moisture Indicator	YES	Ref. Compressor Heater	YES			
38	Drain	YES					
NOTES							
39							
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41							
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46							

INLET AIR TEMPERATURE	38°C
AMBIENT TEMPERATURE	32°C
INLET AIR PRESSURE	7 barg
CAPACITY	21.0 Nm ³ /min
IN/OUT CONNECTION	PT 65A
DIMENSION(WXDXH, mm)	565 X 1,005 X 1,330
WEIGHT	172 kg
MIN. POWER CONSUMPTION	1.45 kW
POWER SUPPLY	380/440V - 3PH - 50/60HZ


COOLING AIR DIRECTION

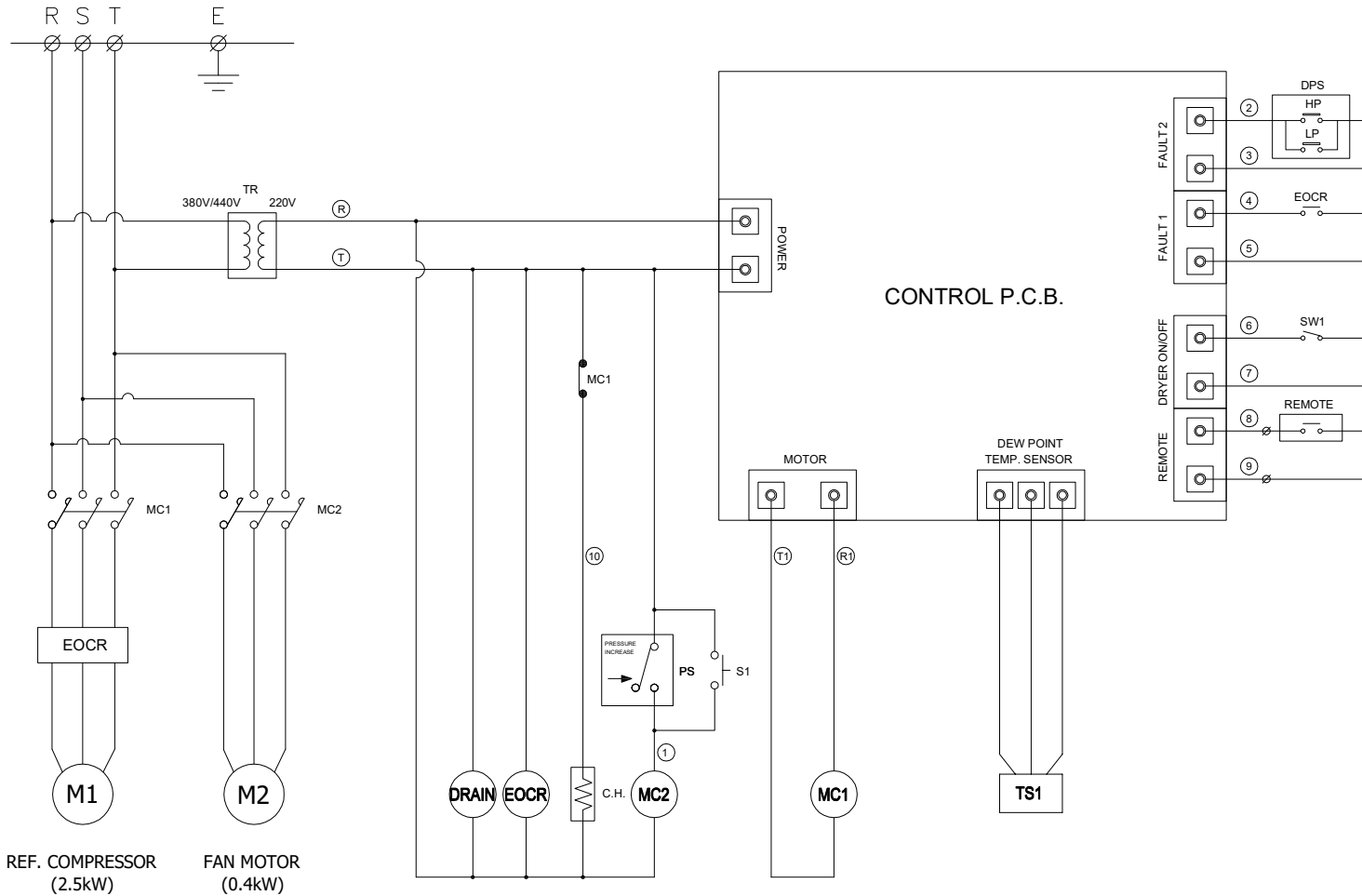


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△	2020.09.18	ISSUED FOR REFERENCE							
REV. NO.	DATE	DESCRIPTION	ENG	CHK	APPD	APPD	APPD		
PROJECT									
MANUFACTURER									
TITLE									
OUTLINE DRAWING									
ITEM NO.	HYD-150N2	DWG NO.	GSA-HYD-0150N2-01				REV.		
SCALE	NONE								



DEW POINT		2~10°C @ PDP	
INLET AIR PRESSURE		7.0 BARG	
INLET AIR TEMPERATURE		38°C	
CAPACITY		21.0 Nm ³ /min	
14	PRESS. GAUGE	REF. DISCHARGE	1
13	PRESS. GAUGE	REF. SUCTION	1
12	ACCUMULATOR	-	1
11	AUTO DRAIN	PT 15A	1
10	HEAT EXCHANGER	150 HP	1
9	EXPANSION VALVE	3 TON	1
8	MOIST. INDICATOR	3/8"	1
7	FILTER DRYER	3/8"	1
6	REF. RECEIVER	-	1
5	DPS	REF. LOW / HIGH PRESS. SW.	1
4	FAN CONTROLLER	12 ~ 18 BARG	1
3	FAN MOTOR	0.4KW 6P φ550	1
2	A/C CONDENSER	3 HP (CONDENSING CAPACITY)	1
1	REF. COMPRESSOR	3 HP (COOLING CAPACITY)	1
NO.	PART NAME	DESCRIPTION	QTY

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△	2020.09.18.	ISSUED FOR REFERENCE								
REV. NO.	DATE	DESCRIPTION	ENGR	CHK	APPD	APPD	APPD	APPD	APPD	
PROJECT										
MANUFACTURER										
										
TITLE										
PIPING & INSTRUMENTATION DRAWING										
ITEM NO.	HYD-150N2	DWG NO.	GSA-HYD-0150N2-02				REV.	△		
SCALE	NONE									



POWER SOURCE AC 380/440V, 3Ph, 50/60Hz		
12	SW1	SYSTEM ON/OFF SWITCH
11	C.H.	COMPRESSOR HEATER
10	DRAIN	AUTO DRAIN VALVE
9	S1	FAN MOTOR TEST BUTTON
8	DPS	DUAL PRESSURE SWITCH
7	TS1	DEW POINT TEMP. SENSOR
6	TR	TRANSFORMER(OPTION)
5	MC1, MC2	MAGNETIC CONTACTOR
4	PS	FAN CONTROLLER
3	EOCR	OVERLOAD RELAY
2	M2	FAN MOTOR
1	M1	REF. COMPRESSOR
NO.	SYMBOL	DESCRIPTION

***REVERSE PHASE WARNING**

Be sure to check the rotation direction of the fan motor and the operating condition of the refrigerant compressor.

- The fan motor must rotate clockwise.
- When the refrigerant compressor is operating, the refrigerant suction pressure will be lowered.

When operating in reverse phase, the refrigerant compressor is damaged.

In case of reverse phase, change the position of 2 wires out of 3 wires of the power supply line.

Problems caused by incorrect power connection are not guaranteed.

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△	2020.09.18.	ISSUED FOR REFERENCE							
REV. NO.	DATE	DESCRIPTION	DWG. CHK.	APPD.	APPD.	APPD.	APPD.	APPD.	APPD.
PROJECT									

MANUFACTURER		GSA <small>Global Standard Air & Gas</small>	
TITLE WIRING DRAWING			
ITEM NO.	HYD-150N2	DWG NO.	GSA-HYD-0150N2-03
SCALE	NONE	REV.	△