

NOVABLAST

DEHUMIDIFIERS



MODELS

MODEL NO.	CAPACITY
NDH-8.000	8000 M ³ /H, 1500 PA, 5.5 KW
NDH-11.000	11000 M ³ /H, 1100 PA, 7.5 KW
NDH-15.000	15000 M ³ /H, 1500 PA, 11 KW

DEHUMIDIFIERS

GENERAL INFORMATION

Dehumidifiers are versatile devices designed for both stationary and mobile applications. They come in a robust frame that facilitates transportation by various means like forklifts, trucks, and cranes. You can easily connect these devices to power supplies and air ducting systems.

How does it work?

1. Moisture Absorption: When you place the dehumidifier in areas like tanks, halls, or other enclosed spaces, it effectively draws in the moisture-laden air.

2. Silica Gel Rotor: The core of the dehumidifier is a rotor, which contains silica gel—an absorbent material. This gel is infused into an inorganic fibre material. Silica gel is essentially synthetically made quartz that features numerous minute pores. These pores work on a capillary principle, absorbing water from the surrounding air. Because of the countless number of these tiny pores, the internal surface area of silica gel is enormous.

3. Rotor Composition: The rotor is majorly composed of silica gel, constituting 82% of its structure. The size of these rotors can be extensive, up to 3000 mm in dimension, allowing them to dehumidify large volumes of air.

4. Continuous Operation: For consistent dehumidification, the rotor spins at a slow pace, roughly 15 rotations per hour. Once the air is filtered, it enters the process air section, where it's immediately available as dried process air. As the device absorbs moisture, it releases heat, leading to a temperature rise in the dried air.

In essence, these dehumidifiers leverage the moisture-absorbing properties of silica gel to effectively and continuously reduce humidity in various environments.

FACILITIES

- ✓ Metallic Frame designed to be lift by crane or forklift.
- ✓ G4 process and re-generation filter.
- ✓ Automatic valve with Belimo servodrive on re-generation air inlet.
- ✓ Rotor movement detection and alarm.
- ✓ Remote control option (start-stop).
- ✓ Alarm re-generation and process filters dirty.
- ✓ Electric box with S7 1200 Siemens and display KTP 400 color touchscreen.
- ✓ Process air flow adjustable in 4 steps.
- ✓ Automatic temperature control on re-generation air.
- ✓ Phase error detection, main contactor take out the heater on errors.
- ✓ Separate general switch.



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TECHNICAL INFORMATION

NDH-8.000 TECHNICAL SPECIFICATIONS	
VENTILATOR PROCESS AIR	8000 M ³ /H, 1500 PA, 5.5 KW (900 PA AVAILABLE)
VENTILATOR REGENERATION AIR	2350 M ³ /H, 700 PA, 1.5 KW
ROTOR	PRODRY PPS1050 X 200 MM
CAPACITY	64 KG/H (FOR 20 GRC AND 80% RH)
HEATER	3X30 KW
SUPPLY	3X400 VCA, 50 HZ, 97 KW
OPTIONAL	<ul style="list-style-type: none"> • POST HEATER MOUNTED ON EQUIPMENT (2 X 18KW OR 2 X 24KW) • COOLING GROUP IN A ZINC-PLATED FRAME (134 KW THERMAL CAPACITY)

NDH-11.000 TECHNICAL SPECIFICATIONS	
VENTILATOR PROCESS AIR	11000 M ³ /H, 1100 PA, 7.5 KW (900 PA AVAILABLE)
VENTILATOR REGENERATION AIR	3667 M ³ /H, 700 PA, 1.5 KW
ROTOR	PRODRY PPS1370 X 200 MM
CAPACITY	88 KG/H (FOR 20 GRC AND 80% RH)
HEATER	3X42 KW
SUPPLY	3X400 VCA, 50 HZ, 135 KW
OPTIONAL	<ul style="list-style-type: none"> • POST HEATER MOUNTED ON EQUIPMENT (2X18KW OR 2X24KW) • COOLING GROUP IN A ZINC-PLATED FRAME (185 KW THERMAL CAPACITY)

NDH-15.000 TECHNICAL SPECIFICATIONS	
VENTILATOR PROCESS AIR	15000 M ³ /H, 1500 PA, 11 KW (900 PA AVAILABLE)
VENTILATOR REGENERATION AIR	5000 M ³ /H, 600 PA, 2.2 KW
ROTOR	PRODRY PPS1525 X 200 MM
CAPACITY	120 KG/H (FOR 20 GRC AND 80% RH)
HEATER	4X42 KW
SUPPLY	3X400 VCA, 50 HZ, 182 KW
OPTIONAL	PRE-COOLER 250 KW (THERMAL CAPACITY) POST HEATER MOUNTED ON EQUIPMENT (2X18 KW OR 2X24 KW OR 2X30KW) COOLING GROUP IN A ZINC-PLATED FRAME (250 KW THERMAL CAPACITY)