	Refrigerated Air Dryer for High Temp.	Rev.	Date	Prepared By	Checked By	Approved By
GSA Global Standard Air & Gas		1	2020.09.18	WOO.I.H.	JO.S.J.	KIM.H.W.
		2				
	Air Cooled Type	3				
		4				

Project Name	-	Model Name	HYD-600HT

1	**SPECIFICATION**					
2	Supply Voltage	380V	Inlet Flow Rate	85		Nm3/min
3	Phase	3PH	Inlet Pressure	7		barg
4	Frequency	60Hz	Inlet Temp.	45		℃
5	Control use	220V	Outlet Flow Rate	85		Nm3/min
6	Fulid	Compressed Air	Outlet Pressure	6.8		barg
7	Location	Indoor	Outlet Temp.	33±5		℃
8	Design Code	Maker STD.	Pressure Drop	0.2		bar
9	Area Class	Non-Hazardous	Outlet Dew Point	2~10		℃
10			Design Pressure	9.7		barg
11			Design Temperature	70		℃
12			Ambient Temperature	32		℃
13	**CONSTRUCTION**					
14	Refrigerant	R-22	Dimension (W x D x H)	1,200 X 2,100 X 1,825		mm
15	Ref. Compressor Type	Scroll	Weight	1,200		kg
16	Ref. Compressor Capacity	15 HP	Power Consumption	14.2		kW
17	Condenser Type	Air Cooled	Inlet Connection	150A	KS 10K SO.FF.	
18	Condenser Fan Motor	0.4 kW	Outlet Connection	150A	KS 10K SO.FF.	
19		2 EA	Drain Connection	15A	PT Female Screw	
20	Condenser Fan Size	600 mm	Color (Munsell)	5.7PB 4.1/9.9		
21	Condenser Capacity	20 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	Temp. Control Device	Hot Gas Bypass Valve				
27	Drain Trap Type	Level Sensor				
28	**STANDRAD FEATURES AND CONTROL**					
29	Ref. Press. Transmitter	YES	Ref. Compressor	YES		
30	Ref. Liquid Filter Dryer	YES	Expansion Valve	YES		
31	Overload Relay	YES	Hot Gas Bypass Valve	YES		
32	PCB Controller	YES	Air Cooled Condenser	YES		
33	4.3" TFT LCD	YES	Accumulator with Heat Exchanger	YES		
34	Air Pressure Gauge	YES	Liquid Ref. Receiver	NO		
35	Ref. Pressure Gauge	YES	Oil Separator	YES		
36	Dryer Start/Stop Switch	YES	Circuit Breaker	YES		
37	Moisture Indicator	YES	Ref. Compressor Heater	YES		
38	Drain	YES				
39	**NOTES**					
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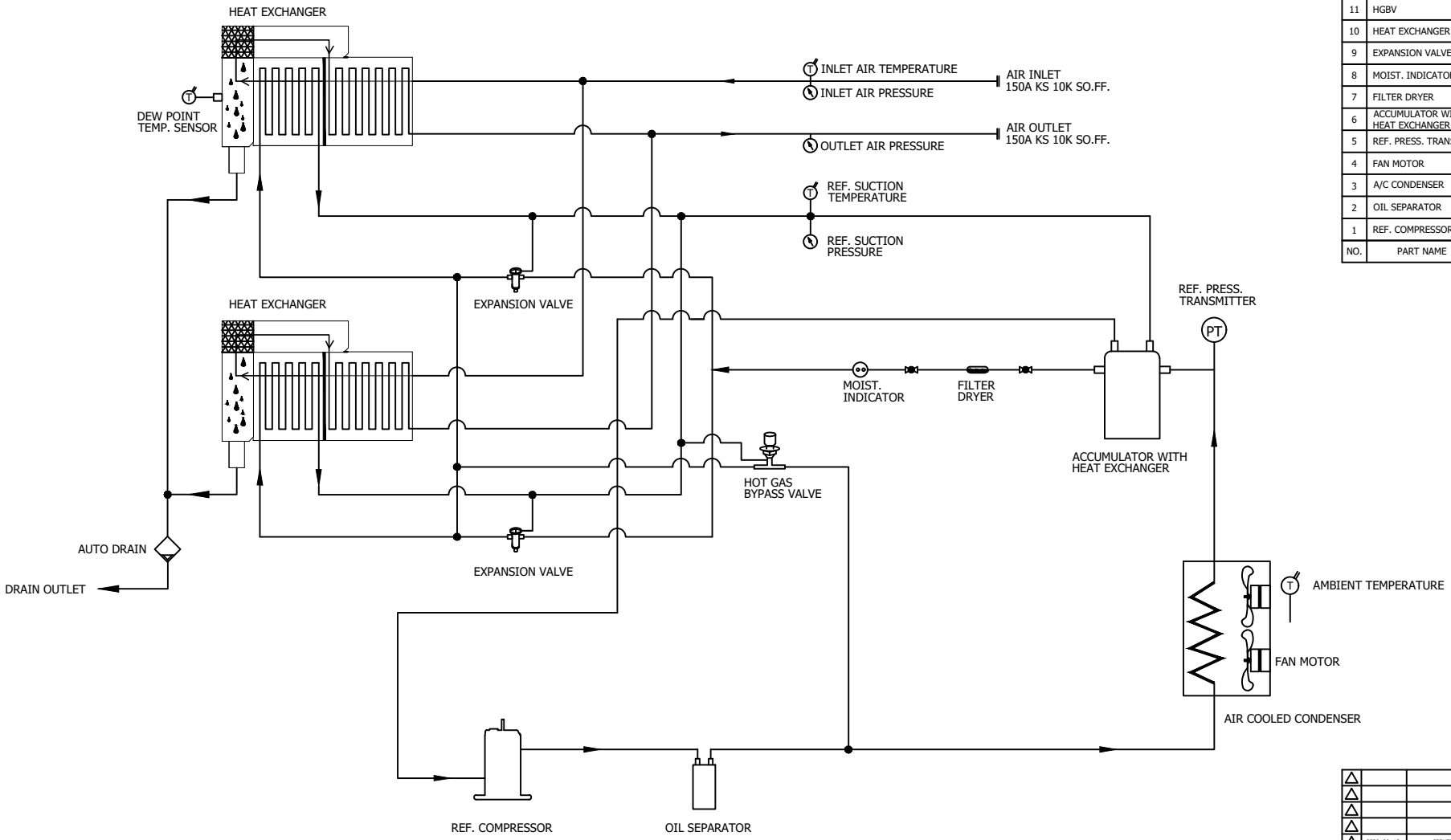
DWG NO. GSA-HYD-0600HT-01

DEW POINT	2~10℃ @ PDP
INLET AIR PRESSURE	7.0 barg
INLET AIR TEMPERATURE	45℃
CAPACITY	85.0 Nm³/min

NO.	PART NAME	DESCRIPTION	QTY
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	FAN MOTOR	0.4KW 6P ⌀600	2
3	A/C CONDENSER	20 HP (CONDENSING CAPACITY)	1
2	OIL SEPARATOR	-	1
1	REF. COMPRESSOR	15 HP (COOLING CAPACITY)	1



AIR INLET LINE

AIR OUTLET LINE

REF. LOW PRESS. LINE

REF. HIGH PRESS. LINE

REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D	APP'D
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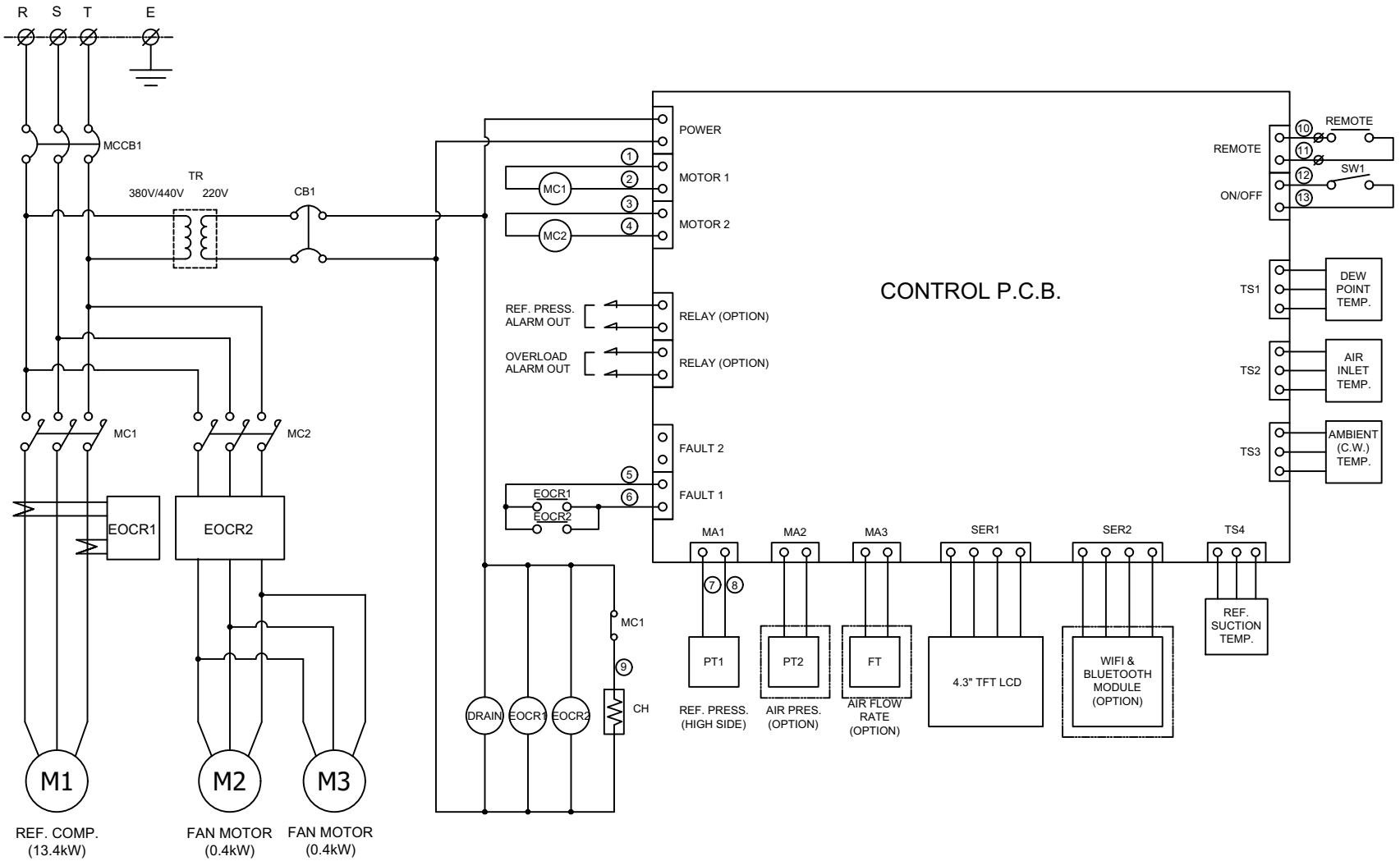
TITLE

PIPING & INSTRUMENTATION DRAWING

ITEM NO.	HYD-600HT	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0600HT-01	1

(A4 : 297mm x 210mm)

DWG NO. GSA-HYD-0600HT-01



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

NO.	SYMBOL	DESCRIPTION
12	PT1	REF. PRESSURE TRANSMITTER
11	TR	TRANSFORMER
10	SW1	SYSTEM ON/OFF SENSOR
9	CH	REF. COMP. HEATER
8	DRAIN	AUTO DRAIN VALVE
7	TS1 ~ TS4	TEMP. SENSOR
6	CB1	CIRCUIT BREAKER(CTRL)
5	MCCB1	CIRCUIT BREAKER(MAIN)
4	MC1, MC2	MAGNETIC CONTACTOR
3	EOCR1, EOCR2	OVERLOAD RELAY
2	M2, M3	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.

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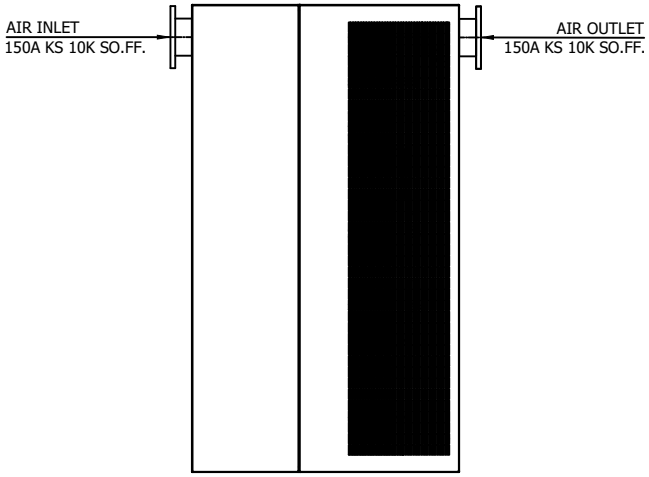
WIRING DRAWING

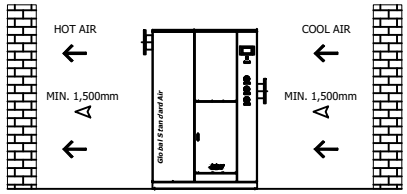
ITEM NO.	HYD-600HT	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0600HT-01	1

(A4 : 297mm x 210mm)

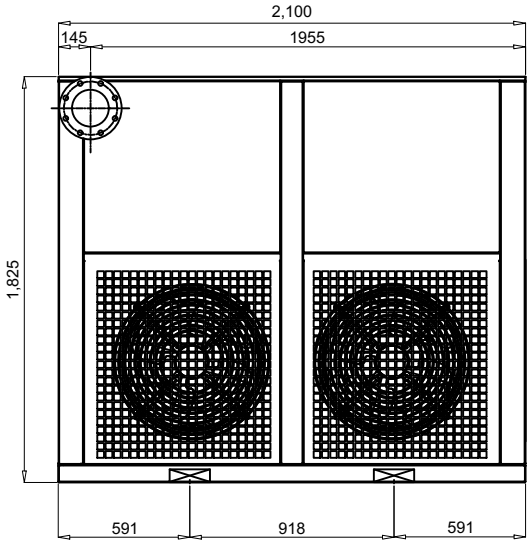
DWG NO. GSA-HYD-0600HT-01

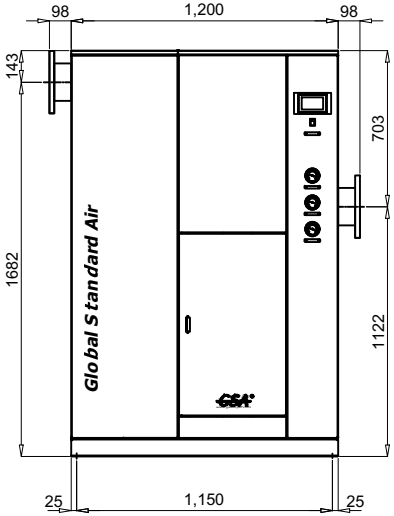


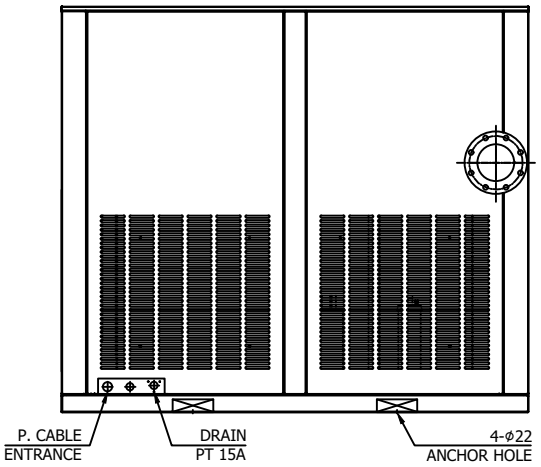
COOLING AIR DIRECTION

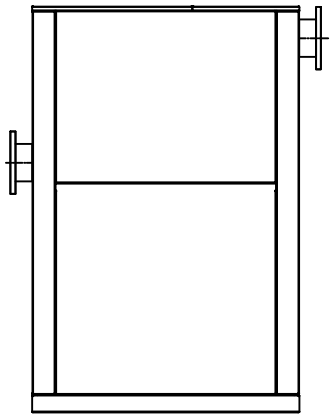


SPECIFICATION	
INLET TEMPERATURE	45°C
AMBIENT TEMPERATURE	32°C
INLET AIR PRESSURE	7 barg
CAPACITY	85 Nm³/min
IN/OUT CONNECTION	150A KS 10K SO.FF.
DIMENSION(WXDXH, mm)	1,200 X 2,100 X 1,825
WEIGHT	1,200 kg
POWER CONSUMPTION	14.2 kW
POWER SUPPLY	380/440V - 3PH - 50/60Hz









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TITLE

OUTLINE DRAWING

ITEM NO.	HYD-600HT	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0600HT-01	1

(A4 : 297mm x 210mm)