# DESICCANT DRYAIR 10000 VRF


> Lower footprint/weight per m³/hr

> A unique triple point control on all machines over 1500 m³/hr, measuring the regeneration temperature onto the wheel, the wheel off temperature (wet air) and the RH or Dew point of the air being dried. This combination ensures the amount of energy input is relevant to the moisture being extracted. This can be applied to 500 m³/hr units as option extra.

> Numerous options available, pre-heaters and coolers, post heaters and coolers, humidifiers and many other variations as special machines.

> Filters up to F7 as standard with HEPPA & ULPA available.

> Highly efficient Silica Gel Rotor for efficiency & durability, high moisture removal efficiency with the lowest energy costs.

> Various regeneration options available on units above 1500 m³/hr. All options are fully modulating.

## APPLICATIONS

| | | |
|---|---|---|
| → SILOS | → FOOD INDUSTRIES | → PHARMACEUTICAL |
| → TIMBER DRYING | → MILITARY STORAGE | → PACKAGING |
| → ARCHIVE STORAGE | → FREEZER STORAGE | → POWDER MANUFACTURE |

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## SPECIFICATIONS

| | | |
|---|---|---|
| **Process Airflow Nominal** | 10000 | $m^3$ / hr |
| Process Pre filter | 3 x 600 x 600 3 x 600 x 300 pleated panel G4 | No / Size / Grade |
| Process main filter | 3 x 600 x 600 3 x 600 x 300 rigid bag F7 | N / Size / Grade |
| High Perf Silica Gel Rotor | 1525 x 200 | mm |
| Desiccant Wheel Rotation Speed | 10 | RPH |
| Process Fan Model | DD SRER-11-0560 | |
| Motor Power | 5.5 | kW |
| **Moisture Removal** | | |
| 20°C @ 40% RH | 61.8 | kg / hr |
| 20°C @ 60% RH | 84.36 | kg / hr |
| 25°C @ 60% RH | 93.12 | kg / hr |
| 30°C @ 80% RH | 106.56 | kg / hr |
| Total Pressure / External Pressure | 1135 / 462 | Pa |
| **Regeneration Airflow Nominal** | 3630 | $m^3$ / hr |
| Regeneration Filter | 2 x 600 x 500 pleated panel G4 | No / Size / Grade |
| Heater Option | Electric Thyristor control | Electric PTC |
| Heater Power (on startup) | 151.3 | kW |
| Heater Power (after initial start) | 90.8 | kW |
| Heater option | Electric \| Gas \| Steam | *** |
| Fan Model | DD SRER-11-0355 | |
| Motor Power | 2.2 | kW |
| Total Pressure / External Pressure | 1003 / 440.75 | Pa |
| **Electrical Supply** | 3p/N/E 50 / 60 Hz | 1p/N/E |
| Voltage | 380 \| 415 | V / Ac |
| Electrical Input Power (on start up) | 7.7 | kW |
| Amps per phase | 11.71 \| 10.72 \| -------- | A/Phase ** |
| ΔPa Process / Regeneration / Pre-purge | 196 / 247 / 163 | Pa |
| **Dimensions** | 2300 x 1900 x 2000 | L x W x H mm |
| Process Inlet | 1700 x 800 | mm |
| Proces Outlet | 700 x 350 | mm |
| Regeneration Inlet | 500 x 800 | mm |
| Regeneration Outlet | 450 x 230 | mm |
| **Weight** | 1100 | kg |

Process and regeneration fan supplied with a VSD control.

* pressure readings at dirty filter condition

* Electrical power consumption on electric

Please note this value does not include regeneration if electric.

*** Regeneration options.

1. electric thyristor control fully modulating not available above Dryair !0000 VRF

2. Natural gas direct fired fully modulating

3. Liquified petroleum Gas direct fired fully modulating

4. Steam minimum 5 Bar(g) fully modulating but dry steam must be supplied

5. HPHW High pressure hot water fully modulating.

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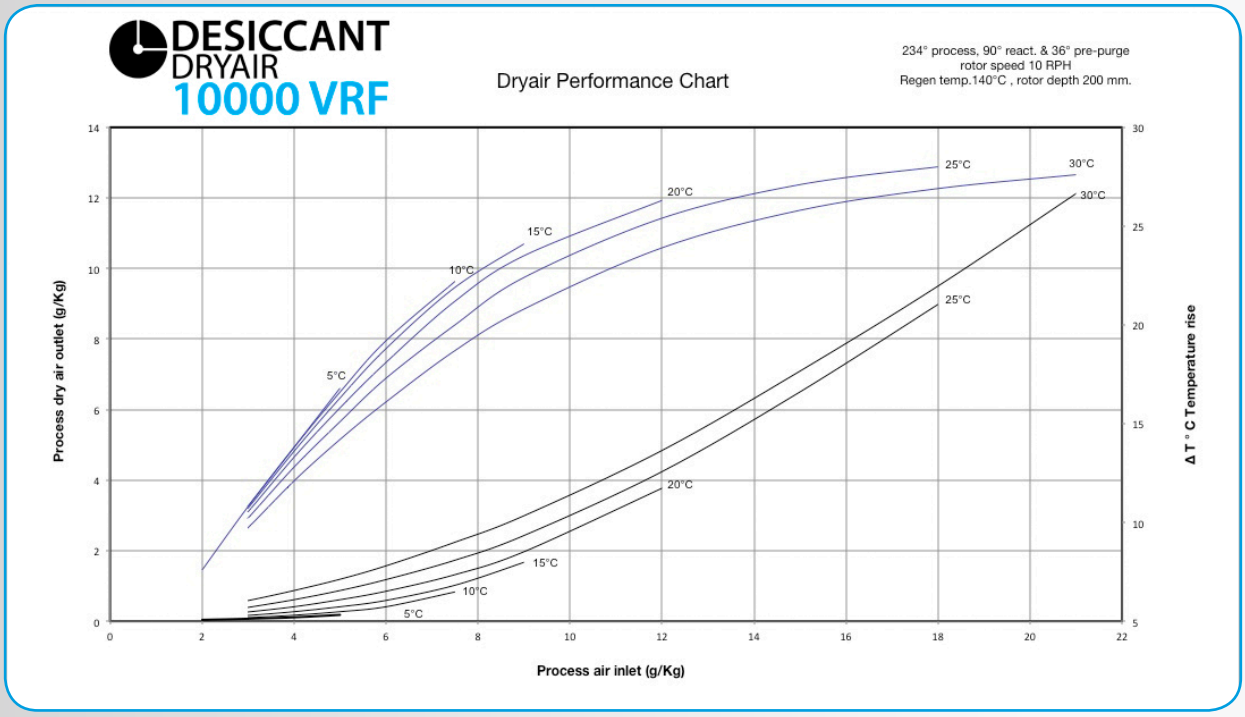
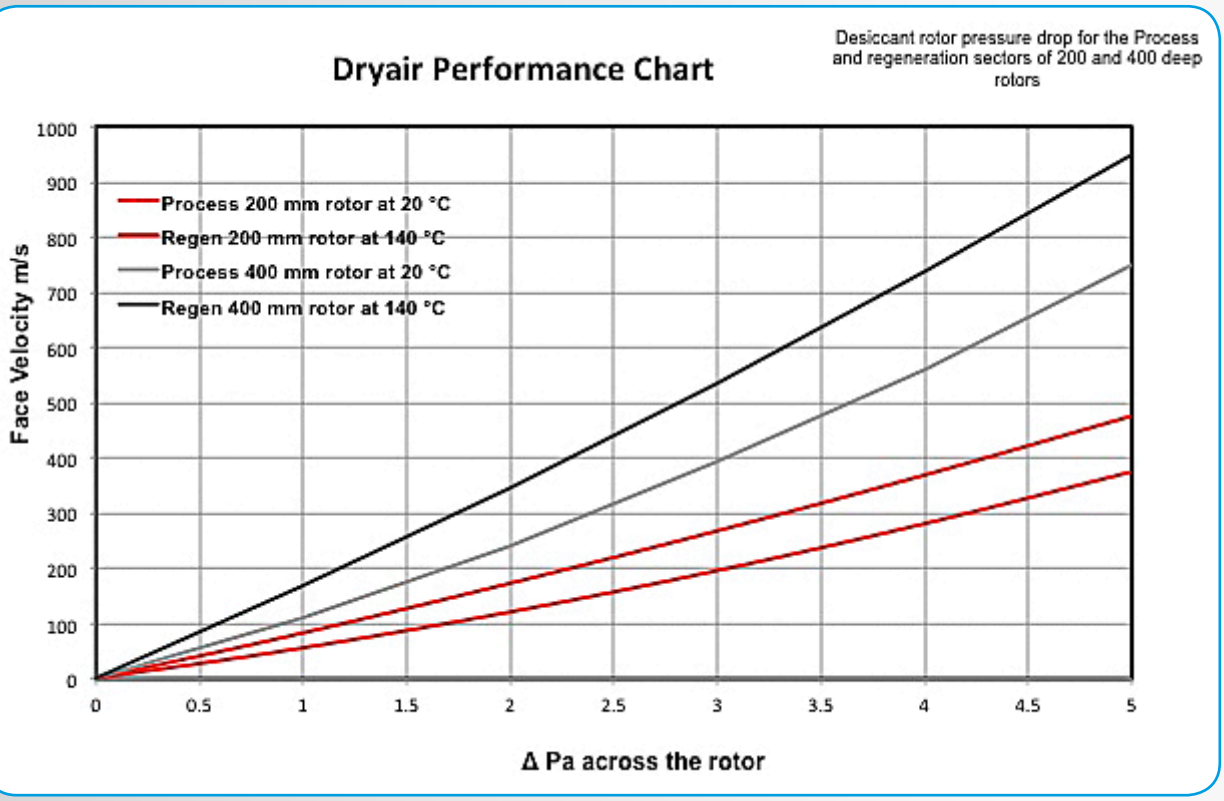
## PERFORMANCE TECHNICAL DRAWINGS AVAILABLE UPON REQUEST



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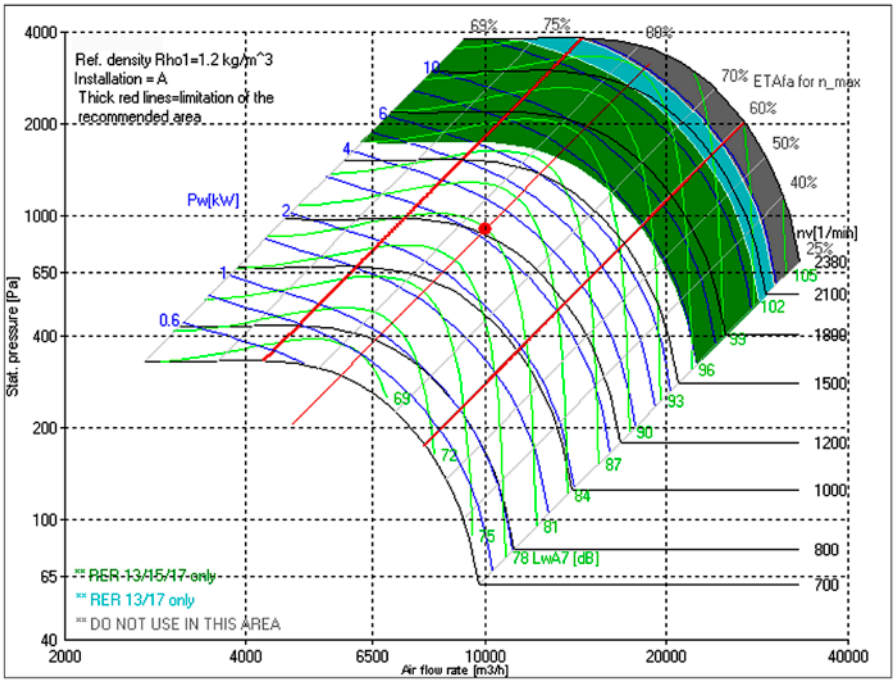
## PERFORMANCE TECHNICAL DRAWINGS AVAILABLE UPON REQUEST

Process Fan Curve for the 10000 VRF




Regeneration Fan Curve for the 10000 VRF