



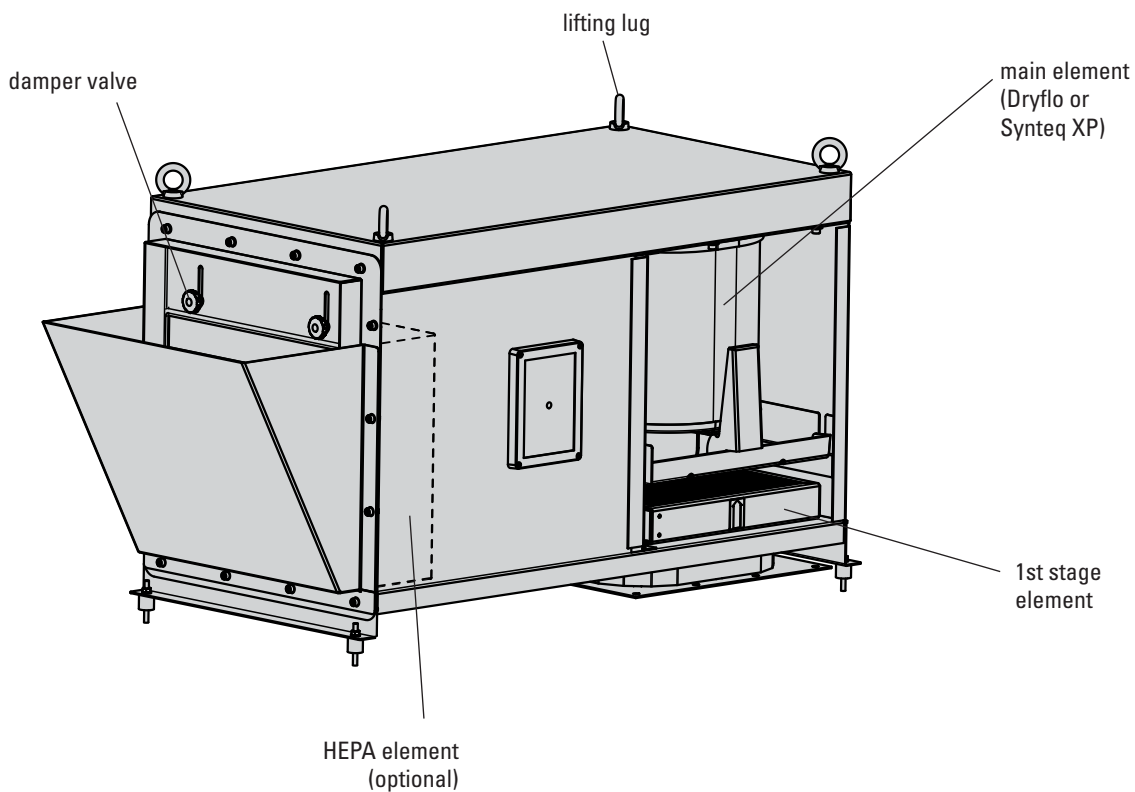
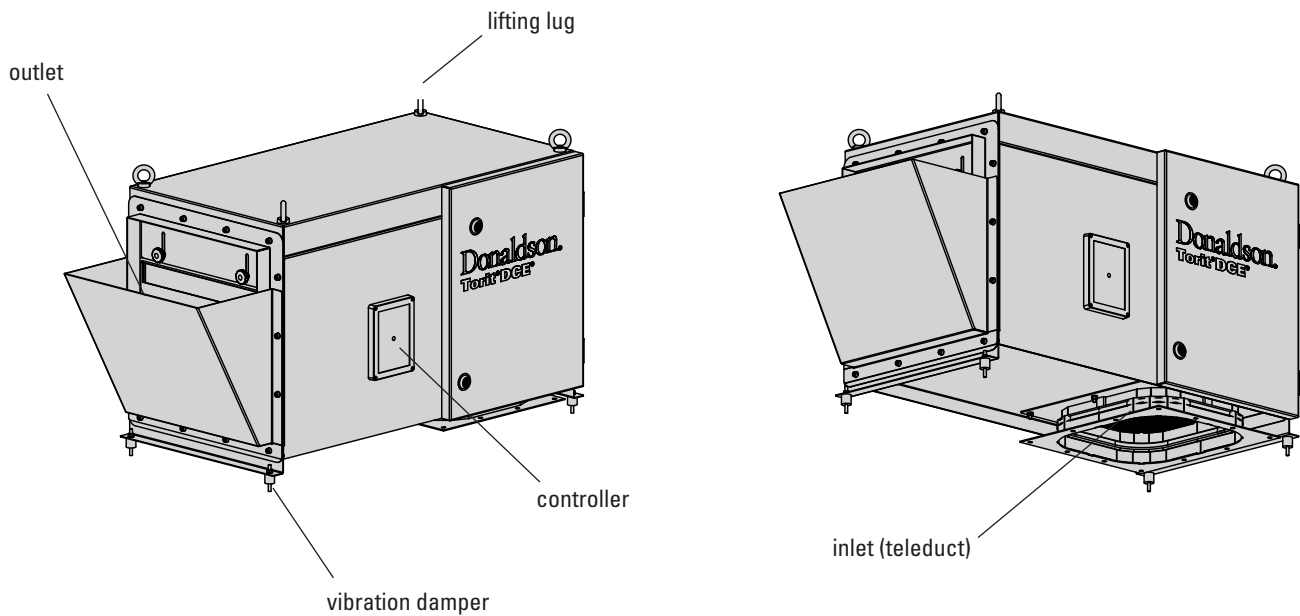
Donaldson
FILTRATION SOLUTIONS

DATA SHEET

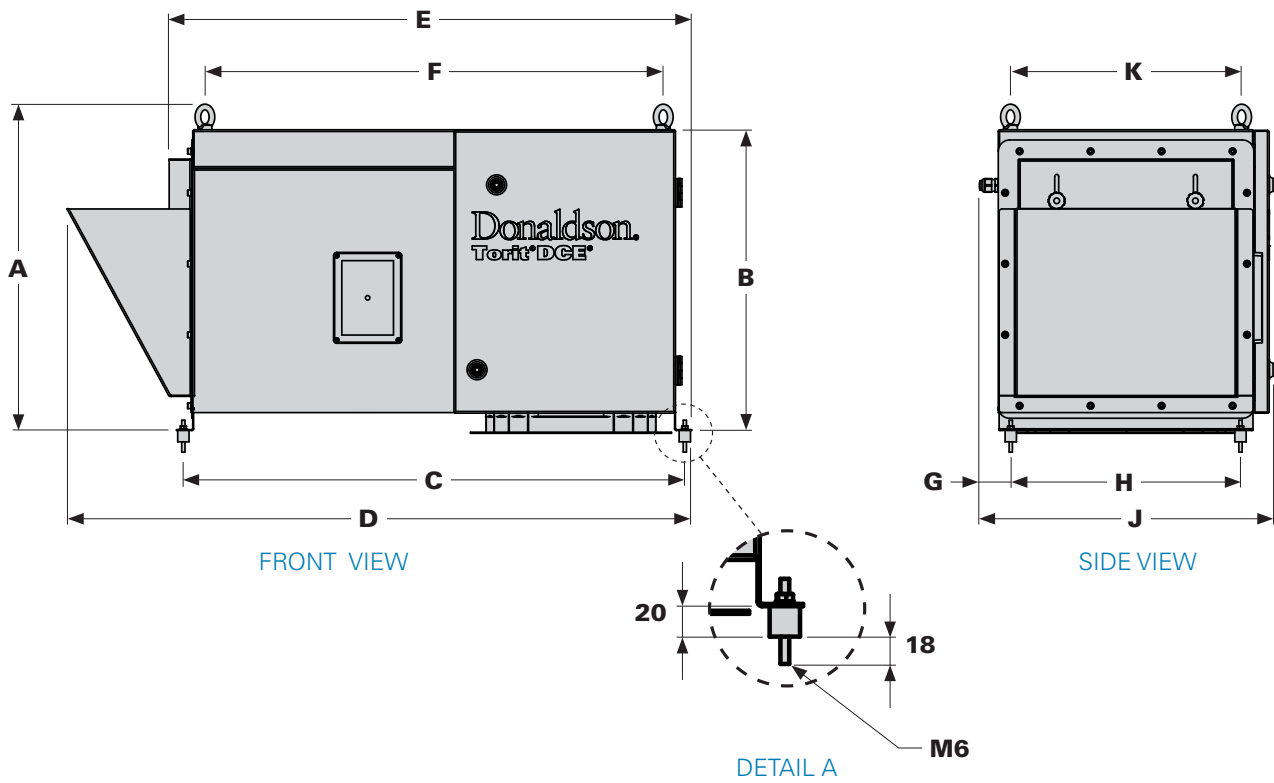
WSOFlex Oil Mist Collectors MMA and MMB



UNIT OVERVIEW



UNIT SPECIFICATIONS MMA - MMB



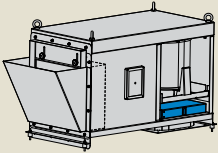
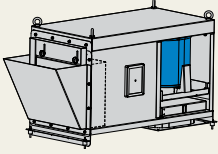
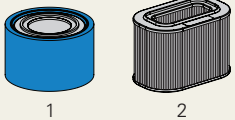
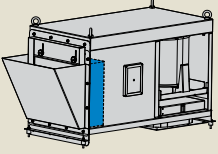
Model	No. of filter elements	Filtration area Dryflo	Filtration area Synteq XP	dimensions in mm										Approx. net weight * [kg]
		[m ²]	[m ²]	A	B	C	D	E	F	G	H	J	K	
MMA	1	3.8	4.2	575	530	883	1100	884	807	65	405	517	417	80
MMB	1	76	79	733	680	1223	1470	1260	1147	59	500	616	507	110

* depends on type of configuration


Operating temperature	5° to 60° C
Standard finishing	RAL 5019 (blue)*
*Corrosion category C3 equivalent; this paint has been successfully tested resistible to mineral/cutting oils/fluids.	

NOISE		
All measurements done in accordance with ISO 3744 / DIN 45635/1 (usual tolerance) ±2 dB(A)		
LpAeq	MMA	MMB
AC motor	69 dB(A)	72 dB(A)

FILTER ELEMENT SPECS

<p>STAGE 1:</p>		<p>Dependant on the application, a different first stage prefilter can be selected</p> <ul style="list-style-type: none"> • Metal wire mesh (standard) • Polypropylene mesh for heavy liquid loading applications (optional)
<p>STAGE 2:</p>		<ul style="list-style-type: none"> • Dryflo element with Element Wrap (standard) - 1 • Synteq XP element (optional) - 2 <div style="text-align: right;">  <p>1 2</p> </div>
<p>STAGE 3:</p>		<p>HEPA H13 (optional)</p>

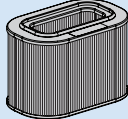
DRYFLO - SYNTEQ XP



Dryflo

Dryflo cartridge filters use a combination of two proprietary filtration media and are specially designed for applications using water-soluble coolants.

	MMA	MMB
Height	206	305
Outer Ø	276	417

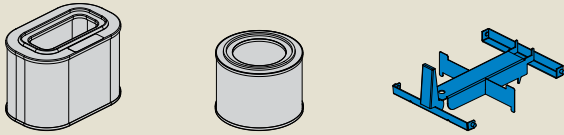
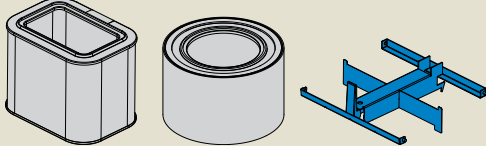


Synteq XP

Synteq XP cartridge filters are made with an engineered blend of small and large fibers with a proprietary, resin-free bonding system. For applications that produce water soluble coolant, straight oils and oily smoke.

	MMA	MMB
Height	254	382
Outer Ø	387	502
Width	241	362

The Synteq XP and Dryflo element have different heights. When you order the Dryflo, a platform twist is provided as default.

<p>MMA</p> 	<p>MMB</p> 
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HEPA (OPTIONAL)

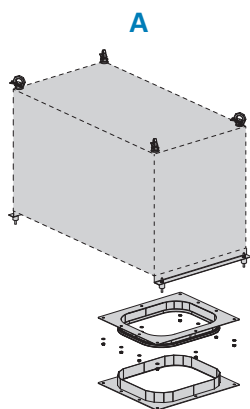
[mm]	width	height	depth	pleat depth
MMA	400	330	120	90
MMB	500	350	140	120

HEPA RESTRICTION		
	Q [m ³ /h]	INITIAL ΔP [Pa]
MMA	570	295
MMB	1100	325

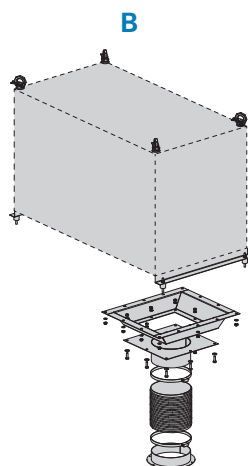
HEPA class	H13
seal	gasket around
Maximum humidity:	100% RH

INLET PACKS

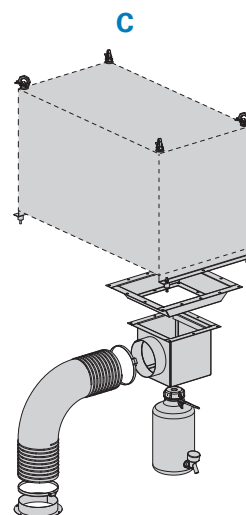
Description	MMA	MMB
A Teleduct	standard	standard
B Inlet hopper with flexible duct	option	option
C Inlet hopper with impact separator	option	option
D Adjustable mounting stand	option	N/A



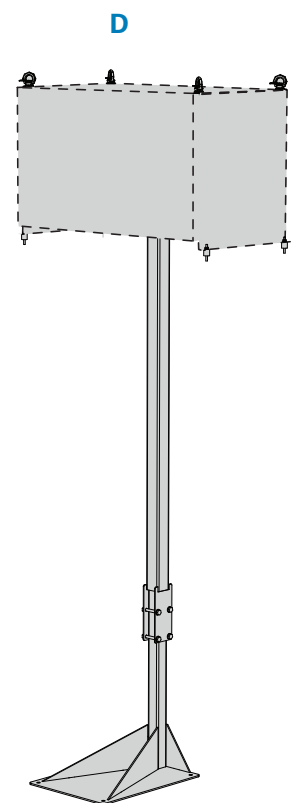
teleduct



inlet hopper with flexible duct

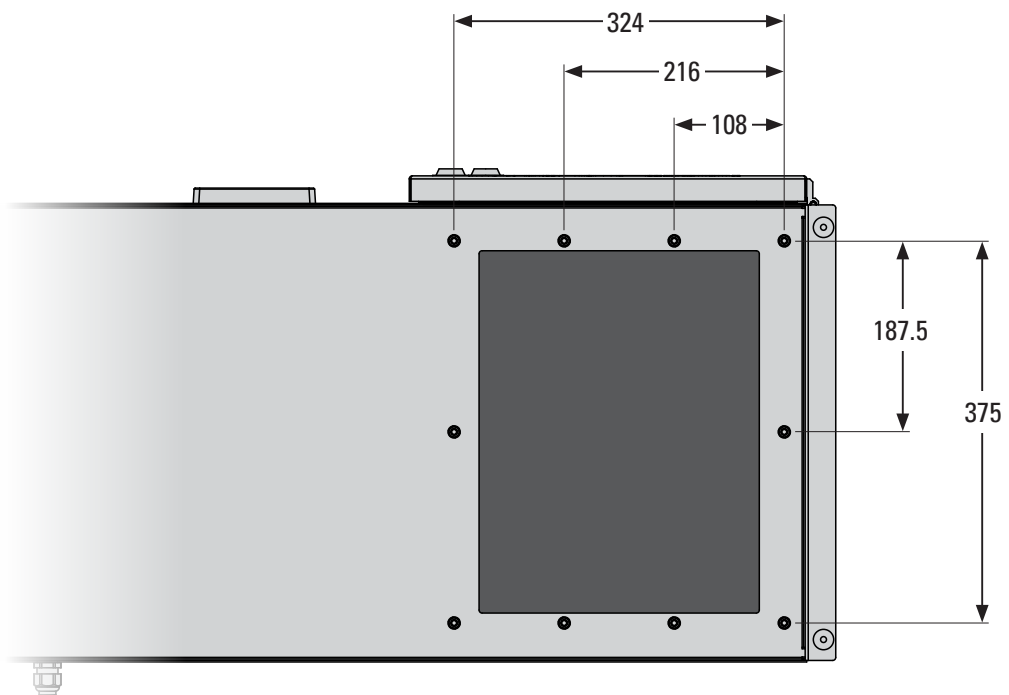
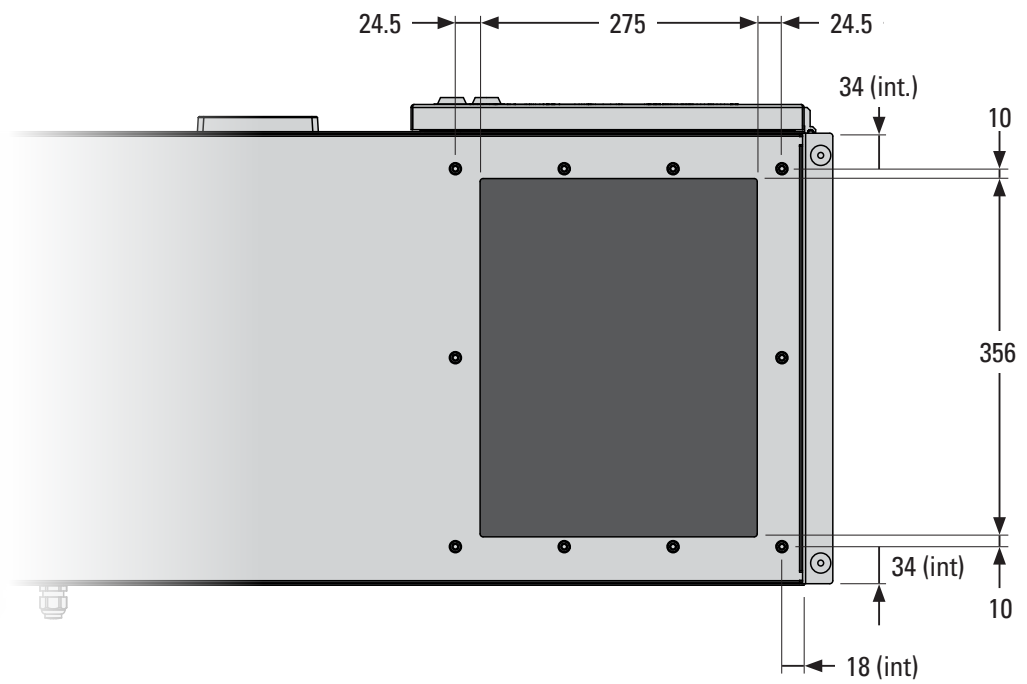


inlet hopper / impact separator



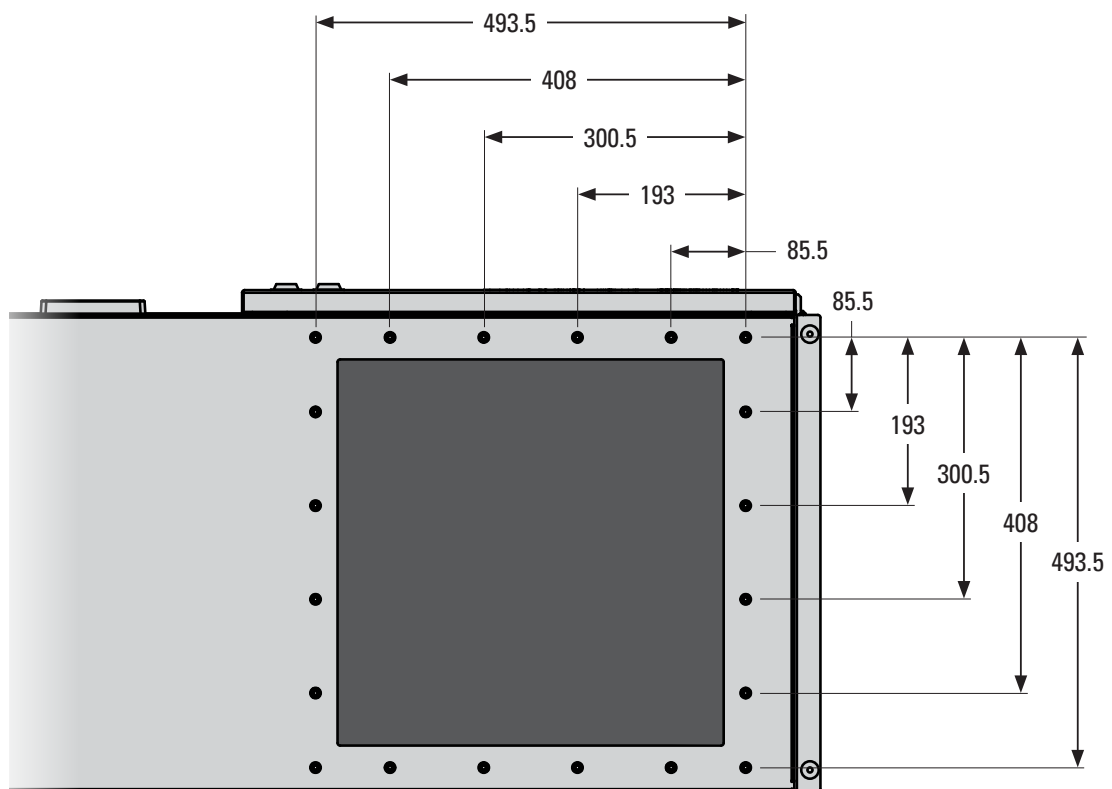
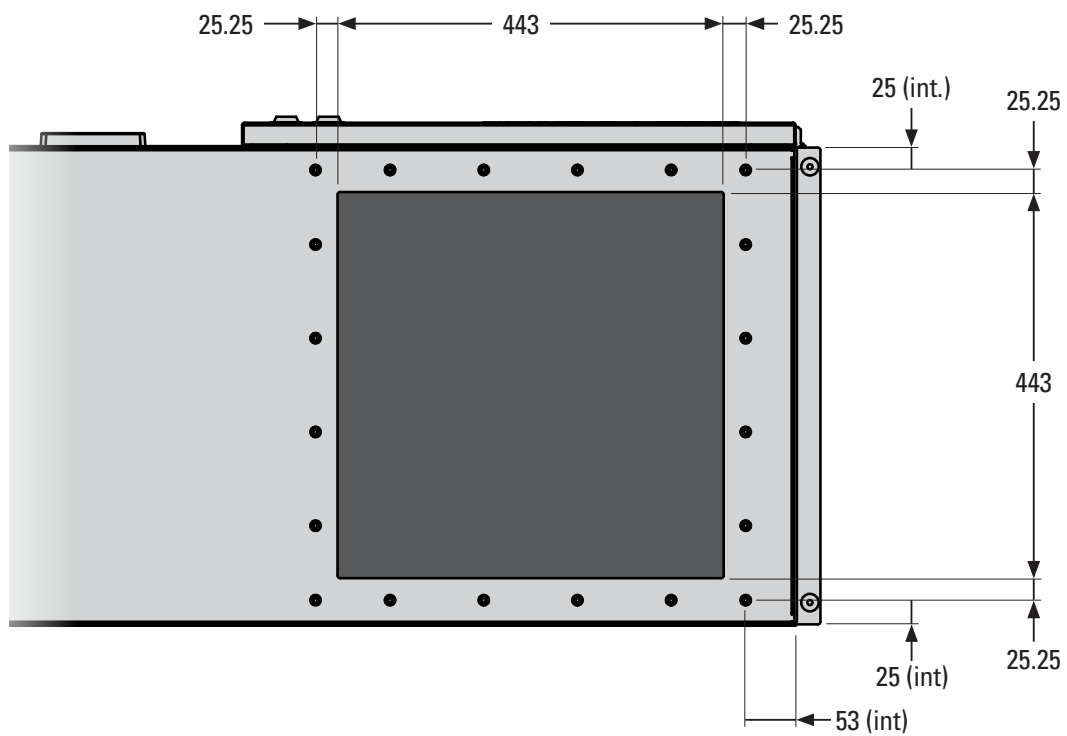
adjustable mounting stand

INLET INTERFACE MMA



BOTTOM VIEW - MMA

INLET INTERFACE MMB

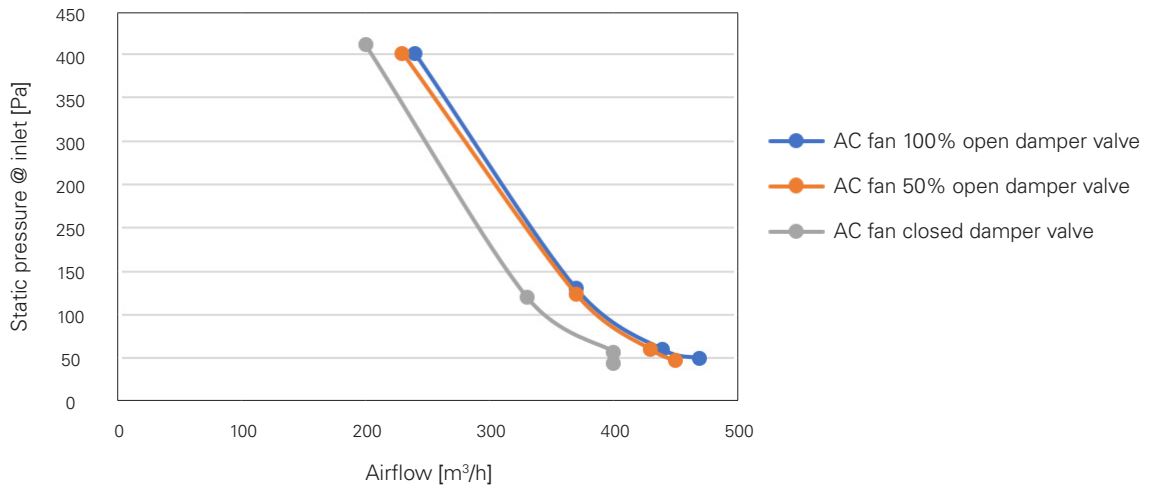


BOTTOM VIEW - MMB

AC AND EC FAN CURVES AND SPECIFICATIONS

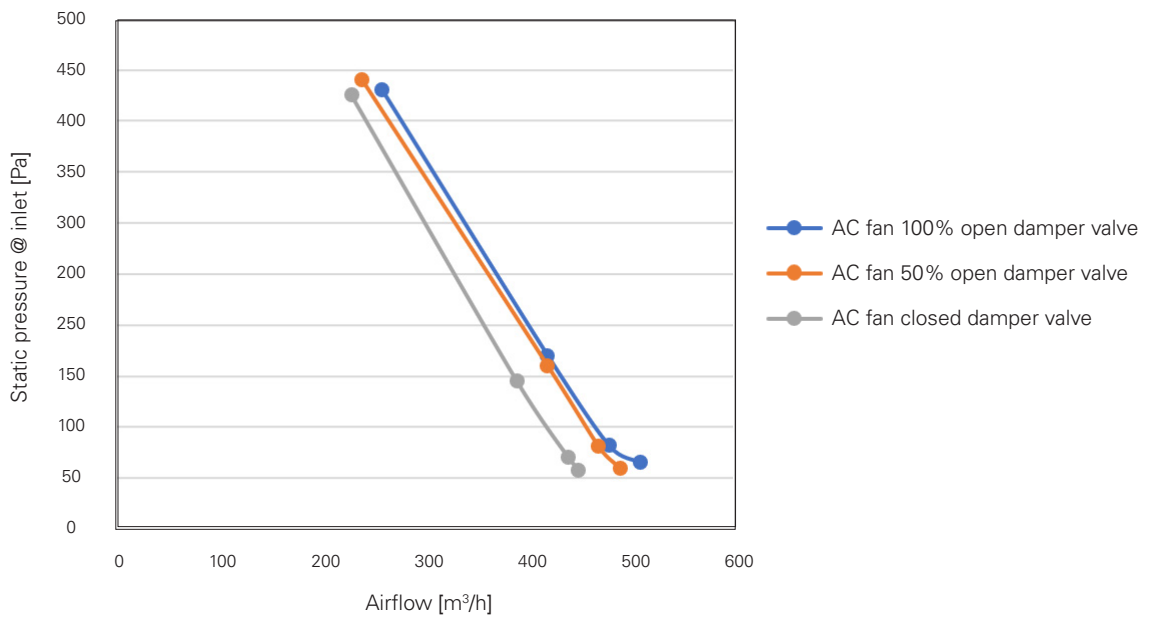
MMA AC FAN

AC fan + Dryflo + HEPA



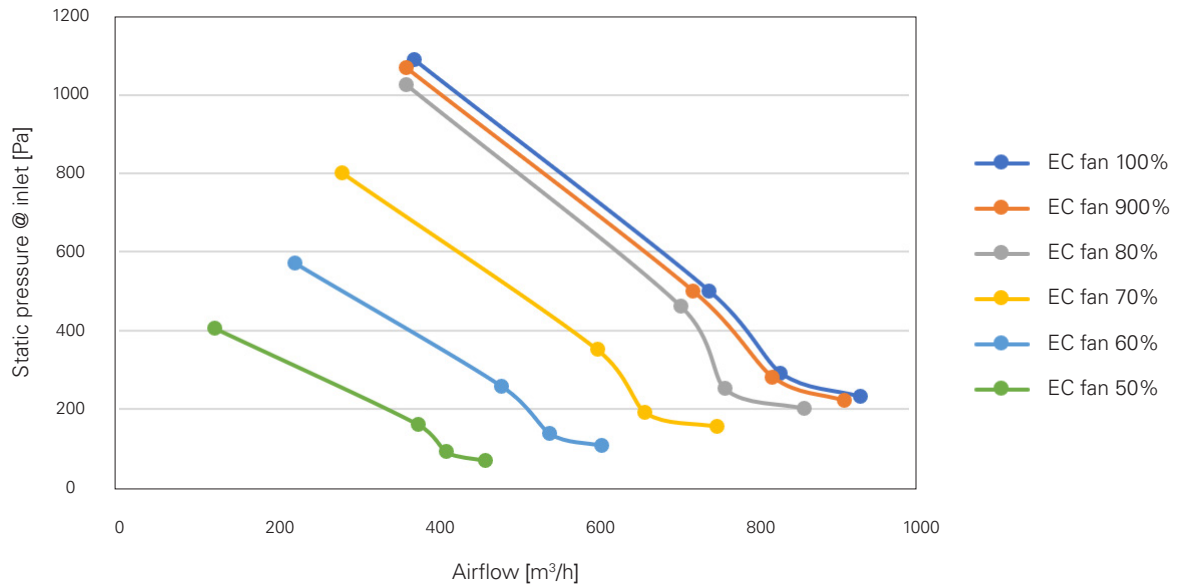
Using damper valve on MMA gives a range of airflow from 2% (half open) to 10% (closed) less its full capacity.

AC fan + Synteq XP + HEPA

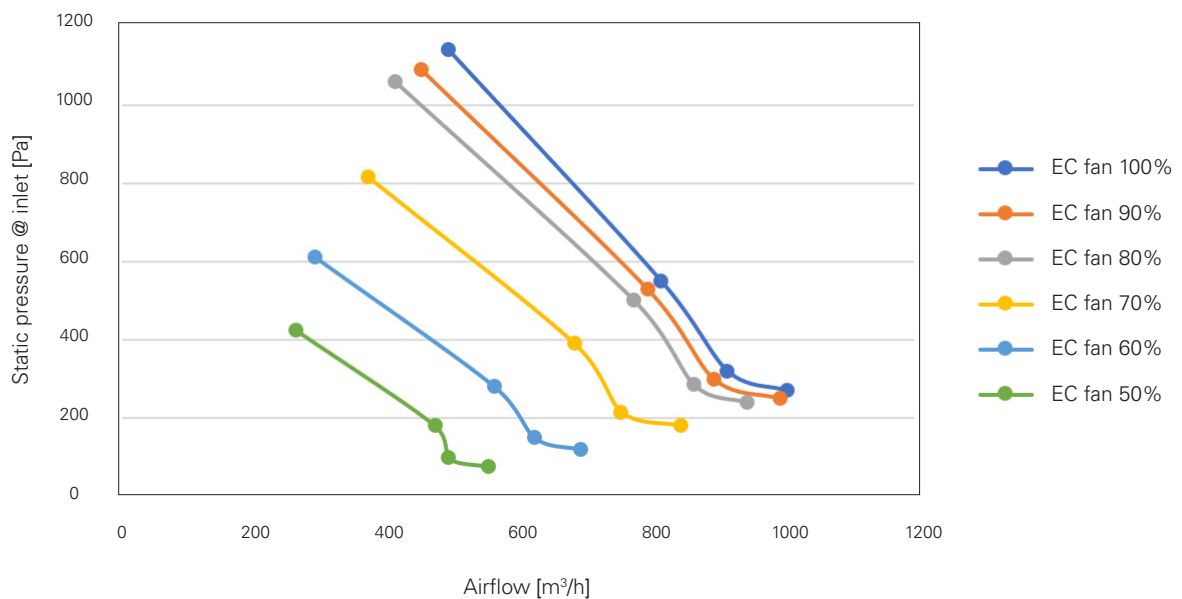


MMA EC FAN

EC fan + Dryflo + HEPA

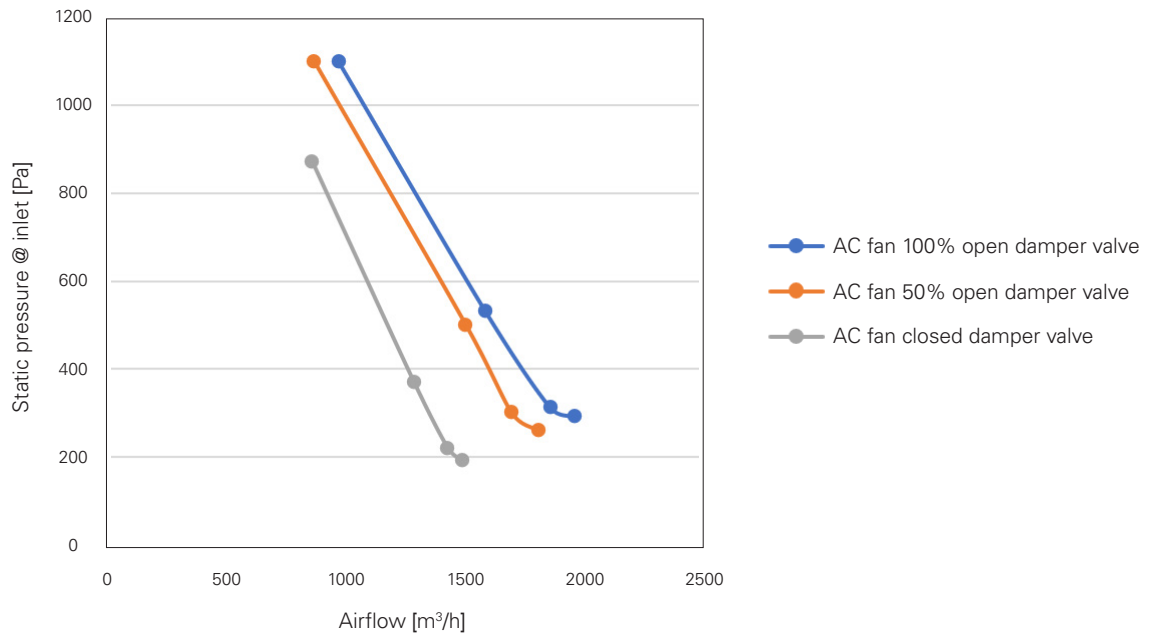


EC fan + Synteq XP + HEPA



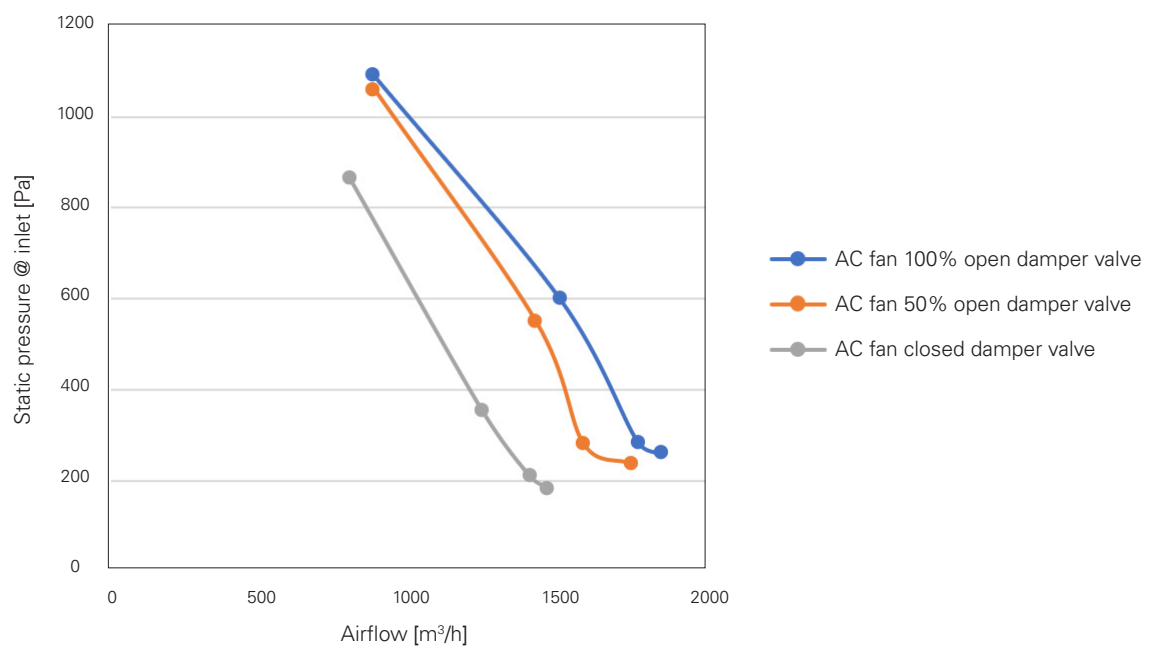
MMB AC FAN

AC fan + Dryflo + HEPA



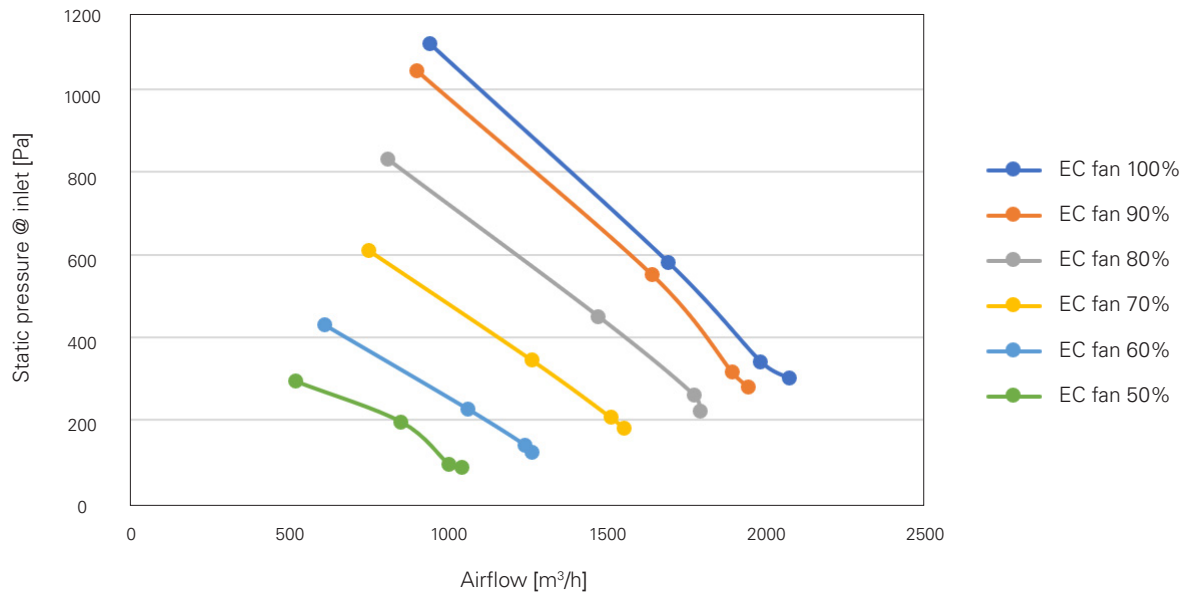
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AC fan + Synteq XP + HEPA

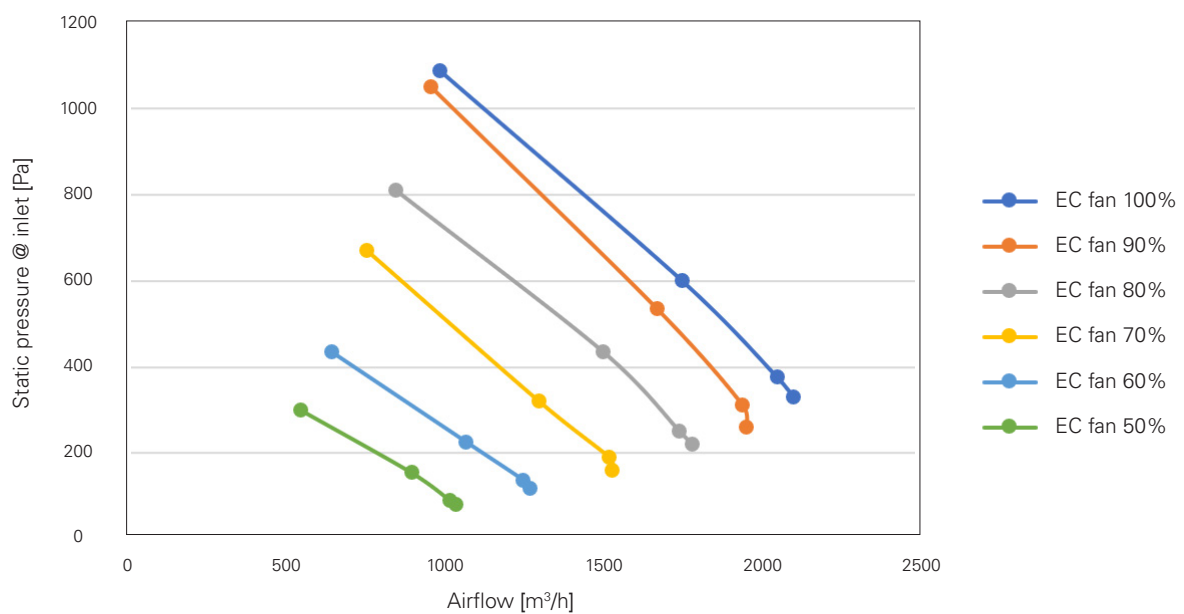


MMB EC FAN

EC fan + Dryflo + HEPA



EC fan + Synteq XP + HEPA



AC FAN MOTOR SPECIFICATION		
Power	MMA	0,75 kW
	MMB	1,1 kW
Voltage	400V	
Cycle	50 Hz	
Speed	~ 2750 RPM	

EC FAN WSOFLEX MMA		
Nominal voltage range	V	3~ 380 ..480
Frequency	Hz	50/60
Fan speed n	min ⁻¹	4000
Input power P_{ed}	W	1180
Current draw I	A	1.8
Mass	kg	8.8

EC FAN WSOFLEX MMB		
Nominal voltage range	V	3~ 380 ..480
Frequency	Hz	50/60
Fan speed n	min ⁻¹	3410
Input power P_{ed}	W	1800
Current draw I	A	2.8
Mass	kg	18

For 60 Hz power supply, special controller needs to be considered.

CONTROLLER ALARM SETTINGS

WSOFlex is equipped with an LCD controller. It comes with pre-installed default alarm settings for the main and HEPA filter element. If for any reason these values do not suit your application, they can be manually adjusted.

How to set the controller: see WSOFlex manual and controller manual (included at delivery).

Recommended alarm settings [Pa] (contact application engineering)		
Type	Main	HEPA
MMA	600	1500
MMB	1000	1500

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