

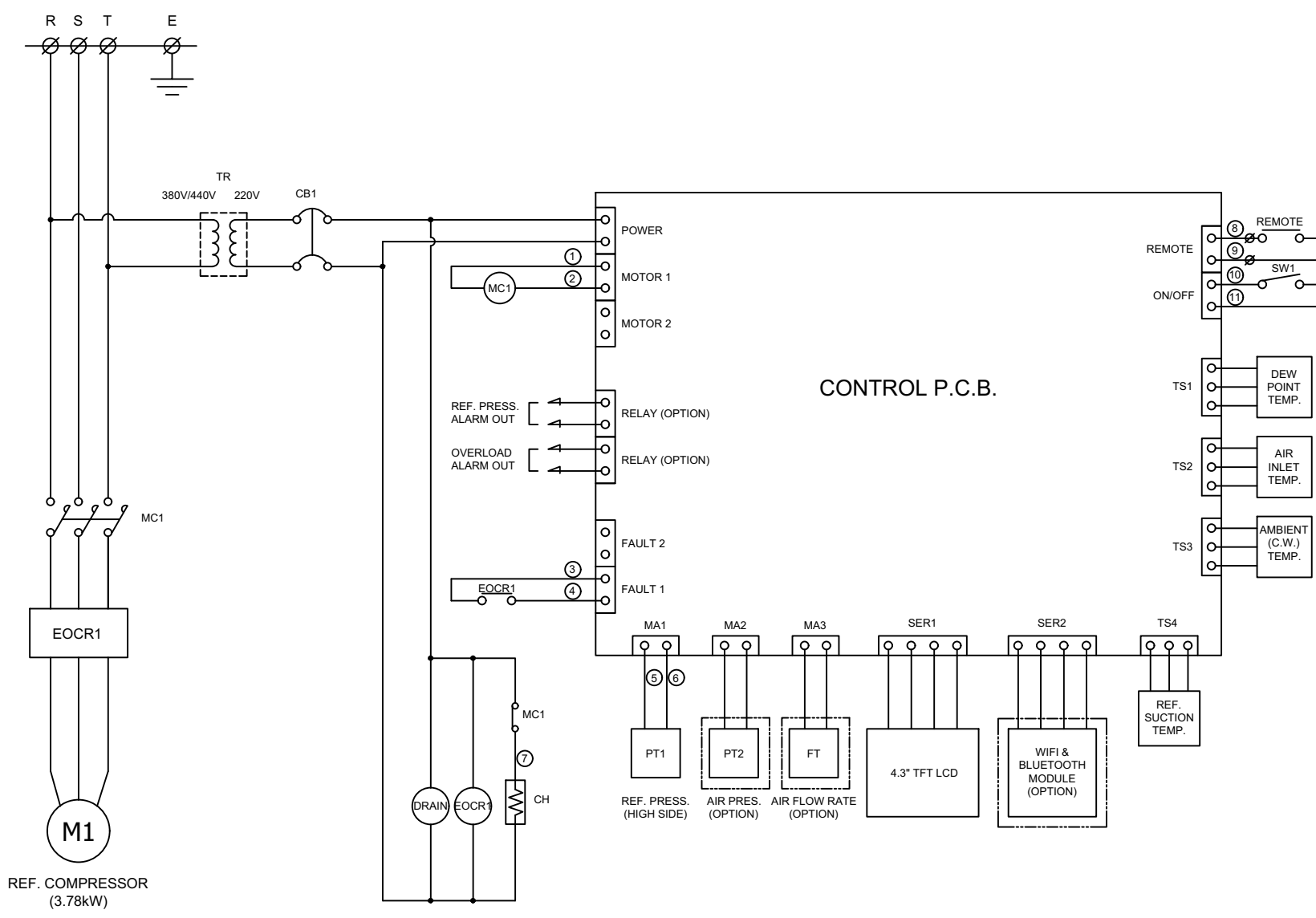


**Refrigerated Air Dryer
for High Temp.
Water Cooled Type**

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-150HTW
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SPECIFICATION				
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2	Supply Voltage	380V	Inlet Flow Rate	21 Nm3/min
3	Phase	3PH	Inlet Pressure	7 barg
4	Frequency	60Hz	Inlet Temperature	45 °C
5	Control use	220V	Outlet Flow Rate	21 Nm3/min
6	Fulid	Compressed Air	Outlet Pressure	6.8 barg
7	Location	Indoor	Outlet Temperature	33±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	51 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)	550 X 1,200 X 1,447 mm
15	Ref. Compressor Type	Scroll	Weight	220 kg
16	Ref. Compressor Capacity	5 HP	Power Consumption	3.78 kW
17	Condenser Type	Water Cooled	Inlet Connection	65A PT Female Screw
18	Condenser Capacity	5 HP	Outlet Connection	65A PT Female Screw
19	Heat Exchanger Type	Block	Cooling Water Connection	25A 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	Electric		
STANDRAD FEATURES AND CONTROL				
25	Ref. Compressor	YES	Suction Line Accumulator	YES
26	Water Cooled Condenser	YES	Hot Gas Bypass Valve	YES
27	Cooling Water Regulating Valve	YES	Oil Separator	NO
28	Liquid Ref. Receiver	YES	PCB Controller	YES
29	Filter Dryer	YES		
30	Expansion Valve	YES		
31	Heat Exchanger	YES		
32	Ref. Pressure Gauge	YES		
33	Ref. Dual Pressure Switch	YES		
34	Auto Drain	YES		
NOTES				
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NO.	SYMBOL	DESCRIPTION
POWER SOURCE AC 380/440V, 3Ph, 50/60Hz		
10	PT1	REF. PRESSURE TRANSMITTER
9	TR	TRANSFORMER
8	SW1	SYSTEM ON/OFF SWITCH
7	CH	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

***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	ENGR	CHK	APPD	APPD	APPD
2020.09.28		ISSUED FOR REFERENCE					

PROJECT: -

MANUFACTURER: **GSA**
Global Service Automation & Control

TITLE: **WIRING DRAWING**

ITEM NO.	HYD-150HTW	DWG NO.	GSA-HYD-0150HTW-03	REV.	△
SCALE	NONE				

(A4 : 297mm x 210mm)