



## Refrigerated Air Dryer

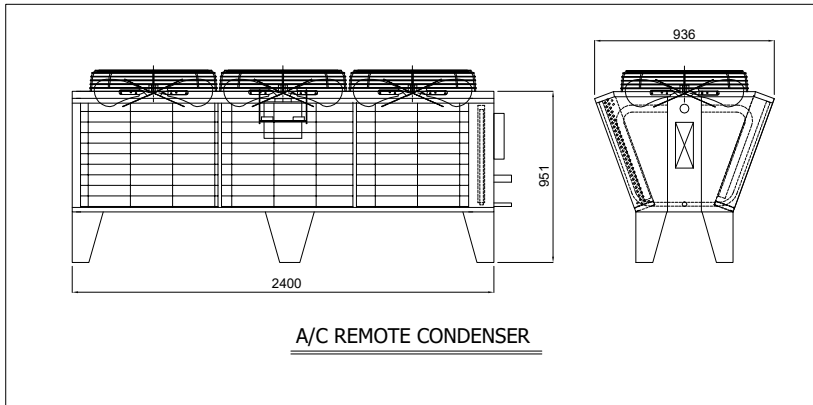
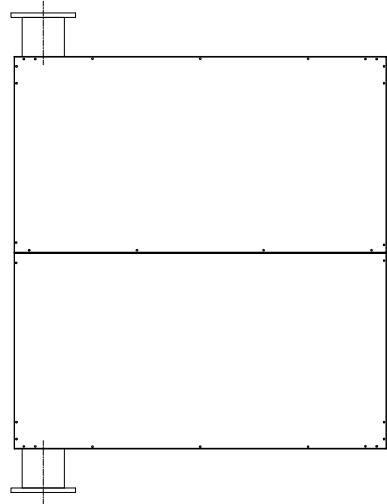
### Air Cooled Type

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-1200N
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SPECIFICATION				
1				
2	Supply Voltage	380V	Inlet Flow Rate	180 Nm3/min
3	Phase	3PH	Inlet Pressure	7 barg
4	Frequency	60Hz	Inlet Temp.	38 °C
5	Control use	220V	Outlet Flow Rate	165 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 or R-407C	Dryer Dimension (W x L x H)	2000 X 1900 X 2150 mm
15	Ref. Compressor Type	Scroll	R. Condenser Dim. (W x L x H)	2400 X 936 X 951 mm
16	Ref. Compressor Capacity	30 HP	Dryer Weight	1,400 kg
17	Condenser Type	Remote, Air Cooled	R. Condenser Weight	310 kg
18	Condenser Fan Motor	0.75 kW	Power Consumption	30.15 kW
19		3 EA	Inlet Connection	200A KS 10K SO.FF.
20	Condenser Fan Size	630 mm	Outlet Connection	200A KS 10K SO.FF.
21	Condenser Capacity	30 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 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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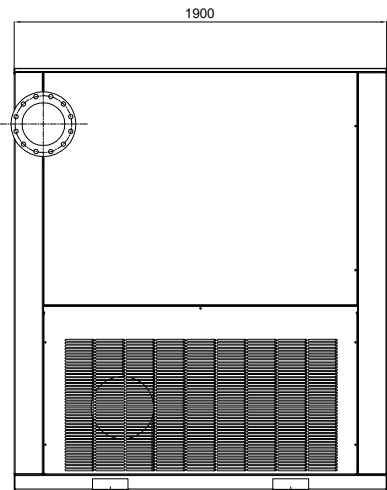
TO-N002I-DAH-VSS  
ON DWG



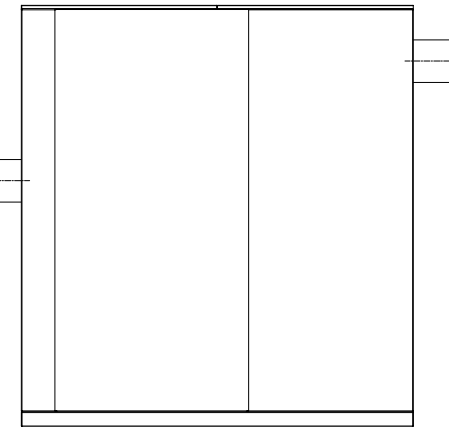
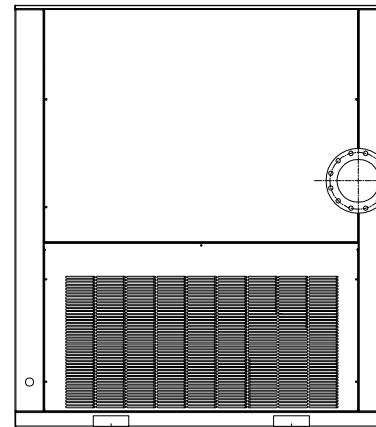
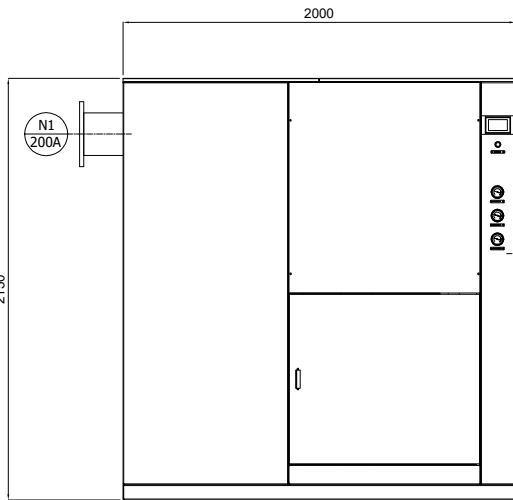
A/C REMOTE CONDENSER

SPECIFICATION	
INLET AIR TEMPERATURE	38°C
AMBIENT TEMPERATURE	32°C
DEW POINT	2~10°C @ PDP
INLET AIR PRESSURE	7 barg
CAPACITY	180 Nm <sup>3</sup> /min
AIR IN/OUT CONNECTION	200A KS 10K SO.FF.
A/C REMOTE CONDENSER	30HP
DIMENSION(WXLXH, mm)	2,000 X 1,900 X 2150
DRYER / COND. WEIGHT	1,400 kg / 310 kg
POWER CONSUMPTION	30.15 kW
POWER SUPPLY	380V - 3PH - 50/60Hz

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

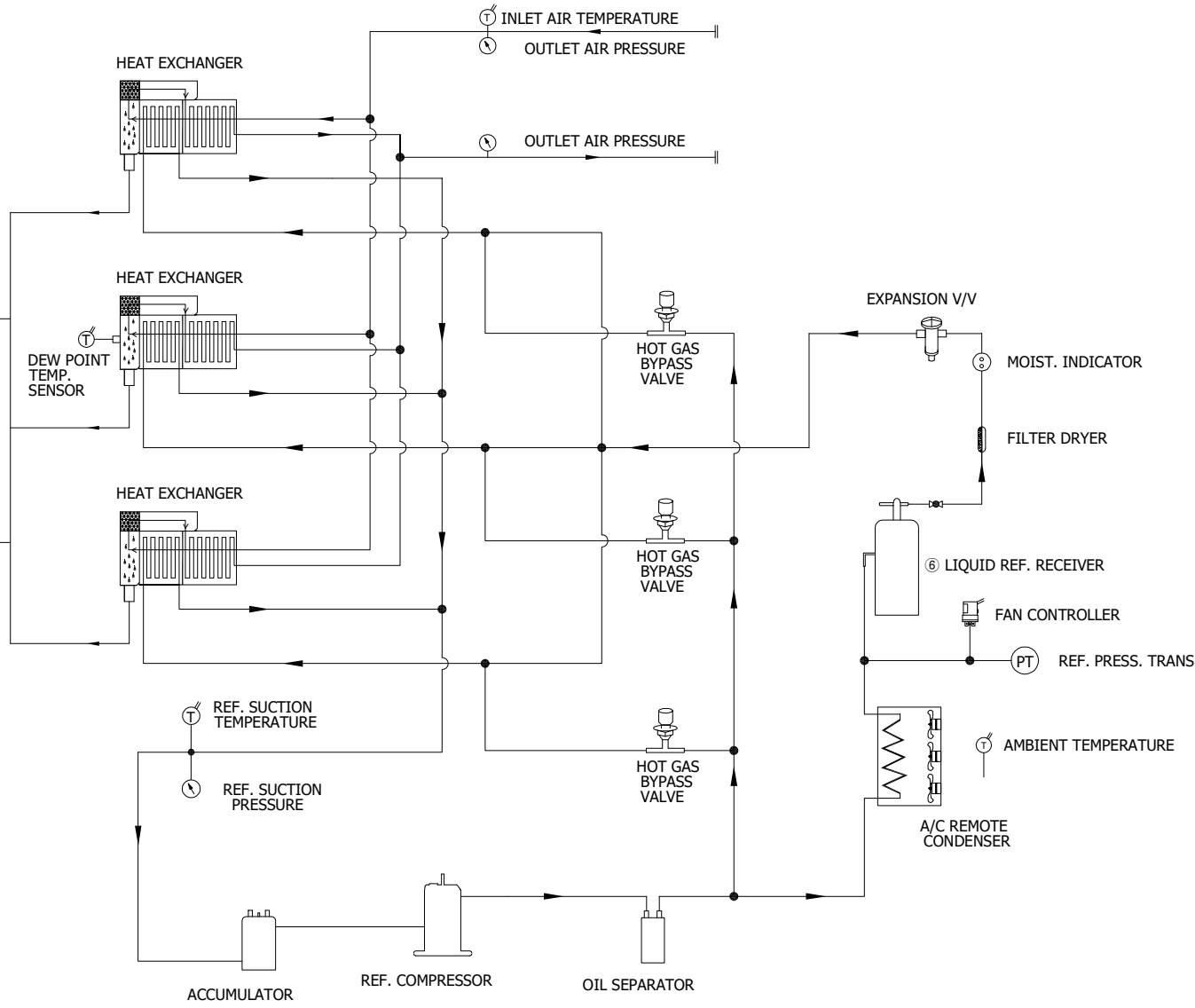
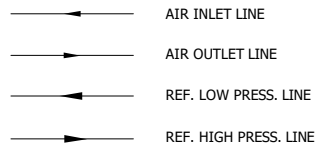


4-φ23 ANCHOR HOLE



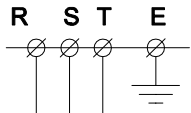
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REV. NO.	DATE	DESCRIPTION	DWG	CHK	APPD	APPD	APPD	APPD	APPD
PROJECT									

MANUFACTURER										
TITLE										
OUTLINE DRAWING										
ITEM NO.	HYD-1200N	DWG NO.	GSA-HYD-1200N-01							REV.
SCALE	NONE									△



DEW POINT	2~10°C @ PDP		
INLET AIR PRESSURE	7.0 BARG		
INLET AIR TEMPERATURE	38°C		
CAPACITY	180 Nm <sup>3</sup> /min		
16	PRESS. GAUGE	OUTLET AIR	1
15	PRESS. GAUGE	INLET AIR	1
14	PRESS. GAUGE	REF. SUCTION	1
13	AUTO DRAIN	PT 15A	2
12	HGBV	-	3
11	ACCUMULATOR	-	1
10	HEAT EXCHANGER	400 HP	3
9	EXPANSION VALVE	30 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	30 HP(COND. CAPACITY) (0.75KW, 6P, 630φ, 3EA)	1
2	OIL SEPARATOR	-	1
1	REF. COMPRESSOR	30HP (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	DWG	CHK	APPD	APPD	APPD		
PROJECT									
MANUFACTURER									
TITLE									
PIPING & INSTRUMENTATION DRAWING									
ITEM NO.	HYD-1200N	DWG NO.	GSA-HYD-1200N-02		REV.	△			
SCALE	NONE								



MCCB1

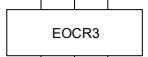
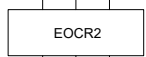
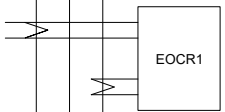
TR  
380V 220V

CB1

MC1

MC2

MC3

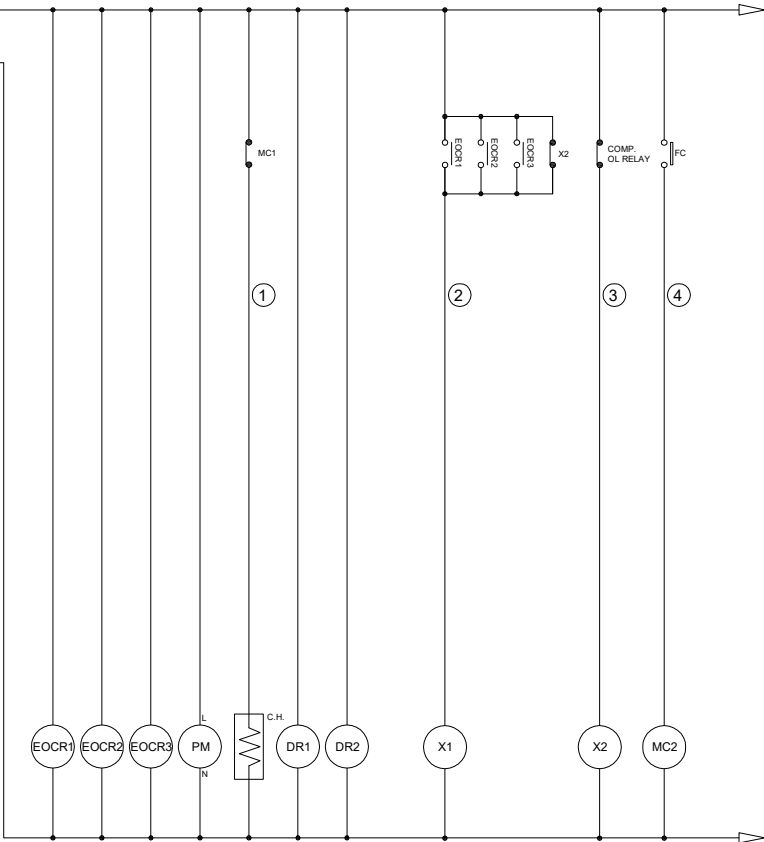


REF. COMPRESSOR  
(27.9kW)

FAN MOTOR  
(0.75kW)

FAN MOTOR  
(0.75kW)

FAN MOTOR  
(0.75kW)



POWER SOURCE	
AC 380, 3Ph, 50/60Hz	
14	FC FAN CONTROLLER
13	X1, X2 RELAY
12	DR1, DR2 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, M4 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.

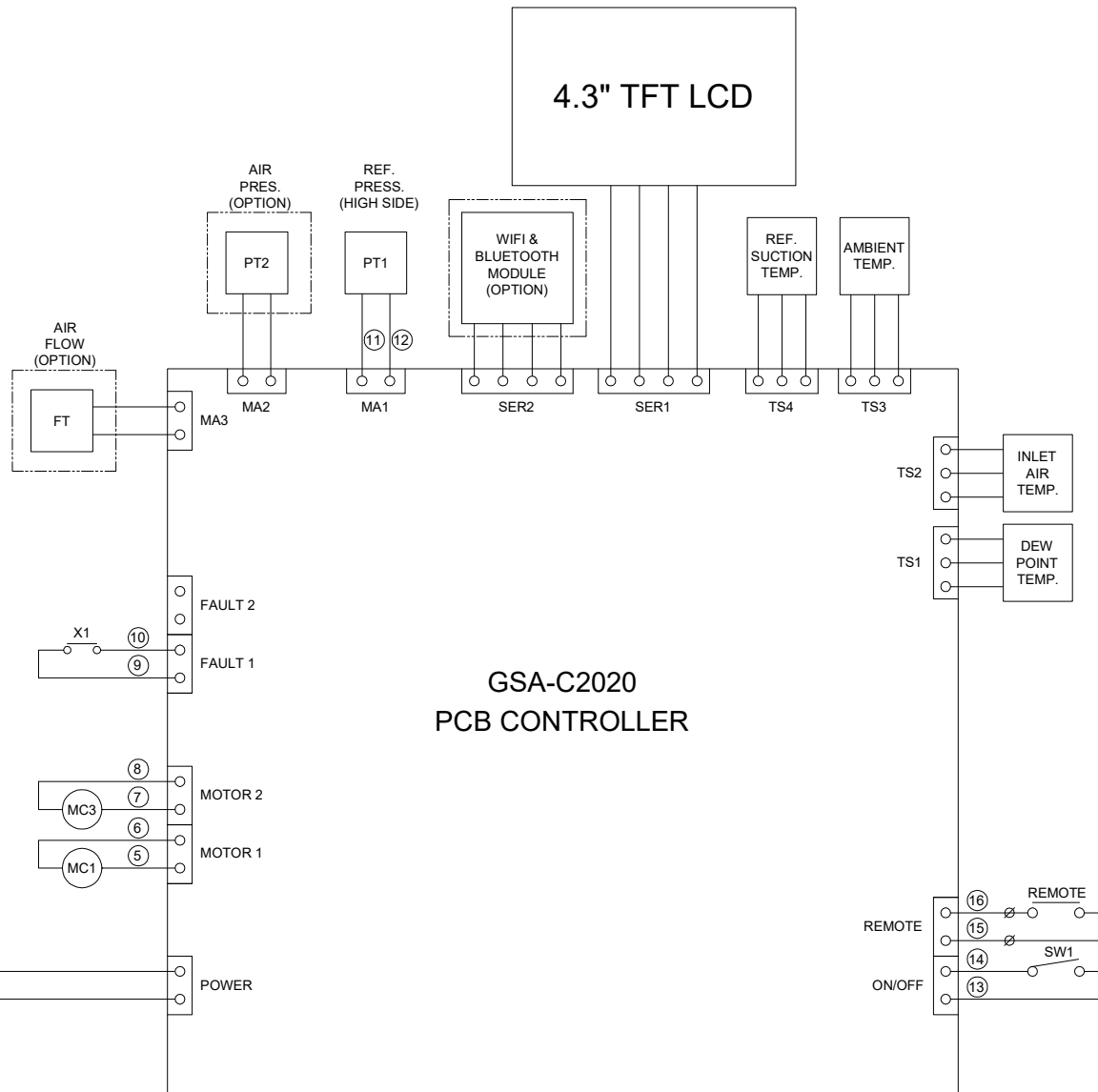
In case of reverse phase, change the position of 2 wires out of 3 wires of the power supply line.

Problems caused by incorrect power connection are not guaranteed.

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REV. NO.	DATE	DESCRIPTION	DWG	CHK	APPD	APPD	APPD	APPD	APPD	
PROJECT										
MANUFACTURER										
TITLE										
WIRING DRAWING										
ITEM NO.	HYD-1200N	DWG NO.	GSA-HYD-1200N-03_1							REV.
SCALE	NONE									△

(A4 : 297mm x 210mm)

FROM  
GSA-HYD-1200N-03\_1



POWER SOURCE		
AC 380, 3Ph, 50/60Hz		
NO.	DESCRIPTION	
14	FC FAN CONTROLLER	
13	X1, X2 RELAY	
12	DR1, DR2 CONDENSATE WATER DRAIN	
11	C.H. REF. COMP. HEATER	
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5	MC2, MC3 FAN MOTOR MAGNETIC CONTACTOR	
4	MC1 REF. COMP. MAGNETIC CONTACTOR	
3	MCCB1 MOLDED CASE CIRCUIT BREAKER	
2	M2, M3, M4 FAN MOTOR	
1	M1 REF. COMPRESSOR	
NO.	SYMBOL	DESCRIPTION

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MANUFACTURER										
TITLE										
WIRING DRAWING										
ITEM NO.	HYD-1200N	DWG NO.	GSA-HYD-1200N-03_2							REV.
SCALE	NONE								△	