

Munters Zeolite Rotor Cassette

Energy efficient VOC abatement

Features/Benefits

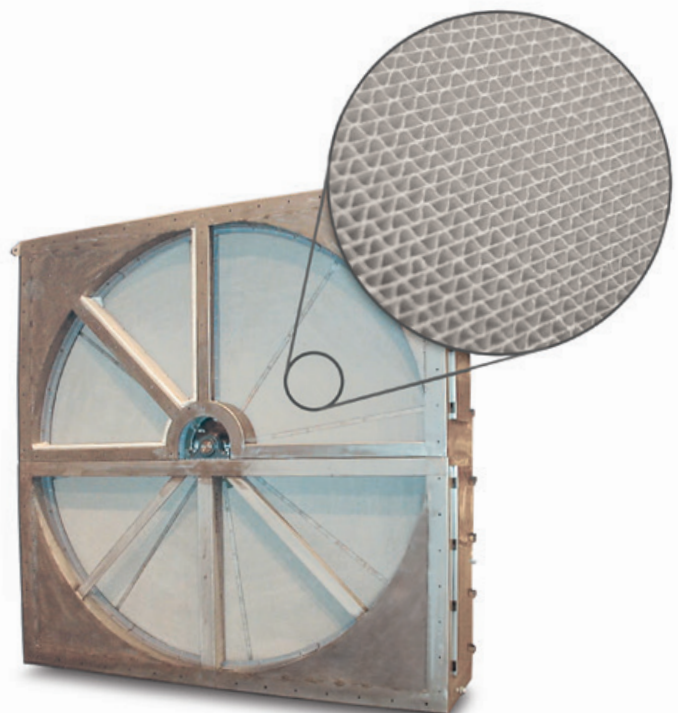
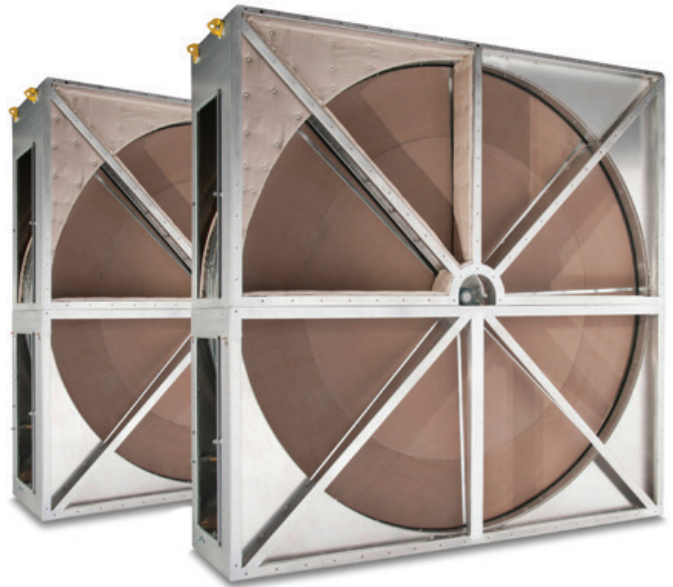
- 100% inorganic, eliminating fire risk
- No solvent buildup due to 100% rotor regeneration
- Regeneration occurs at 182°C, reducing energy costs
- Size ranges from 2190 to 4800 mm diameter to accommodate various flow rate specifications

Munters Zeolite Rotor Cassettes are the leading technology for abatement of volatile organic compounds (VOCs). With more than 300 systems currently in service, our install base includes some of the world's most respected companies. Munters pioneered the development of the hydrophobic zeolite for VOC adsorption over 60 years ago and manufactures the rotor and cassette in our ISO 9001:2015 certified US facility.

Munters uses a proprietary mixture of zeolites with different pore sizes to cover a wide range of VOC molecule sizes. The pore sizes are all consistent which prevents large molecules from blocking active adsorption sites. These parameters make Munters zeolite rotors 100% inorganic and, therefore, have zero risk of fire unlike carbon adsorbers.

The sectors of the Munters zeolite rotor are bolted together versus glued, allowing for easy replacement if necessary. Rotor rotation is powered by a fractional horsepower motor and redundant belt around the circumference of the rotor. The drive motor and redundant belt provide a robust assembly and increased reliability. (Please refer to Rotor Drive Assembly image on reverse side).

As a result of aluminum construction, Munters zeolite rotors are corrosion resistant and lightweight. Rotors are available in multiple sizes to handle a wide range of flow rates and can ship via standard shipping containers (rotors 2446 mm in diameter and larger will require breakdown for shipment).



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Maintenance-free design

Munters engineers optimize each system for maintenance-free design ensuring 100% zeolite regeneration and zero buildup of VOCs on the rotor during every revolution. High performance efficiency is maintained for the life of the rotor without the need for nuisance maintenance activities like water washing and high temperature bake-outs.

Scope of supply

- Hydrophobic zeolite rotor
- Painted aluminum casing
- Gear reducer
- Rotor drive assembly

IEC

400V / 50Hz

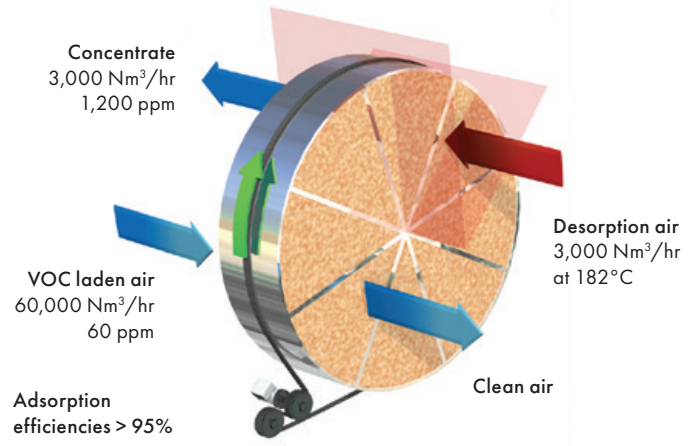
Dual Rated NEMA

230/460 V / 60Hz

190/380 V / 50Hz

- Rotor hub and spokes
- Elastometer seals

Zeolite rotor technology



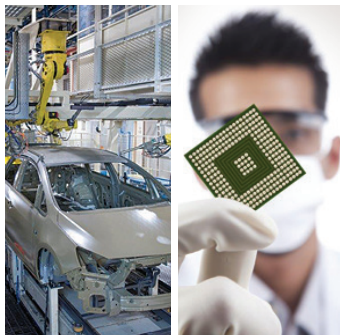
20:1 concentration ratio as shown
Typical concentration ratios range from 15:1 to 30:1

Rotor sizing

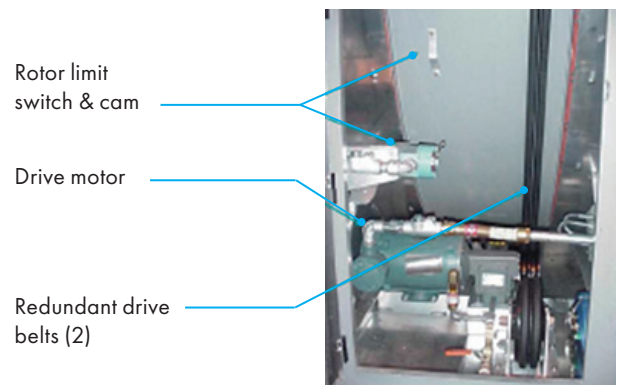
Rotor diameter	Depth	Flow range (NCMH)	Dimensions (L x W x H)
2190 mm	400 mm	9,000 - 44,000	2.4 x 0.9 x 2.4
2446 mm	400 mm	12,000 - 60,000	2.8 x 0.9 x 2.7
2946 mm	400 mm	18,000 - 88,000	3.2 x 0.9 x 3.1
3546 mm	400 mm	25,000 - 128,000	3.8 x 0.9 x 3.7
4200 mm	400 mm	36,000 - 182,000	4.5 x 0.9 x 4.3
4800 mm	400 mm	47,000 - 236,000	5.1 x 1.2 x 5.0

Industries served

- Semiconductor
- TFT/LCD (flat panel display manufacturing)
- Automotive paint finishing
- Aerospace paint finishing
- Coating
- Printing/packaging
- Composite manufacturing



Rotor drive assembly



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