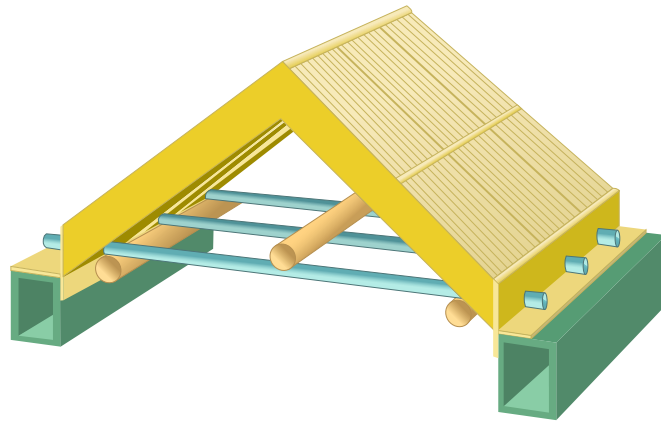
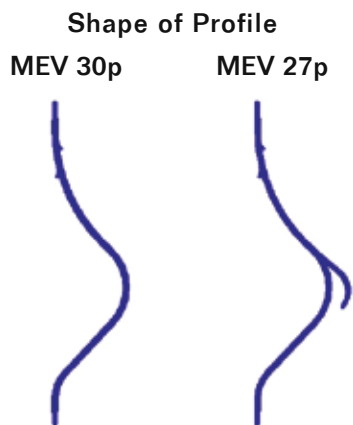


# Mist Eliminator

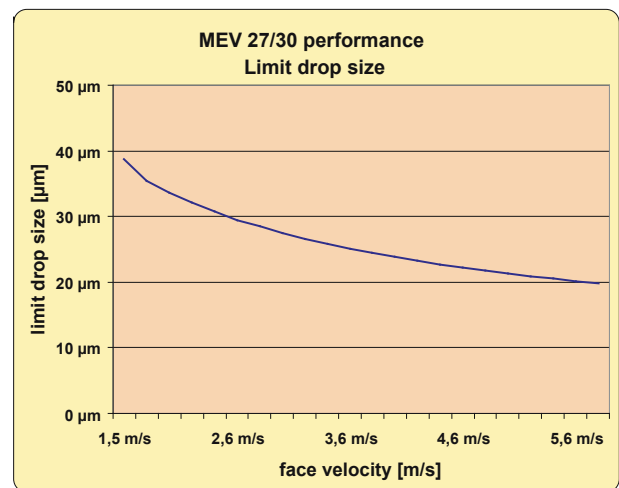
## MEV 27/30 performance



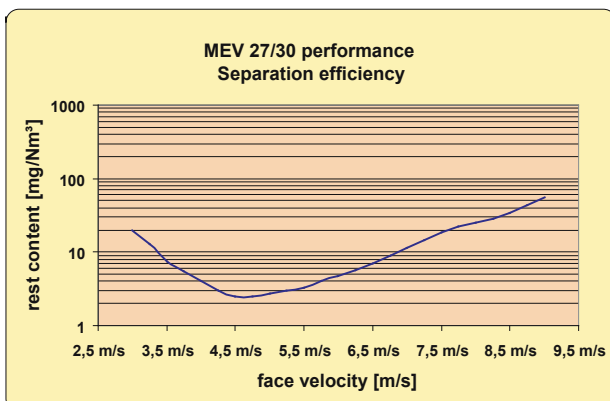
The MEV 27/30 performance is built from two "roof" shaped mist eliminators as shown above. The first level is built using the MEV 30p profile and the second level using the MEV 27p profile - both shown below.



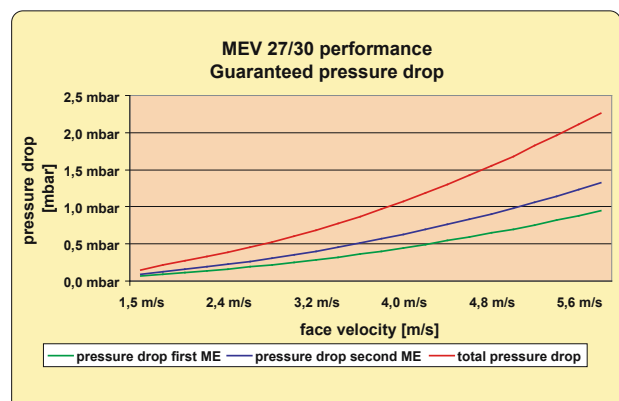
The limit drop size for the MEV 27/30 performance ranges between 22  $\mu\text{m}$  and 24  $\mu\text{m}$  for operation at 100% load.



The MEV 27/30 performance provides superior droplet separation at velocities between 2.5 m/s and 8.5 m/s. This provides a high operating safety in particular for FGD with changing velocity profiles (mal-distribution). At an average tower velocity of 4 - 4.5 m/s the mist eliminator allows a variation of +/-60%.



The pressure drop for the MEV 27/30 performance is the combined value (red line) of the pressure drop for the first (green line) and second (blue line) mist eliminator. The pressure drop at operation with 100% load is between 1.2 and 1.6 mbar after several months of operation.



# Technical data MEV 27/30 performance



Part	first level	second level
<b>mist eliminator</b>		
height of mist eliminator (both levels)	-	2600 mm
distance to flue gas exit (recommended)	-	1000 mm
mist eliminator type	roof	roof
average velocity	4.0 - 5.0 m/s	4.0 - 5.0 m/s
maximum face velocity	8.5 m/s	8.5 m/s
pressure drop	0.5 - 0.7 mbar	0.7 - 0.9 mbar
limit drop size (both levels)	-	22 - 25 µm
rest content (both levels)	-	<< 50 mg/Nm <sup>3</sup>
operating temperature	40°C - 60°C	40°C - 60°C
design temperature	80°C	80°C
separation efficiency > limit drop size	> 99%	> 99%
life time	15 years	15 years
<b>material</b>		
frame	PP	PP
blade	PPTV	PPTV
cover plates	PP	PP
pipes	PP	PP
fasteners inside absorber	PP	PP
fasteners outside absorber	galv. Steel	galv. Steel
pipe supports	PP	PP
<b>blades</b>		
blade type	MEV30p	MEV27p
spacing/pitch	30 mm	27,5 mm
number of blades per module	33	36
blade thickness	2,6 mm	2,6 mm
<b>dimensions element</b>		
length (span between beams)	1800 - 2400 mm	1800 - 2400 mm
width	990 mm	990 mm
height	1000 mm	1000 mm
weight of element clean	96 kg	110kg
weight of element clogged	270 kg	310 kg