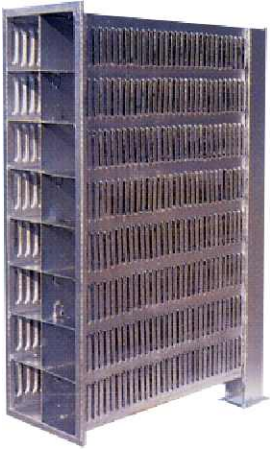


# Inertial Filters



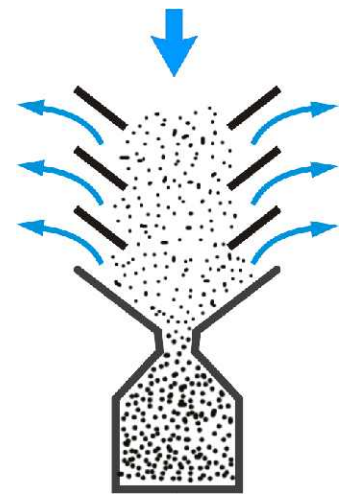
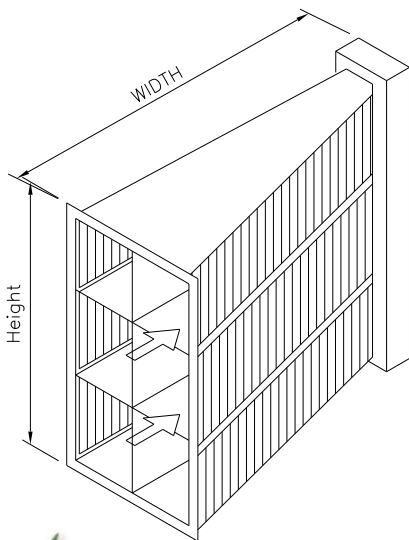
Inertia and reflection is the new working-principle of Technomart's Inertial Separator. The total volume of air (or any other gas) that comes in, is passed through V-shaped louvers.

The air thus treated is backed or reflected twice in this process under 180°C.

The heavier particles of the dust, because of mass inertia, can not return simultaneously along with this volume of air. And these particles are directed towards the sloping side continuously along with a part of air stream which is about 10% of the total air-flow. This is collected in a dust collecting-tube. A blower is set to remove this dust-laden air uninterrupted making it an auto-cleaning process.

By this process and optimum result can be achieved when the air, carrying the Dust, amounts to a volume of approx 10% of the total air-flow. Undoubtedly, care should be taken while designing the dust removal blower, about the upward Length of the dust-collecting tube from the blower, its releasing passage and the curvature of the tube also.

Inertial Separator						
Size	Height (mm)	Depth (mm)	P Primary (Pa)	P Second (Pa)	Capacity ( $\pm 10\%$ ) (m <sup>3</sup> /h)	Weight (approx.) (kg)
TM - 65-8	1060	900	200	1520	6160	13
			250	1850	6928	
			300	2180	7626	
			350	2510	8270	
TM - 65-10	1350	900	200	1550	7700	17
			250	1880	8660	
			300	2210	9532	
			350	2540	10338	



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