

HMS-Type Cyclone Separator

The compact HMS horizontal cyclone was developed for the reliable separation of high product rates in an air stream and stands out for its high efficiency combined with an extremely space-saving design. Compared to vertical cyclones, the horizontal cyclone's design allows it to achieve a significantly higher product rate with slightly lower separation efficiency. As a result, it operates efficiently and reliably even at high air and product rates. Thanks to its robust design with a reinforced inlet and its maintenance-friendly construction featuring inspection openings in the upper section and hopper, the cyclone is particularly durable and easily accessible during daily operation. The HMS model is used in particular for high volumes of materials such as pellets, animal feed, granules, recycled materials, and much more. Depending on material properties such as density, volume, or fragility, the inlet velocity should be set within the range of 16 to 22 m/s.

Features:

- Available in sizes 40, 60, 80, 100, 120, 140, 160
- Pressure-resistant up to -900 mbar
- Shock-resistant up to +1 bar
- For product flow rates up to 25 t/h • High separation efficiency
- Easy to clean

Options:

- Product discharge
- maintenance access
- designed for installation in ATEX Zone 21 or 22

Materials:

- Carbon steel
- Entirely made of 1.4301 (V2A) or 1.4404 (V4A)



Standard Dimensions

HMS	Raw Gas Inlet	Purified Gas Outlet	Volume Flow Rate at 16 m/s	Volume Flow Rate at 18 m/s	Volume Flow Rate at 20 m/s	Volume Flow Rate at 22 m/s	Product Quantity (Approximate)
HMS 40	100 mm	150 mm	~450 m³/h	~510 m³/h	~570 m³/h	~620 m³/h	1,000 kg/h
HMS 60	150 mm	250 mm	~1,020 m³/h	~1,150 m³/h	~1,270 m³/h	~1,400 m³/h	2,000 kg/h
HMS 80	200 mm	300 mm	~1,810 m³/h	~2,040 m³/h	~2,260 m³/h	~2,490 m³/h	4,000 kg/h
HMS 100	250 mm	350 mm	~2,830 m³/h	~3,180 m³/h	~3,540 m³/h	~3,890 m³/h	6,000 kg/h
HMS 120	300 mm	400 mm	~4,070 m³/h	~4,580 m³/h	~5,090 m³/h	~5,600 m³/h	9,000 kg/h
HMS 140	350 mm	450 mm	~5,540 m³/h	~6,240 m³/h	~6,930 m³/h	~7,620 m³/h	12,000 kg/h
HMS 160	400 mm	500 mm	~7,240 m³/h	~8,140 m³/h	~9,050 m³/h	~9,950 m³/h	16,000 kg/h

Maximum dimensions

HMS	Raw Gas Inlet	Purified Gas Outlet	Volume Flow Rate at 16 m/s	Volume Flow Rate at 18 m/s	Volume Flow Rate at 20 m/s	Volume Flow Rate at 22 m/s	Product Quantity (Approximate)
HMS 40	125 mm	150 mm	~710 m³/h	~800 m³/h	~890 m³/h	~980 m³/h	1,500 kg/h
HMS 60	190 mm	250 mm	~1,450 m³/h	~1,630 m³/h	~1,810 m³/h	~2,000 m³/h	3,000 kg/h
HMS 80	250 mm	300 mm	~2,830 m³/h	~3,180 m³/h	~3,540 m³/h	~3,890 m³/h	6,000 kg/h
HMS 100	315 mm	350 mm	~4,480 m³/h	~5,040 m³/h	~5,600 m³/h	~6,160 m³/h	10,000 kg/h
HMS 120	375 mm	400 mm	~6,360 m³/h	~7,150 m³/h	~7,950 m³/h	~8,740 m³/h	14,000 kg/h
HMS 140	440 mm	450 mm	~8,760 m³/h	~9,850 m³/h	~10,950 m³/h	~12,050 m³/h	20,000 kg/h
HMS 160	500 mm	500 mm	~11,300 m³/h	~12,700 m³/h	~14,100 m³/h	~15,500 m³/h	25,000 kg/h