
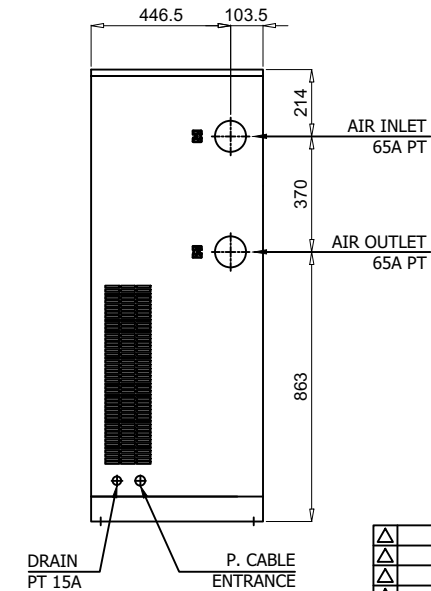
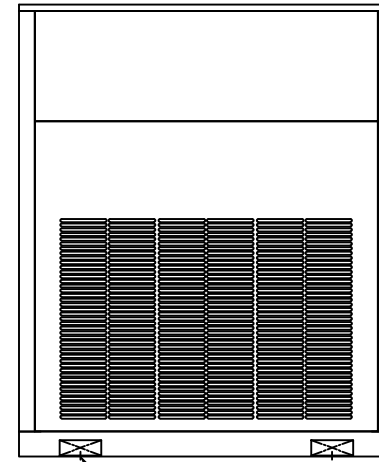
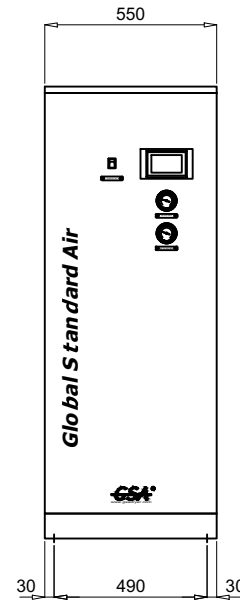
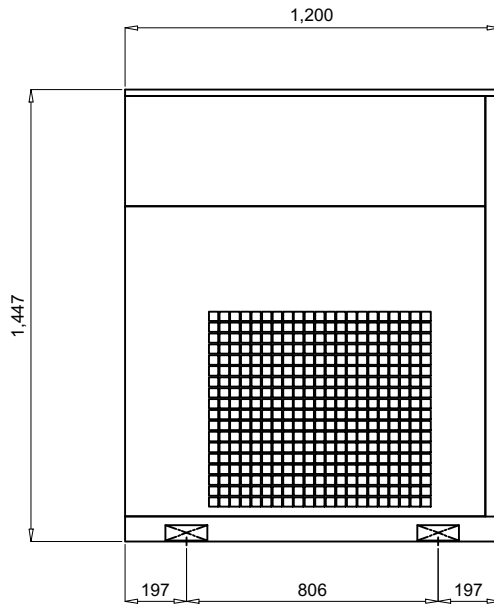
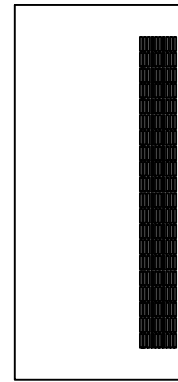
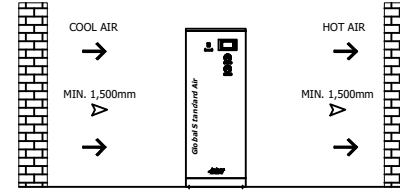


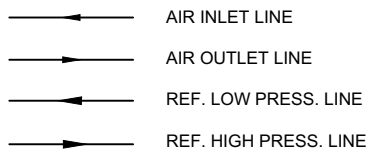
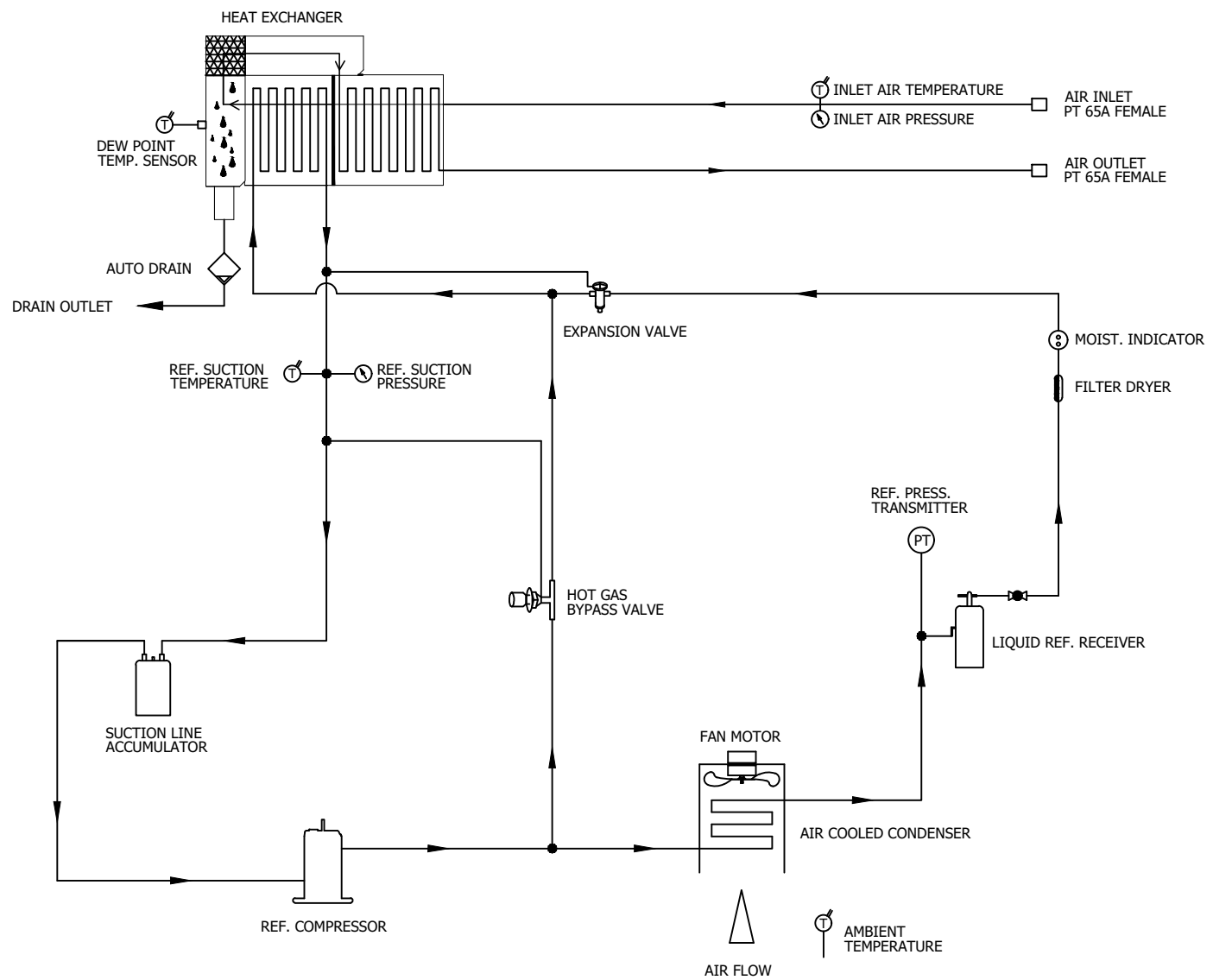
| | | | | | | | |
|---|--|----------------------|--------------------------|---------------------|-----------------|------------|-------------|
|  | Refrigerated Air Dryer for High Temp. | | Rev. | Date | Prepared By | Checked By | Approved By |
| | | | 1 | 2020.09.18 | WOO.I.H. | JO.S.J. | KIM.H.W. |
| | Air Cooled Type | | 2 | | | | |
| | | | 3 | | | | |
| 4 | | | | | | | |
| Project Name | | - | Model Name | | HYD-150HT | | |
| SPECIFICATION | | | | | | | |
| 1 | | | | | | | |
| 2 | Supply Voltage | 380V | Inlet Flow Rate | 21 | Nm3/min | | |
| 3 | Phase | 3PH | Inlet Pressure | 7 | barg | | |
| 4 | Frequency | 60Hz | Inlet Temp. | 45 | °C | | |
| 5 | Control use | 220V | Outlet Flow Rate | 21 | Nm3/min | | |
| 6 | Fulid | Compressed Air | Outlet Pressure | 6.8 | barg | | |
| 7 | Location | Indoor | Outlet Temp. | 33±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 | 14 | barg | | |
| 11 | | | Design Temperature | 70 | °C | | |
| 12 | | | Ambient Temperature | 32 | °C | | |
| CONSTRUCTION | | | | | | | |
| 13 | | | | | | | |
| 14 | Refrigerant | R-22 | Dimension (W x D x H) | 550 X 1,200 X 1,447 | mm | | |
| 15 | Ref. Compressor Type | Scroll | Weight | 220 | kg | | |
| 16 | Ref. Compressor Capacity | 5 HP | Power Consumption | 4.18 | kW | | |
| 17 | Condenser Type | Air Cooled | Inlet Connection | 65A | PT Female Screw | | |
| 18 | Condenser Fan Motor | 0.4 kW | Outlet Connection | 65A | PT Female Screw | | |
| 19 | | 1 EA | Drain Connection | 15A | PT Female Screw | | |
| 20 | Condenser Fan Size | 600 mm | Color (Munsell) | 5.7PB 4.1/9.9 | | | |
| 21 | Condenser Capacity | 4 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 | | | | | | | |
| 28 | | | | | | | |
| 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 | YES | | | |
| 34 | Air Pressure Gauge | YES | Liquid Ref. Receiver | YES | | | |
| 35 | Ref. Pressure Gauge | YES | Oil Separator | NO | | | |
| 36 | Dryer Start/Stop Switch | YES | Circuit Breaker(Control) | YES | | | |
| 37 | Moisture Indicator | YES | Ref. Compressor Heater | YES | | | |
| 38 | Drain | YES | | | | | |
| NOTES | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | | | | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |

| | |
|-----------------------|--------------------------|
| INLET AIR TEMPERATURE | 45°C |
| AMBIENT TEMPERATURE | 32°C |
| INLET AIR PRESSURE | 7 barg |
| CAPACITY | 21 Nm ³ /min |
| IN/OUT CONNECTION | 65A PT |
| DIMENSION(WXDXH, mm) | 550 X 1,200 X 1,447 |
| WEIGHT | 220 kg |
| POWER CONSUMPTION | 4.18 kW |
| POWER SUPPLY | 380/440V - 3PH - 50/60Hz |


COOLING AIR DIRECTION

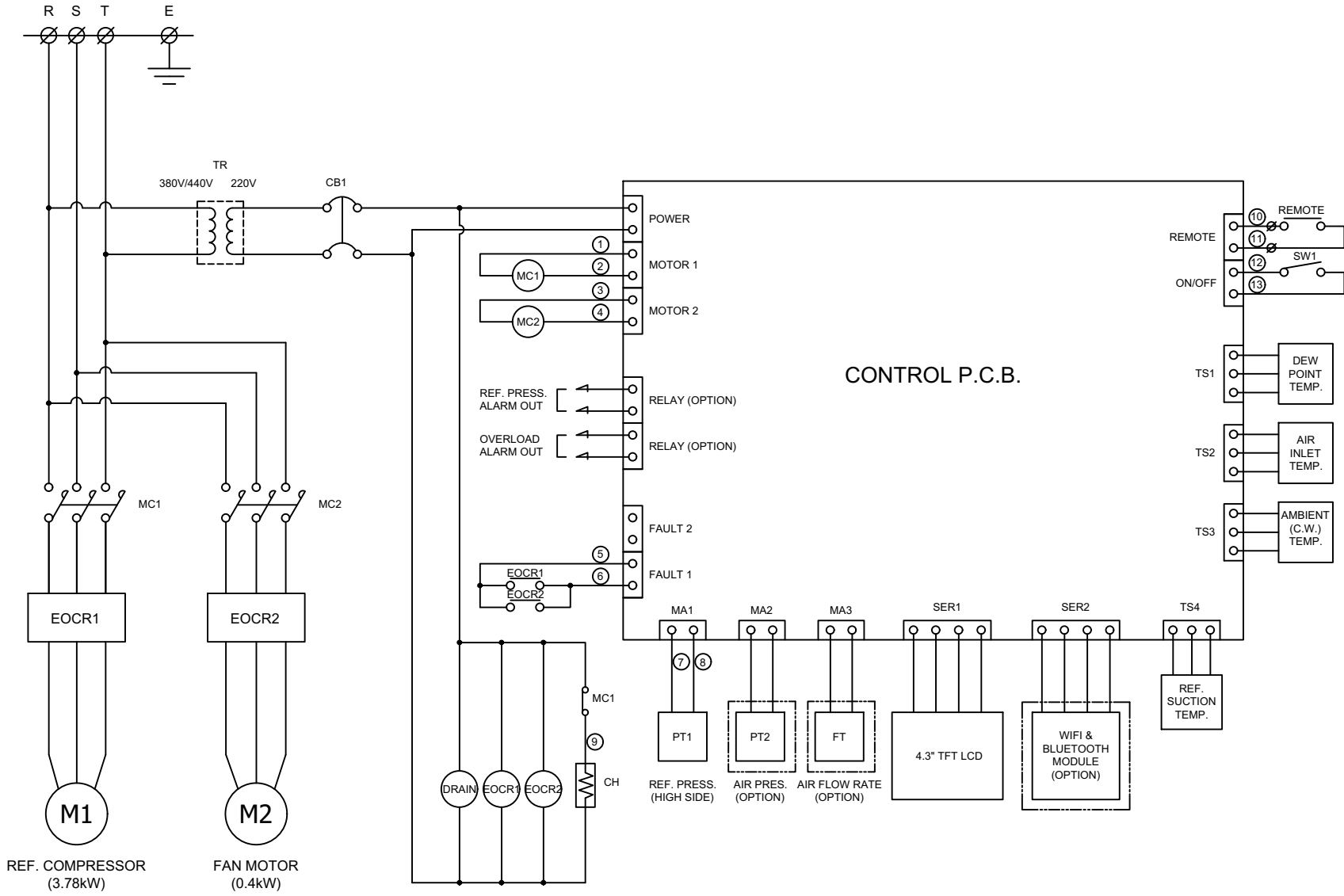


| | | | | | | | | | | |
|--------------|-----------------|-------------|-------------------|-----|------|------|------|------|------|---|
| △ | | | | | | | | | | |
| △ | | | | | | | | | | |
| △ | | | | | | | | | | |
| △ | | | | | | | | | | |
| △ | | | | | | | | | | |
| REV. NO. | DATE | DESCRIPTION | DWG | CHK | APPD | APPD | APPD | APPD | APPD | |
| PROJECT | - | | | | | | | | | |
| MANUFACTURER | | | | | | | | | | |
| TITLE | OUTLINE DRAWING | | | | | | | | | |
| ITEM NO. | HYD-150HT | DWG NO. | GSA-HYD-0150HT-01 | | | | | | REV. | △ |
| SCALE | NONE | | | | | | | | | |



| | | |
|-----------------------|---------------------------|------------------------------|
| DEW POINT | 2~10°C @ PDP | |
| INLET AIR PRESSURE | 7.0 barg | |
| INLET AIR TEMPERATURE | 45°C | |
| CAPACITY | 21.0 Nm ³ /min | |
| 14 | PRESS. GAUGE | INLET AIR 1 |
| 13 | PRESS. GAUGE | REF. SUCTION 1 |
| 12 | AUTO DRAIN | PT 15A 1 |
| 11 | HGBV | - 1 |
| 10 | ACCUMULATOR | - 1 |
| 9 | HEAT EXCHANGER | 150 HP 1 |
| 8 | EXPANSION VALVE | 5 TON 1 |
| 7 | MOIST. INDICATOR | 1/2" 1 |
| 6 | FILTER DRYER | 1/2" 1 |
| 5 | REF. RECEIVER | - 1 |
| 4 | REF. PRESS. TRANSMIT. | -1 ~ 35 BAR 1 |
| 3 | FAN MOTOR | 0.4KW 6P φ600 1 |
| 2 | A/C CONDENSER | 4 HP (CONDENSING CAPACITY) 1 |
| 1 | REF. COMPRESSOR | 5 HP (COOLING CAPACITY) 1 |
| NO. | PART NAME | DESCRIPTION QTY |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|----------------------|-------------------|-----|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|------|---|
| △ | | | | | | | | | | | | | | | | | | | | | |
| △ | | | | | | | | | | | | | | | | | | | | | |
| △ | | | | | | | | | | | | | | | | | | | | | |
| △ | | | | | | | | | | | | | | | | | | | | | |
| △ | 2020. 09. 18. | ISSUED FOR REFERENCE | | | | | | | | | | | | | | | | | | | |
| REV. NO. | DATE | DESCRIPTION | ENG | CHK | APPD | APPD | APPD | APPD | APPD | | | | | | | | | | | | |
| PROJECT | | | | | | | | | | | | | | | | | | | | | |
| MANUFACTURER | | | | | | | | | | | | | | | | | | | | | |
|  <small>Global Service Automation & Control</small> | | | | | | | | | | | | | | | | | | | | | |
| TITLE | | | | | | | | | | | | | | | | | | | | | |
| PIPING & INSTRUMENTATION DRAWING | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | HYD-150HT | DWG NO. | GSA-HYD-0150HT-02 | | | | | | | | | | | | | | | | | REV. | △ |
| SCALE | NONE | | | | | | | | | | | | | | | | | | | | |



REF. COMPRESSOR
(3.78kW)

FAN MOTOR
(0.4kW)

CONTROL P.C.B.

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

| REV. NO. | DATE | DESCRIPTION | DWG. | CHK. | APPD. | APPD. | APPD. |
|----------|------------|----------------------|------|------|-------|-------|-------|
| 1 | 2020.09.18 | ISSUED FOR REFERENCE | | | | | |

| | | | |
|--------------|-----------|---|-------------------|
| PROJECT | | - | |
| MANUFACTURER | |  | |
| TITLE | | WIRING DRAWING | |
| ITEM NO. | HYD-150HT | DWG NO. | GSA-HYD-0150HT-03 |
| SCALE | NONE | | |