



## Refrigerated Air Dryer

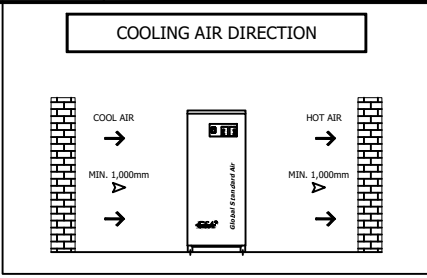
Air Cooled Type

| Rev. | Date       | Prepared By | Checked By | Approved By |
|------|------------|-------------|------------|-------------|
| 1    | 2019.01.15 | LEE.S.M.    | JO.S.J.    | KIM.H.W.    |
| 2    |            |             |            |             |
| 3    |            |             |            |             |
| 4    |            |             |            |             |

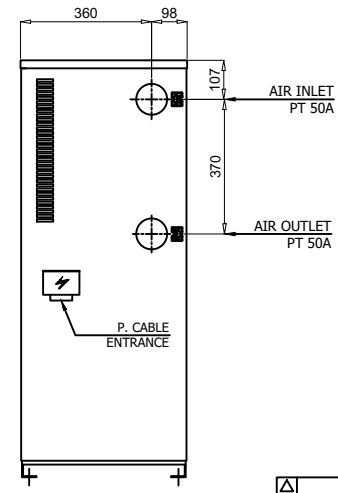
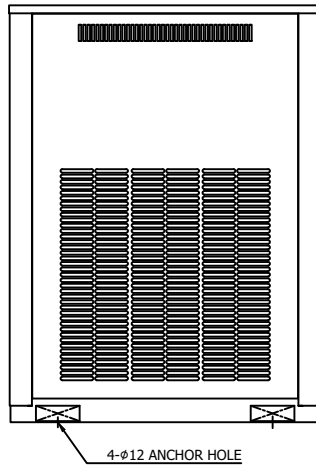
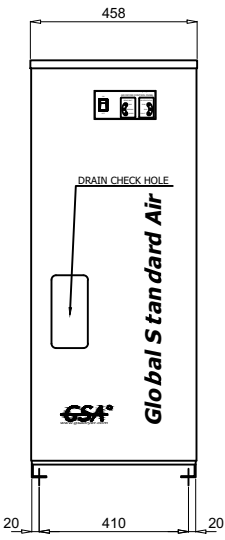
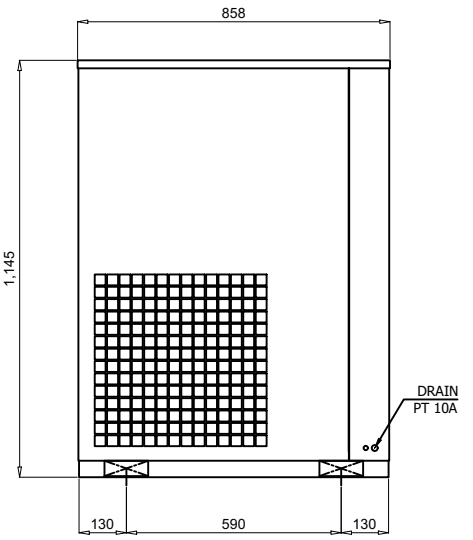
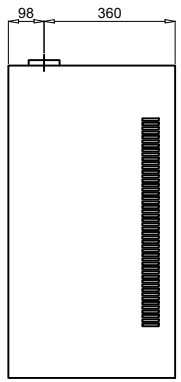
|              |   |            |          |
|--------------|---|------------|----------|
| Project Name | - | Model Name | HYD-100N |
|--------------|---|------------|----------|

| SPECIFICATION                 |                          |                      |                        |                           |
|-------------------------------|--------------------------|----------------------|------------------------|---------------------------|
| 1                             |                          |                      |                        |                           |
| 2                             | Supply Voltage           | 380V                 | Inlet Flow Rate        | 14.2 Nm <sup>3</sup> /min |
| 3                             | Phase                    | 3PH                  | Inlet Pressure         | 7 barg                    |
| 4                             | Frequency                | 60Hz                 | Inlet Temp.            | 38 °C                     |
| 5                             | Control use              | 220V                 | Outlet Flow Rate       | 14.2 Nm <sup>3</sup> /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        | 14 barg                   |
| 11                            |                          |                      | Design Temperature     | 70 °C                     |
| 12                            |                          |                      | Ambient Temperature    | 32 °C                     |
| CONSTRUCTION                  |                          |                      |                        |                           |
| 14                            | Refrigerant              | R-22                 | Dimension (W x L x H)  | 454 X 794 X 1,045 mm      |
| 15                            |                          | Recipro Hemertic     | Weight                 | 126 kg                    |
| 16                            | Ref. Compressor Capacity | 2 HP                 | Power Consumption      | 2.34 kW                   |
| 17                            | Condenser Type           | Air Cooled           | Inlet Connection       | 50A PT Female Screw       |
| 18                            | Condenser Fan Motor      | 0.2 kW               | Outlet Connection      | 50A PT Female Screw       |
| 19                            |                          | 1 EA                 | Drain Connection       | 15A PT Female Screw       |
| 20                            | Condenser Fan Size       | 450 mm               | Color (Munsell)        | 5.7PB 4.1/9.9             |
| 21                            | Condenser Capacity       | 2 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      | Capillary Tube       |                        |                           |
| 26                            | Temp. Control Device     | Hot Gas Bypass Valve |                        |                           |
| 27                            | Drain Trap Type          | Auto Float           |                        |                           |
| STANDRAD FEATURES AND CONTROL |                          |                      |                        |                           |
| 29                            | Fan Controller           | YES                  | Ref. Compressor        | YES                       |
| 30                            | Ref. Liquid Filter Dryer | YES                  | Capillary Tube         | YES                       |
| 31                            | Overload Relay           | NO                   | Hot Gas Bypass Valve   | YES                       |
| 32                            | PCB Controller           | YES                  | Air Cooled Condenser   | YES                       |
| 33                            | Fan Motor Test Button    | NO                   | Accumulator            | NO                        |
| 34                            | Air Pressure Gauge       | NO                   | Liquid Ref. Receiver   | NO                        |
| 35                            | Ref. Pressure Gauge      | NO                   | Oil Separator          | NO                        |
| 36                            | High Pressure Switch     | YES                  | Circuit Breaker        | NO                        |
| 37                            | Moisture Indicator       | NO                   | Ref. Compressor Heater | NO                        |
| 38                            | Drain                    | YES                  |                        |                           |
| NOTES                         |                          |                      |                        |                           |
| 40                            |                          |                      |                        |                           |
| 41                            |                          |                      |                        |                           |
| 42                            |                          |                      |                        |                           |
| 43                            |                          |                      |                        |                           |
| 44                            |                          |                      |                        |                           |
| 45                            |                          |                      |                        |                           |
| 46                            |                          |                      |                        |                           |

T0-N0010-QAH-VSS  
CON DWG



| SPECIFICATION         |                           |
|-----------------------|---------------------------|
| INLET AIR TEMPERATURE | 38°C                      |
| AMBIENT TEMPERATURE   | 32°C                      |
| INLET AIR PRESSURE    | 7 barg                    |
| CAPACITY              | 14.2 Nm <sup>3</sup> /min |
| IN/OUT CONNECTION     | PT 50A                    |
| DIMENSION(WXDxH, mm)  | 458 X 858 X 1,145         |
| WEIGHT                | 126 kg                    |
| POWER CONSUMPTION     | 2.34 kW                   |
| POWER SUPPLY          | 380/440V - 3PH - 50/60Hz  |

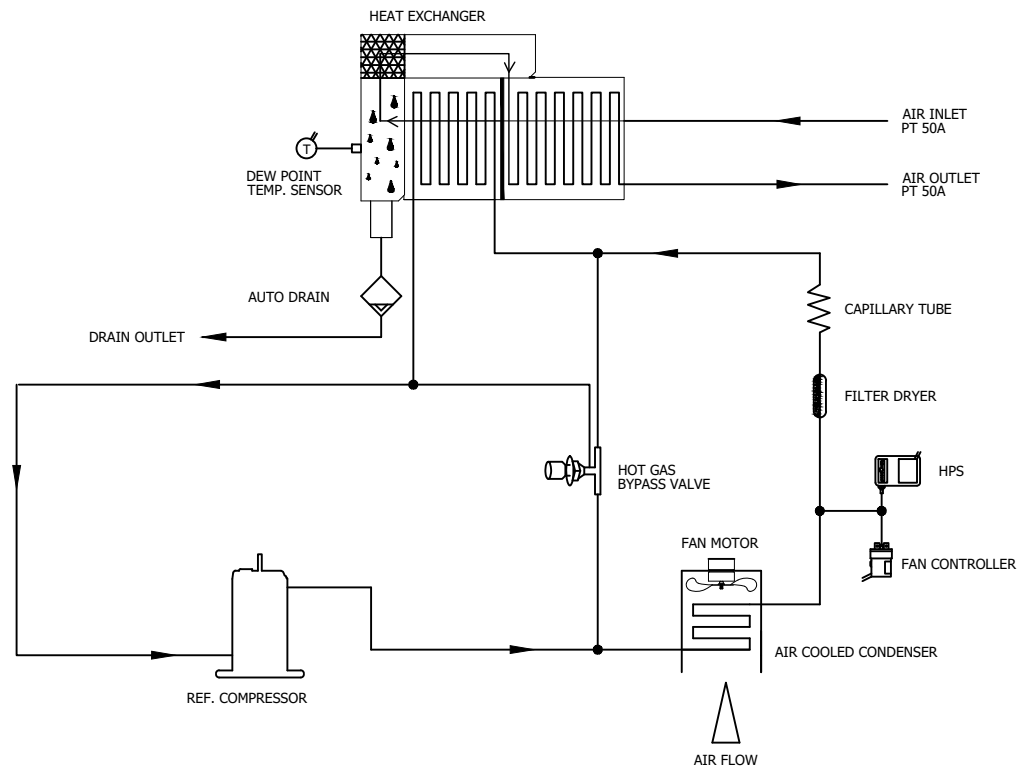


| REV.          | DATE            | DESCRIPTION           | DWG              | CHK | APPD | APPD |
|---------------|-----------------|-----------------------|------------------|-----|------|------|
| 2020. 03. 20. |                 | CHANGE OF CONTROL PCB |                  |     |      |      |
| 2018. 11. 26. |                 | ISSUED FOR REFERENCE  |                  |     |      |      |
| PROJECT       | -               |                       |                  |     |      |      |
| MANUFACTURER  |                 |                       |                  |     |      |      |
| TITLE         | OUTLINE DRAWING |                       |                  |     |      |      |
| ITEM NO.      | HYD-100N        | DWG NO.               | GSA-HYD-0100N-01 |     |      |      |
| SCALE         | NONE            |                       |                  |     |      |      |


(A4 : 297mm x 210mm)

Z0-N0010-QAH-VSS  
ON DWG

| DEW POINT             | 2~10°C @ FDP              |                            |     |
|-----------------------|---------------------------|----------------------------|-----|
| INLET AIR PRESSURE    | 7.0 BARG                  |                            |     |
| INLET AIR TEMPERATURE | 38°C                      |                            |     |
| CAPACITY              | 14.2 Nm <sup>3</sup> /min |                            |     |
| 10                    | CAPILLARY TUBE            | 1                          |     |
| 9                     | HGBV                      | 1                          |     |
| 8                     | AUTO DRAIN                | IN : PT 15A / OUT : 6A     |     |
| 7                     | HEAT EXCHANGER            | 100 HP                     |     |
| 6                     | FILTER DRYER              | 3/8"                       |     |
| 5                     | HPS                       | 24 BARG                    |     |
| 4                     | FAN CONTROLLER            | 12 ~ 18 BARG               |     |
| 3                     | FAN MOTOR                 | 0.2KW 6P φ450              |     |
| 2                     | A/C CONDENSER             | 2 HP (CONDENSING CAPACITY) |     |
| 1                     | REF. COMPRESSOR           | 2 HP (COOLING CAPACITY)    |     |
| NO.                   | PART NAME                 | DESCRIPTION                | QTY |

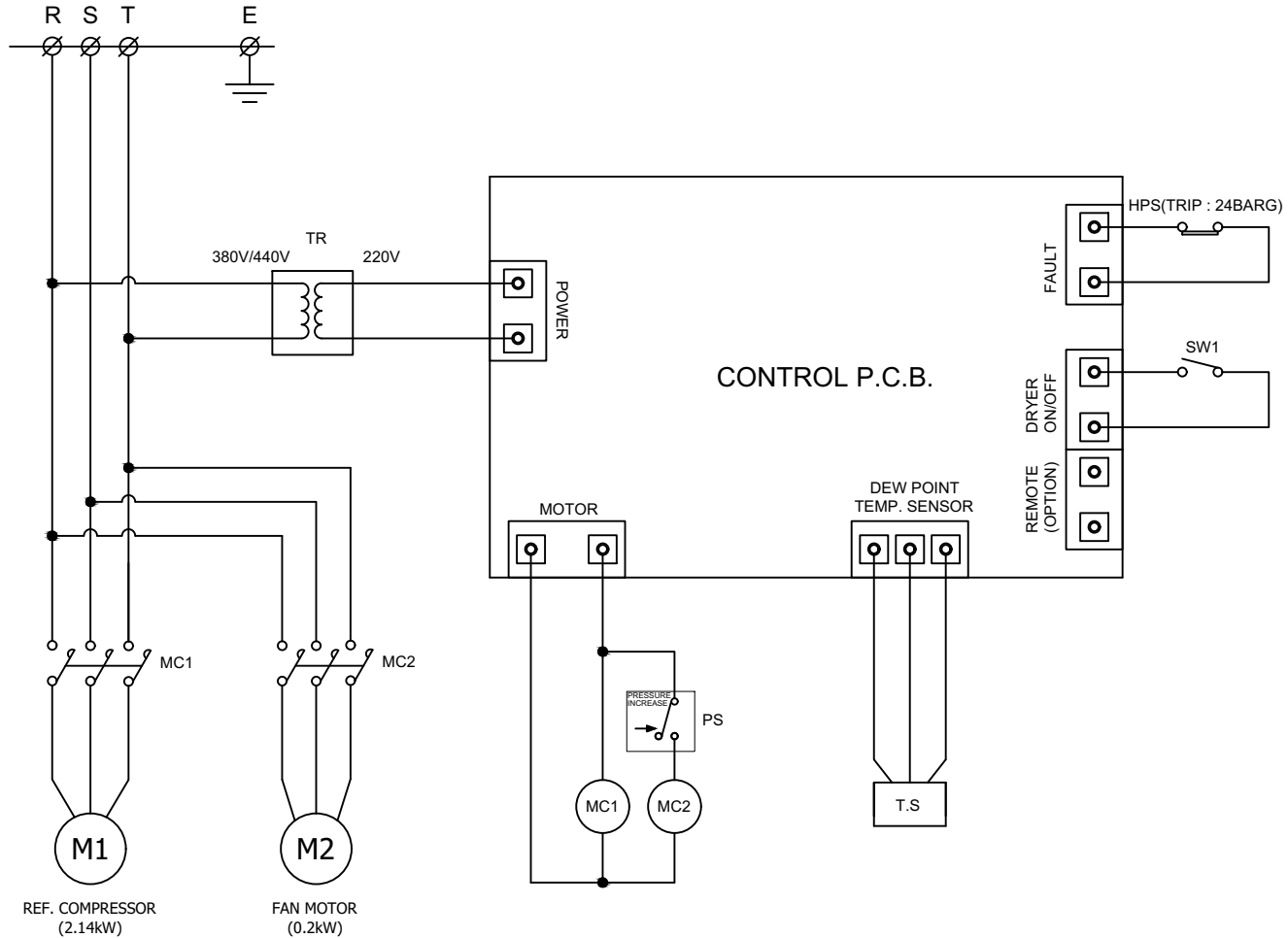


- ← AIR INLET LINE
- AIR OUTLET LINE
- ← REF. LOW PRESS. LINE
- REF. HIGH PRESS. LINE

| △   |               |                      |                  |     |      |      |      |      |      |      |
|---|---------------|----------------------|------------------|-----|------|------|------|------|------|------|
| △   |               |                      |                  |     |      |      |      |      |      |      |
| △   |               |                      |                  |     |      |      |      |      |      |      |
| △   |               |                      |                  |     |      |      |      |      |      |      |
| △   | 2020. 09. 16. | PARTS NUMBER DELETE  |                  |     |      |      |      |      |      |      |
| △   | 2018. 11. 26. | ISSUED FOR REFERENCE |                  |     |      |      |      |      |      |      |
| REV.  | DATE          | DESCRIPTION          | ENG              | CHK | APPD | APPD | APPD | APPD | APPD | APPD |
| PROJECT   |               |                      |                  |     |      |      |      |      |      |      |
| MANUFACTURER  |               |                      |                  |     |      |      |      |      |      |      |
| <br><small>Global Standard Air &amp; Gas</small> |               |                      |                  |     |      |      |      |      |      |      |
| TITLE   |               |                      |                  |     |      |      |      |      |      |      |
| PIPING & INSTRUMENTATION DRAWING  |               |                      |                  |     |      |      |      |      |      |      |
| ITEM NO.  | HYD-100N      | DWG NO.              | GSA-HYD-0100N-02 |     |      |      |      |      |      |      |
| SCALE   | NONE          |                      |                  |     |      |      |      |      |      |      |
|   |               |                      |                  |     |      |      |      |      |      | REV  |
|   |               |                      |                  |     |      |      |      |      |      | △    |

(A4 : 297mm x 210mm)

E0-N0010-QAH-VSS  
ON DWG



| POWER SOURCE<br>AC 380/440V, 3Ph, 50/60Hz |        |                        |
|---|--------|------------------------|
| 9   | SW1    | SYSTEM ON/OFF SWITCH   |
| 8   | HPS    | HIGH PRESSURE SWITCH   |
| 7   | T.S    | DEW POINT TEMP. SENSOR |
| 6   | TR     | TRANSFORMER(OPTION)    |
| 5   | MC1, 2 | MAGNETIC CONTACTOR     |
| 4   | PS     | FAN CONTROLLER         |
| 3   | C1     | RUNNING CAPACITOR      |
| 2   | M2     | FAN MOTOR              |
| 1   | M1     | REF. COMPRESSOR        |
| NO.                                       | SYMBOL | DESCRIPTION            |

| △                                       |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|------------|----------------------|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| △                                       |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| △                                       |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| △                                       |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| △                                       |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| △                                       | 2018.11.26 | ISSUED FOR REFERENCE |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| REV.                                    | DATE       | DESCRIPTION          | DWG              | CHK | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD | APPD |
| PROJECT                                 |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MANUFACTURER                            |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>GSA</b><br>Global Standard Air & Gas |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| TITLE                                   |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| WIRING DRAWING                          |            |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| ITEM NO.                                | HYD-100N   | DWG NO.              | GSA-HYD-0100N-03 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| SCALE                                   | NONE       |                      |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

(A4 : 297mm x 210mm)