

PURESYSTEM™

Desiccant dehumidifier

- Stainless steel casing for food and hygienic applications
- Welded AISI304 frame with removable insulated panels for stability and high airflows
- Indoor / Outdoor installation
- Customer oriented design concerning size, airflow direction, controls or other requirements
- Rotor size up to 4,5 m
- Airflow up to 200.000 kg/h
- Energy saving options available



## PureSystem™ Series

Our engineered drying systems have the ability to totally condition the air. These systems consist of adsorption dehumidification, cooling, heating or a combination of all. All installations are tested for durability, efficiency and economic aspects in our production facility.

During the design phase we integrate our customers specific requirements. Every situation, condition and application shows different demands. Consequently no "standard solutions" will be applicable. Our customer-oriented design is reflected in offering high quality solutions primarily for the food, chemical and pharmaceutical industry. All equipment is manufactured in accordance with ISO9001 and complies with the CE and PED standards of legislation. Each machine will be shop tested before it leaves our production facility.

The Munters rotor technology stands for more than 60 years of customer oriented global experience and reliability. Innovative control technology adapted to the requirements enables high performance and energy efficient operation.



# PureSystem™ Series technical description

## Highlights:

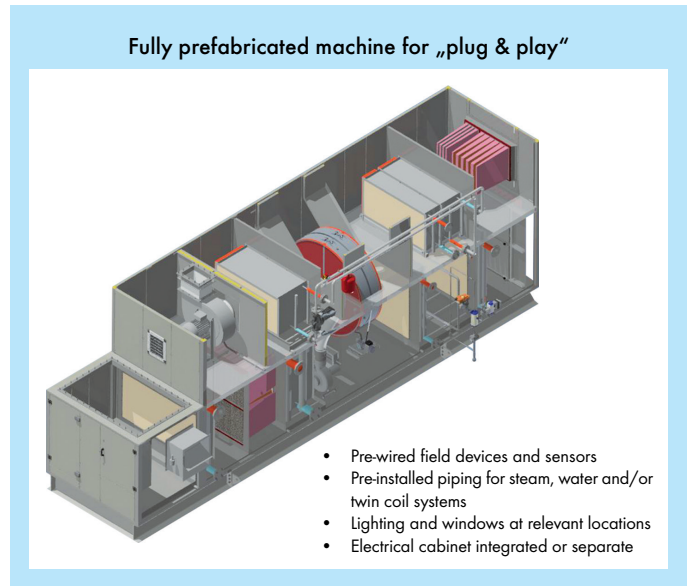
PureSystem™ units can be built up to a rotor size of 4,5 m allowing for a massflow capacity of up to 200.000 kg/h giving a moisture removal capacity of more than 1.800 kg/h. Many competitive installations would require 2 machines to achieve the same result. If requested the PureSystem™ can have a hygienic finish which will make cleaning easier and reduce the risk of product contamination. Also preinstalled piping and valves including other field components and wiring would be an option before having the unit shipped to the intended destination. Commissioning of the PureSystem™ and training of the operation personnel will round up our scope of supply before our Service team might take over the responsibility for maintenance and future support.

## Specials:

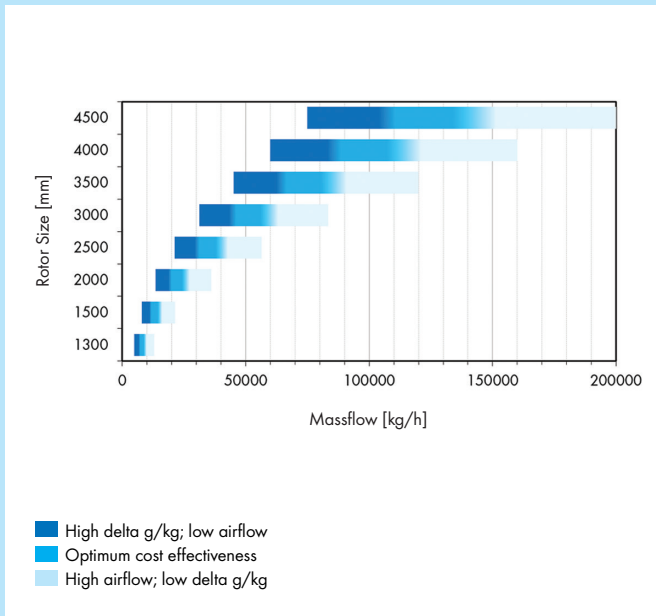
The PureSystem™ units hold the potential for additional benefits. For certain applications high temperatures and massflows will positively influence the product output. The PureSystem™ contributes to this by utilizing high temperature filters and rotor gaskets. Whilst the filter frames can be prepared for DOP test, meaning that the treated air will be 100% filtered, gaskets for casing and flexibles can be chosen as FDA approved.

## General:

The dehumidifier housing consists of double-walled 40mm (25mm) rockwool insulated steel panels in a welded stainless steel frame. It will be mounted on a UNP hot dipped galvanized supporting frame. Doors and hatches for service and maintenance are placed at agreed locations. The inside of the cabinet is made of stainless steel panels whilst the outside features Plastisol sheets as standard. Any section containing rotating parts is equipped with window and lighting. All fans are made of coated steel casing and impellers and have direct driven IE3 (IE2) motors. Any applied grease is food grade approved. Stainless steel (AISI304) frames and tubes with aluminum fins characterize all heat exchangers for cooling and heating. Relevant drip trays are made of AISI304 as well.



Wheel size and airflow



Features	Basic	Option
Panel material, inside	AISI304	AISI316
Panel material, outside	Plastisol	AISI304/316
Fan material	Coated steel	AISI304
Rotor media	HPS	Quantum
Reactivation media	Steam	Gas/Electric
FDA approval	Grease	Gaskets/flexibles
Heat exchangers (tube/fin)	AISI304/Al	AISI304/AISI304
Inlet filters	F7	up to F9
Outlet filters	none	up to H13
Drip trays	AISI304 flat	AISI304 on slope
Heat recovery	none	"Twin coil/purge/ORC/condensate cooler"
Control system	Siemens Climatix	"Siemens S7/ Allen Bradley"

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