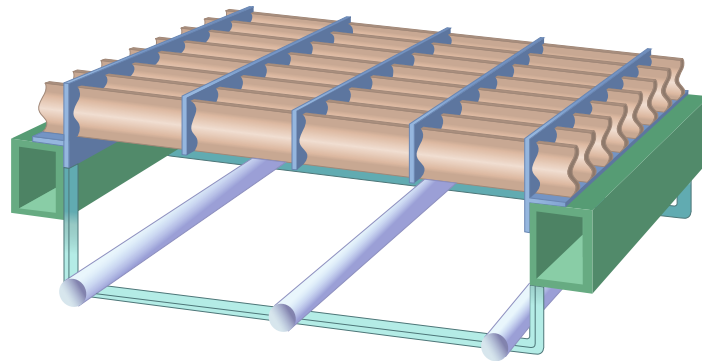


# Mist Eliminator

## MEV 25/40 standard

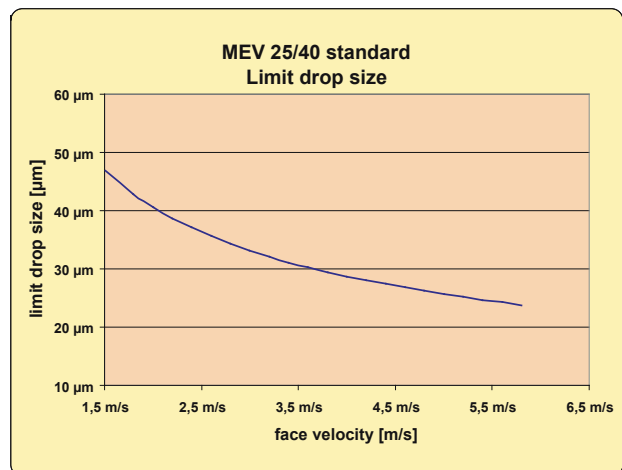


The MEV 25/40 standard is built from two "flat" shaped mist eliminators as shown above. The first level is built with a pitch of 40 mm and the second level with a pitch of 25 mm - both with the MEV 25/40 profile - shown below.

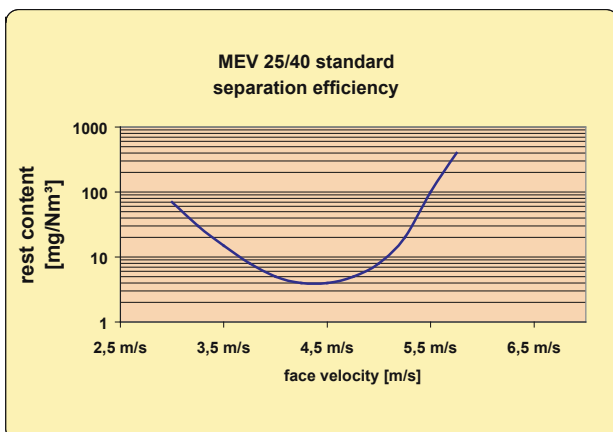
MEV 25/40 Shape of Profile



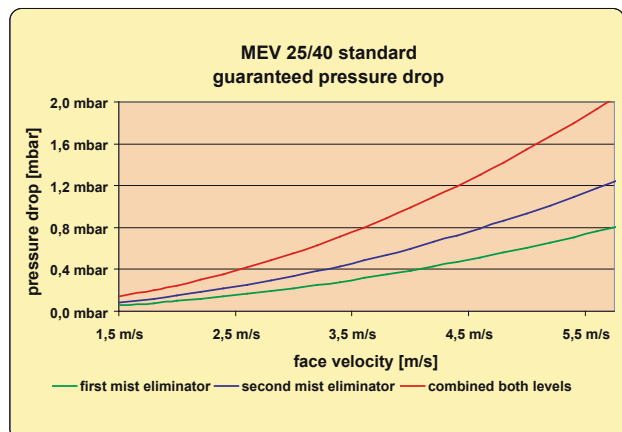
The limit drop size for the MEV 25/40 standard ranges between 27  $\mu\text{m}$  and 32  $\mu\text{m}$  for operation at 100% load.



The MEV 25/40 standard provides good droplet separation at face velocities between 2.5 m/s and 5.5 m/s. At an average tower velocity of 3 - 4 m/s the mist eliminator allows a variation of +/-25%.



The pressure drop for the MEV 25/40 standard 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 1.0 and 1.5 mbar after several months operation.



# Technical data MEV 25/40 standard



Part	first level	second level
<b>mist eliminator</b>		
height of mist eliminator (both levels)	-	2400 mm
distance to flue gas exit (recommended)	-	1000 mm
mist eliminator type	flat	flat
average velocity	3.0 - 4.0 m/s	3.0 - 4.0 m/s
maximum face velocity	5.5 m/s	5.5 m/s
pressure drop	0.4 - 0.6 mbar	0.6 - 0.8 mbar
limit drop size (both levels)	-	27 - 31 $\mu\text{m}$
rest content (both levels)	-	$\ll 75 \text{ mg/Nm}^3$
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	MEV40s	MEV25s
spacing/pitch	40 mm	25 mm
number of blades per module	20	32
blade thickness	2,6 mm	2,6 mm
<b>dimensions element</b>		
length	1800 - 2400 mm	1800 - 2400 mm
width	800 mm	800 mm
height	200 mm	200 mm
weight of element clean	105 kg	120 kg
weight of element clogged	190 kg	220 kg