



Refrigerated Air Dryer

Air Cooled Type

Rev.	Date	Prepared By	Checked By	Approved By
1	2019.01.15	LEE.S.M.	JO.S.J.	KIM.H.W.
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Project Name	-	Model Name	HYD-500N
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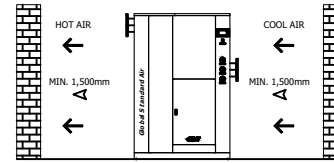
SPECIFICATION				
2	Supply Voltage	380V	Inlet Flow Rate	66 Nm ³ /min
3	Phase	3PH	Inlet Pressure	7 barg
4	Frequency	60Hz	Inlet Temp.	38 °C
5	Control use	220V	Outlet Flow Rate	66 Nm ³ /min
6	Fulid	Compressed Air	Outlet Pressure	6.8 barg
7	Location	Indoor	Outlet Temp.	28±5 °C
8	Design Code	Maker STD.	Pressure Drop	0.2 bar
9	Area Class	Non-Hazardous	Outlet Dew Point	2~10 °C
10			Design Pressure	9.7 barg
11			Design Temperature	70 °C
12			Ambient Temperature	32 °C
CONSTRUCTION				
14	Refrigerant	R-22	Dimension (W x L x H)	1,200 X 1,800 X 1,825 mm
15	Ref. Compressor Type	Scroll	Weight	940 kg
16	Ref. Compressor Capacity	13 HP	Power Consumption	11.7 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	15 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		
STANDRAD FEATURES AND CONTROL				
29	Ref. Pressure 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	Dual Pressure Switch	NO	Circuit Breaker	YES
37	Moisture Indicator	YES	Ref. Compressor Heater	YES
38	Drain	YES		
NOTES				
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T0-N0050-QAH-VSS
CON DWG

AIR INLET
150A KS 10K SO.FF.

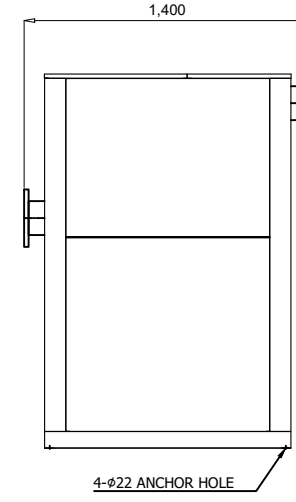
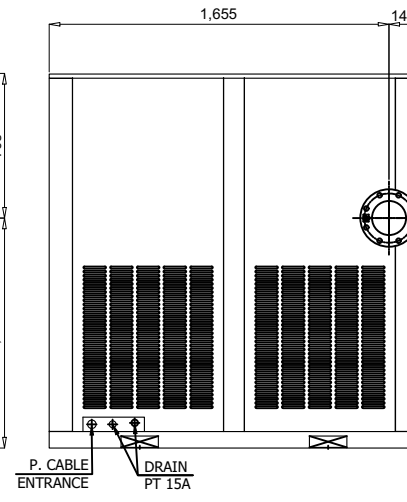
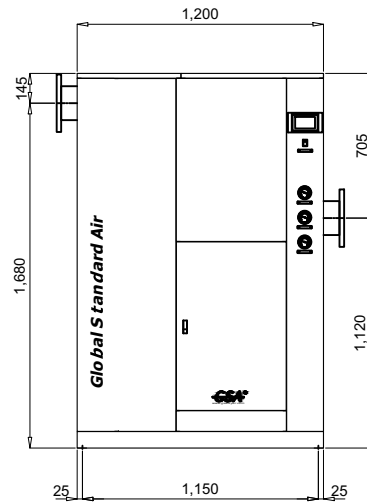
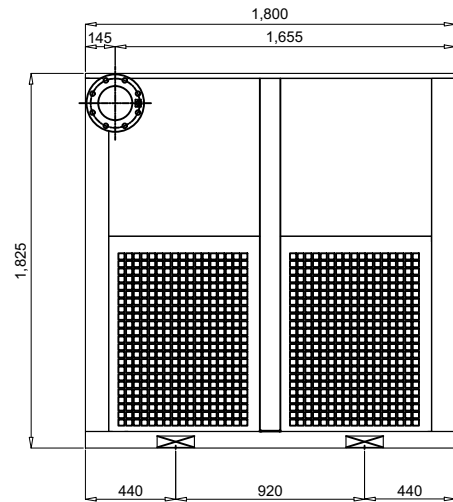
AIR OUTLET
150A KS 10K SO.FF.

COOLING AIR DIRECTION



SPECIFICATION

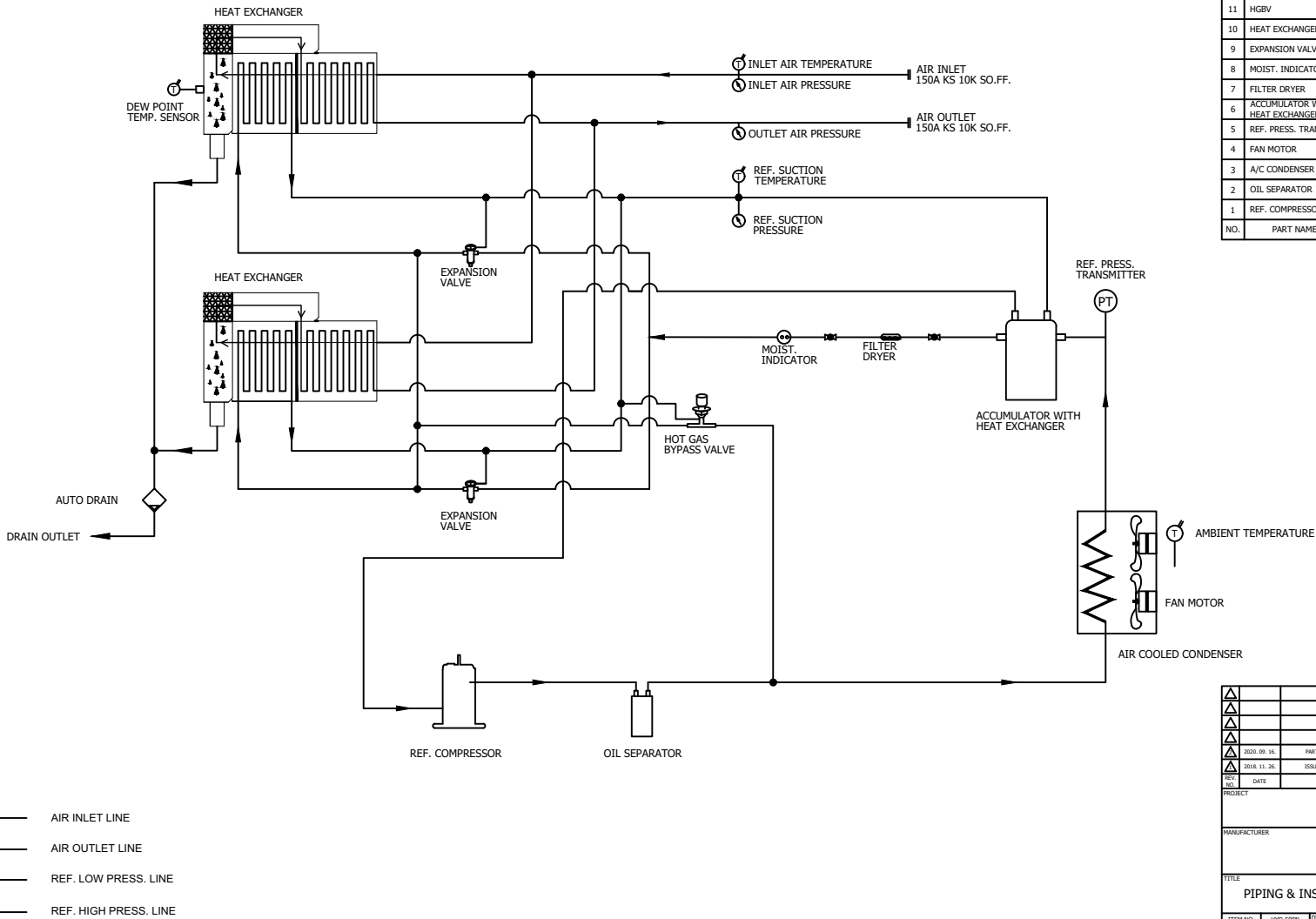
INLET AIR TEMPERATURE	38°C
AMBIENT TEMPERATURE	32°C
INLET AIR PRESSURE	7 barg
CAPACITY	66.0 Nm ³ /min
IN/OUT CONNECTION	150A KS 10K SO.FF.
DIMENSION(WXDXH, mm)	1,200 X 1,800 X 1,830
WEIGHT	940 kg
POWER CONSUMPTION	11.7 kW
POWER SUPPLY	380/440V - 3PH - 50/60HZ




REV.	DATE	DESCRIPTION	DWG	CHK	APPD	APPD
1	2018.11.26	ISSUED FOR REFERENCE				
PROJECT						
MANUFACTURER						
TITLE						
OUTLINE DRAWING						
ITEM NO.	HYD-SOON	DWG NO.		REV.		
SCALE	NONE	GSA-HYD-0500N-01				

(A4 : 297mm x 210mm)

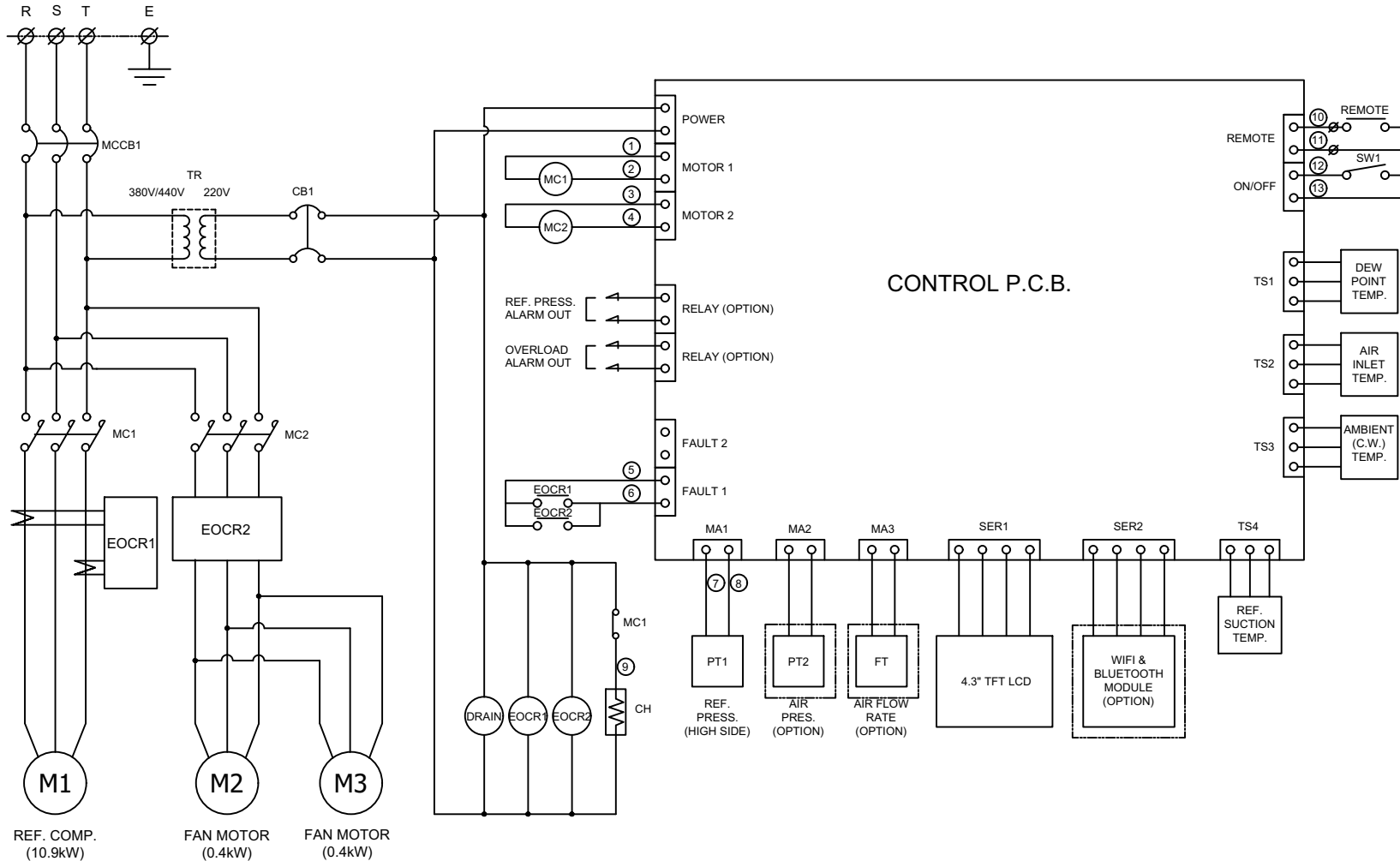
Z0-N0050-QAH-VSS
ON DWG



DEW POINT	2~10°C @ FDP		
INLET AIR PRESSURE	7.0 BARG		
INLET AIR TEMPERATURE	38°C		
CAPACITY	66.0 Nm ³ /min		
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	15 HP (CONDENSING CAPACITY)	1
2	OIL SEPARATOR	-	1
1	REF. COMPRESSOR	13 HP (COOLING CAPACITY)	1
NO.	PART NAME	DESCRIPTION	QTY

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△	2020. 09. 16.	PARTS NUMBER DELETE								
△	2018. 11. 26.	ISSUED FOR REFERENCE								
REV.	DATE	DESCRIPTION	ENG	CHK	APPD	APPD				
PROJECT										
MANUFACTURER										
 <small>Global Standard Air & Gas</small>										
TITLE										
PIPING & INSTRUMENTATION DRAWING										
ITEM NO.	HYD-0500N	DWG NO.	GSA-HYD-0500N-02							
SCALE	NONE									
										REV. △

(A4 : 297mm x 210mm)



POWER SOURCE AC 380/440V, 3Ph, 50/60Hz		
12	PT1	REF. PRESSURE TRANSMITTER
11	DRAIN	AUTO DRAIN VALVE
10	SW1	SYSTEM ON/OFF SWITCH
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
NO.	SYMBOL	DESCRIPTION

***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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△	2018. 11. 26.	ISSUED FOR REFERENCE							
REV. NO.	DATE	DESCRIPTION	DWG	CHK	APPD	APPD	APPD	APPD	APPD

PROJECT: -

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

TITLE: **WIRING DRAWING**

ITEM NO.	HYD-500N	DWG NO.	GSA-HYD-0500N-03	REV.	△
SCALE	NONE				