	Refrigerated Air Chiller	Rev.	Date	Prepared By	Checked By	Approved By
GSA Global Standard Air & Gas		A	2020.09.22	WOO.I.H.	JO.S.J.	KIM.H.W.
		B				
	Air Cooled Type	C				
		D				

Project Name	-	Model Name	HYD-250CH

1	**SPECIFICATION**					
2	Supply Voltage	380V	Inlet Flow Rate	39		Nm3/min
3	Phase	3PH	Inlet Pressure	7		barg
4	Frequency	60Hz	Inlet Temp.	32		℃
5	Control use	220V	Inlet Air Condition	Dried Air		
6	Fulid	Compressed Air	Outlet Flow Rate	39		Nm3/min
7	Location	Indoor	Outlet Pressure	6.8		barg
8	Design Code	Maker STD.	Outlet Temp.	10		℃
9	Area Class	Non-Hazardous	Pressure Drop	0.2		bar
10			Design Pressure	14		barg
11			Design Temperature	70		℃
12			Ambient Temperature	32		℃
13	**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	240		kg
16	Ref. Compressor Capacity	5 HP	Power Consumption	4.4		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		1 EA	Drain Connection(Option)	15A	PT Female Screw	
20	Condenser Fan Size	600 mm	Color (Munsell)	5.7PB 4.1/9.9		
21	Condenser Capacity	5 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						
27						
28	**STANDRAD FEATURES AND CONTROL**					
29	Ref. Compressor	YES	Ref. Pressure Gauge	YES		
30	Air Cooled Condenser	YES	Air Pressure Gauge	YES		
31	Fan Motor	YES	Hot Gas Bypass Valve	NO		
32	Ref. Pressure Transmitter	YES	Suction Line Accumulator	YES		
33	Liquid Ref. Receiver	YES	Oil Separator	NO		
34	Filter Dryer	YES	4.3" TFT LCD	YES		
35	Moisture Indicator	YES	PCB Controller	YES		
36	Expansion Valve	YES				
37	Heat Exchanger	YES				
38	Temperature Sensor	YES				
39	**NOTES**					
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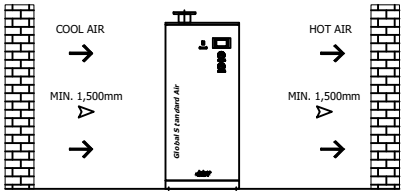
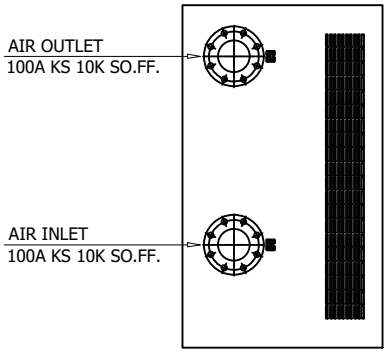
46						

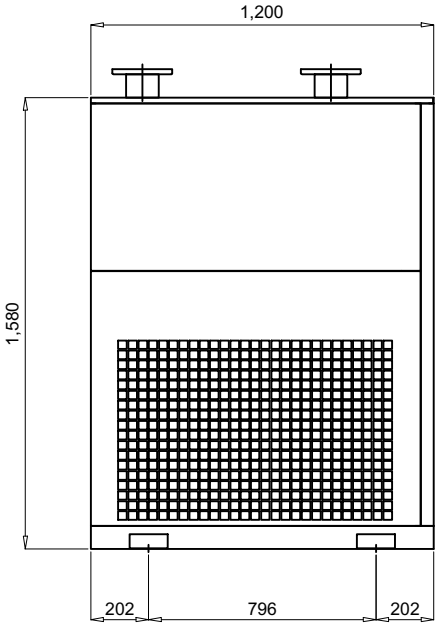
DWG NO. GSA-HYD-0250CH-01

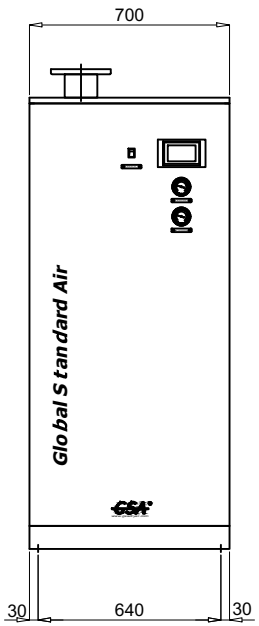
COOLING AIR DIRECTION

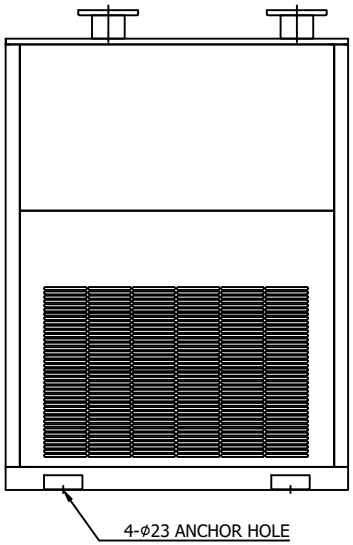


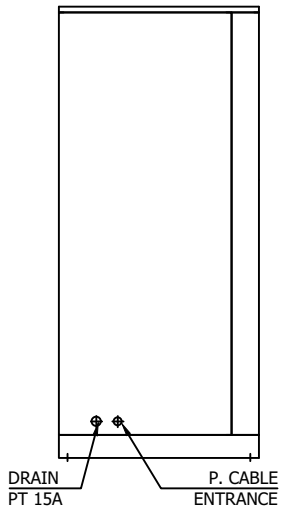
SPECIFICATION	
INLET/OUTLET AIR TEMP.	32°C / 10°C
INLET AIR PRESSURE	7 barg
INLET AIR CONDITION	DRIED AIR
CAPACITY	39.0 Nm^3/min
IN/OUT CONNECTION	100A KS 10K SO.FF.
DIMENSION(WXDXH, mm)	700 X 1,200 X 1,580
WEIGHT	240 kg
POWER CONSUMPTION	4.4 kW
POWER SUPPLY	380/440V - 3PH - 50/60Hz











REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D	APP'D
1	2020. 09. 21.	ISSUED FOR REFERENCE					

PROJECT

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MANUFACTURER

GSA
Global Standard Air & Gas

TITLE

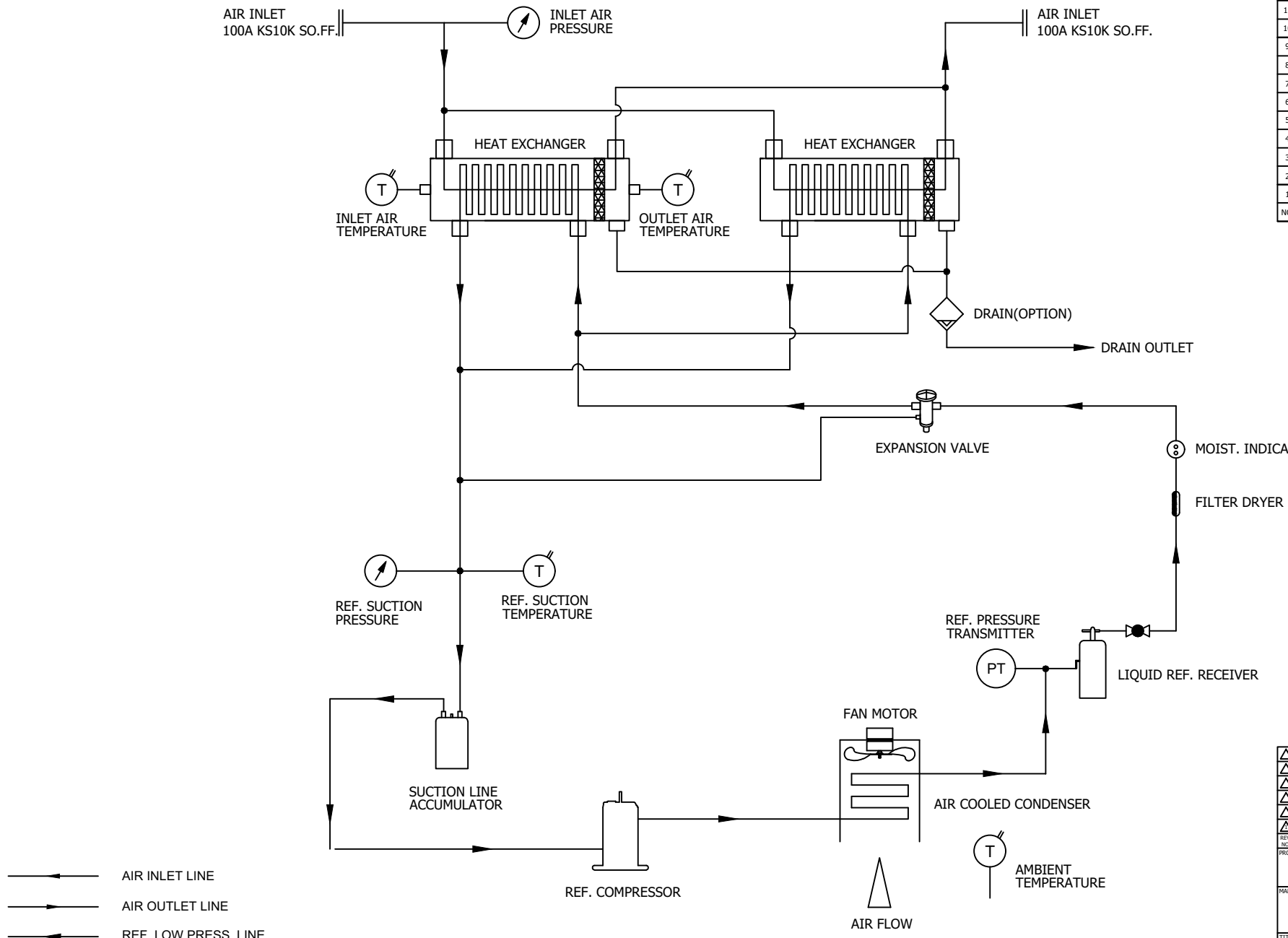
OUTLINE DRAWING

ITEM NO.	HYD-250CH	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0250CH-01	1

(A4 : 297mm x 210mm)

DWG NO. GSA-HYD-0250CH-02

INLET/OUTLET AIR TEMP.		32°C / 10°C	
INLET AIR PRESSURE		7 barg	
INLET AIR CONDITION		DRIED AIR	
CAPACITY		39.0 Nm³/min	
12	DRAIN	OPTION	1
11	SUCTION LINE ACCUMULA.	-	1
10	REF. PRESS. GAUGE	LOW SIDE	1
9	HEAT EXCHANGER	150 HP	2
8	EXPANSION VALVE	5 TON	1
7	MOIST. INDICATOR	1/2"	1
6	FILTER DRYER	1/2"	1
5	REF. PRESSURE TRANSMIT.	-1 ~ 35 BARG	1
4	LIQUID REF. RECEIVER	-	1
3	FAN MOTOR	0.4KW 6P Φ600	1
2	A/C CONDENSER	5 HP	1
1	REF. COMPRESSOR	5 HP	1
NO.	PART NAME	DESCRIPTION	QTY



REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D	APP'D
1	2020. 09. 21.	ISSUED FOR REFERENCE					

PROJECT

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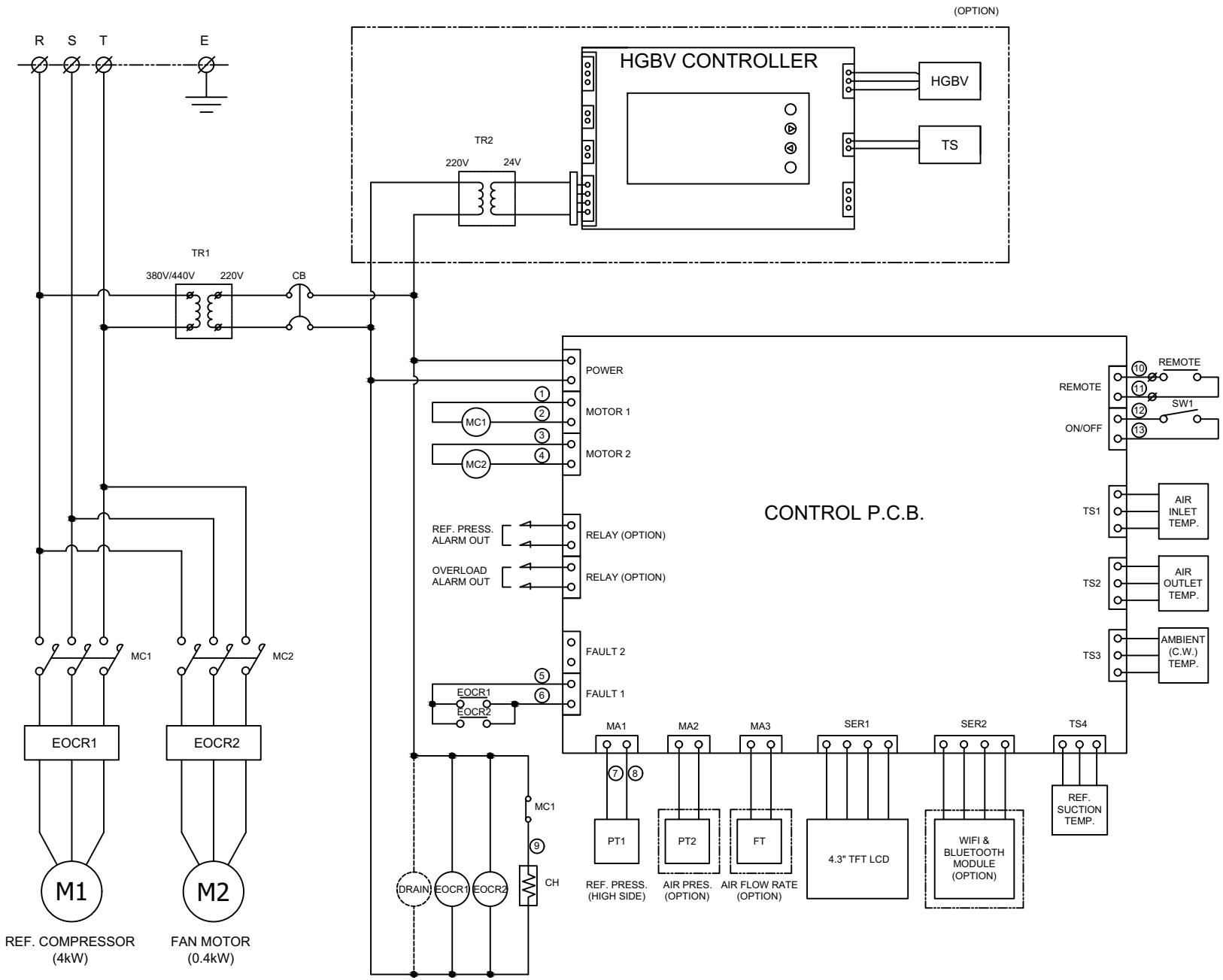
TITLE

PIPING & INSTRUMENTATION DRAWING

ITEM NO.	HYD-250CH	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0250CH-02	1

(A4 : 297mm x 210mm)

DWG NO. GSA-HYD-0250CH-03



POWER SOURCE
AC 220/380/440V, 3Ph, 50/60Hz

NO.	SYMBOL	DESCRIPTION
11	DRAIN	OPTION
10	CH	REF. COMP. HEATER
9	PT1	REF. PRESSURE TRANSMITTER
8	TS1 ~ TS4	TEMP. SENSOR INPUT
7	SW1	START/STOP SWITCH
6	CB	CIRCUIT BREAKER(CONTROL)
5	TR1	TRANSFORMER
4	EOCR1, EOCR2	REF. COMPRESSOR OVERLOAD RELAY
3	MC1, MC2	MAGNETIC CONTACTOR
2	M2	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.

REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D	APP'D
1	2020. 09. 21.	ISSUED FOR REFERENCE					

PROJECT

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MANUFACTURER

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TITLE

WIRING DRAWING

ITEM NO.	HYD-250CH	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0250CH-03	1

(A4 : 297mm x 210mm)