


# DESICCANT DRYAIR 8000 VRF



- 
- > Lower footprint/weight per m<sup>3</sup>/hr
  - > A unique triple point control on all machines over 1500 m<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/hr.  
All options are fully modulating.

## APPLICATIONS

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

## SPECIFICATIONS

<b>Process Airflow Nominal</b>	8000	m <sup>3</sup> / hr
Process Pre filter	2 x 600 x 600 2 x 600 x 300 pleated panel G4	No / Size / Grade
Process main filter	2 x 600 x 600 2 x 600 x 300 rigid bag F7	N / Size / Grade
High Perf Silica Gel Rotor	1370 x 200	mm
Desiccant Wheel Rotation Speed	9	RPH
Process Fan Model	DD SRER-11-0500	
Motor Power	4	kW
<b>Moisture Removal</b>		
20°C @ 40% RH	48.576	kg / hr
20°C @ 60% RH	66.624	kg / hr
25°C @ 60% RH	72.864	kg / hr
30°C @ 80% RH	83.712	kg / hr
Total Pressure / External Pressure	1134 / 464	Pa
<b>Regeneration Airflow Nominal</b>	2904	m <sup>3</sup> / hr
Regeneration Filter	1 x 600 x 500 1 x 600 x 300 pleated panel G4	No / Size / Grade
Heater Option	Electric Thyristor control	Electric PTC
Heater Power (on startup)	121	kW
Heater Power (after initial start)	72.6	kW
Heater option	Electric   Gas   Steam	***
Fan Model	DD SRER-11-0315	
Motor Power	1.5	kW
Total Pressure / External Pressure	999 / 442	Pa
<b>Electrical Supply</b>	3p/N/E 50 / 60 Hz	1p/N/E
Voltage	380   415	V / Ac
Electrical Input Power (on start up)	5.5	kW
Amps per phase	8.37   7.66   -----	A/Phase **
ΔPa Process / Regeneration / Pre-purge	196 / 244 / 163	Pa
<b>Dimensions</b>	2200 x 1600 x 1800	L x W x H mm
Process Inlet	1100 x 700	mm
Process Outlet	630 x 320	mm
Regeneration Inlet	500 x 700	mm
Regeneration Outlet	400 x 200	mm
<b>Weight</b>	900	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.

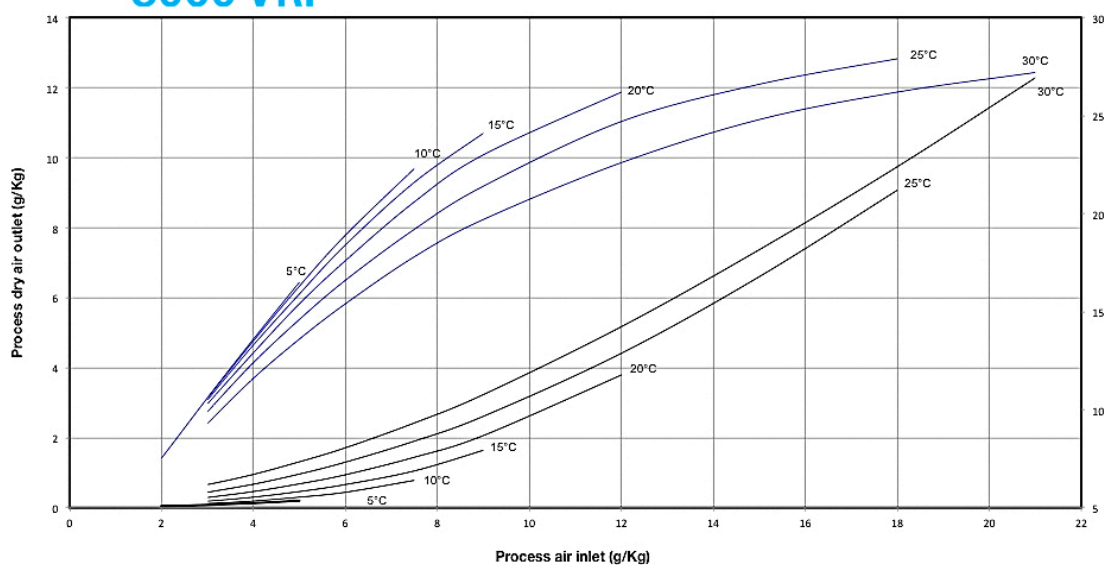
1. electric thyristor control fully modulating not available above Dryair !0000 VRF
2. Natural gas direct fired fully modulating
3. Liquefied petroleum Gas direct fired fully modulating
4. Steam minimum 5 Bar(g) fully modulating but dry steam must be supplied
5. HPHW High pressure hot water fully modulating.

## PERFORMANCE TECHNICAL DRAWINGS AVAILABLE UPON REQUEST

**DESICCANT  
DRYAIR  
8000 VRF**

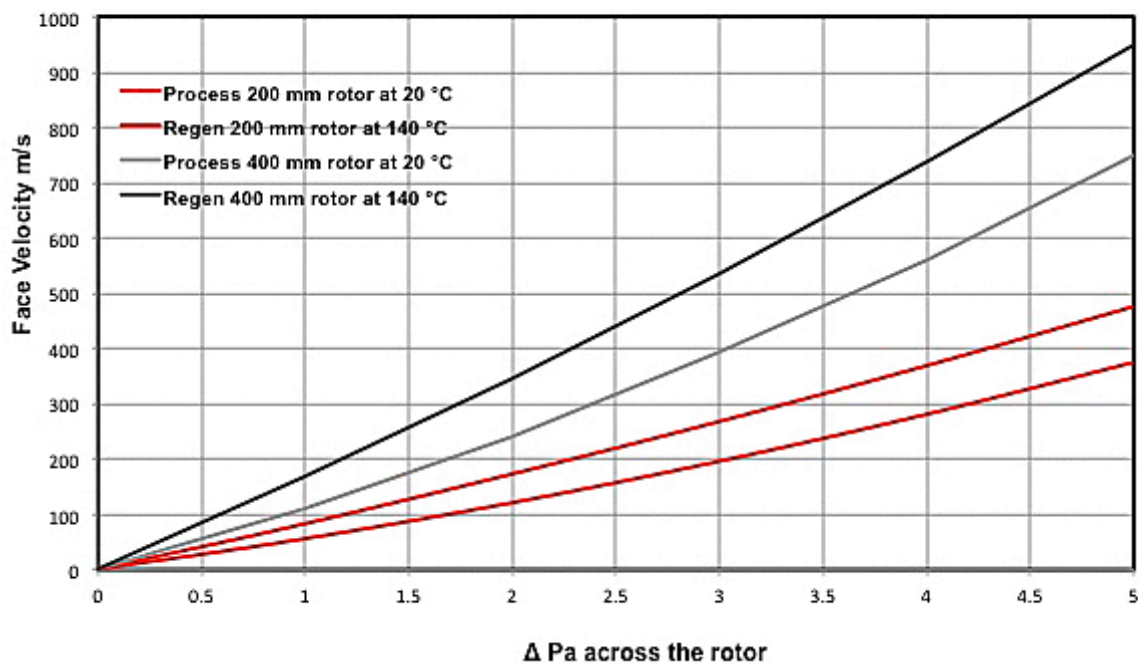
Dryair Performance Chart

234° process, 90° react & 36° pre-purge  
rotor speed 9 RPH  
Regen temp. 140°C, rotor depth 200 mm.



Dryair Performance Chart

Desiccant rotor pressure drop for the Process and regeneration sectors of 200 and 400 deep rotors



## PERFORMANCE TECHNICAL DRAWINGS AVAILABLE UPON REQUEST

Process Fan Curve for the 8000 VRF

