



## Refrigerated Air Dryer

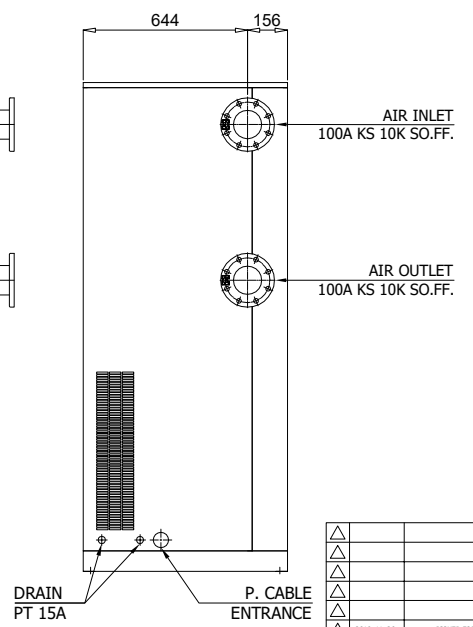
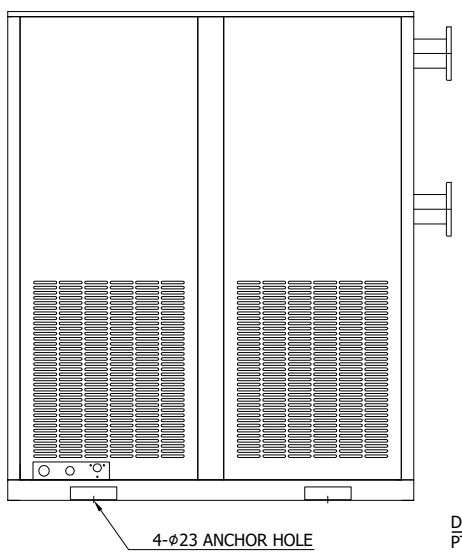
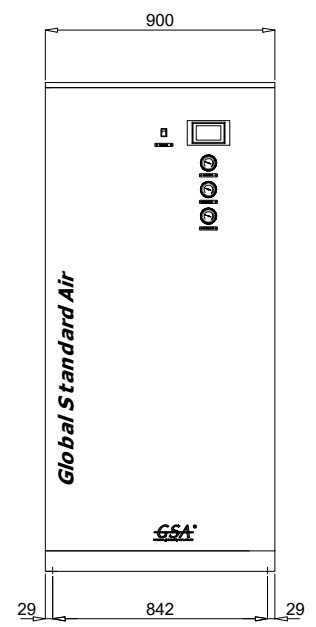
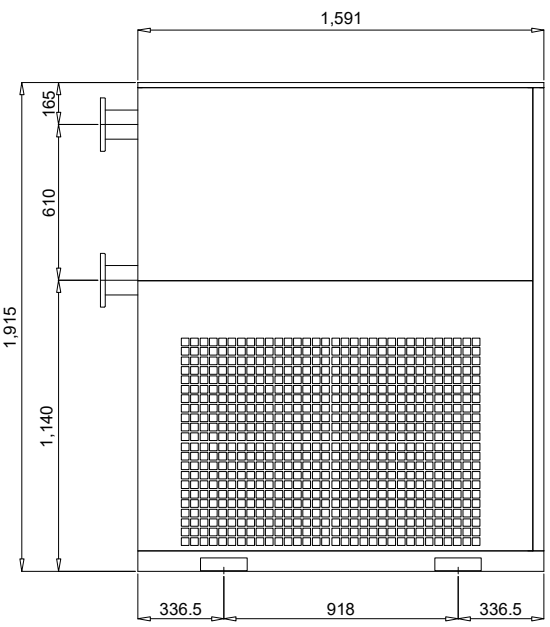
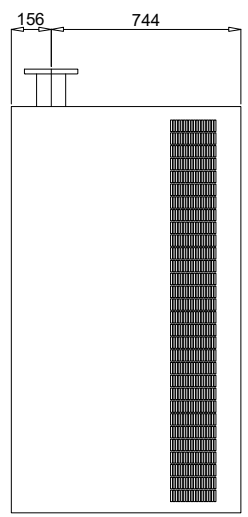
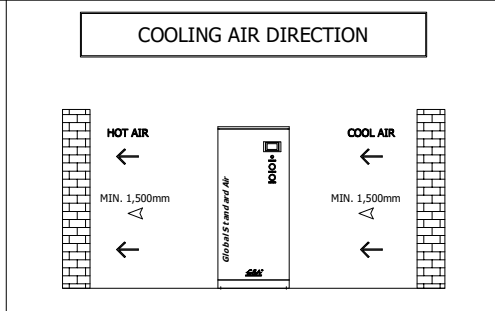
Air Cooled Type

Rev.	Date	Prepared By	Checked By	Approved By
A	2019.01.15	LEE.S.M.	JO.S.J.	KIM.H.W.
B				
C				
D				

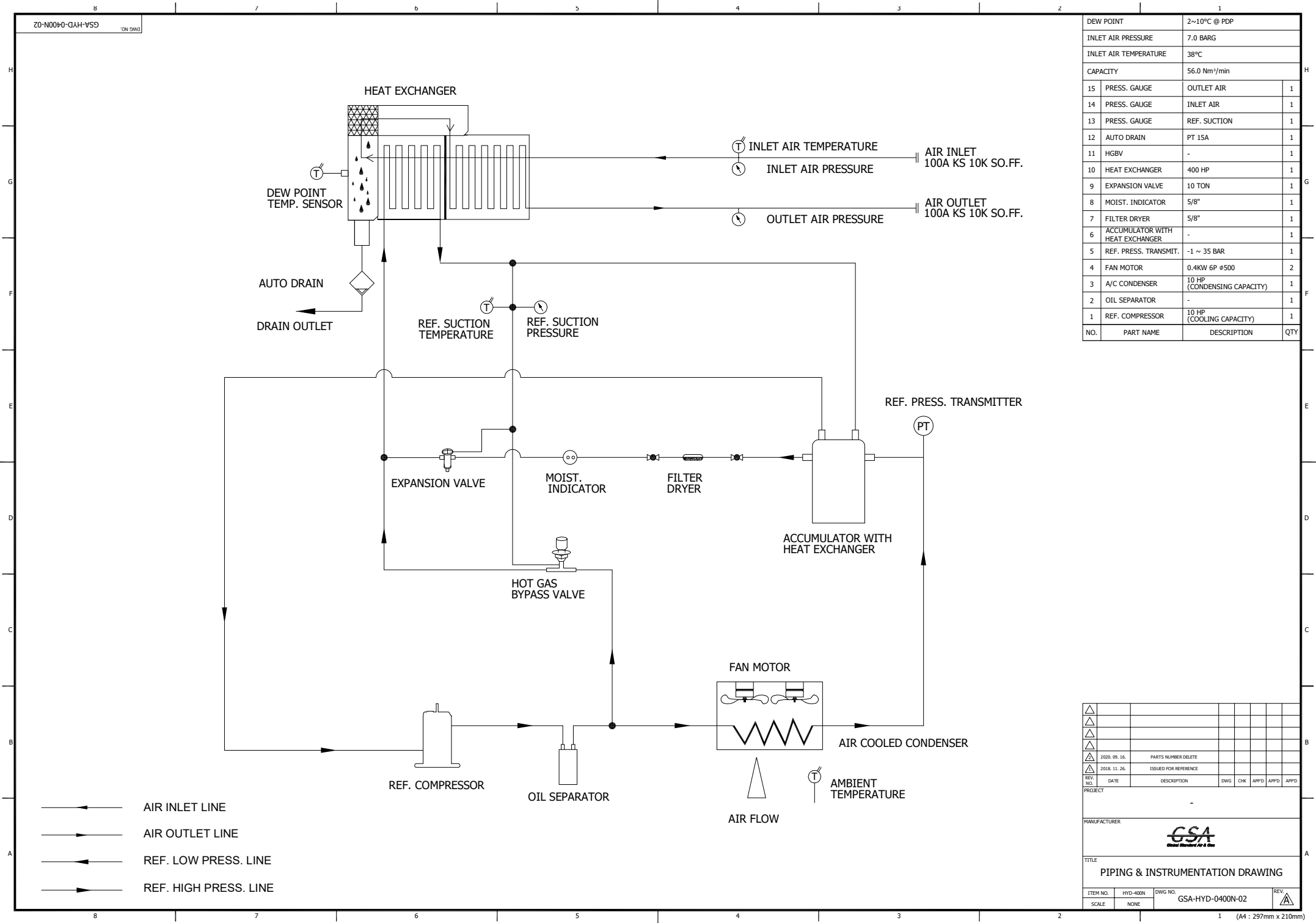
Project Name	-	Model Name	HYD-400N
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SPECIFICATION				
1				
2	Supply Voltage	380V	Inlet Flow Rate	56 Nm3/min
3	Phase	3PH	Inlet Pressure	7 barg
4	Frequency	60Hz	Inlet Temp.	38 °C
5	Control use	220V	Outlet Flow Rate	56 Nm3/min
6	Fulid	Compressed Air	Outlet 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				
14	Refrigerant	R-22	Dimension (W x L x H)	900 X 1591 X 1915 mm
15	Ref. Compressor Type	Scroll	Weight	600 kg
16	Ref. Compressor Capacity	10 HP	Power Consumption	9.7 kW
17	Condenser Type	Air Cooled	Inlet Connection	100A KS 10K SO.FF.
18	Condenser Fan Motor	0.4 kW	Outlet Connection	100A KS 10K SO.FF.
19		2 EA	Drain Connection	15A PT Female Screw
20	Condenser Fan Size	450 mm	Color (Munsell)	5.7PB 4.1/9.9
21	Condenser Capacity	10 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	Temp. Control Device	Hot Gas Bypass Valve		
27	Drain Trap Type	Level Sensor		
STANDRAD FEATURES AND CONTROL				
29	Ref. Pressure Transmitter	YES	Ref. Compressor	YES
30	Ref. Liquid Filter Dryer	YES	Expansion Valve	YES
31	Overload Relay	YES	Hot Gas Bypass Valve	YES
32	PCB Controller	YES	Air Cooled Condenser	YES
33	4.3" TFT LCD	YES	Accumulator with Heat Exchanger	YES
34	Air Pressure Gauge	YES	Liquid Ref. Receiver	NO
35	Ref. Pressure Gauge	YES	Oil Separator	YES
36	Dual Pressure Switch	NO	Circuit Breaker	YES
37	Moisture Indicator	YES	Ref. Compressor Heater	YES
38	Drain	YES		
NOTES				
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SPECIFICATION	
INLET AIR TEMPERATURE	38°C
AMBIENT TEMPERATURE	32°C
INLET AIR PRESSURE	7 barg
CAPACITY	56.0 Nm <sup>3</sup> /min
IN/OUT CONNECTION	100A KS 10K SO.FF.
DIMENSION(WXDXH, mm)	900 X 1,591 X 1,915
WEIGHT	600 kg
POWER CONSUMPTION	9.96 kW
POWER SUPPLY	380/440V - 3PH - 50/60HZ

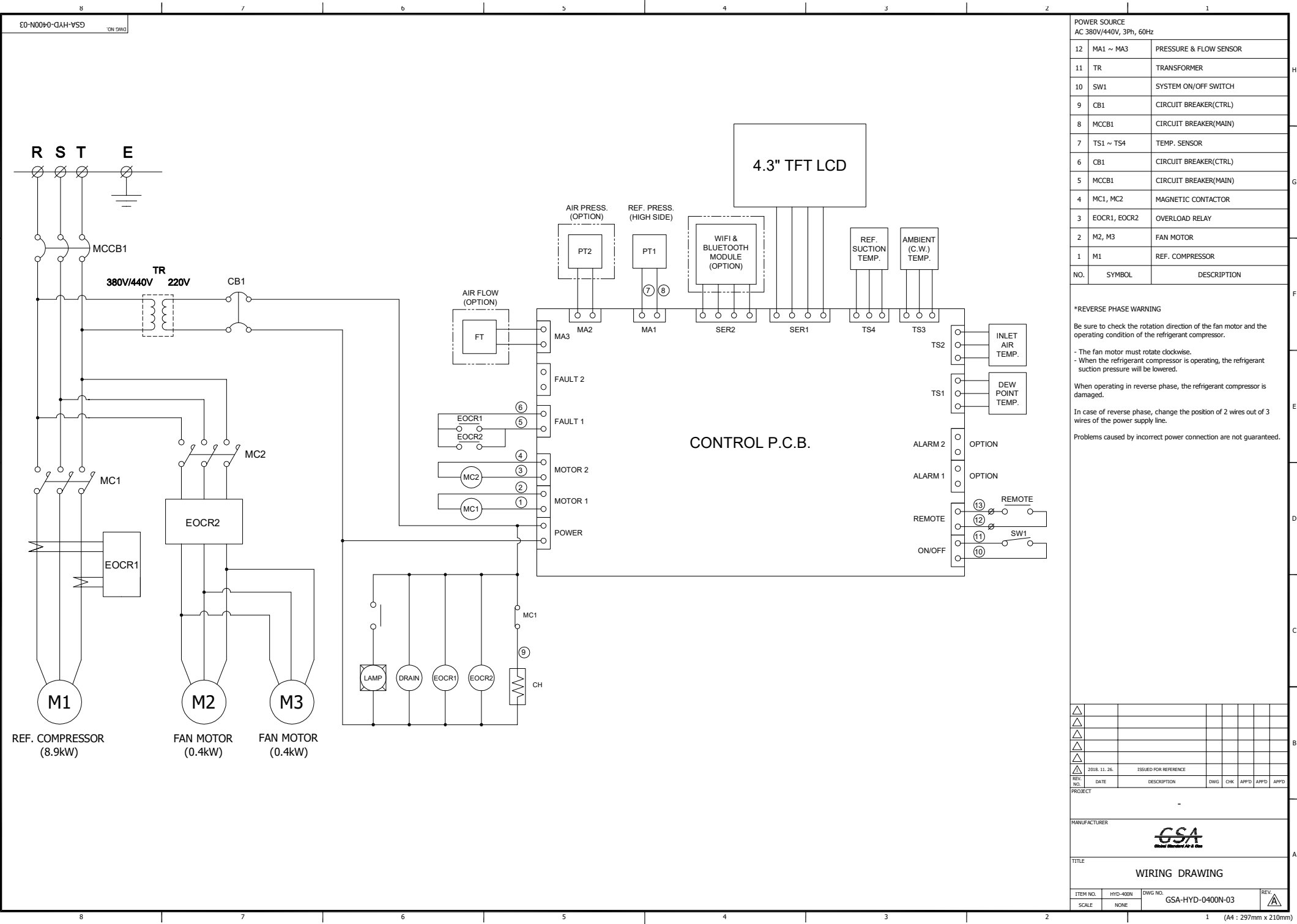


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△	2018. 11. 26.	ISSUED FOR REFERENCE								
REV. NO.	DATE	DESCRIPTION	DWG	CHK	APPD	APPD	APPD			
PROJECT										
MANUFACTURER										
TITLE										
OUTLINE DRAWING										
ITEM NO.	HYD-400N	DWG NO.	GSA-HYD-0400N-01				REV.	△		
SCALE	NONE									



DEW POINT	2~10°C @ PDP		
INLET AIR PRESSURE	7.0 BARG		
INLET AIR TEMPERATURE	38°C		
CAPACITY	56.0 Nm <sup>3</sup> /min		
15	PRESS. GAUGE	OUTLET AIR	1
14	PRESS. GAUGE	INLET AIR	1
13	PRESS. GAUGE	REF. SUCTION	1
12	AUTO DRAIN	PT 15A	1
11	HGBV	-	1
10	HEAT EXCHANGER	400 HP	1
9	EXPANSION VALVE	10 TON	1
8	MOIST. INDICATOR	5/8"	1
7	FILTER DRYER	5/8"	1
6	ACCUMULATOR WITH HEAT EXCHANGER	-	1
5	REF. PRESS. TRANSMIT.	-1 ~ 35 BAR	1
4	FAN MOTOR	0.4KW 6P ø500	2
3	A/C CONDENSER	10 HP (CONDENSING CAPACITY)	1
2	OIL SEPARATOR	-	1
1	REF. COMPRESSOR	10 HP (COOLING CAPACITY)	1
NO.	PART NAME	DESCRIPTION	QTY

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△	2020. 09. 16.	PARTS NUMBER DELETE								
△	2018. 11. 26.	ISSUED FOR REFERENCE								
REV. NO.	DATE	DESCRIPTION	ENG	CHK	APPD	APPD	APPD	APPD	APPD	
PROJECT										
MANUFACTURER										
										
TITLE										
PIPING & INSTRUMENTATION DRAWING										
ITEM NO.	HYD-400N	DWG NO.	GSA-HYD-0400N-02				REV.	△		
SCALE	NONE									



NO.	SYMBOL	DESCRIPTION
12	MA1 ~ MA3	PRESSURE & FLOW SENSOR
11	TR	TRANSFORMER
10	SW1	SYSTEM ON/OFF SWITCH
9	CB1	CIRCUIT BREAKER(CTRL)
8	MCCB1	CIRCUIT BREAKER(MAIN)
7	TS1 ~ TS4	TEMP. SENSOR
6	CB1	CIRCUIT BREAKER(CTRL)
5	MCCB1	CIRCUIT BREAKER(MAIN)
4	MC1, MC2	MAGNETIC CONTACTOR
3	EOCR1, EOCR2	OVERLOAD RELAY
2	M2, M3	FAN MOTOR
1	M1	REF. COMPRESSOR

**\*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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REV. NO.	DATE	DESCRIPTION	DWG. CHK.	APPD.	APPD.	APPD.

PROJECT: \_\_\_\_\_

MANUFACTURER: **GSA**  
Global Standard Air & Gas

TITLE: **WIRING DRAWING**

ITEM NO.	HYD-400N	DWG NO.	GSA-HYD-0400N-03	REV.	△
SCALE	NONE				