

ScandVane Intake filter systems

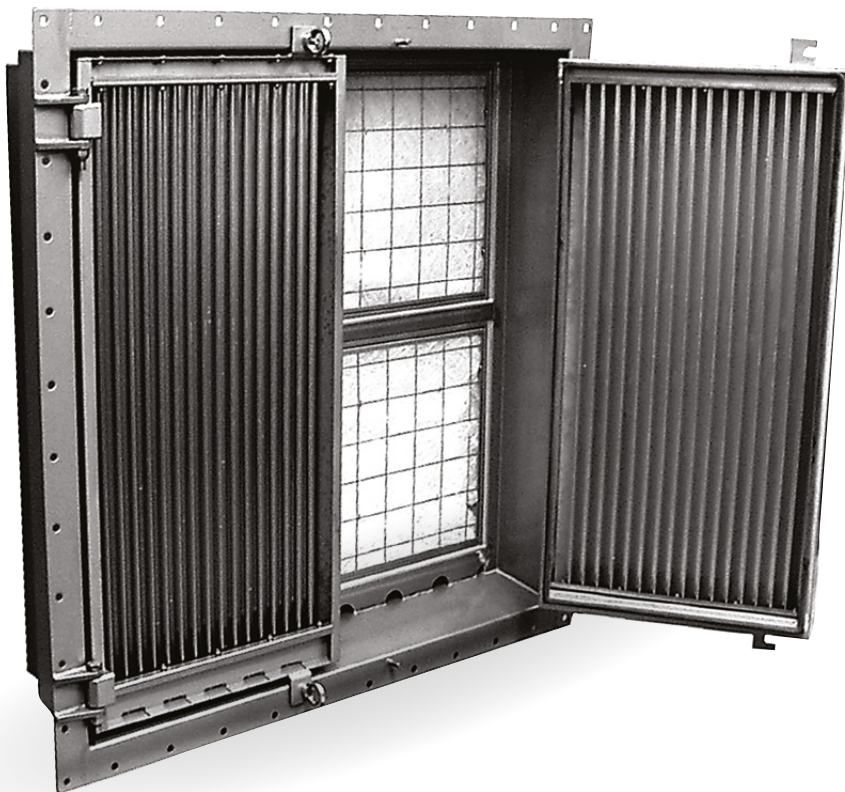


ScandVane intake filter systems

THE ALL-IN-ONE SOLUTION FOR WATER AND DUST SEPARATION

The ScandVane series of intake filtration systems provides complete protection against water, salt and dust particles in heavy-duty designs that meet the demand for high air quality.

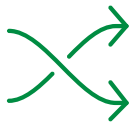
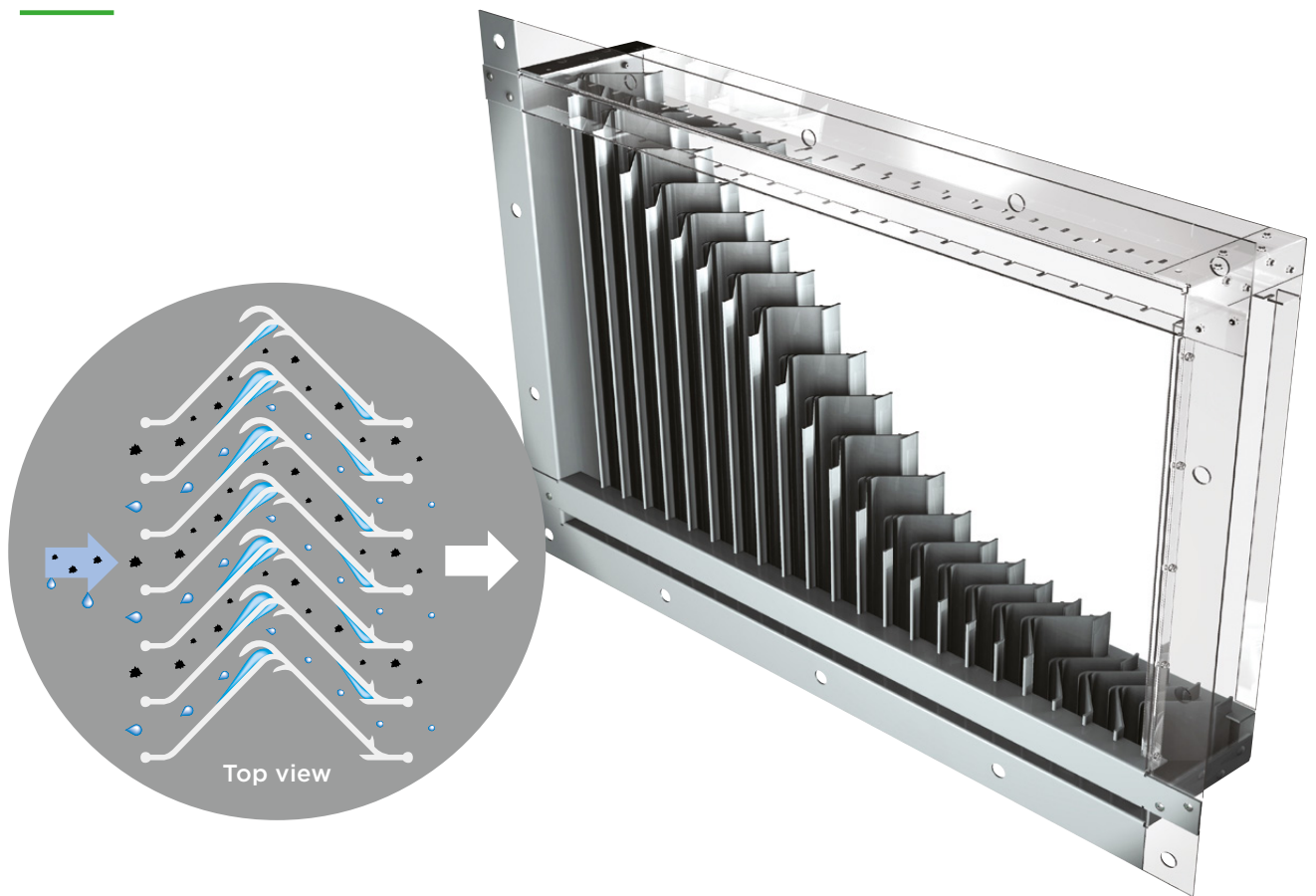
ScandVane consists of marine-grade aluminium or polypropylene vanes in an aluminium, stainless steel or aluzinc frame. Available with an integral particle filtration stage with cassette-loaded filter mats or front-serviced panel filters.



KEY FACTS

- Highly efficient water separation
- Available with an integrated particle filtration stage for dust and salt removal
- Compact design
- Available in stainless steel, aluminium and plastic
- Standard and custom versions available
- Simple servicing and maintenance
- Low life-cycle costs

A design proven in the field



MULTI-DIRECTIONAL PROFILES

Vertical profiles take the incoming air flow through multiple changes of direction.



SEPARATION HOOKS

Integrated hooks separate the water droplets from the air stream.



DRAINAGE CHANNELS

Captured water drains to the bottom of the unit and away from the downstream flow.



The single-stage ScandVane DS



From their initial development, each component is designed around the needs of the end user and solely for use in the ScandVane system. This provides seamless integration of each element, and simplifies servicing and maintenance.

ScandVane DS

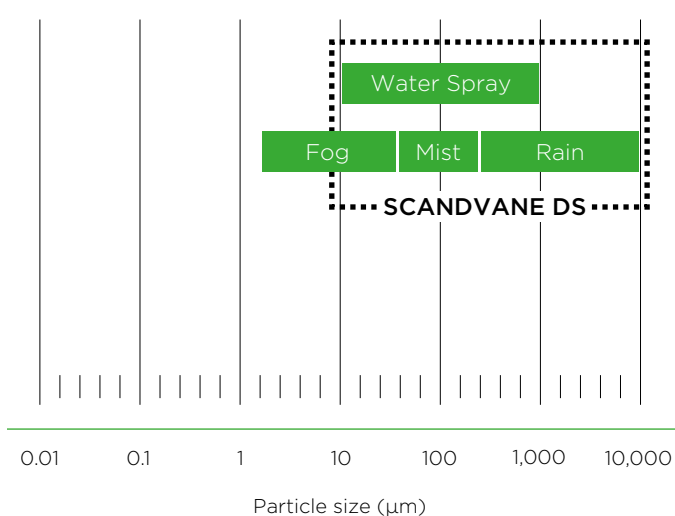
For water protection only

ScandVane DS is a single-stage solution that provides effective defense for applications that need protection from moisture.

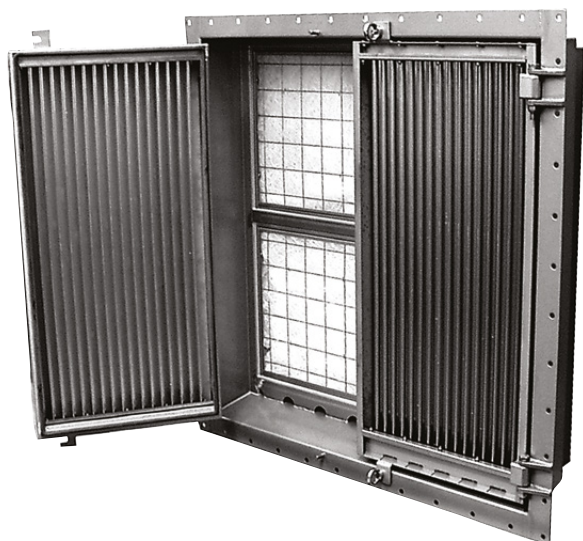
It's available in two configurations - a Standard model constructed from polypropylene vanes in an aluzinc frame for normal conditions, and a Marine version with marine-grade aluminium profile in a stainless steel frame that's suitable for the harshest of environments.

Both versions are constructed from robust, anti-corrosive materials, and combine long service life with high separation efficiencies.

ScandVane DS - simply dry



The double-stage ScandVane DDS



ScandVane DDS(F) & DDSC(F)

For water and dust separation

Scandvane DDS series shares the same vane technology as the Scandvane DS range, but with the additional benefit of an integrated dust filtration stage. This makes it ideal for use where space is at a premium or you need an all-in-one solution.

Available with a choice of particle filter types, ScandVane DDS provides dust efficiency up to Coarse 90% according to ISO 16890. Each filter option features a hydrophobic media that captures dust particles and coalesces fine water droplets away from the downstream air flow.

A choice of particle filters



Airpanel Pro H2O Duo

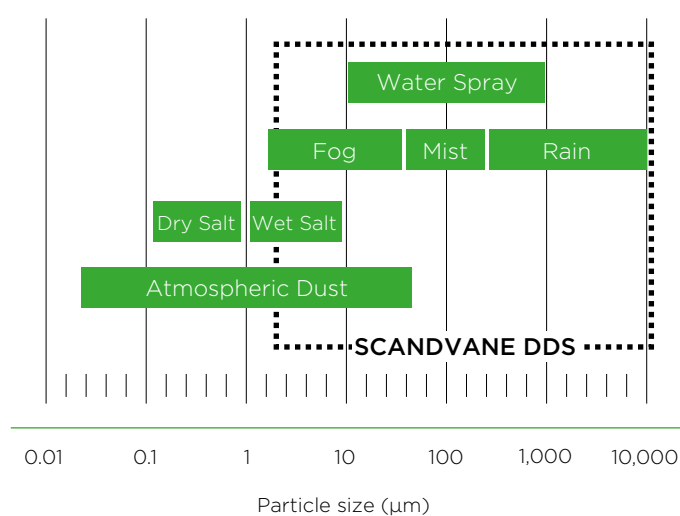
Available in efficiencies of Coarse 75% and Coarse 90% according to ISO 16890.



Airmat Pro H2O Power

Available in efficiency of Coarse 60% to ISO 16890.

ScandVane DDS - dry and clean



Technical data

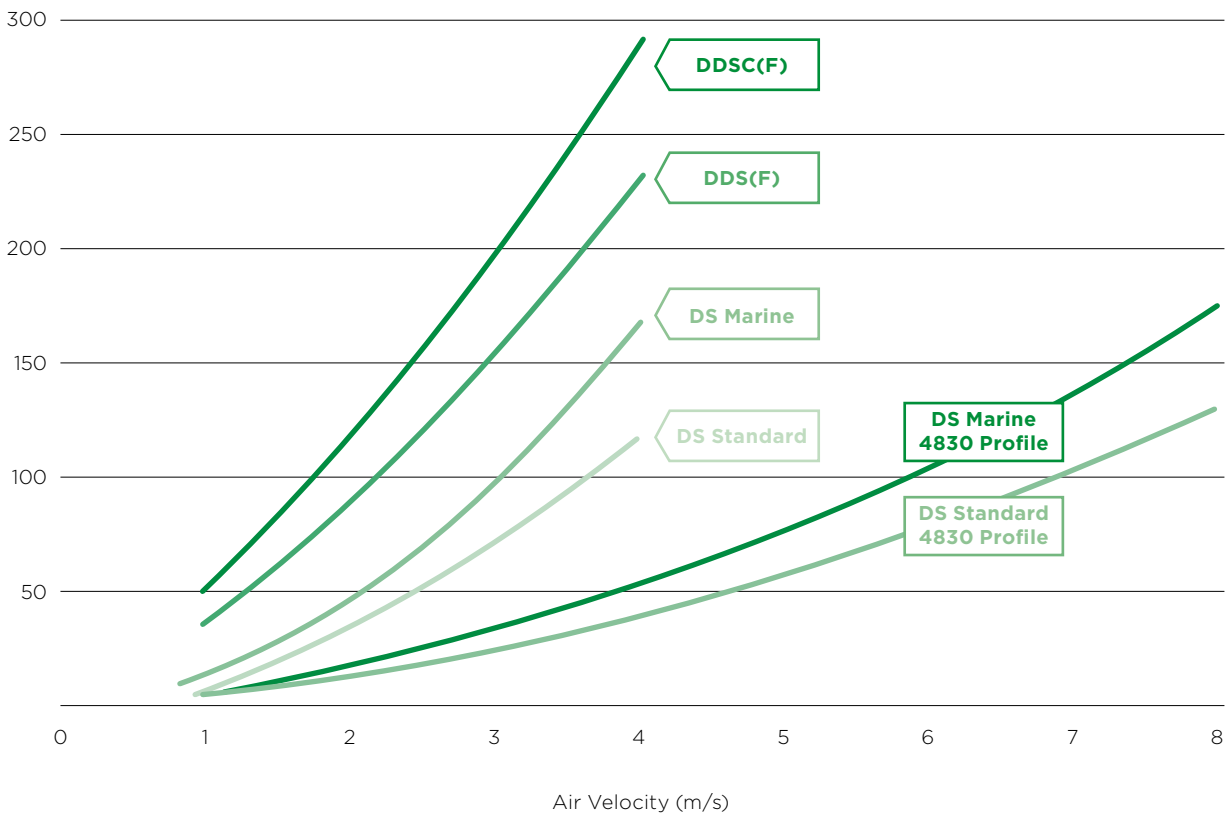
	DS Standard	DS Marine	DDS(F)	DDSC(F)
Stages	1	1	2	2
Maximum capacity	< 80 000 m ³ /h	< 80 000 m ³ /h	< 68 000 m ³ /h	< 68 000 m ³ /h
Maximum air flow	8 m/s	8 m/s	3.3 m/s	3.3 m/s
Pressure drop	< 115 Pa	< 165 Pa	< 230 Pa	< 290 Pa
Water removal efficiency¹	99%	99%	99.9%	99.9%
Water removal	< 25 litres/m ² /min	< 25 litres/m ² /min	< 25 litres/m ² /min	< 25 litres/m ² /min
Housing material	AZ185 [AluZn]	Stainless steel [1.4404/AISI 316L]	Stainless steel [1.4404/AISI 316L]	Stainless steel [1.4404/AISI 316L]
Droplet separator profile	Polypropylene	Marine-grade aluminium [AlMgSi0,5]	Marine-grade aluminium [AlMgSi0,5]	Marine-grade aluminium [AlMgSi0,5]
Corrosion class	C4	C5	C5	C5
Distance profile	25 & 35 mm	25 & 35 mm	30 mm	30 mm
Filter type	-	-	Airpanel Pro H2O Duo	Airmat Pro H2O Power
Filter class	-	-	Coarse 90% [ISO 16890]	Coarse 60% [ISO 16890]
Dimension min. W x H x D	300 x 300 x 150 mm	300 x 300 x 150 mm	684 x 680 x 260 mm ²	600 x 600 x 150 mm ²
Dimension max. W x H x D	2500 x 2500 x 150 mm	2500 x 2500 x 150 mm	2514 x 2510 x 260 mm ³	2500 x 2500 x 150 mm ³
Dimension cut-out	W x H +25 mm	W x H +25 mm	W x H +25 mm	W x H +25 mm
Flange width	50 mm	50 mm	50 mm	50 mm
Drain connections	Front	Front	Front	Front
Service access	-	-	Downstream	Downstream
Maintenance space	-	-	Min. 500 mm	Min. 500 mm
Designation	DS-PP2425-AZ W x H	DS-AL2425-SS H x H	DDS-AL2430-SS Q Ty x Q T Y	DDSC-AL2430-SS Q Ty x Q T Y

¹ Tested to EN 13030 (adjusted) ² For a 1 x 1 module ³ For a 4 x 4 module

Options

Drain connections	Pipe down
Flange width	20 - 100 mm
Pressure gauge	Analog manometer kit*

PRESSURE DROP (PA)



Versions and designations

Type	Profile	Profile Type	C-C	Frame	Dimensions	Filter
DS Standard	PP	24 / 48	25 / 30	AZ	mm x mm	-
DS Marine	AL	24 / 48	25 / 30	SS / AL	mm x mm	-
DDS	AL / PP	24	30	SS / AL	qty x qty	90 / 85
DDSC	AL / PP	24	30	SS / AL	mm x mm	60
DDSF	AL / PP	24	30	SS / AL	qty x qty	90 / 85
DDSCF	AL / PP	24	30	SS / AL	mm x mm	60

Type	Profile	Profile Type
Droplet separator type	DS	1 stage: droplet separator
	DDS	2 stages: droplet + dust separator with Airpanel filters
	DDSC	2 stages: droplet + dust separator, cassette for Airmat filters
	DDSF	2 stages: droplet + dust separator, front service for Airpanel filters
	DDSCF	2 stages: droplet + dust separator, front service & cassette for Airmat filters
Material profile	AL	Marine-grade aluminium [AlMgSi0.5]
	PP	Polypropylene
Profile size	24	Profile for 0 - 4 m/s
	48	Profile for 0 - 8 m/s
Profile C-C distance	25	25 mm
	30	30 mm
Material frame	AL	Aluminium AW-5754 [Al Mg3]
	SS	Stainless Steel [1.4404] [AISI 316L]
	AZ	Aluzinc [AZ 185]
Frame size WxH [DS, DDSC & DDSCF mm] [DDS & DDSF qty 1/1 module]	Width	Horizontal measurement excluding flange
	Height	Vertical measurement excluding flange
Filter NOTE: Only 1/1 module available, width and height for DDS & DDSF is based on quantity not mm	90	Airpanel Pro H2O DUO [Coarse 90% ISO 16890]
	85	Airpanel Pro H2O DUO [Coarse 85% ISO 16890]
	60	Airmat Pro H2O Power [Coarse 60% ISO 16890]

The filtration experts

MANN+HUMMEL has been a filtration specialist for more than 75 years. Leadership in Filtration is what drives us.



Twenty six

With every second that ticks by, another 26 filters roll off the MANN+HUMMEL production lines. And that is part of what makes us a world leader in filtration.

But it is our commitment to quality and innovation too. Of the 20,000 people we employ worldwide, over 1,000 work in our R&D department. That means we are at the front when it comes to finding new ways to improve air quality or deliver it more efficiently - which can be seen in the more than 3,000 patents that we have registered.

And when it comes to delivering excellent service, we are always close at hand, with more than 80 locations across the world.

Filtration for life

MANN+HUMMEL Intelligent Air Solutions is part of the company's Life Sciences and Environment (LS&E) division. LS&E focuses on protecting the most precious things in our lives with filtration solutions that ensure the cleanliness and quality of our natural resources. Air filters ensure that air is safe to breathe and use in various processes. Water filtration membranes provide clean water for drinking and food production. And wastewater products minimize our impact on the wider environment..



1 - 0123 © MANN+HUMMEL GmbH

MANN+
HUMMEL

airfiltration.mann-hummel.com