

## Technical data

Type		ME 8	MZ 4	MD 4	MV 2
Max. pumping speed 50/60 Hz (ISO 21360)	m <sup>3</sup> /h	7.2/7.8	3.7/4.3	3.3/3.8	1.9/2.2
Ultimate vacuum (absolute)	mbar	< 80	9	2	0,6
Max. permissible outlet pressure (absolute)	bar	2	2	1.1	1.1
Max. pressure difference between inlet and outlet	bar	2	2	1.1	1.1
Permissible ambient temperature storage / operation	°C		10 to +60 / +10 to +40		
Permissible relative atmospheric moisture during operation (no condensation)	%			30 to 85	
Power	W	200	200	200	200
No-load speed 50/60 Hz	min <sup>-1</sup>	1500/1800	1500/1800	1500/1800	1500/1800
Rated current at 100 V~ 50/60 Hz	A	-	-	3.8/4.8	3.8/4.8
120 V~ 60 Hz	A	4.2	4.2	4.2	4.2
200-208 V~ 50/60 Hz	A	-	-	1.8/2.2	1.8/2.2
230 V~ 50/60 Hz	A	1.7/1.9	1.7/1.9	1.7/1.9	1.7/1.9
100-120 V~ 50/60 Hz*	A	4.0/4.2	-	4.0/4.2	4.0/4.2
200-230 V~ 50/60 Hz*	A	2.0/2.1	-	2.0/2.1	2.0/2.1
Maximum permissible range of supply voltage		100 V~ +/-10% 50/60 Hz			
<b>Attention: Observe specifications of rating plate</b>		120 V~ +5%/-10% 60 Hz			
		200-208 V~ +/-10% 50/60 Hz			
		230 V~ +/-10% 50/60 Hz			
		100-120 V~ +5/-10% 50/60 Hz*			
		200-230 V~ +/-10% 50/60 Hz*			
Motor protection			thermal cutout		
Degree of protection IEC 529		IP 20	IP 20	IP 20	IP 20
Inlet		hose nozzle NW 10		small flange NW 16	
Outlet			silencer		
Dimensions L x W x H	mm	315 x 235 x 203	315 x 235 x 200	315 x 235 x 180	315 x 235 x 178
Weight approx.	kg	15.8	15.5	15.6	15.8

\* Pump with dual-voltage motor (100-120/200-230 V 50/60 Hz)

**We reserve the right for technical modification without prior notice!**

Components	Wetted parts
housing cover	aluminium alloy (AlSi12)
head cover	aluminium alloy (AlSi12)
diaphragm clamping disc	aluminium alloy (AlSi12)
diaphragm	FPM
valve	FPM
O-ring (MD 4 / MV 2)	FPM
hose nozzle	stainless steel
small flange	stainless steel
silencer	PA / PE
hose	PE
fitting	aluminium, anodized
seal (ME 8 / MZ 4)	PVC
seal (MD 4 / MV 2)	FPM

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#### Gas inlet temperatures:

Operating condition	Inlet pressure	Permitted range of gas temperatures at inlet
Continuous operation	> 100 mbar (high gas load)	► +10°C to +40°C
Continuous operation	< 100 mbar (low gas load)	► 0°C to +60°C
Short-time operation (< 5 minutes)	< 100 mbar (low gas load)	► -10°C to +80°C