	Refrigerated Air Dryer	Rev.	Date	Prepared By	Checked By	Approved By
GSA Global Standard Air & Gas		A	2020.09.23	WOO.I.H.	JO.S.J.	KIM.H.W.
		B				
	Water Cooled Type	C				
		D				

Project Name	-	Model Name	HYD-800WN

1	**SPECIFICATION**					
2	Supply Voltage	380V		Inlet Flow Rate	120	Nm3/min
3	Phase	3PH		Inlet Pressure	7	barg
4	Frequency	60Hz		Inlet Temperature	38	℃
5	Control use	220V		Outlet Flow Rate	120	Nm3/min
6	Fulid	Compressed Air		Outlet Pressure	6.8	barg
7	Location	Indoor		Outlet Temperature	28±5	℃
8	Design Code	Maker STD.		Pressure Drop	0.2	bar
9	Area Class	Non-Hazardous		Outlet Dew Point	2~10	℃@PDP
10	Cooling Water Capacity	198.4	L/min	Design Pressure	9.7	barg
11	Cooling Water Pressure	2 ~ 3	barg	Design Temperature	70	℃
12	Cooling Water Temperature	32	℃	Ambient Temperature	32	℃
13	**CONSTRUCTION**					
14	Refrigerant	R-22		Dimension (W x L x H)	1,500 X 1,900 X 2150	mm
15	Ref. Compressor Type	Scroll		Weight	950	kg
16	Ref. Compressor Capacity	20	HP	Power Consumption	18.5	kW
17	Condenser Type	Water Cooled		Inlet Connection	200A	KS 10K SO.FF.
18	Condenser Capacity	20	HP	Outlet Connection	200A	KS 10K SO.FF.
19	Heat Exchanger Type	Block		Cooling Water Connection	50A	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				
24	**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	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				
35	**NOTES**					
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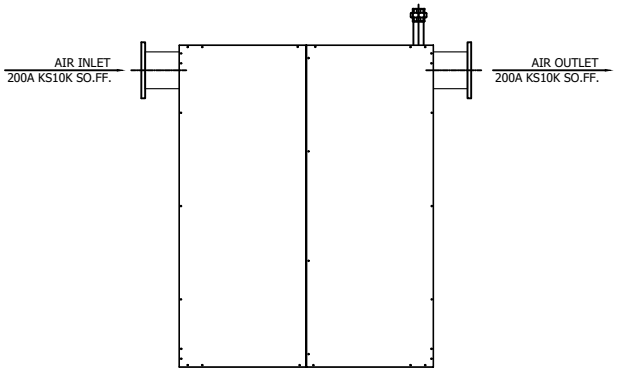
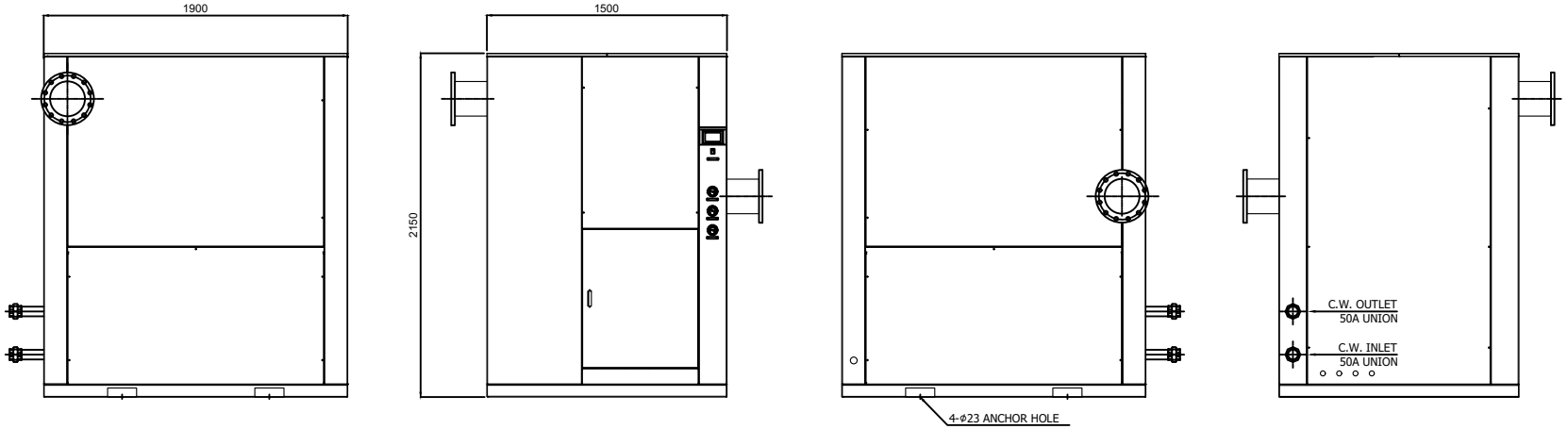
DWG NO. GSA-HYD-0800WN-01

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	120.0 Nm³/min
AIR IN/OUT CONNECTION	200A KS 10K SO.FF.
C.W IN/OUT CONNECTION	PT 50A
DIMENSION(WXDXH, mm)	1,500 X 1,900 X 2,150
WEIGHT	950 kg
POWER CONSUMPTION	18.5 kW
POWER SUPPLY	380/440V - 3PH - 50/60Hz





REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D
1	2020. 09. 23.	ISSUED FOR REFERENCE				

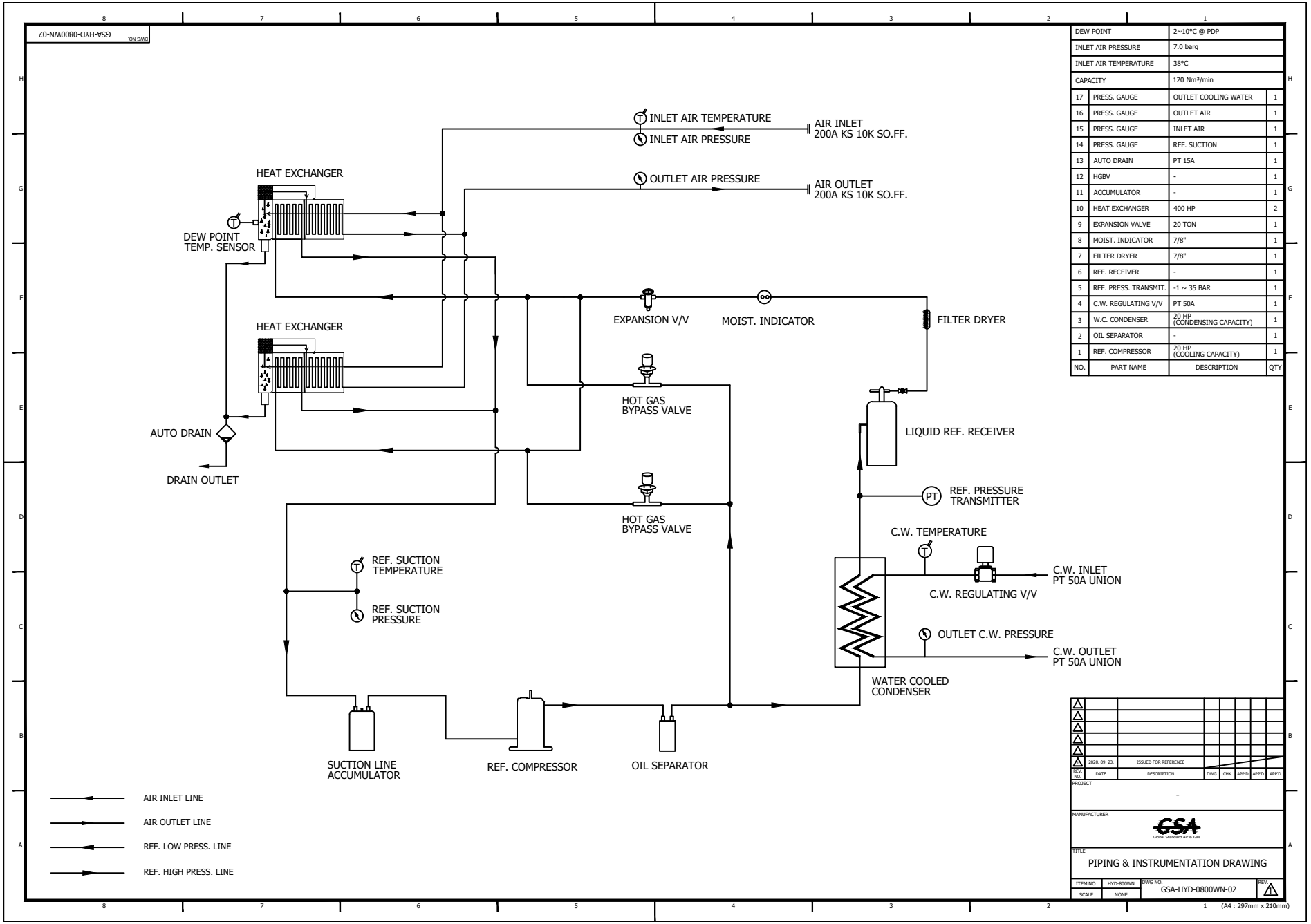
PROJECT: -

MANUFACTURER: GSA Global Standard Air & Gas

TITLE: OUTLINE DRAWING

ITEM NO.	HYD-800WN	DWG NO.	GSA-HYD-0800WN-01	REV.
SCALE	NONE			1

(A4 : 297mm x 210mm)



DEW POINT		2~10°C @ PDP	
INLET AIR PRESSURE		7.0 barg	
INLET AIR TEMPERATURE		38°C	
CAPACITY		120 Nm³/min	
17	PRESS. GAUGE	OUTLET COOLING WATER	1
16	PRESS. GAUGE	OUTLET AIR	1
15	PRESS. GAUGE	INLET AIR	1
14	PRESS. GAUGE	REF. SUCTION	1
13	AUTO DRAIN	PT 15A	1
12	HGBV	-	1
11	ACCUMULATOR	-	1
10	HEAT EXCHANGER	400 HP	2
9	EXPANSION VALVE	20 TON	1
8	MOIST. INDICATOR	7/8"	1
7	FILTER DRYER	7/8"	1
6	REF. RECEIVER	-	1
5	REF. PRESS. TRANSMIT.	-1 ~ 35 BAR	1
4	C.W. REGULATING V/V	PT 50A	1
3	W.C. CONDENSER	20 HP (CONDENSING CAPACITY)	1
2	OIL SEPARATOR	-	1
1	REF. COMPRESSOR	20 HP (COOLING CAPACITY)	1
NO.	PART NAME	DESCRIPTION	QTY

REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D
1	2020. 09. 23.	ISSUED FOR REFERENCE				

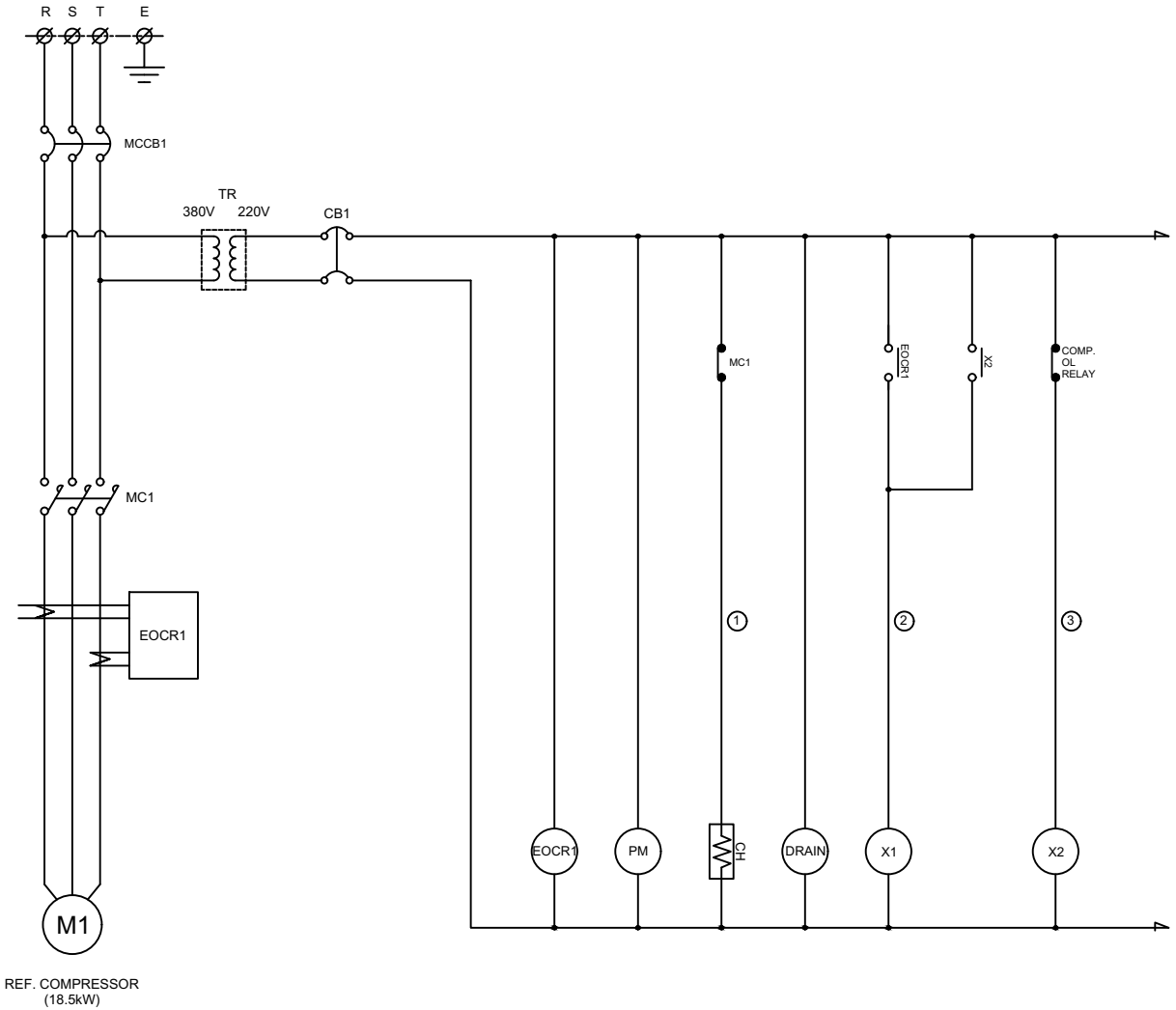
PROJECT: -

MANUFACTURER: GSA Global Standard Air & Gas

TITLE: PIPING & INSTRUMENTATION DRAWING

ITEM NO.	HYD-800WN	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0800WN-02	1

(A4 : 297mm x 210mm)



POWER SOURCE
AC 380/440V, 3Ph, 50/60Hz

NO.	SYMBOL	DESCRIPTION
10	X1, X2	RELAY
9	DRAIN	CONDENSATE WATER DRAIN
8	C.H.	REF. COMP. HEATER
7	PM	REF. COMP. PROTECTION MODULE
6	CB1	CIRCUIT BREAKER
5	TR	TRANSFORMER
4	EOCR1	REF. COMP. OVERLOAD RELAY
3	MC1	
2	MCCB1	MOLDED CASE CIRCUIT BREAKER
1	M1	REF. COMPRESSOR

*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	DWG	CHK	APP'D	APP'D
1	2020. 09. 23.	ISSUED FOR REFERENCE				

PROJECT
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MANUFACTURER
GSA
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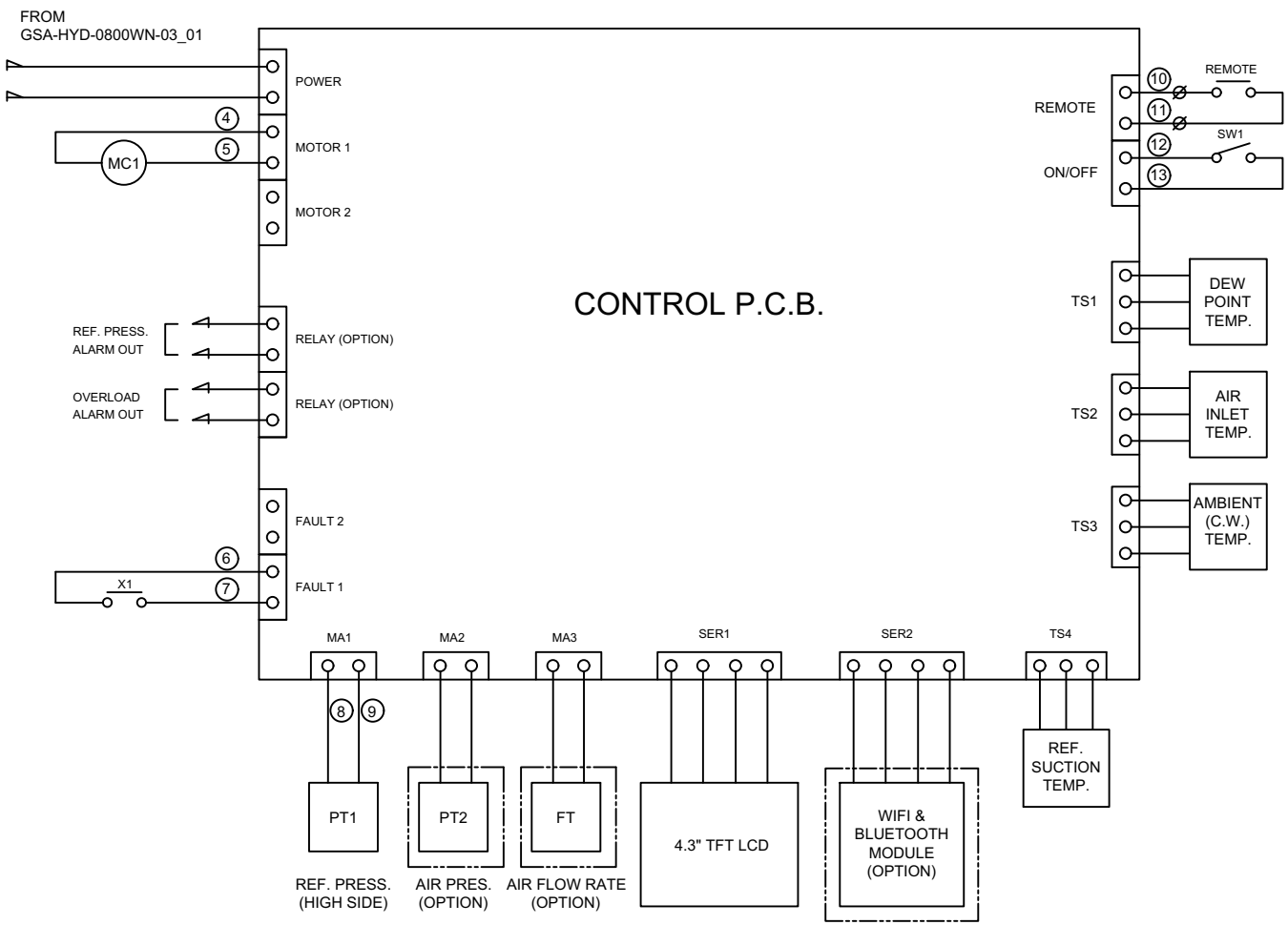
TITLE
WIRING DRAWING

ITEM NO.	HYD-800WN	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0800WN-03_01	1

(A4 : 297mm x 210mm)

DWG NO. GSA-HYD-0800WN-03 _02



POWER SOURCE
AC 380/440V, 3Ph, 50/60Hz

NO.	SYMBOL	DESCRIPTION
10	X1, X2	RELAY
9	DRAIN	CONDENSATE WATER DRAIN
8	C.H.	REF. COMP. HEATER
7	PM	REF. COMP. PROTECTION MODULE
6	CB1	CIRCUIT BREAKER
5	TR	TRANSFORMER
4	EOCR1	REF. COMP. OVERLOAD RELAY
3	MC1	REF. COMP. MAGNETIC CONTACTOR
2	MCCB1	MOLDED CASE CIRCUIT BREAKER
1	M1	REF. COMPRESSOR

*REVERSE PHASE WARNING

Be sure to check the operating condition of the refrigerant compressor.

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PROJECT
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MANUFACTURER
GSA
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TITLE
WIRING DRAWING

ITEM NO.	HYD-800WN	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0800WN-03_02	1

(A4 : 297mm x 210mm)