



Desiccant Rotor Dehumidifier



About Dezenno

Dezenno desiccant rotor dehumidifiers are manufactured to European standards. Our research and development team boasts over 20 years of experience in thermal and humidity control projects, both domestically and internationally. These units are produced in Vietnam, ensuring high quality at a reasonable cost.

Dezenno is committed to delivering optimal and highly effective solutions for controlling both absolute humidity and relative humidity down to very low dew points for various industrial applications.

Control

Customers can continuously adjust airflow via **the inverter, saving energy** while providing the exact airflow needed. Additionally, the PLC controller **automatically adjusts cooling capacity** to precisely meet the high demands of industrial applications.

High-absorption desiccant rotor

Dezenno utilizes top-quality desiccant rotors. Our design team employs professional software to meticulously calculate the appropriate rotor capacity for the intended installation environment, ensuring rated performance. This approach consistently delivers customer satisfaction.

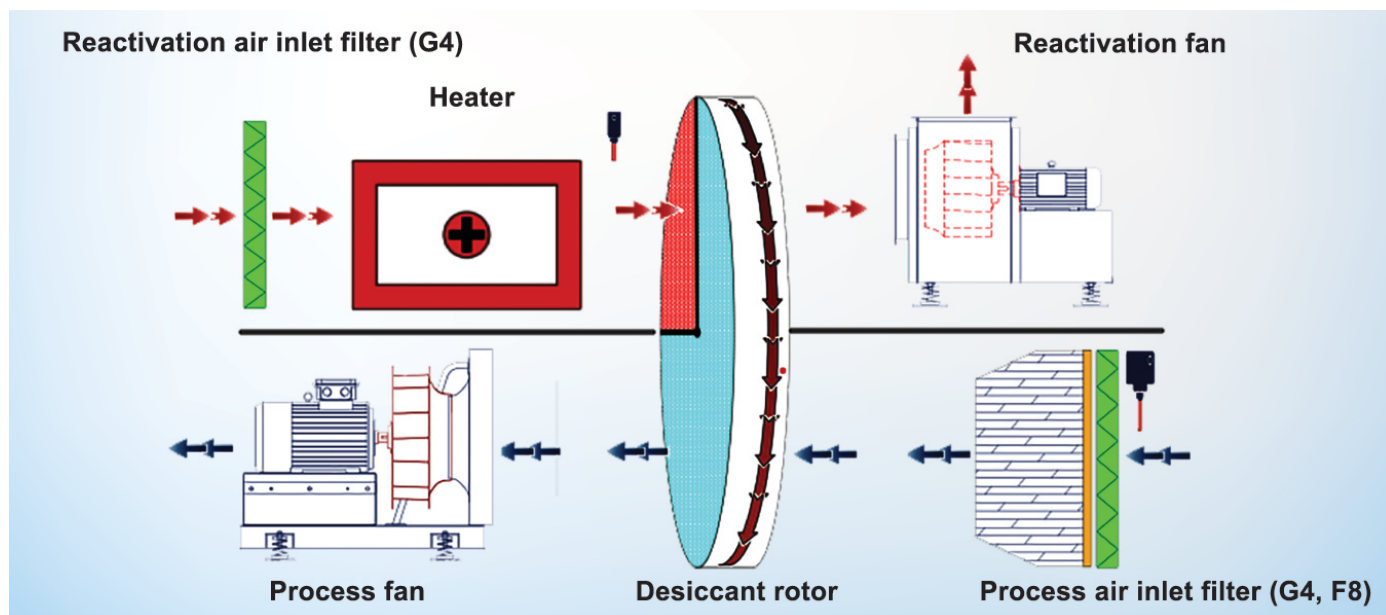
Key Benefits

- Lower investment and installation costs compared to combining air conditioners and dehumidifiers.
- Quick and simple installation.
- Applicable for low dew point applications.



Product Description

Dezenno's casing features a double-skin insulated construction to ensure minimal cross-thermal transfer, light weight, and resilience in harsh operating conditions. **Dezenno's** standard units include the following components.



Note: Depending on specific requirements, the heater can be entirely or partially replaced by a condenser coil for better COP (Coefficient of Performance).

Dezenno's well-trained engineers and representatives will assist clients throughout the selection process to ensure that the design, specifications, and configuration perfectly meet the core components of each project's unique requirements:

**Dezenno
320-1200**



Product made in
VIETNAM

**Dezenno
1500
-18000**



Product made in
VIETNAM

Technical Specifications - Dezenno 320-1200

Model	DEZENNO.DE-320	DEZENNO.DE-450	DEZENNO.DE-600	DEZENNO.DE-800
Process Airflow (CMH)	320	450	600	800
Dehumidification Capacity (kg/h) @20°C/60%	1.4	2.4	2.74	4.6
Return Air Filter	F5			
Fresh Air Filter	F5			
Process Fan (kW)	0.2	0.25	0.25	0.25
Process Fan Type	Plug fan			
Available External Static Pressure (Process) (Pa)	300			
Desiccant Rotor (mm)	300x100	350x100	350x100	450x100
Regeneration Airflow (CMH)	110	150	200	267
Available External Static Pressure (Regeneration) (Pa)	200			
Power Supply (V/Ph/Hz)	220/1/50			
Regeneration Fan (kW)	0.056	0.2	0.2	0.2
Heater Power (kW)	2.4	3.6	4.8	6.0
IP Rating	IP44			
Maximum Electrical Power (kW)	2.676	4.07	5.27	6.47
Dimensions (WxDxH) (mm)	450x370x440	600x520x642	600x520x642	980x780x900
Weight (kg)	20	40	40	100
Noise Level (dBA)	59			

Model	DEZENNO.DE-900	DEZENNO.DE-1000	DEZENNO.DE-1200
Process Airflow (CMH)	900	1,000	1,200
Dehumidification Capacity (kg/h) @20°C/60%	5	5.8	8.34
Return Air Filter	F5		
Fresh Air Filter	F5		
Process Fan (kW)	0.27		
Process Fan Type	Plug fan		
Available External Static Pressure (Process) (Pa)	300		
Desiccant Rotor (mm)	450x100	450x200	450x200
Regeneration Airflow (CMH)	300	333	400
Available External Static Pressure (Regeneration) (Pa)	200		
Power Supply (V/Ph/Hz)	380/3/50		
Regeneration Fan (kW)	0.2	0.2	0.75
Heater Power (kW)	7.2	10.8	10.8
IP Rating	IP44		
Maximum Electrical Power (kW)	7.69	11.29	11.84
Dimensions (WxDxH) (mm)	980x780x900	1,200x800x1,200	1,200x800x1,200
Weight (kg)	120	160	300
Noise Level (dBA)	65		

* Noise level measured at a distance of 3m.

Technical Specifications - Dezenno 1500-18000

Model	DEZENNO.DE-1500	DEZENNO.DE-3000	DEZENNO.DE-4500	DEZENNO.DE-6000	DEZENNO.DE-7500
Process Airflow (CMH)	1,500	3,000	4,500	6,000	7,500
Dehumidification Capacity (kg/h) @20°C/60%	10.5	20.4	32.2	43.3	53.5
Return Air Filter	G4				
Fresh Air Filter	G4				
Process Fan (kW)	2.2	3	4	5.5	5.5
Process Fan Type	Plug fan, Inverter control				
Available External Static Pressure (Process) (Pa)	500				
Desiccant Rotor (mm)	450x200	770x200	870x200	965x200	1,050x200
Regeneration Airflow (CMH)	500	1,000	1,500	2,000	2,500
Available External Static Pressure (Regeneration) (Pa)	300				
Power Supply (V/Ph/Hz)	380/3/50				
Regeneration Fan (kW)	0.75	1.1	1.5	2.2	2.2
Heater Power (kW)	15.0	30.0	45.0	60.0	75.0
IP Rating	IP44				
Maximum Electrical Power (kW)	18.07	34.22	50.62	67.82	82.82
Dimensions (WxDxH) (mm)	1,850x1,000x1,550	2,100x1,100x1,650	2,500x1,250x1,800	2,600x1,500x2,200	2,600x1,500x2,200
Weight (kg)	550	790	870	900	1,000
Noise Level (dBA)	72				

Model	DEZENNO.DE-9000	DEZENNO.DE-10000	DEZENNO.DE-12000	DEZENNO.DE-15000	DEZENNO.DE-18000
Process Airflow (CMH)	9,000	10,000	12,000	15,000	18,000
Dehumidification Capacity (kg/h) @20°C/60%	64.3	71.5	89	102.6	134
Return Air Filter	G4				
Fresh Air Filter	G4				
Process Fan (kW)	7.5	7.5	7.5	11.0	11.0
Process Fan Type	Plug fan, Inverter control				
Available External Static Pressure (Process) (Pa)	500				
Desiccant Rotor (mm)	1,200x200	1,200x200	1,370x200	1,370x200	1,730x200
Regeneration Airflow (CMH)	3,000	3,333	4,000	5,000	6,000
Available External Static Pressure (Regeneration) (Pa)	300				
Power Supply (V/Ph/Hz)	380/3/50				
Regeneration Fan (kW)	2.2	2.2	3.0	3.0	4.0
Heater Power (kW)	90.0	100.0	120.0	150.0	180.0
IP Rating	IP44				
Maximum Electrical Power (kW)	99.82	109.82	130.62	164.12	195.12
Dimensions (WxDxH) (mm)	3,000x1,600x2,170		3,200x1,700x2,520		3,500x2,300x2,820
Weight (kg)	1,150	1,200	1,300	1,400	1,600
Noise Level (dBA)	72				

* Noise level measured at a distance of 3m.