	Refrigerated Air Dryer	Rev.	Date	Prepared By	Checked By	Approved By
GSA Global Standard Air & Gas		1	2020.09.15	PARK.W.T.	PARK.W.T.	KIM.H.W.
		2				
	High Inlet Temp. Type	3				
		4				

Project Name	-	Model Name	HYD-100HTNS

1	**SPECIFICATION**					
2	Supply Voltage	380V		Inlet Flow Rate	14.2	Nm3/min
3	Phase	3PH		Inlet Pressure	7	barg
4	Frequency	60Hz		Inlet Temp.	60	℃
5	Control use	220V		Outlet Flow Rate	14.2	Nm3/min
6	Fulid	Compressed Air		Outlet Pressure	6.6	barg
7	Location	Indoor		Outlet Temp.	30±5	℃
8	Design Code	Maker STD.		Pressure Drop	0.4	bar
9	Area Class	Non-Hazardous		Outlet Dew Point	2~10	℃@PDP
10				Design Pressure	9.7	barg
11				Design Temperature	80	℃
12				Ambient Temperature	32	℃
13	**CONSTRUCTION**					
14	Refrigerant	R-22		Ref. Control Device	Capillary Tube	
15	Ref. Compressor Type	Recipro Hemertic		Temp. Control Device	Hot Gas Bypass Valve	
16	Ref. Compressor Capacity	2	HP	Drain Trap Type	Auto Float	
17	Condenser Type	Air Cooled		Dimension (W x L x H)	560 X 1,290 X 1,737	mm
18	Condenser Fan Motor	200	W	Weight	238	kg
19	Condenser Fan Size	Ø450	mm	Power Consumption	2.54	kW
20	Condenser Capacity	2	HP	Inlet Connection	50A	PT Female Screw
21	Condenser Material	Aluminum & Copper		Outlet Connection	50A	PT Female Screw
22	After Cooler Fan Motor	100	W	Drain Connection	15A	PT Female Screw
23		2	EA	Color (Munsell)	5.7PB 4.1/9.9	
24	After Cooler Fan Size	Ø350	mm		5.7PB 2.9/3.5	
25	Heat Exchanger Type	Block				
26	Heat Exchanger Material	Aluminum				
27	**STANDRAD FEATURES AND CONTROL**					
28	Fan Controller	YES		Ref. Compressor	YES	
29	Ref. High Pressure Switch	YES		Ref. Filter Dryer	YES	
30	Overload Relay	NO		Capillary Tube	YES	
31	Power Relay for A/C Fan Motor	YES		Hot Gas Bypass Valve	YES	
32	Air Pressure Gauge	NO		Air Cooled Condenser	YES	
33	Ref. Pressure Gauge	NO				
34	Moisture Indicator	NO				
35	After Cooler	YES				
36	Pre Filter	YES				
37	After Filter	YES				
38	Drain	YES				
39	**NOTES**					
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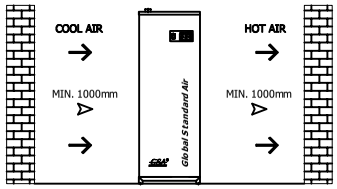
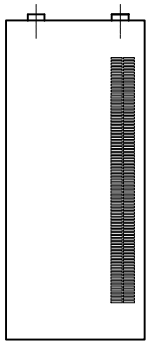
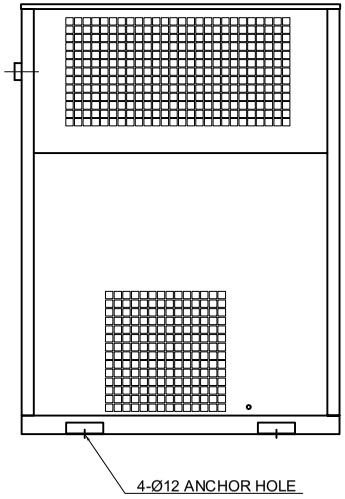
DWG NO. GSA-HYD-0100HTNS-01

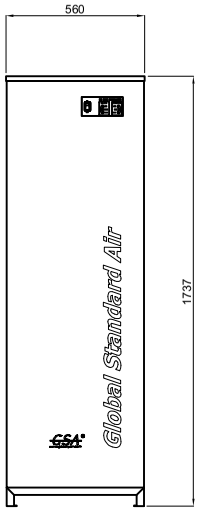
COOLING AIR DIRECTION

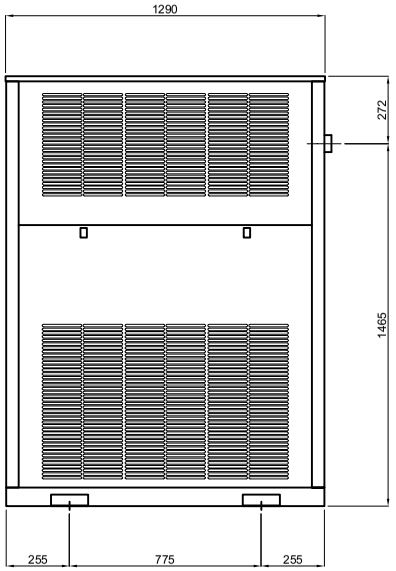


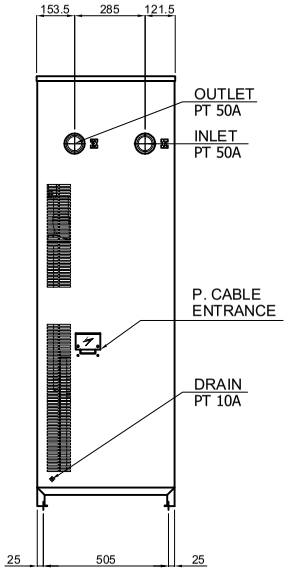
SPECIFICATION	
INLET AIR TEMPERATURE	60°C
AMBIENT TEMPERATURE	32°C
INLET AIR PRESSURE	7 barg
CAPACITY	14.2 Nm³/min
IN/OUT CONNECTION	PT 50A
DIMENSION(WXDXH, mm)	560X1290X1737
WEIGHT	238 kg
POWER CONSUMPTION	2.54 kW
POWER SUPPLY	380V - 3PH - 60Hz











REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D	APP'D
2	2020. 03. 20.	CHANGE OF CONTROL PCB					
1	2018. 11. 26.	ISSUED FOR REFERENCE					

PROJECT: -

MANUFACTURER: GSA Global Standard Air & Gas

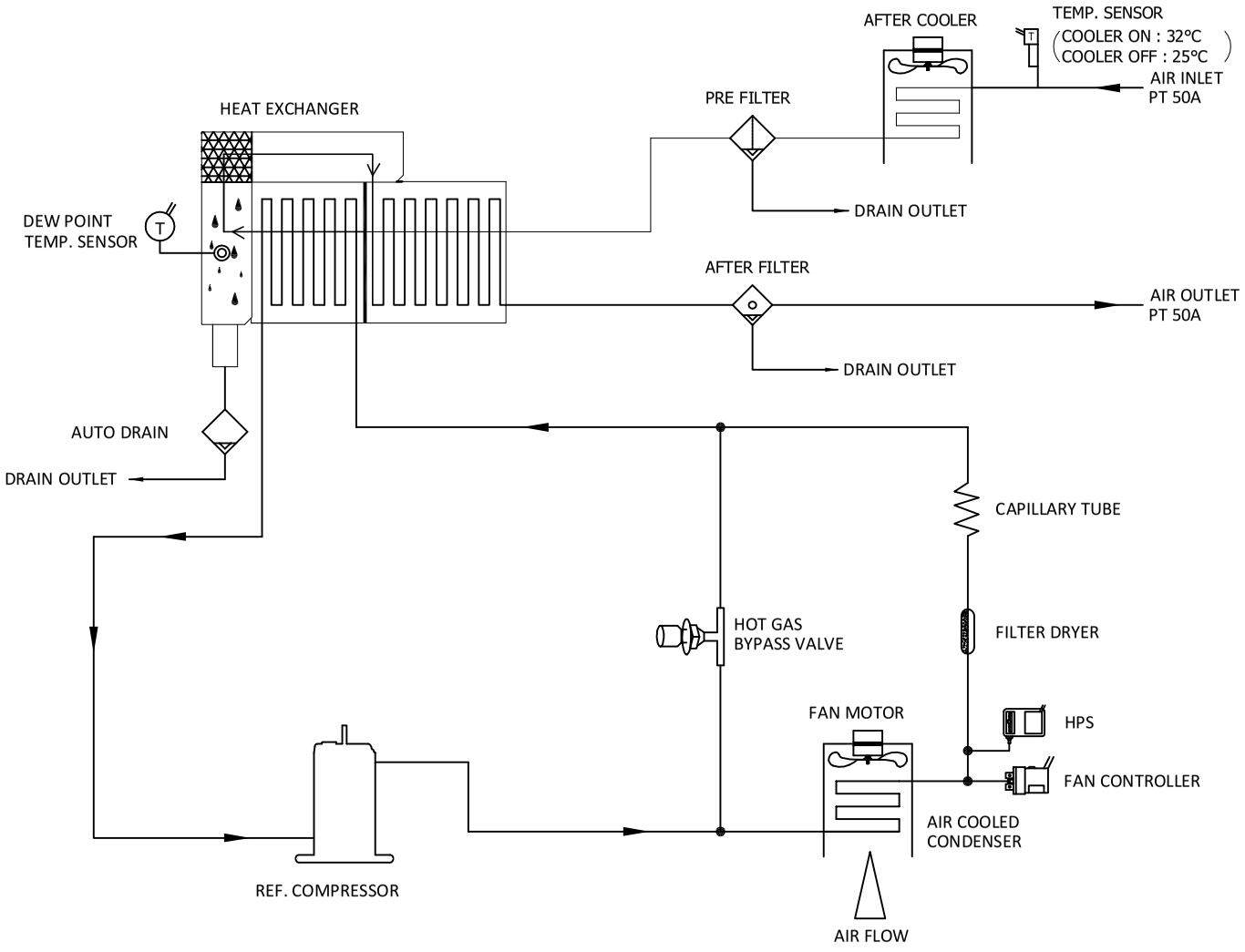
TITLE: OUTLINE DRAWING

ITEM NO.	HYD-100HTNS	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0100HTNS-01	2

(A4 : 297mm x 210mm)

DWG NO. GSA-HYD-0100HTNS-02

DEW POINT		2~10°C @ PDP	
INLET AIR PRESSURE		7.0 BARG	
INLET AIR TEMPERATURE		60°C	
CAPACITY		14.2 Nm³/min	
14	AFTER FILTER	1 MICRON	1
13	PRE FILTER	5 MICRON	1
12	AFTER COOLER	A/C-100	1
11	TEMP. SENSOR	COOLER CONTROL	1
10	CAPILLARY TUBE	-	1
9	HGBV	-	1
8	AUTO DRAIN	IN : PT 15A / OUT : 6A	1
7	HEAT EXCHANGER	100HP	1
6	FILTER DRYER	3/8"	1
5	HPS	24 BARG	1
4	FAN CONTROLLER	12 ~ 18 BARG	1
3	FAN MOTOR	200W 6P φ450	1
2	A/C CONDENSER	2 HP (CONDENSING CAPACITY)	1
1	COMPRESSOR	2 HP (COOLING CAPACITY)	1
NO.	PART NAME	DESCRIPTION	QTY



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
2	2020. 09. 15.	PART'S NUMBER DELETE					
1	2018. 11. 26.	ISSUED FOR REFERENCE					

PROJECT

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MANUFACTURER

GSA
Global Standard Air & Gas

TITLE

PIPING & INSTRUMENTATION DRAWING

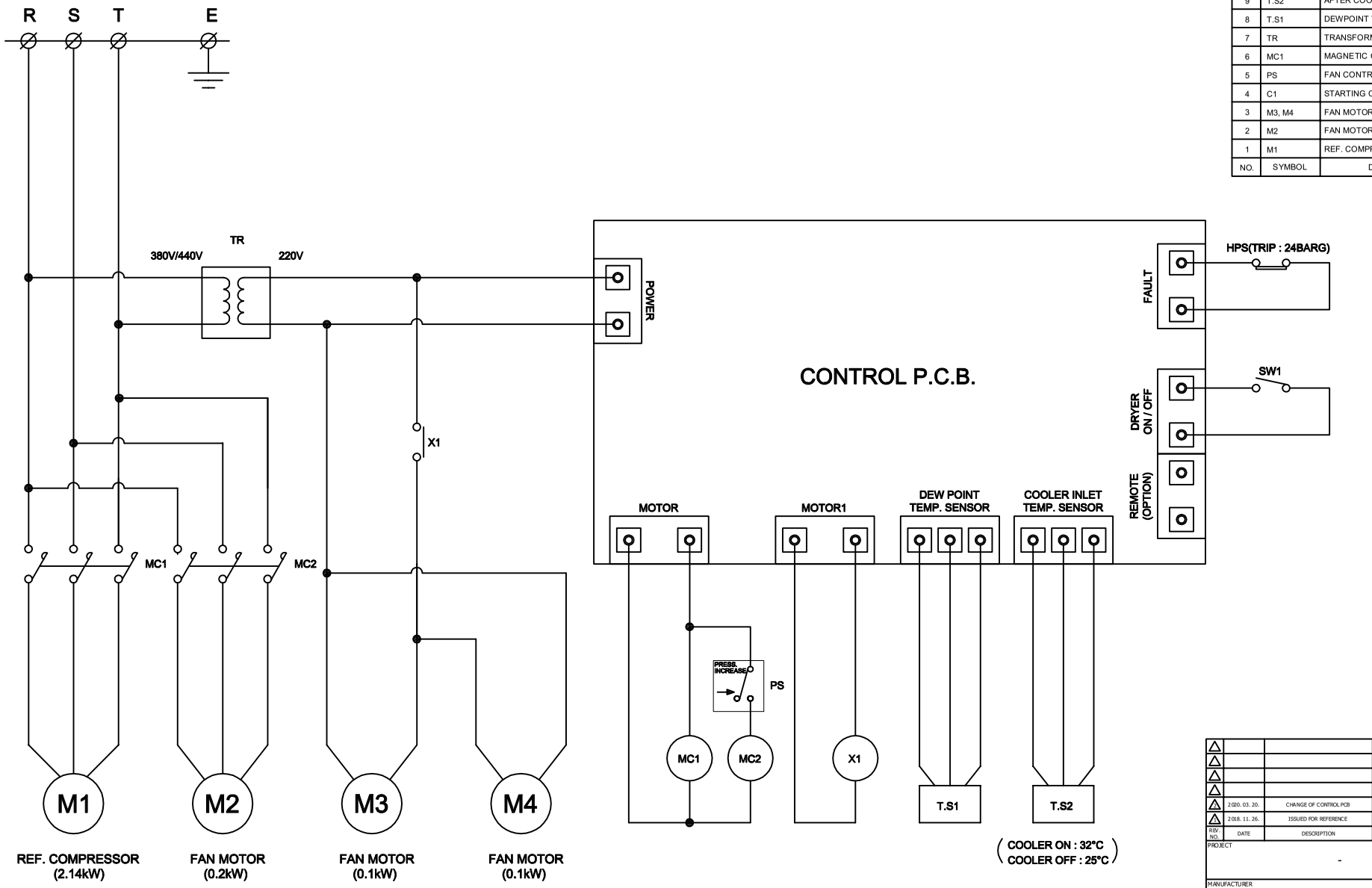
ITEM NO.	HYD-100HTNS	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0100HTNS-02	1

(A4 : 297mm x 210mm)

DWG NO. GSA-HYD-0100HTNS-03

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

NO.	SYMBOL	DESCRIPTION
12	SW1	DRYER ON/OFF SWITCH
11	X1	MINI POWER RELAY
10	HPS	HIGH PRESS. SWITCH
9	T.S2	AFTER COOLER TEMP. SENSOR
8	T.S1	DEWPOINT TEMP. SENSOR
7	TR	TRANSFORMER(OPTION)
6	MC1	MAGNETIC CONTACTOR
5	PS	FAN CONTROLLER
4	C1	STARTING CAPACITOR
3	M3, M4	FAN MOTOR(AFTER COOLER)
2	M2	FAN MOTOR(CONDENSER)
1	M1	REF. COMPRESSOR



REV. NO.	DATE	DESCRIPTION	DWG	CHK	APP'D	APP'D	APP'D
2	2020. 03. 20.	CHANGE OF CONTROL PCB					
1	2018. 11. 26.	ISSUED FOR REFERENCE					

PROJECT: -

MANUFACTURER: GSA Global Standard Air & Gas

TITLE: WIRING DRAWING

ITEM NO.	HYD-100HTNS	DWG NO.	GSA-HYD-0100HTNS-03	REV. 2
SCALE	NONE			

(A4 : 297mm x 210mm)