



Product sheet

Desiccant System Solution™ – DSS
Desiccant dehumidifier

- Energy efficient dehumidification
- Gas, steam and electric reactivation standards
- Configurable boxes and panels
- Different rotor types
- Controls fully configurable with standard options

Desiccant System Solution™ – DSS

The Desiccant System Solution (DSS) offers a wide variety of material and components to fit most difficult applications for indoor and outdoor installation.

A complete DSS system, ready for operation, consists in its standard design of components for the pre & post treatment, dehumidification rotor with reactivation and required fans for process and reactivation air.

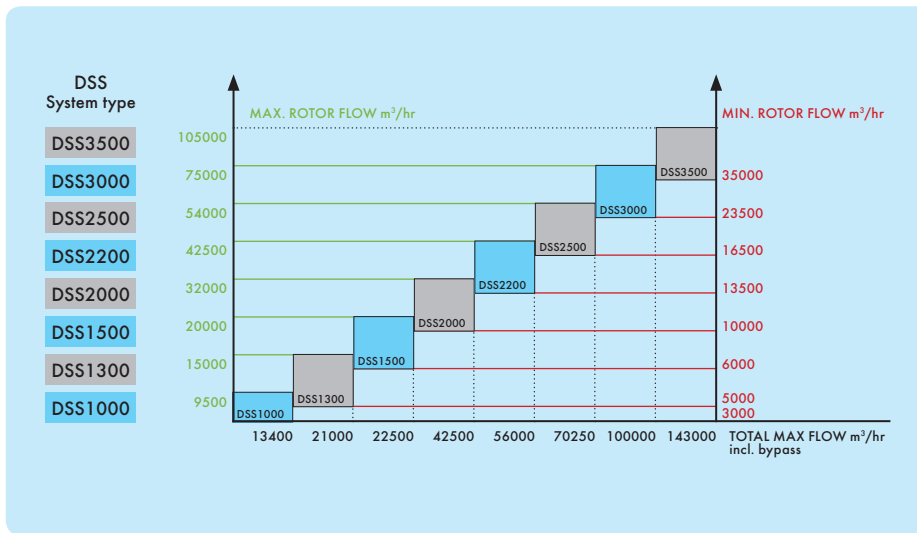
All individual components and the rotor are fitted in a fully configurable box system, modular construction with insulated panels applying to EN1886 standards. All casing parts are corrosion resistant by use of galvanized steel plates or stainless steel. Each unit consists of a self-supporting and stable sectional frame construction with form-fitting panels inserted. The panels are easily removable from all sides, mounted to a rubber-seal. The inner and outer panel surfaces are configurable in material.

The systems with controls included will be completely tested by the factory, so that the delivered units can be easily installed locally and started up in a short period. A complete configurable system unit with many possibility for options.



DSS - Desiccant Dehumidifier

DSS size selection chart



DSS system sizes and rotor types

Four different desiccant rotor types are available in relation to the application where the unit needs to be installed.

Eight different rotor sizes can be selected with different widths in relation to the requested dehumidification capacity.

DSS features:

- 8 unit sizes
- 4 desiccant rotor types
- Process airflow up to 145.000 m³/hr
- Configurable fans on process circuit
- Electric, steam and gas reactivation as standards
- Pre and post treatment fully configurable
- Full humidity and temperature control

Controls and communication

Systems are available with or without a control system.

The DSS can be equipped with a Munters custom configured control system mounted in a separate control enclosure.

Available controls and actions:

- Humidity, absolute or relative
- Flow control or pressure
- Temperature control
- Controlling of all functions and alarms
- HMI systems local or on distance
- All wired and factory tested

The controls can, as a standard, be equipped with communication modules of different types (Modbus, bacnet, etc.) that can communicate with your local BMS system. This enables integration of the DSS with local networks without losing the power of special designed systems for a desiccant dehumidification system. Each DSS dehumidifier will be designed and built to your specific needs and adapted to the specific application in accordance with the existing EU standards.

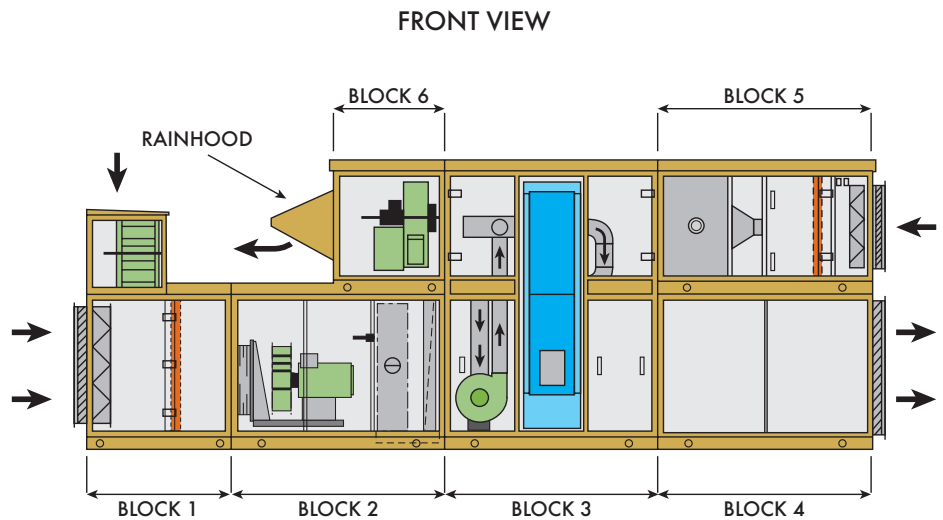
Quality and component choice

All components like fans, filters and coils can be configured to fit the requested application. A wide range of standardized components is selectable but also special designs are possible.

The total system is balanced in component selection and running specifications to operate as energy efficient as possible, internal or

external recovery systems will be used to insure this.

Systems for mounting in or outside in different ventilation classes are available all applying to the EN1886 standards. The unit can be split in different block's that make delivery and site installation easier, see example drawing.



For more information visit munters.com



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