

440.3.608-3

Vacuum cleaner motor performance

DOMEL®

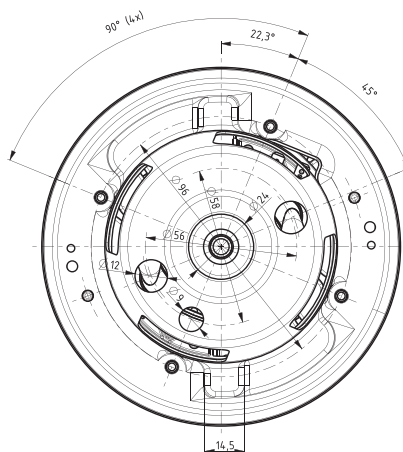
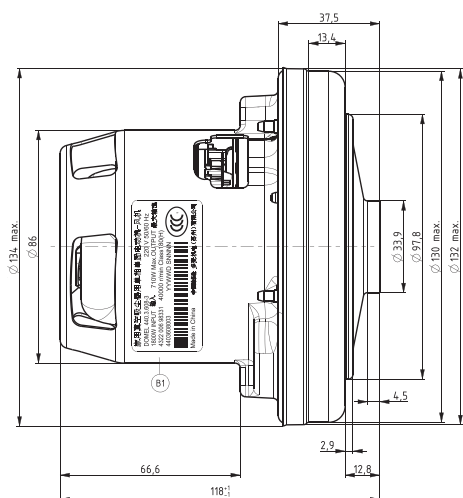
Vacuum cleaner motors with high efficiency 440.3.608-3 / 1800W / 220V / 50/60Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor. The motor is designed for insulation class 180 (H) and constructed according to EN 60335-1.

Technical data:

Normal operation:	P_m	>=	1710	W
Vacuum:	P_{max}	>=	29,6 119,0	kPa in H ₂ O
Air Flow at $\phi 50$:	$Q_{\phi 50}$	>=	53 113	dm ³ /s CFM
Air Power:	P_{2max}	>=	660	W
Efficiency:	η_{max}	>=	41	%
Mass:	m	=	1,38	kg

Voltage:	220 V
Frequency:	50 Hz
Nominal Power:	1800 W

Max power 1850W



Dimensional and performance data are subject to change without notice.

Orifice		Current	Input Power	Speed	Pressure		Air Flow		Air power	Efficiency
mm	in*	A	W	min ⁻¹	kPa	in H ₂ O	dm ³ /s	CFM	W	%
50	2	8,56	1816	39592	1,4	4,9	55,9	118,7	77	4,2
40	1 1/2	8,53	1810	39728	3,2	16,8	54,3	113,0	173	9,6
30	1 1/8	8,38	1779	40170	8,5	40,9	49,1	100,1	416	23,4
23	7/8	8,01	1702	41254	16,8	71,8	39,8	80,7	669	39,3
19	3/4	7,54	1607	42849	22,4	89,5	30,9	65,7	690	43,0
16	5/8	7,11	1516	44525	26,9	108,3	23,7	49,7	638	42,1
13	1/2	6,60	1410	46628	29,7	119,3	16,4	33,3	486	34,5
10	3/8	6,08	1300	48931	30,2	121,7	9,8	19,2	298	22,9
6	1/4	5,49	1176	51455	30,8	123,6	4,3	8,8	131	11,1
0	0	4,90	1048	53096	31,2	125,3	0,0	0,0	0	0,0

Data above represent the performance of an average motor sample. Individual data may vary due to normal manufacturing variations.

* Orifice in inch is only approximative.