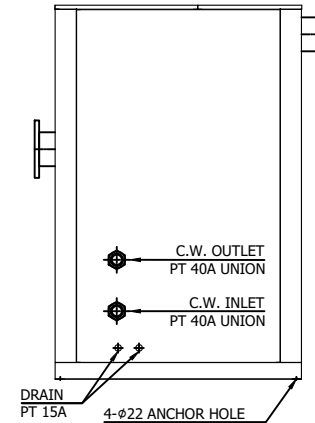
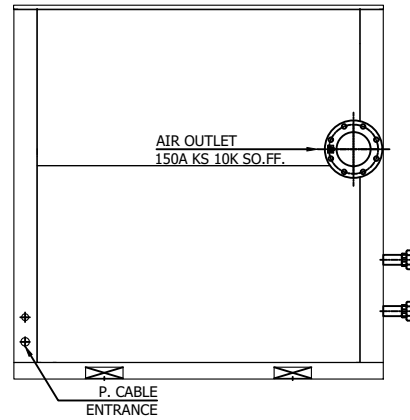
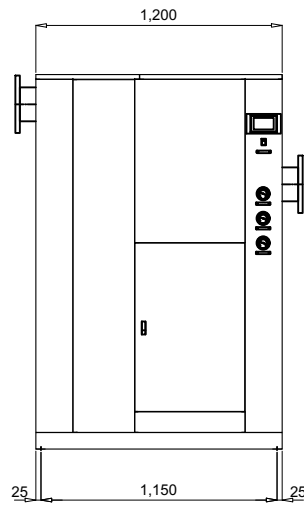
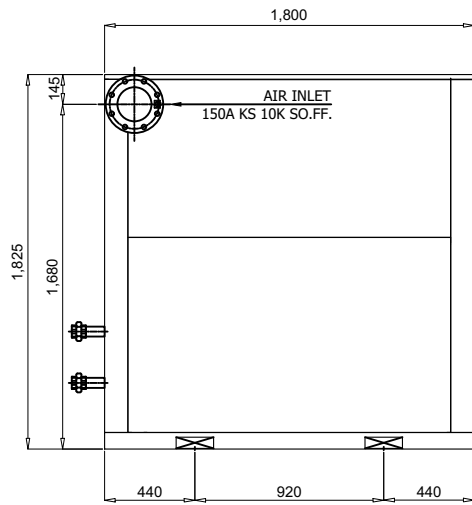
	<b>Eco Pro Refrigerated Air Dryer</b>		Rev.	Date	Prepared By	Checked By	Approved By
			A	2020.09.23	WOO.I.H.	JO.S.J.	KIM.H.W.
	<b>Water Cooled Type</b>		B				
			C				
D							
Project Name			-		Model Name		HYD-500WN2
<b>SPECIFICATION</b>							
1							
2	Supply Voltage	380V	Inlet Flow Rate	70.6	Nm3/min		
3	Phase	3PH	Inlet Pressure	7	barg		
4	Frequency	60Hz	Inlet Temperature	38	°C		
5	Control use	220V	Outlet Flow Rate	70.6	Nm3/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	165.4 L/min	Design Pressure	9.7	barg		
11	Cooling Water Pressure	2 ~ 3 barg	Design Temperature	70	°C		
12	Cooling Water Temperature	32 °C	Ambient Temperature	32	°C		
<b>CONSTRUCTION</b>							
13							
14	Refrigerant	R-22	Dimension (W x L x H)	1,200 X 1,800 X 1,830	mm		
15	Ref. Compressor Type	Scroll	Weight	770	kg		
16	Ref. Compressor Capacity	13 HP	Min. Power Consumption	5.5	kW		
17	Condenser Type	Water Cooled	Inlet Connection	150A	KS 10K SO.FF.		
18	Condenser Capacity	15 HP	Outlet Connection	150A	KS 10K SO.FF.		
19	Heat Exchanger Type	Block	Cooling Water Connection	40A	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	ECO Mode Control	Dew Point Temp. Control		5.7PB 2.9/3.5			
23	Drain Trap Type	Level Sensor					
<b>STANDRAD FEATURES AND CONTROL</b>							
24							
25	Ref. Compressor	YES	Auto Drain	YES			
26	Water Cooled Condenser	YES	Hot Gas Bypass Valve	YES			
27	Cooling Water Regulating Valve	YES	Accumulator with Heat Exchanger	YES			
28	Liquid Ref. Receiver	NO	Oil Separator	YES			
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					
<b>NOTES</b>							
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10-ZMM0050-QAH-VSD  
CON DWG

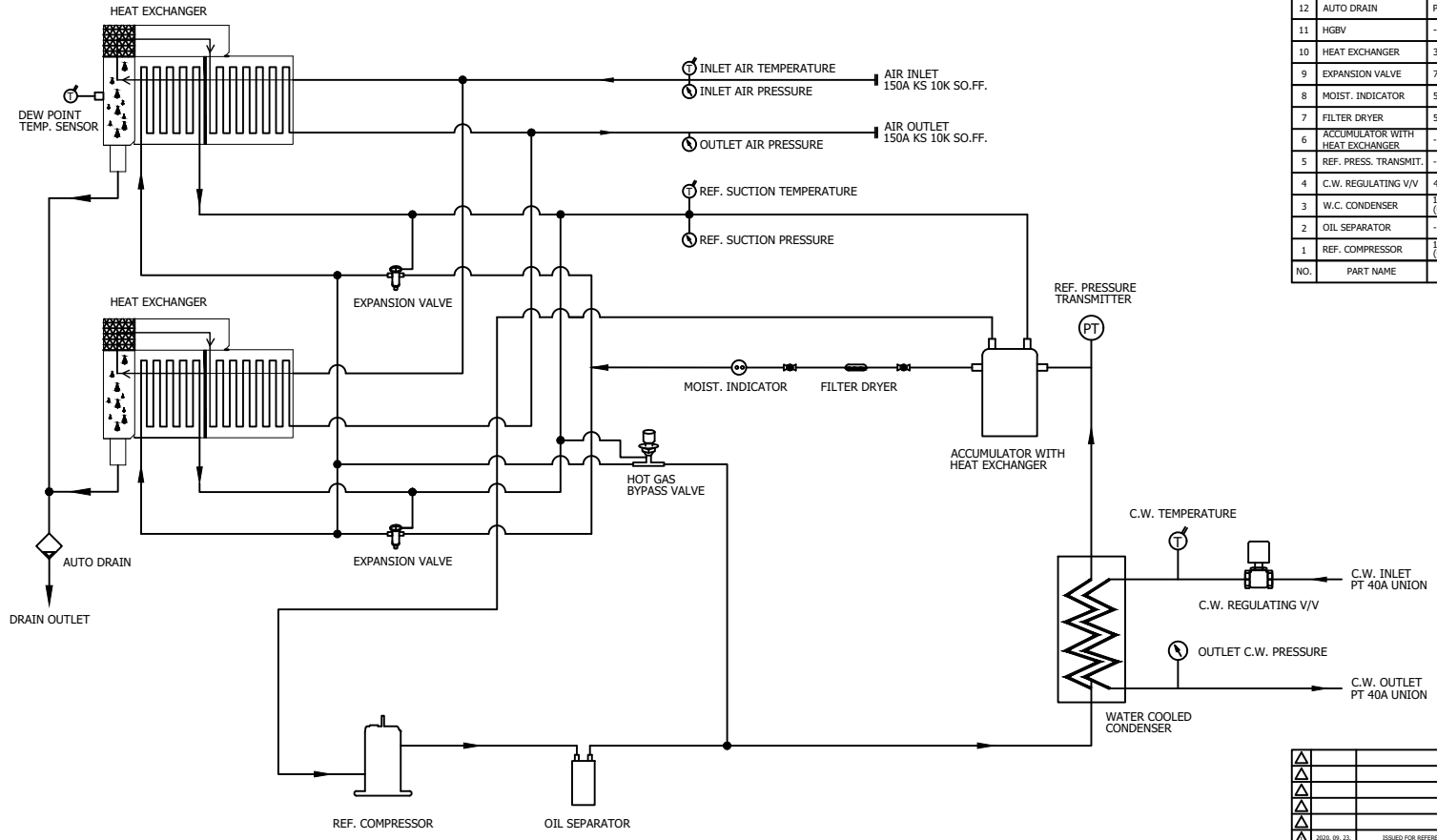
SPECIFICATION	
INLET AIR TEMPERATURE	38°C
AMBIENT TEMPERATURE	32°C
C.W. TEMP. / PRESS.	32°C / 2~3 barg
INLET AIR PRESSURE	7 barg
CAPACITY	70.6 Nm <sup>3</sup> /min
AIR IN/OUT CONNECTION	150A KS 10K SO.FF.
C.W IN/OUT CONNECTION	PT 40A
DIMENSION(WXDH, mm)	1,200 X 1,800 X 1,830
WEIGHT	780 kg
MIN. POWER CONSUMP.	5.5 kW
POWER SUPPLY	380/440V - 3PH - 50/60Hz



REV.	DATE	DESCRIPTION	DWG	CHK	APPD	APPD
2020.09.23		ISSUED FOR REFERENCE				
PROJECT						
MANUFACTURER						
<b>GSA</b> Global Standard Air & Gas						
TITLE						
OUTLINE DRAWING						
ITEM NO.	HYD-500WAZ	DWG NO.	GSA-HYD-0500WN2-01			
SCALE	NONE					


(A4 : 297mm x 210mm)

Z0-ZNM0050-GAH-VSD  
ON DWG

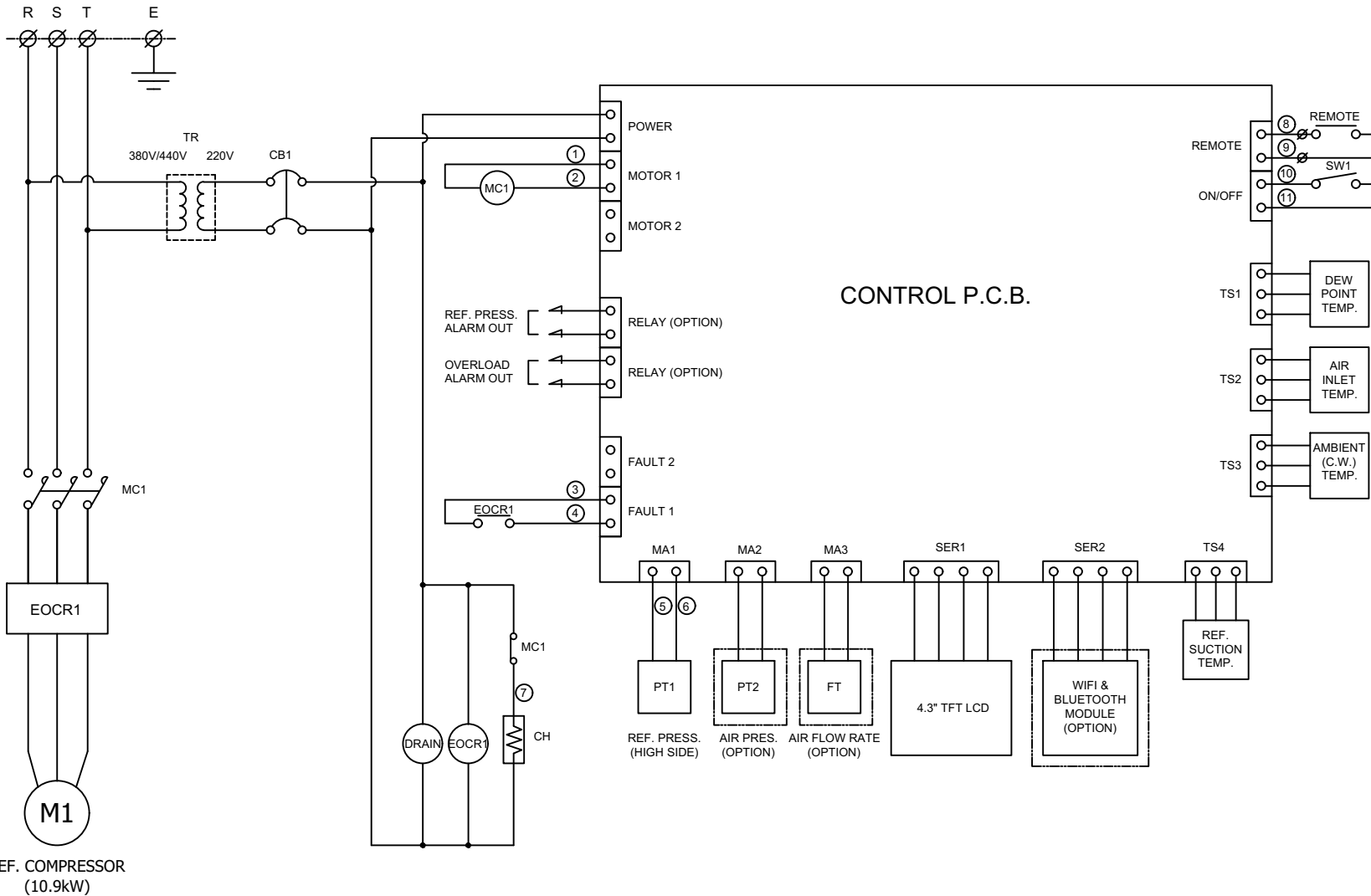


- ← AIR INLET LINE
- AIR OUTLET LINE
- ← REF. LOW PRESS. LINE
- REF. HIGH PRESS. LINE

DEW POINT	2~10°C @ FDP		
INLET AIR PRESSURE	7.0 barg		
INLET AIR TEMPERATURE	38°C		
CAPACITY	70.6 Nm <sup>3</sup> /min		
16	PRESS. GAUGE	OUTLET COOLING WATER	1
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	300 HP	2
9	EXPANSION VALVE	7.5 TON	2
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	C.W. REGULATING V/V	40A	1
3	W.C. CONDENSER	15 HP (CONDENSING CAPACITY)	1
2	OIL SEPARATOR	-	1
1	REF. COMPRESSOR	13 HP (COOLING CAPACITY)	1
NO.	PART NAME	DESCRIPTION	QTY

REV.	DATE	DESCRIPTION	ENG	CHK	APPD	APPD
2020.09.23		ISSUED FOR REFERENCE				
PROJECT						
MANUFACTURER						
 <small>Global Standard Air &amp; Gas</small>						
TITLE						
PIPING & INSTRUMENTATION DRAWING						
ITEM NO.	HYD-500WAZ	DWG NO.	GSA-HYD-0500WN2-02			
SCALE	NONE					

(A4 : 297mm x 210mm)



POWER SOURCE		
AC 380/440V, 3Ph, 50/60Hz		
11	PT1	REF. PRESSURE TRANSMITTER
10	DRAIN	AUTO DRAIN VALVE
9	SW1	SYSTEM ON/OFF SWITCH
8	C.H.	REF. COMP. HEATER
7	DRAIN	AUTO DRAIN VALVE
6	TS1 ~ TS4	TEMP. SENSOR
5	CB1	CIRCUIT BREAKER(CTRL)
4	MCCB1	CIRCUIT BREAKER(MAIN)
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-500WN2	DWG NO.	GSA-HYD-0500WN2-03	REV.	△
SCALE	NONE				