



Refrigerated Air Dryer

Air Cooled Type

Rev.	Date	Prepared By	Checked By	Approved By
A	2019.01.15	LEE.S.M.	JO.S.J.	KIM.H.W.
B				
C				
D				

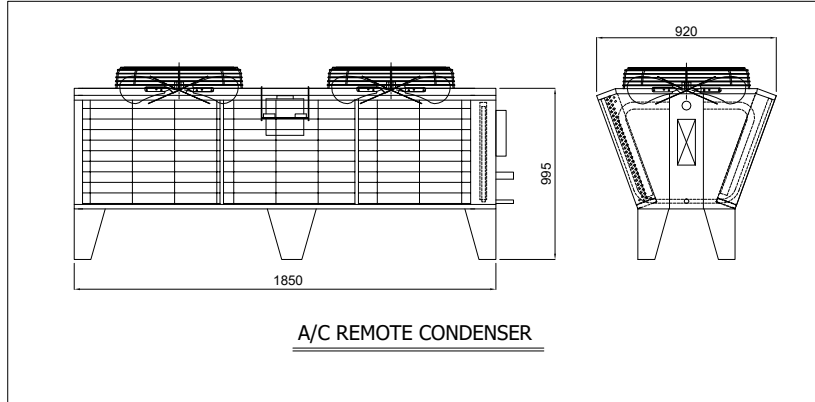
Project Name	-	Model Name	HYD-800N
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SPECIFICATION				
1				
2	Supply Voltage	380V	Inlet Flow Rate	120 Nm3/min
3	Phase	3PH	Inlet Pressure	7 barg
4	Frequency	60Hz	Inlet Temp.	38 °C
5	Control use	220V	Outlet Flow Rate	120 Nm3/min
6	Fulid	Compressed Air	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	Dryer Dimension (W x L x H)	1500 X 1900 X 2150 mm
15	Ref. Compressor Type	Scroll	R. Condenser Dim. (W x L x H)	1850 X 920 X 995 mm
16	Ref. Compressor Capacity	20 HP	Dryer Weight	1,200 kg
17	Condenser Type	Remote, Air Cooled	R. Condenser Weight	210 kg
18	Condenser Fan Motor	0.75 kW	Power Consumption	20 kW
19		2 EA	Inlet Connection	200A KS 10K SO.FF.
20	Condenser Fan Size	630 mm	Outlet Connection	200A KS 10K SO.FF.
21	Condenser Capacity	20 HP	Drain Connection	15A PT Female Screw
22	Condenser Material	Aluminum & Copper	Color (Munsell)	5.7PB 4.1/9.9
23	Heat Exchanger Type	Block		5.7PB 2.9/3.5
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	YES
34	Air Pressure Gauge	YES	Liquid Ref. Receiver	YES
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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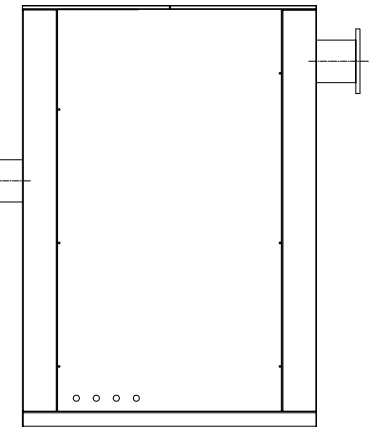
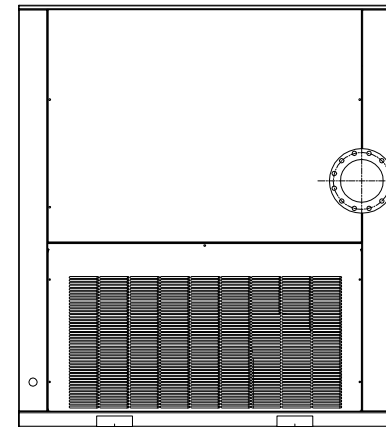
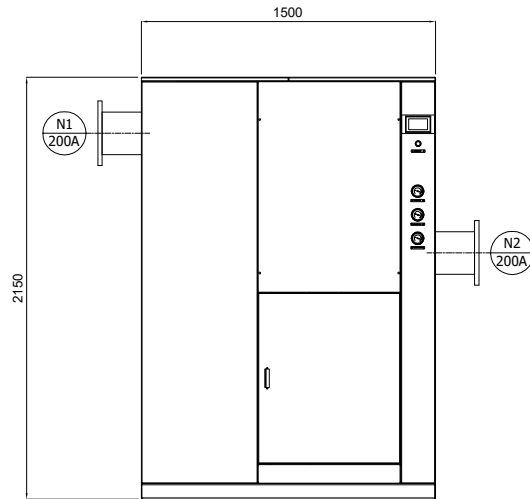
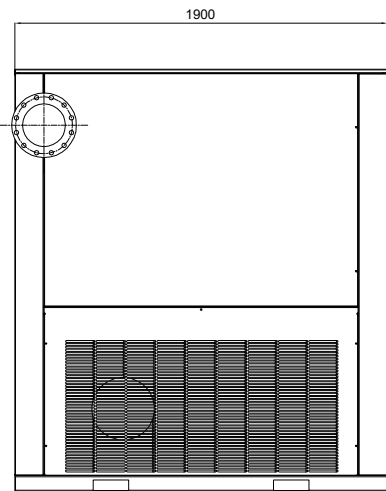
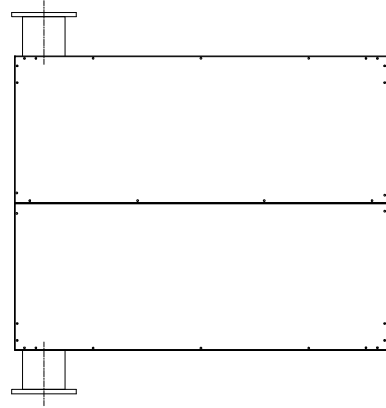
INLET AIR TEMPERATURE	38°C
AMBIENT TEMPERATURE	32°C
DEW POINT	2~10°C @ PDP
INLET AIR PRESSURE	7 barg
CAPACITY	120 Nm ³ /min
AIR IN/OUT CONNECTION	200A KS 10K SO.FF.
A/C REMOTE CONDENSER	20HP
DIMENSION(WXDXH, mm)	1,500 X 1,900 X 2150
DRYER / COND. WEIGHT	1,200 kg / 210 kg
POWER CONSUMPTION	20 kW
POWER SUPPLY	380V - 3PH - 50/60Hz

NOZZLE

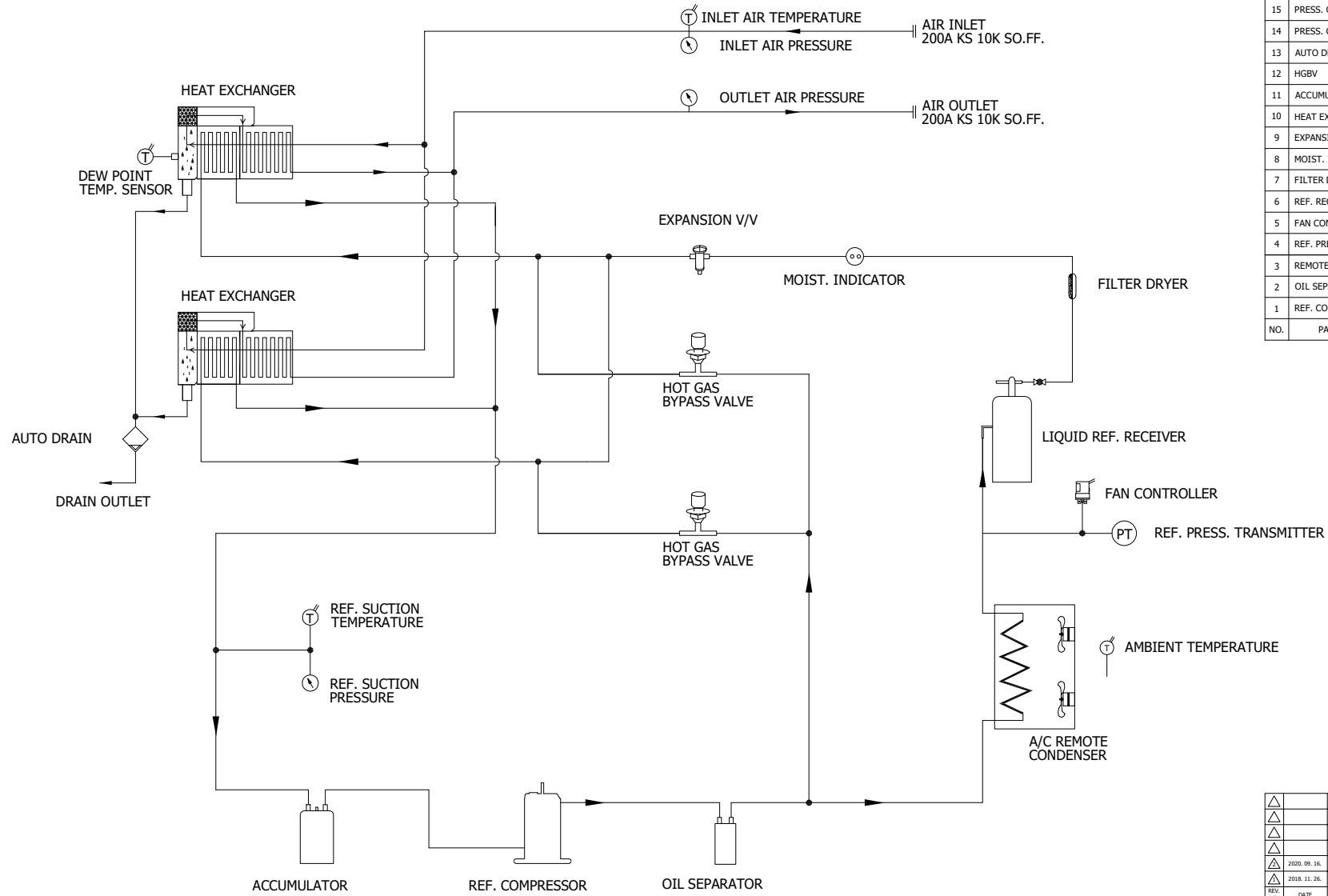
N1	AIR INLET	200A KS10K SO.FF.
N2	AIR OUTLET	200A KS10K SO.FF.



A/C REMOTE CONDENSER



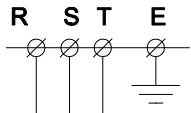
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△	2018. 11. 26.	ISSUED FOR REFERENCE								
REV. NO.	DATE	DESCRIPTION	DWG	CHK	APPD	APPD	APPD			
PROJECT										
MANUFACTURER										
TITLE										
OUTLINE DRAWING										
ITEM NO.	HYD-800N	DWG NO.	GSA-HYD-0800N-01				REV.			
SCALE	NONE								△	



- ← AIR INLET LINE
- AIR OUTLET LINE
- ← REF. LOW PRESS. LINE
- REF. HIGH PRESS. LINE

DEW POINT	2~10°C @ PDP		
INLET AIR PRESSURE	7.0 BARG		
INLET AIR TEMPERATURE	38°C		
CAPACITY	120 Nm ³ /min		
16	PRESS. GAUGE	OUTLET AIR	1
15	PRESS. GAUGE	INLET AIR	1
14	PRESS. GAUGE	REF. SUCTION	1
13	AUTO DRAIN	PT 15A	1
12	HGBV	-	2
11	ACCUMULATOR	-	1
10	HEAT EXCHANGER	400 HP	2
9	EXPANSION VALVE	20 TON	1
8	MOIST. INDICATOR	7/8"	1
7	FILTER DRYER	7/8"	1
6	REF. RECEIVER	-	1
5	FAN CONTROLLER	-	1
4	REF. PRESS. TRANSMIT.	-1 ~ 35 BAR	1
3	REMOTE CONDENSER	20 HP(COND. CAPACITY) (0.75KW, 6P, 630φ, 2EA)	1
2	OIL SEPARATOR	-	1
1	REF. COMPRESSOR	20 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. NO.	DATE	DESCRIPTION	ENG	CHK	APPD	APPD	APPD			
PROJECT										
MANUFACTURER										
TITLE										
PIPING & INSTRUMENTATION DRAWING										
ITEM NO.	HYD-800N	DWG NO.	GSA-HYD-0800N-02				REV.	△		
SCALE	NONE									



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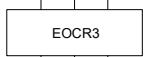
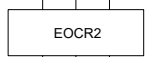
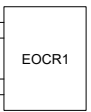
TR
380V 220V

CB1

MC1

MC2

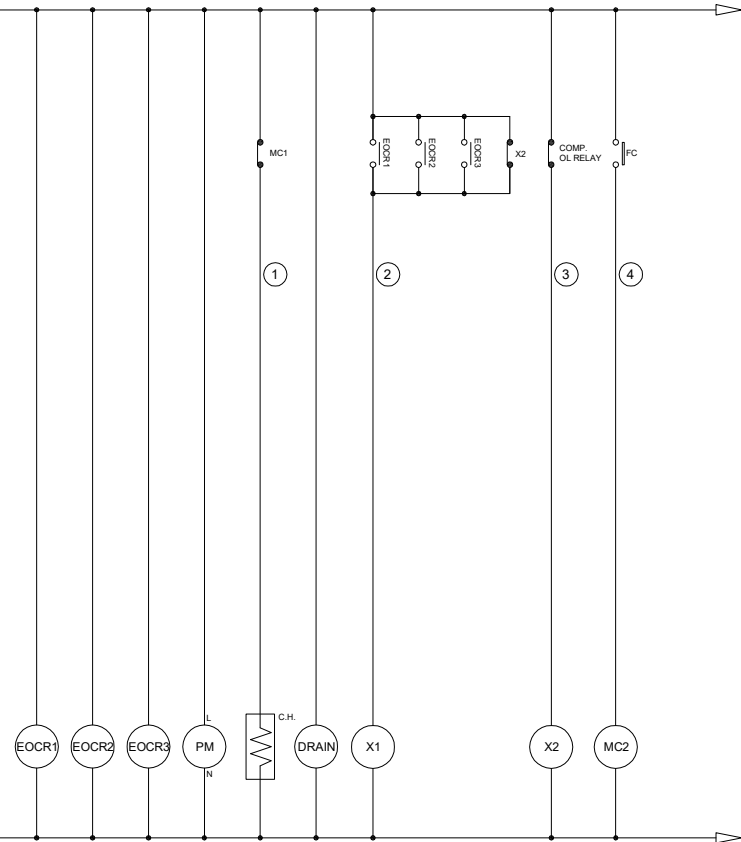
MC3



REF. COMPRESSOR
(18.5kW)

FAN MOTOR
(0.75kW)

FAN MOTOR
(0.75kW)



POWER SOURCE AC 380, 3Ph, 50/60Hz		
NO.	SYMBOL	DESCRIPTION
14	FC	FAN CONTROLLER
13	X1, X2	RELAY
12	DRAIN	CONDENSATE WATER DRAIN
11	C.H.	REF. COMP. HEATER
10	PM	REF. COMP. PROTECTION MODULE
9	CB1	CIRCUIT BREAKER
8	TR	TRANSFORMER
7	EOCR2, EOCR3	FAN MOTOR OVERLOAD RELAY
6	EOCR1	REF. COMP. OVERLOAD RELAY
5	MC2, MC3	FAN MOTOR MAGNETIC CONTACTOR
4	MC1	REF. COMP. MAGNETIC CONTACTOR
3	MCCB1	MOLDED CASE CIRCUIT BREAKER
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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△	2018. 11. 26.	ISSUED FOR REFERENCE							
REV. NO.	DATE	DESCRIPTION	DWG.	CHK.	APP'D.	APP'D.	APP'D.		
PROJECT									

MANUFACTURER

GSA
Global Standard Air & Gas

TITLE

WIRING DRAWING

ITEM NO.	HYD-800N	DWG NO.	GSA-HYD-0800N-03_1	REV.	△
SCALE	NONE				

1 (A4 : 297mm x 210mm)

POWER SOURCE	
AC 380, 3Ph, 50/60Hz	
14	FC FAN CONTROLLER
13	X1, X2 RELAY
12	DRAIN CONDENSATE WATER DRAIN
11	C.H. REF. COMP. HEATER
10	PM REF. COMP. PROTECTION MODULE
9	CB1 CIRCUIT BREAKER
8	TR TRANSFORMER
7	EOCR2, EOCR3 FAN MOTOR OVERLOAD RELAY
6	EOCR1 REF. COMP. OVERLOAD RELAY
5	MC2, MC3 FAN MOTOR MAGNETIC CONTACTOR
4	MC1 REF. COMP. MAGNETIC CONTACTOR
3	MCCB1 MOLDED CASE CIRCUIT BREAKER
2	M2, M3 FAN MOTOR
1	M1 REF. COMPRESSOR
NO.	SYMBOL DESCRIPTION

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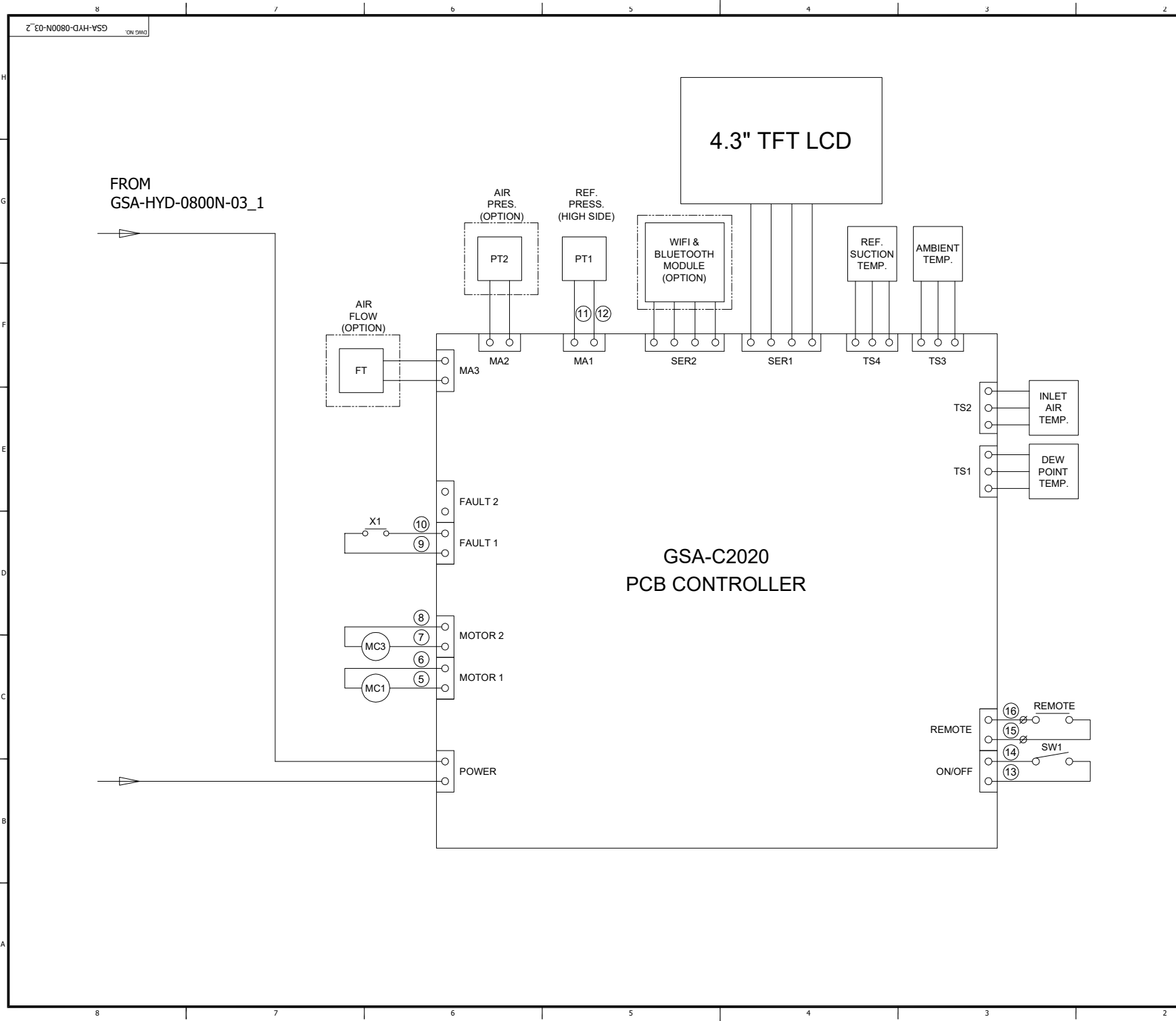
REV. NO.	DATE	DESCRIPTION	DWG. CHK.	APPD.	APPD.	APPD.
2018. 11. 26.		ISSUED FOR REFERENCE				

PROJECT: _____

MANUFACTURER: **GSA**
Global Standard Air & Gas

TITLE: **WIRING DRAWING**

ITEM NO.	HYD-800N	DWG NO.	REV.
SCALE	NONE	GSA-HYD-0800N-03_2	△



FROM
GSA-HYD-0800N-03_1

**GSA-C2020
PCB CONTROLLER**

4.3" TFT LCD