

DESICCANT DRYAIR 100000 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 |

SPECIFICATIONS

Process Airflow Nominal	100000	m ³ / hr
Process Pre filter	32 x 600 x 600 pleated panel G4	No / Size / Grade
Process main filter	32 x 600 x 600 rigid bag F7	N / Size / Grade
High Perf Silica Gel Rotor	4700 x 200	mm
Desiccant Wheel Rotation Speed	10	RPH
Process Fan Model	DD SRER-13-01600	
Motor Power	55	kW
Moisture Removal		
20°C @ 40% RH	607.2	kg / hr
20°C @ 60% RH	831.6	kg / hr
25°C @ 60% RH	913.2	kg / hr
30°C @ 80% RH	1048.8	kg / hr
Total Pressure / External Pressure	1218 / 533	Pa
Regeneration Airflow Nominal	36300	m ³ / hr
Regeneration Filter	14 x 600 x 600 pleated panel G4	No / Size / Grade
Heater Option	Electric Thyristor control	Electric PTC
Heater Power (on startup)	1512.5	kW
Heater Power (after initial start)	907.5	kW
Heater option	Electric Gas Steam	***
Fan Model	DD SRER-15-01120	
Motor Power	15	kW
Total Pressure / External Pressure	1031 / 442.5	Pa
Electrical Supply	3p/N/E 50 / 60 Hz	1p/N/E
Voltage	380 415	V / Ac
Electrical Input Power (on start up)	70	kW
Amps per phase	106.48 97.5 -----	A/Phase **
ΔPa Process / Regeneration / Pre-purge	208 / 262 / 168	Pa
Dimensions	5000 x 5000 x 4900	L x W x H mm
Process Inlet	2000 x 900	mm
Process Outlet	1600 x 1000	mm
Regeneration Inlet	1200 x 1000	mm
Regeneration Outlet	1150 x 730	mm
Weight	8100	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.

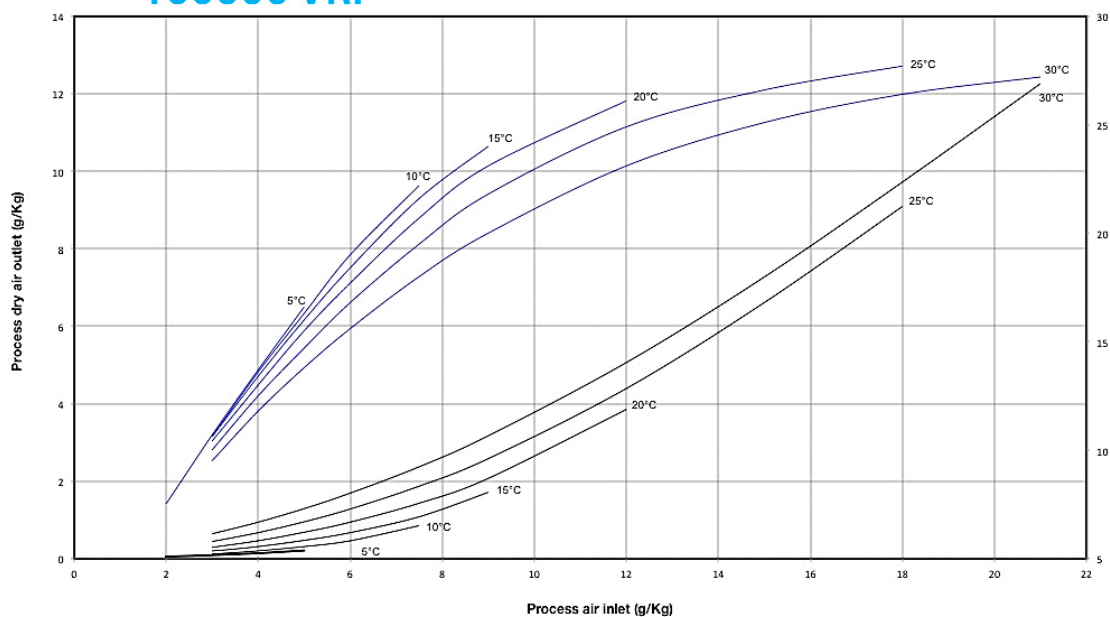
1. electric thyristor control fully modulating not available above Dryair !0000 VRF
2. Natural gas direct fired fully modulating
3. Liquefied petroleum Gas direct fired fully modulating
4. Steam minimum 5 Bar(g) fully modulating but dry steam must be supplied
5. HPHW High pressure hot water fully modulating.

PERFORMANCE TECHNICAL DRAWINGS AVAILABLE UPON REQUEST

DESICCANT DRYAIR
100000 VRF

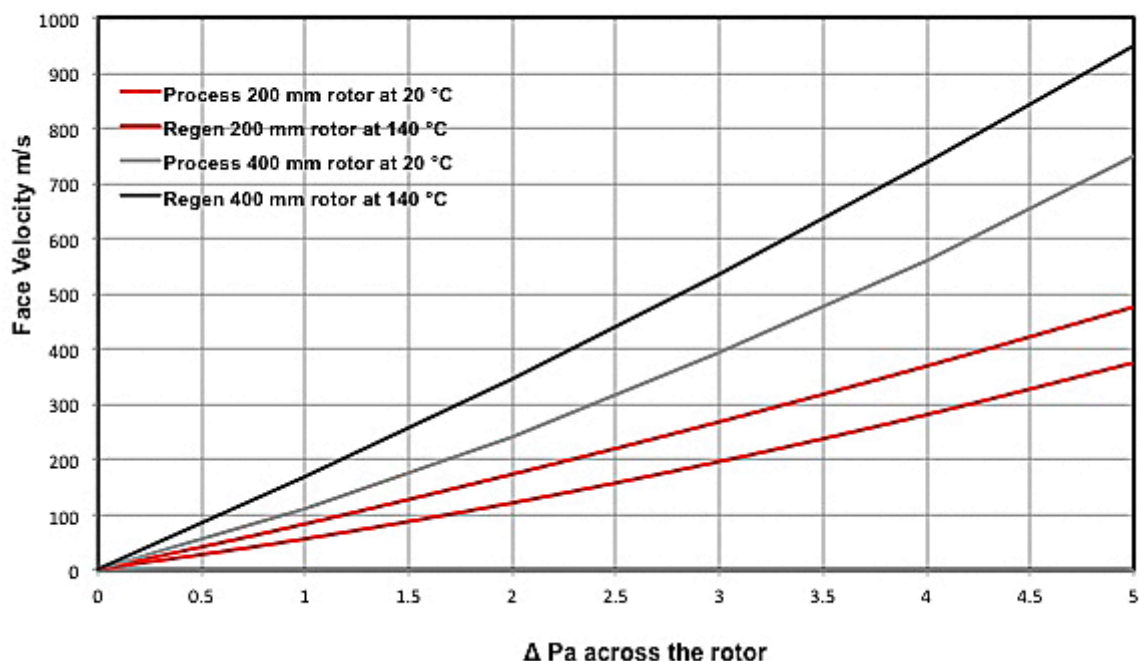
Dryair Performance Chart

234° process, 90° react. & 36° pre-purge
rotor speed 10 RPH
Regen temp. 140°C, rotor depth 200 m.m.



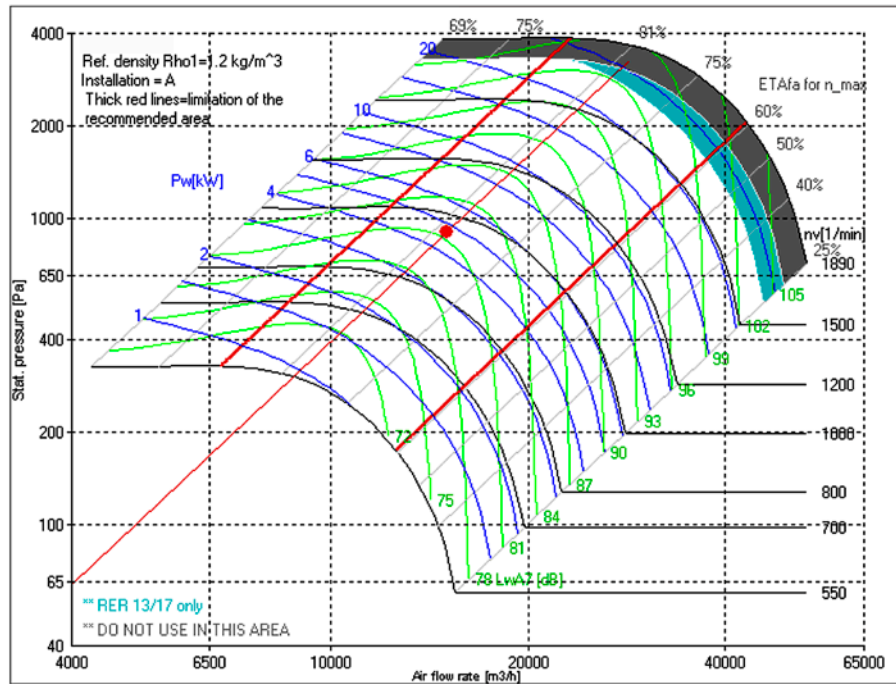
Dryair Performance Chart

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 100000 VRF



Regeneration Fan Curve for the 100000 VRF

