☐for information ☐for quatation
■for approval ☐for final

# DATA SHEET FOR DESSICANT AIR DRYER

| CUSTOMER | | REV | DATA | PAR'D | CHK,D | APP'D |
|---|---|---|---|---|---|---|
| LOCATION | | 0 | 15'09.15 | J.P.KIM | J.P.KIM | S. LEE |
| PROJECT NO. | | | | | | |
| SERVICE | | | | | | |
| SUPPLIER | | | | | | |
| NO. REQ.D | | | | | | |

## PROCESS DESIGN DATA

| | | | |
|---|---|---|---|
| **DRYER TYPE** | HEATER TYPE AIR DRYER | **MODEL** | **SHP-4400** |
| **FLUID** | COMPRESSED AIR | MAX. ALL. DROP | 0.2 kg/㎠G |
| **INLET CONDITION** | | **OUTLET CONDITION** | |
| FLOW RATE | 4440 Nm3/hr | FLOW RATE(NORMAL) | 4084.8 Nm3/hr |
| PRESSURE(**NOR**./MAX) | 7.0 kg/㎠G | REGEN. AIR CONSUMPTION | 355.2 Nm3/hr |
| TEMPERATURE(NOR./**MAX**) | 40 ℃ | PRESSURE(**NOR**./MAX) | 6.8 kg/㎠G |
| RELATIVE HUMIDITY | 100 % at 40 ℃ | TEMPERATURE(NOR./**MAX.**) | 40 ℃ |
| **UTILITY AVAILABLE** | | DEW POINT | -40 ℃ at ATM. |
| COOLING WATER | kg/㎠G ℃ below | **INSULLATION** | ■ INDOOR |
| CHILLED WATER | kg/㎠G ℃ | **AREA CLASS** | ☐ HAZAROUS AREA |
| STEAM | kg/㎠G ℃ | | ■ NON-HAZAROUS AREA |
| MAIN POWER | 3 Ph 60Hz 380 V | **NOISE LEVEL(MAX.)** | 85 dB( A ) at 1m |
| CONTROL POWER | 1 Ph 60Hz 220 V | **OPERATION** | ■ AUTOMATIC ☐ MANUAL |

## MECHANICAL DESIGN DATA

| | | | |
|---|---|---|---|
| **DESIGN PRESSURE** | 9.9 kg/㎠G | **MATERIAL for VESSEL** | |
| **DESIGN TEMPERATURE** | 250 ℃ | SHELL / HEAD | SS400 / SS400 |
| **CORROSION ALLOWANCE** | 1.0 mm | DESICCANT SCREEN | STS304 |
| **CODE AND STANDARD** | | FLANGE RATING | - |
| VESSEL | KSB6750 | HEX. BOLT/N/W | - |
| PIPING DESIGN | KS ST'D | INTERNAL PIPING | SPP |
| MATERIAL | KS ST'D | GASKET | NON- ASBESTOS |
| **SURFACE TREATMENT** | SSPC-SP3 | **RADIOGRAPH EXAM.** | N/A |
| **PAINT COLOR** | MAKER STD | | |

## SPECIFICATION

| | | | |
|---|---|---|---|
| **DESICCANT** | | **ACCESSORIES** | |
| TYPE | BALL (4~6mm) | ■ | PURGE SILENCER |
| MATERIAL | ACTIVATED ALUMINA | ☐ | DEW POINT SENSOR & INDICATOR |
| WEIGHT | 1600 kg/2towers | ☐ | EQUIPMENT BY-PASS PIPING & VALVE |
| ED | | ■ | PRESSURE GAUGE |
| **REGENERATION TYPE** | | ■ | TEMPERATURE INDICATOR |
| ■ ELECTRICHEATER | 35 Kw (2step) | ■ | LOCAL CONTROL PANEL |
| ☐ STEAM HEATER | kg/hr at kg/㎠G | ■ | OUTLET LOW PRESSURE S/W |
| ☐ REGENERATION BLOWER | Kw | ☐ | COOLET & SEPARATOR |
| **OPERATION CYCLE** | | ☐ | AUTO DRIN TRAP |
| CYCLE -8.0Hr DRYING-4.0 Hr HEATING-2,5Hr COOLING-1.5Hr | | ■ | HEATER |
| PRESSURIZING - 5.0 mins | | ☐ | PRE FILTER FILTER |
| **DRYER TOTAL WEIGHT** | about 3050 kg | ☐ | AFTER FILTER |
| **IN/OUT CONNECTION** | KS 10K FF FL 125A(5") | DIMENSION(mm) L x W x H | 2800 x 1650 x2860 |