



Refrigerated Air Dryer

Water Cooled Type

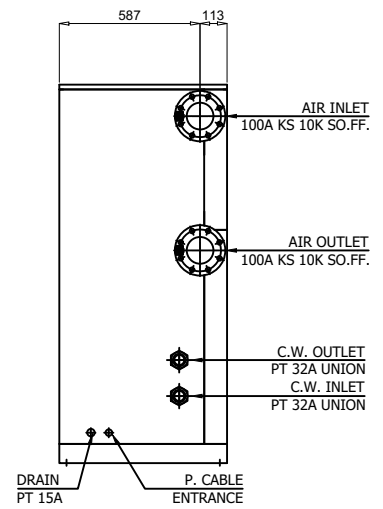
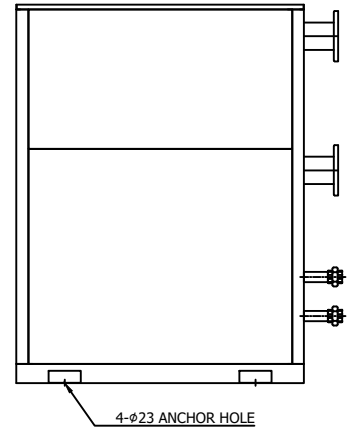
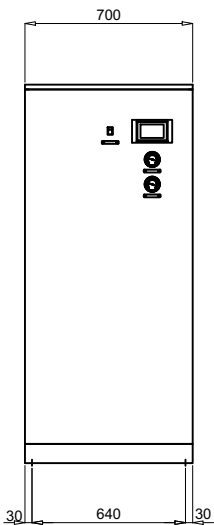
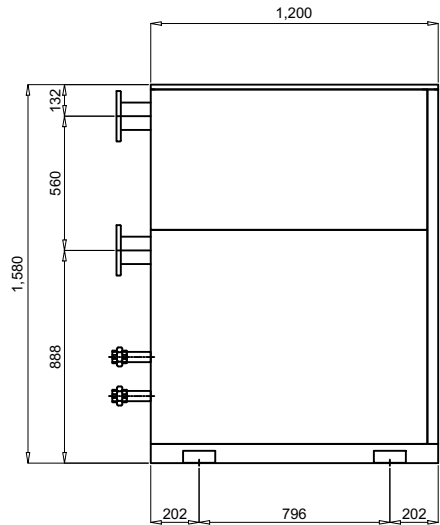
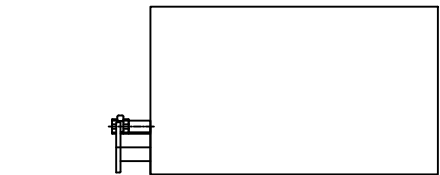
Rev.	Date	Prepared By	Checked By	Approved By
A	2020.09.23	WOO.I.H.	JO.S.J.	KIM.H.W.
B				
C				
D				

Project Name	-	Model Name	HYD-300WN
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SPECIFICATION				
1				
2	Supply Voltage	380V	Inlet Flow Rate	50.3 Nm ³ /min
3	Phase	3PH	Inlet Pressure	7 barg
4	Frequency	60Hz	Inlet Temperature	38 °C
5	Control use	220V	Outlet Flow Rate	50.3 Nm ³ /min
6	Fulid	Compressed Air	Outlet Pressure	6.8 barg
7	Location	Indoor	Outlet Temperature	28±5 °C
8	Design Code	Maker STD.	Pressure Drop	0.2 bar
9	Area Class	Non-Hazardous	Outlet Dew Point	2~10 °C@PDP
10	Cooling Water Capacity	67.5 L/min	Design Pressure	14 barg
11	Cooling Water Pressure	2 ~ 3 barg	Design Temperature	70 °C
12	Cooling Water Temperature	32 °C	Ambient Temperature	32 °C
CONSTRUCTION				
14	Refrigerant	R-22	Dimension (W x L x H)	700 X 1,200 X 1,580 mm
15	Ref. Compressor Type	Scroll	Weight	260 kg
16	Ref. Compressor Capacity	5 HP	Power Consumption	4.2 kW
17	Condenser Type	Water Cooled	Inlet Connection	100A KS 10K SO.FF.
18	Condenser Capacity	5 HP	Outlet Connection	100A KS 10K SO.FF.
19	Heat Exchanger Type	Block	Cooling Water Connection	32A PT Union
20	Heat Exchanger Material	Aluminum	Drain Connection	15A PT Female Screw
21	Ref. Control Device	TEV	Color (Munsell)	5.7PB 4.1/9.9
22	Temp. Control Device	Hot Gas Bypass Valve		5.7PB 2.9/3.5
23	Drain Trap Type	Level Sensor		
STANDRAD FEATURES AND CONTROL				
25	Ref. Compressor	YES	Auto Drain	YES
26	Water Cooled Condenser	YES	Hot Gas Bypass Valve	YES
27	Cooling Water Regulating Valve	YES	Suction Line Accumulator	YES
28	Liquid Ref. Receiver	YES	Oil Separator	NO
29	Filter Dryer	YES	Ref. Pressure Switch	NO
30	Expansion Valve	YES	4.3" TFT LCD	YES
31	Heat Exchanger	YES	PCB Controller	YES
32	Ref. Pressure Transmitter	YES		
33	Air Pressure Gauge	YES		
34	Ref. Pressure Gauge	YES		
NOTES				
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10-NM00E0-GAH-VSD
CON SWG

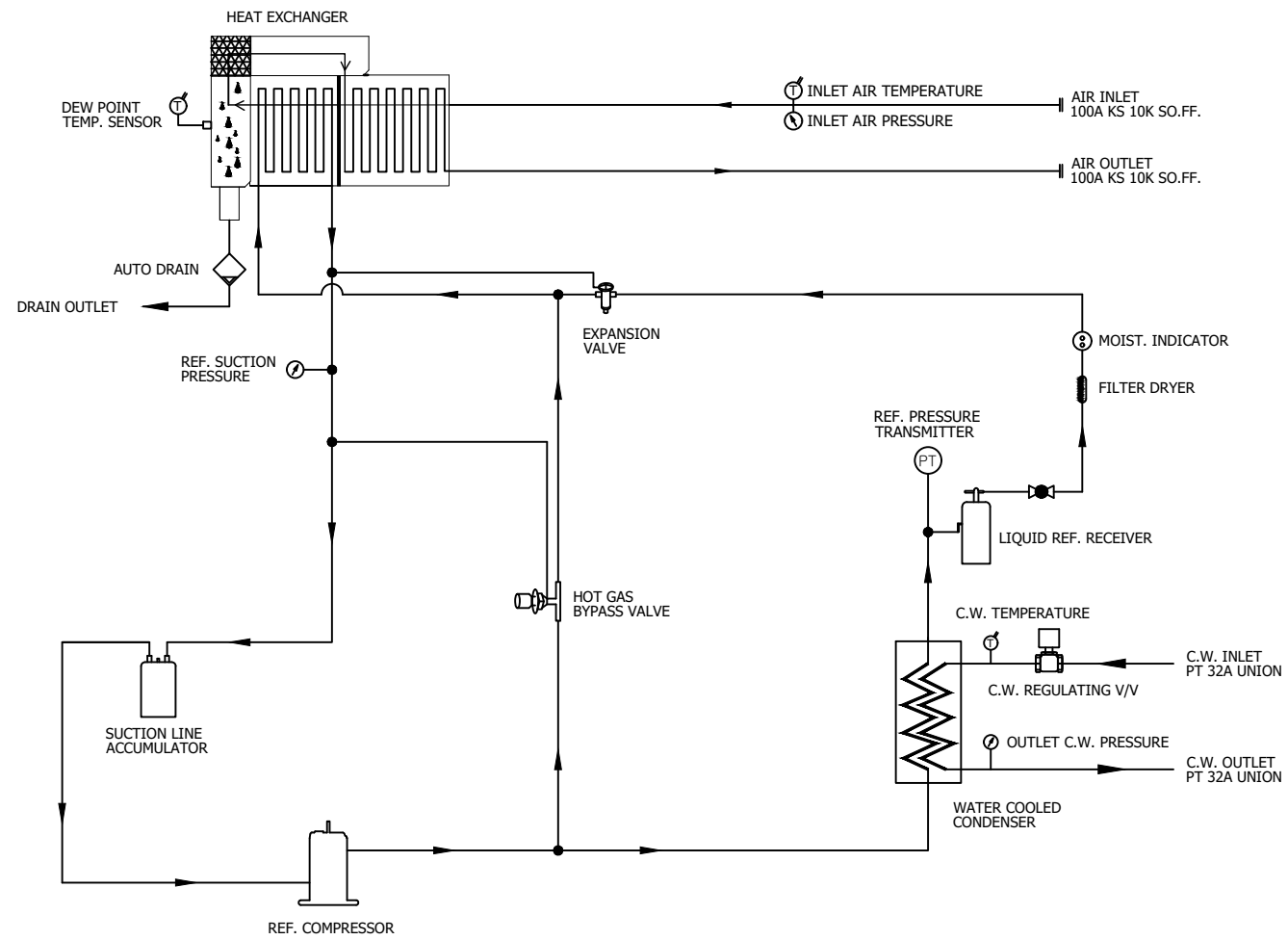
SPECIFICATION	
INLET AIR TEMPERATURE	38°C
AMBIENT TEMPERATURE	32°C
C.W. TEMP. / PRESS.	32°C / 2~3 barg
INLET AIR PRESSURE	7 barg
CAPACITY	50.3 Nm³/min
AIR IN/OUT CONNECTION	100A KS 10K SO.FF.
C.W IN/OUT CONNECTION	PT 32A
DIMENSION(WXDH, mm)	700 X 1,200 X 1,580
WEIGHT	260 kg
POWER CONSUMPTION	4.2 kW
POWER SUPPLY	380/440V - 3PH - 50/60HZ



REV.	DATE	DESCRIPTION	ENG.	CHK.	APPO.	APPO.
2020.09.23		ISSUED FOR REFERENCE				
PROJECT						
MANUFACTURER						
GSA Global Standard Air & Gas						
TITLE						
OUTLINE DRAWING						
ITEM NO.	HYD-300WN	DWG NO.		REV.		
SCALE	NONE	GSA-HYD-0300WN-01				


(A4 : 297mm x 210mm)

ZO-NM00ED-QAH-YSD
CON. DWG.

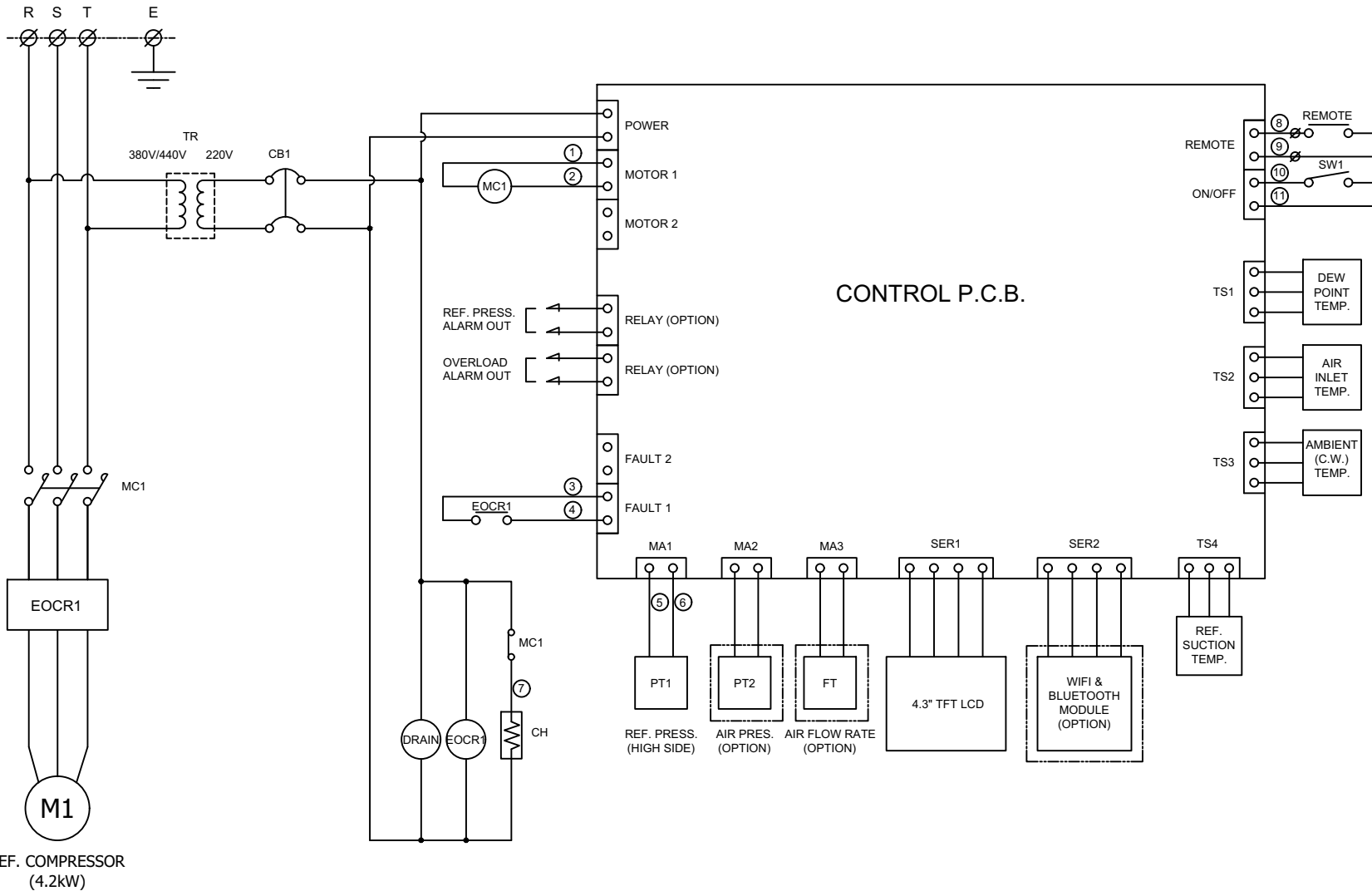


- ← AIR INLET LINE
- AIR OUTLET LINE
- ← REF. LOW PRESS. LINE
- REF. HIGH PRESS. LINE

DEW POINT	2~10°C @ PDP		
INLET AIR PRESSURE	7.0 BARG		
INLET AIR TEMPERATURE	38°C (MAX. 40°C)		
CAPACITY	50.3 Nm ³ /min		
15 PRESS. GAUGE	OUTLET COOLING WATER	1	
14 PRESS. GAUGE	INLET AIR	1	
13 PRESS. GAUGE	REF. SUCTION	1	
12 ACCUMULATOR	-	1	
11 AUTO DRAIN	PT 15A	1	
10 HEAT EXCHANGER	300 HP	1	
9 HGBV	-	1	
8 EXPANSION VALVE	5 TON	1	
7 MOIST. INDICATOR	1/2"	1	
6 FILTER DRYER	1/2"	1	
5 REF. RECEIVER	-	1	
4 REF. PRESS. TRANSMIT.	-1 ~ 35 BAR	1	
3 C.W. REGUL. V/V	PT 32A	1	
2 W.C. CONDENSER	5 HP (CONDENSING CAPACITY)	1	
1 REF. COMPRESSOR	5 HP (COOLING CAPACITY)	1	
NO.	PART NAME	DESCRIPTION	QTY

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△	2020. 09. 23.	ISSUED FOR REFERENCE							
REV.	DATE	DESCRIPTION	ENG	CHK	APPD	APPD	APPD	APPD	
PROJECT									
MANUFACTURER									
 <small>Global Standard Air & Gas</small>									
TITLE									
PIPING & INSTRUMENTATION DRAWING									
ITEM NO.	HYD-300WN	EDWG NO.	GSA-HYD-0300WN-02						
SCALE	NONE								

(A4 : 297mm x 210mm)



REF. COMPRESSOR (4.2kW)

POWER SOURCE		
AC 380/440V, 3Ph, 50/60Hz		
10	PT1	REF. PRESSURE TRANSMITTER
9	TR	TRANSFORMER
8	SW1	SYSTEM ON/OFF SWITCH
7	C.H.	REF. COMP. HEATER
6	DRAIN	AUTO DRAIN VALVE
5	TS1 ~ TS4	TEMP. SENSOR
4	CB1	CIRCUIT BREAKER(CTRL)
3	MC1	MAGNETIC CONTACTOR
2	EOCR1	OVERLOAD RELAY
1	M1	REF. COMPRESSOR
NO.	SYMBOL	DESCRIPTION

***REVERSE PHASE WARNING**
 Be sure to check the operating condition of the refrigerant compressor.
 - 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.

REV. NO.	DATE	DESCRIPTION	ENG	CHK	APPD	APPD	APPD
2020.09.23		ISSUED FOR REFERENCE					

PROJECT: _____

MANUFACTURER: **GSA**
GLOBAL SERVICE AIR & GAS

TITLE: **WIRING DRAWING**

ITEM NO.	HYD-300WN	DWG NO.	GSA-HYD-0300WN-03	REV.	△
SCALE	NONE				