



- > 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**

$\rightarrow$	SILOS	$\rightarrow$	FOOD INDUSTRIES	$\rightarrow$	PHARMACEUTICAL
$\rightarrow$	TIMBER DRYING	$\rightarrow$	MILITARY STORAGE	$\rightarrow$	PACKAGING
$\rightarrow$	ARCHIVE STORAGE	$\rightarrow$	FREEZER STORAGE	$\rightarrow$	POWDER MANUFACTURE



### **SPECIFICATIONS**

Process Airflow Nominal	12500	m³ / 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	1725 x 200	mm
Desiccant Wheel Rotation Speed	9	RPH
Process Fan Model	DD SRER-11-0630	
Motor Power	5.5	kW
Moisture Removal		
20°C @ 40% RH	76.2	kg / hr
20°C @ 60% RH	104.7	kg / hr
25°C @ 60% RH	114.6	kg / hr
30°C @ 80% RH	131.55	kg / hr
Total Pressure / External Pressure	1128 / 461	Pa
Regeneration Airflow Nominal	4538	m³ / 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)	189.1	kW
Heater Power (after initial start)	113.4	kW
Heater option	Electric   Gas   Steam	***
Fan Model	DD SRER-11-0400	
Motor Power	2.2	kW
Total Pressure / External Pressure	995 / 441.5	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	Ра
Dimensions	2600 × 1900 × 2000	L x W x H mm
Process Inlet	1700 × 800	mm
Proces Outlet	800 × 400	mm
Regeneration Inlet	500 × 1000	mm
Regeneration Outlet	500 × 250	mm
Weight	1300	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

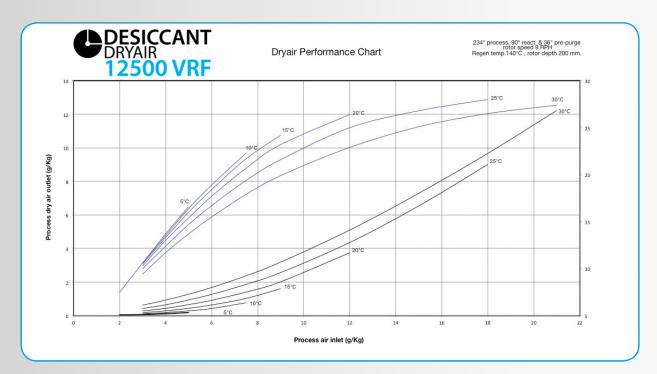
3. Liquified petroleum Gas direct fired fully modulating

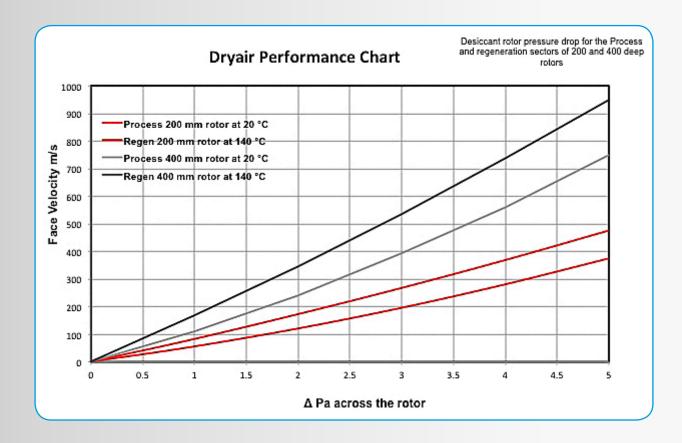
4. Steam minimum 5 Bar(g) fully modulating but dry steam must be supplied

5. HPHW High pressure hot water fully modulating.



#### PERFORMANCE TECHNICAL DRAWINGS AVAILABLE UPON REQUEST





# DESICCANT DRYAIR 12500 VRF

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