

# AVENTICS™ Marine Air Treatment Scope

Effective Air Treatment with RDD Technology

## PRODUCT



## Features

- Units for various volume flow rates for basic to demanding air quality requirements
- Single versions or redundant featuring two compressed air outlets for pilot and blowing air
- Broad range of applications with combinable modules
- Designed to DNV guidelines
- Options with high-performing AVENTICS™ RDD Air Dryer

## Benefits

- Reduce wear and increase efficiency of pneumatic equipment
- Prevent downtime during operation and maintenance
- Protect particularly moisture-sensitive equipment
- Implement highly effective drying with low air consumption
- Wide working temperature range
- Flexible installation of pressure reduction and air dryer panels

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## High-Performance Technology for a Harsh Environment

The AVENTICS™ Air Treatment scope for Marine applications ensures the function of the pneumatic systems on board of your vessel and extends their service life.

Effective pressure reducing, filtering and air-drying units make sure that dirt particles, water and oil residue stay out of the pneumatic control circuit providing just the right air quality required for smoothly operating your system.

### Redundancy provides fail-safe operation

Emerson's AVENTICS™ Air Treatment Units are available as single or redundant version. Redundant units enable maintenance while air remains continuously available through a bypass and second outlet, which can be operated simultaneously or alternately.

### Aventics™ RDD Air Dryer meets highest demands

Units with an integrated AVENTICS RDD Air Dryer (Roll-Up Dessicant Drying) offer the highest air quality for fail-safe and long-lasting operation of the pneumatic control system. RDD Air Dryers remain unaffected by shock and vibrations thanks to a new, immobile adsorption media which is rolled up tightly in a barrel type housing. In standard desiccant dryers, friction causes the granules to decompose and generate dust, reducing the dryer's performance and service life. The RDD technology in comparison extends the service interval to eight years or 25,000 operating hours. This ensures consistent performance throughout the life of the product and reduces life cycle costs.

### Key facts

- Volume flow rates from 255 to 6,750 NI/min (at 7.5 bar)
- Pressure reduction from 30 bar to 0.5 – 10 bar
- Pressure range 0 – 30 bar
- Particle filtration up to 0.1 µm
- Working temperature range of -20°C to + 80°C (-4 to 176°F)
- Parallel or alternate supply of pilot and blowing air
- Dew point reduction > 40°C and volume flow rates of 255, 930 and 2,370 NI/min with units featuring RDD Air Dryer

### Optimal conditioning for every application:

Air quality	Application Examples	Flow rates (NI/min)	Purity after Treatment				ISO Standard
			Particles	Size	Water	Oil	
Basic	Air tools	1500 / 6750	5-10 mg/m <sup>3</sup>		< 0,5 g/m <sup>3</sup>	< 5 mg/m <sup>3</sup>	7:8:4
Standard	Control of butterfly valves	1340/ 2450 / 4200	<100000	1-5 µm	0.5-5 g/m <sup>3</sup>	< 5 mg/m <sup>3</sup>	5:8:4
High	Tank-Level Gauging	1640 / 2600	<1000 <90000	1-5 µm 0.5-1 µm	0.5-5 g/m <sup>3</sup>	<1 mg/m <sup>3</sup> / <0.1 mg/m <sup>3</sup>	3:7:3
Excellent (RDD dryer)	Engine control Exhaust gas analysis systems	215 / 1000 / 2370	<100 <6000 <400000	1-5 µm 0.5-1 µm 0.1-0.5 µm	Dew point reduction > 40 °C / > 20 °C	< 0.1 mg/m <sup>3</sup>	2:2:2 2:3:2

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