

# Vacuum Pumps

## PM Series

The suction units of the PM series with powers from 3 to 30 kW are used in pneumatic conveying systems for throughputs of up to 4500 kg/h over distances of up to 200m. They are installed in centralised feeding Matrix systems.

### Technical Specifications

- ▶ 1- to 3-stage side-channel blowers.
- ▶ Cam-type pumps.
- ▶ Lobe-type pumps.
- ▶ Self-cleaning filters with polyester cartridges and dust container.
- ▶ RS485 ModBus interface.

### Added Value

- ▶ **VERSATILE:** The suction units can be integrated in a centralized MATRIX system or Siemens PLC.
- ▶ **EFFICIENT:** The SPEED CONTROL function with inverter and pressure transducer automatically adjusts the conveyance speed preventing the deterioration of the polymer and resulting in energy efficiency.

### Accessories

- ▶ Pressure gauge for clogged filter alarm.
- ▶ SPEED CONTROL function.



**One side-channel Pump**

Power 3kW  
Distance 0-60m



**Two side-channel Pump**

Power 5-20kW  
Distance 10-100m



**Three side-channel Pump**

Power 5kW  
Distance 10-150m



**Sound-proofed three-lobe Pump**

Power 30kW  
Distance 10-150m



**Cam Pump**

Power 4-9kW  
Distance 10-200m

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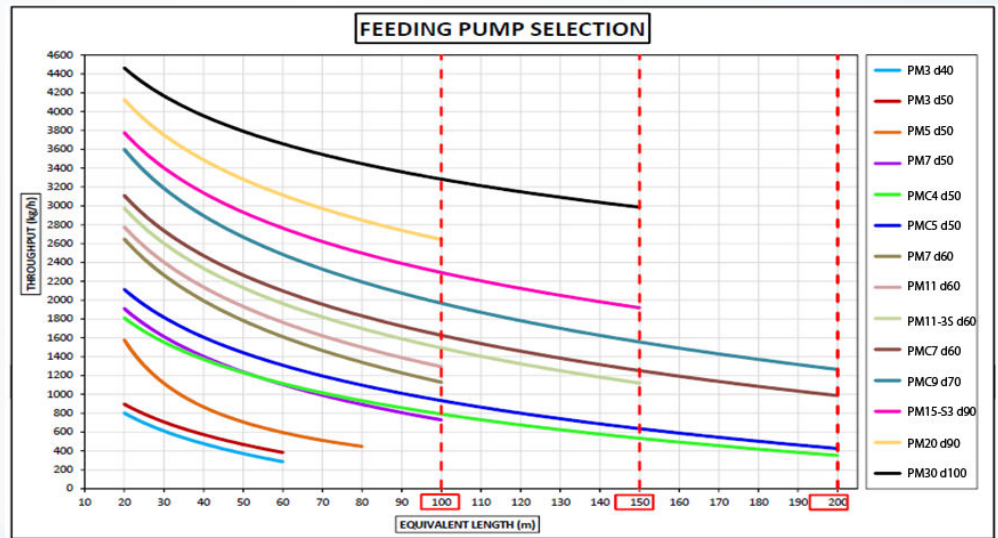
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# Vacuum Pumps



Technical Data	Unit	PM3	PMC4	PM5	PMC5	PM7	PMC7	PMC11	PM11	PM15
Maximum suction capacity*	kg/h	400	500	600	1000	1200	1800	2200	1500	3000
Power	kW	3	4	5.5	5.5	7.5	7.5	11	11	15
Maximum Vacuum	kPa	26	60	43	60	40	60	60	43	60
Noise level	dB(A)	<80								
Vacuum line Ø	mm	40/50				60/70		70/89	60/70	70/89
Filter	model	FC1	FC3			FC8	FC3		FC8	
Filter surface	m <sup>2</sup>	2.9	7.5			13	7.5		13	
Type of filter cleaning	SELF CLEANING									
Compressed-air pressure	bar	6-8								
Compressed air consumption	NI/cycle**	1.2	2.14			-	2.14		-	-
- with filter cleaning	Nm <sup>3</sup> /h	-	-	-	-	-	1	-	-	1
- without filter cleaning	NI/cycle**	-	0.34			-	0.34		-	-
Voltage/Frequency	V/Hz	400/50-60								
Weight	kg	60	140	220	190	250	210	280	300	230

\* The values on the table refer to an average horizontal distance of about 80m. The times for pipe cleaning and the rotation time of the automatic manifold have not been considered.  
 \*\* NI/cycle = compressed-air consumption to clean the filter at the end of each suction. The control software allows the operator to set the cleaning frequency of the filter, therefore the overall hourly compressed-air consumption must be calculated accordingly.

Technical Data		PM3	PM5	PM7	PM11	PM15
Dimensions W x D x H (mm)	FC1	381 x 540 x 1137	-	-	-	-
	FC3	673 x 700 x 2021	685 x 796 x 2114	717 x 783 x 2112	717 x 857 x 2112	-
	FC8	-	-	1006 x 1760 x 2738	1006 x 1781 x 2738	1061 x 2404 x 2738

Technical Data		PMC4	PMC5	PMC7	PMC11
Dimensions W x D x H (mm)	FC3	673 x 1600 x 2112	673 x 1500 x 2112	700 x 1567 x 2112	700 x 1567 x 2112

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