

MEMBRANE VACUUM MINI PUMPS

The mini pumps described in this page are membrane-type. They can be used both as vacuum pumps and compressors. In the latter version they can supply compressed air 100% oil-free up to a maximum 2 bar (g) pressure.

They are composed of:

- An air-cooled single-phase electric motor with protection class IP 00 (assembly execution).
- A pump body made of plastic corrosion-resistant material, complete with fittings at both suction and blowing ports.
- A Viton membrane, resistant to wear and corrosion, solidly connected to a connecting rod.
- A connecting rod with built-in "long life" bearing activated by a balanced eccentric system fitted on the motor shaft.
- An aluminium support for fixing the pump.

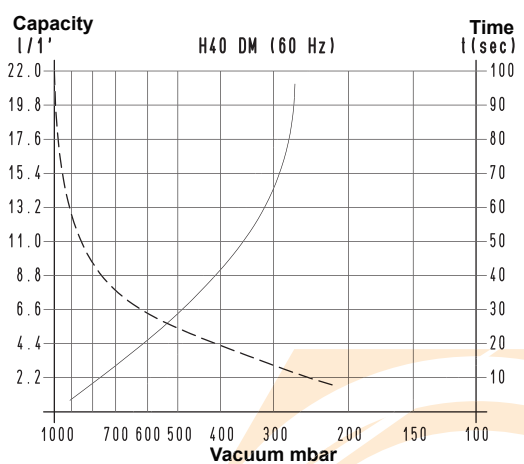
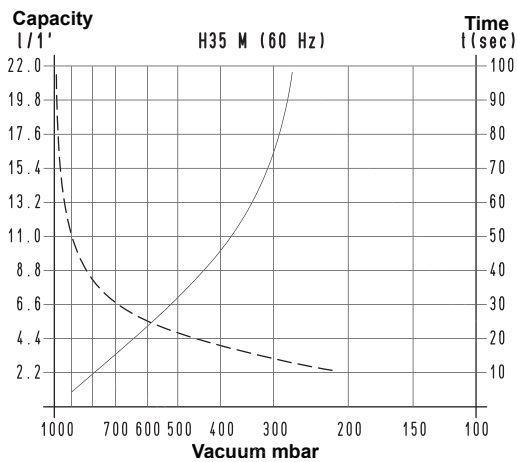
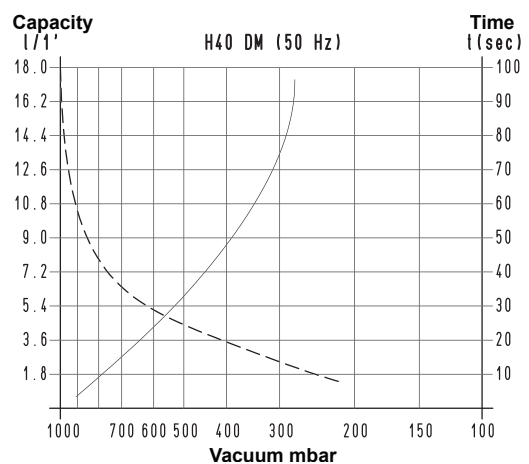
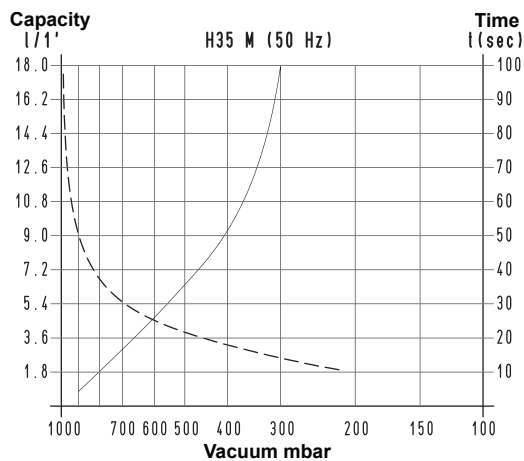
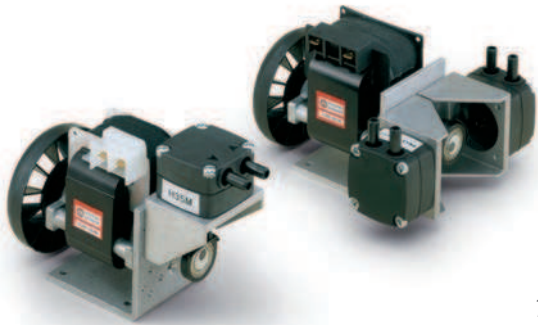
They are available in the versions with single and double head to be used in series or in parallel.

Membrane vacuum mini pumps are very silent ($\leq 50\text{dB(A)}$), they have reduced vibrations and can be installed in any position.

Lubrication-free, they require no maintenance.

Thanks to their minimal overall dimensions and reduced weight, they are particularly indicated for being installed on portable equipment.

They are suited for a discontinuous and non-intense use.



To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{6}$

- Curve regarding capacity (referring to a 1013 bar pressure)
- Curve regarding the emptying of a 6-litre volume

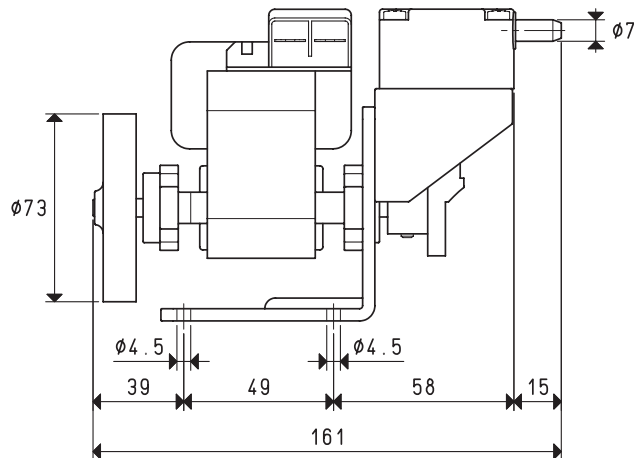
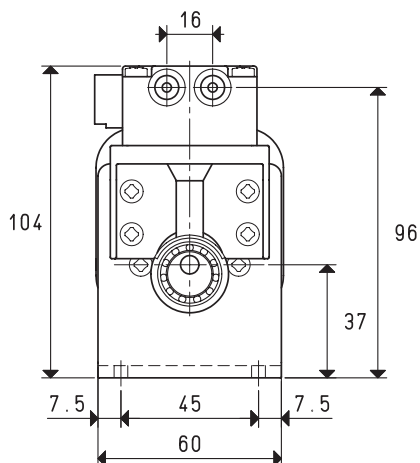
V_1 : Volume to be emptied

t_1 : Time to be calculated (sec)

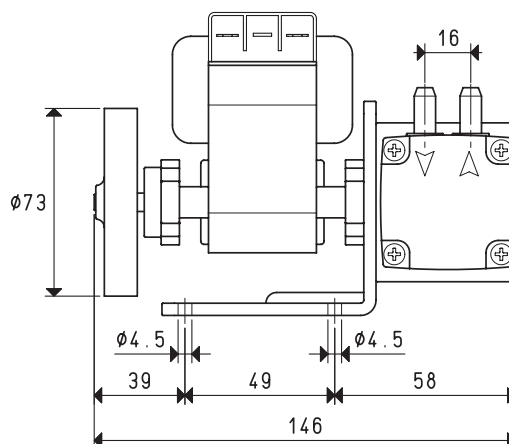
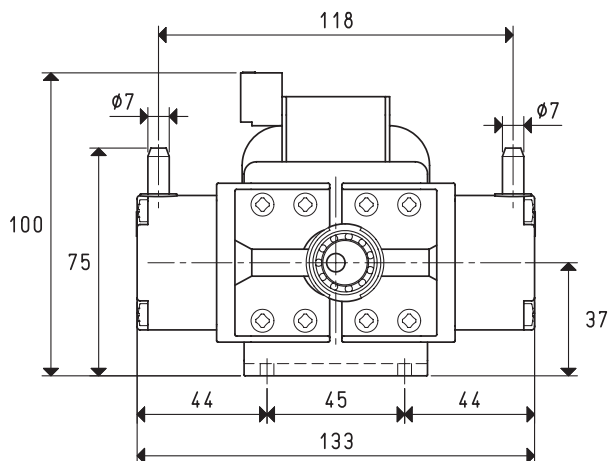
t : Time obtained in the table (sec)

MEMBRANE VACUUM MINI PUMPS

H 35 M



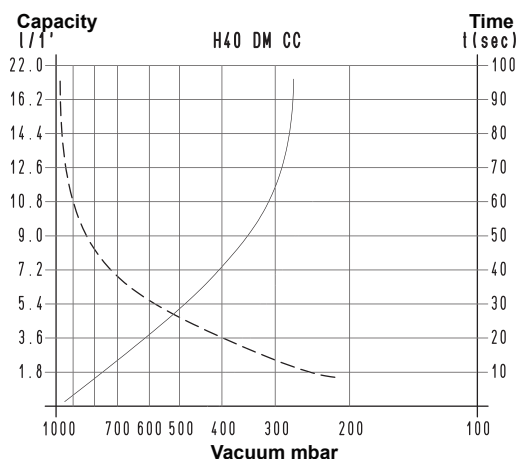
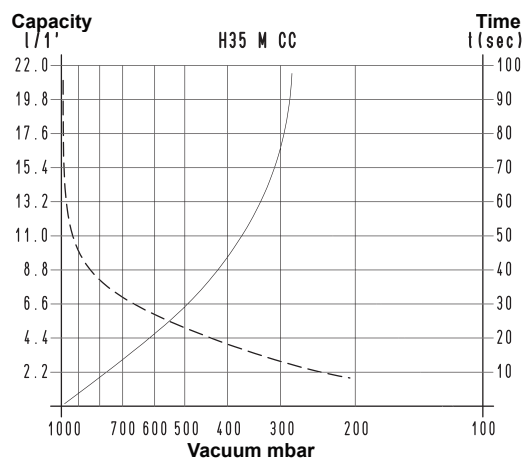
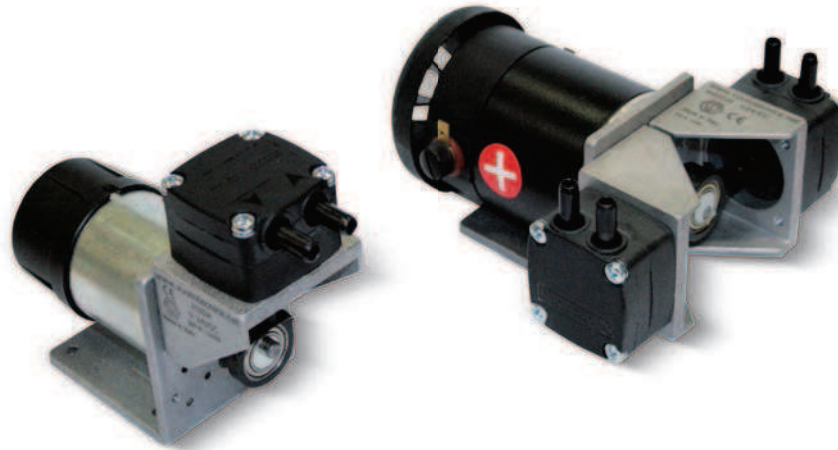
H 40 DM



Art.		H35 M		H40 DM	
Frequency		50Hz	60Hz	50Hz	60Hz
Nominal capacity:					
Connection in series	l / l'	17.5	21.0	18.0	21.5
Connection in parallel	l / l'	=	=	18.0 + 18.0	21.5 + 21.5
Final pressure:					
Connection in series	mbar abs.	200		60	
Connection in parallel	mbar abs.	=		160	
Max. pressure	bar (g)	2		2	
Motor execution	1~	230 ± 10%		230 ± 10%	
Volt					
Motor power	1~	15	18	16.5	20
Watt					
Electric absorption	A	0.60		0.80	
Rotation speed	rev/min ⁻¹	2800	3300	2800	3300
Noise level	dB(A)	≤ 50		≤ 50	
Max. weight	Kg	1.3		1.6	
Accessories and spare parts					
Membrane	art.	00 H35M 15		00 H40DM 15	
Lid with fittings	art.	00 H35M 16		00 H40DM 20	

MEMBRANE VACUUM MINI PUMPS WITH DC MOTOR

*The mini pumps described in this page are the same as the previously described ones, only with a DC motor instead of AC.
The performance is practically the same.*



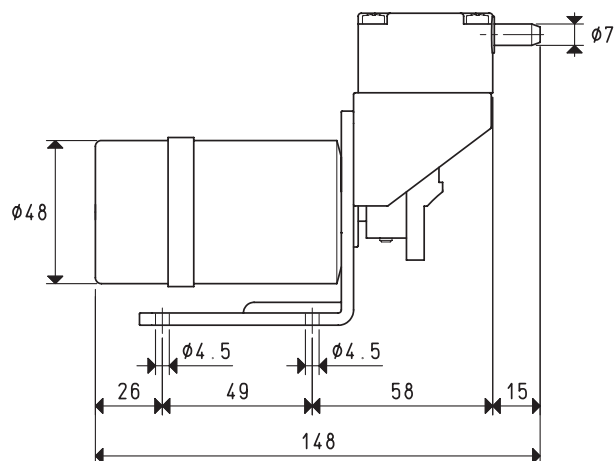
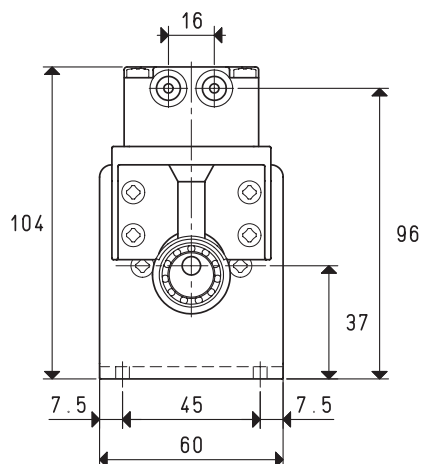
To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{6}$

- Curve regarding capacity (referring to a 1013 bar pressure)
- Curve regarding the emptying of a 6-litre volume

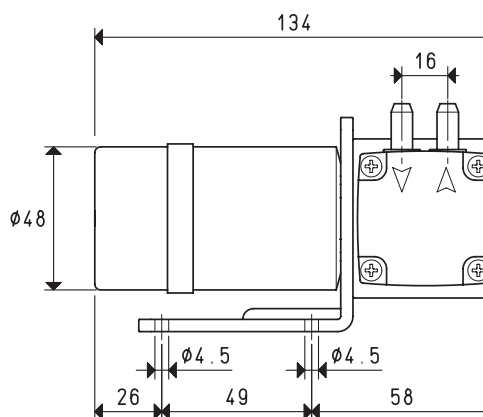
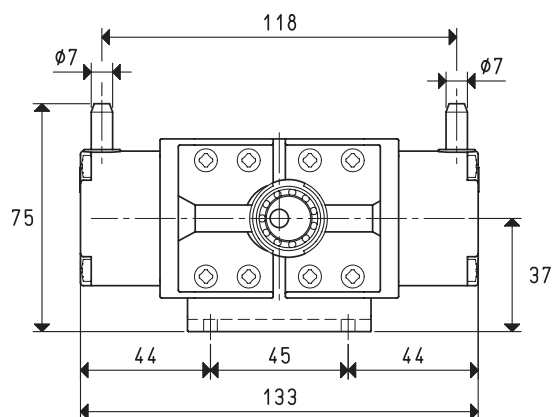
V_1 : Volume to be emptied
 t_1 : Time to be calculated (sec)
 t : Time obtained in the table (sec)

MEMBRANE VACUUM MINI PUMPS WITH DC MOTOR

H 35 M CC



H 40 DM CC



Art.		H35 M CC	H40 DM CC
Nominal capacity:			
Connection in series	l / l'	21.5	20.0
Connection in parallel	l / l'	=	20.0 + 20.0
Final pressure:			
Connection in series	mbar abs.	200	60
Connection in parallel	mbar abs.	=	160
Max. pressure	bar (g)	2	2
Motor execution	Volt	24 CC	24 CC
Motor power	Watt	6	20
Electric absorption	A	0.80	1.50
Rotation speed	rev/min ⁻¹	3000	3000
Noise level	dB(A)	≤ 50	≤ 50
Max. weight	Kg	0.62	1.19
Accessories and spare parts			
Membrane	art.	00 H35M 15	00 H40DM 15
Lid with fittings	art.	00 H35M 16	00 H40DM 20