

440.3.608-2

Vacuum cleaner motor performance

DOMEL®

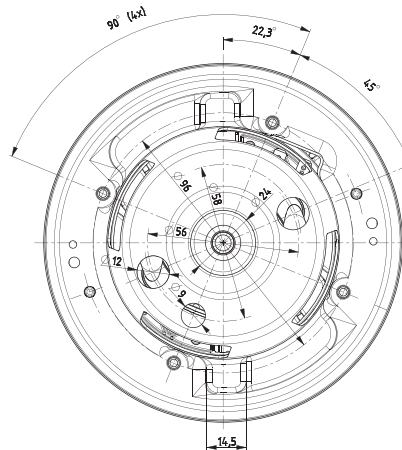
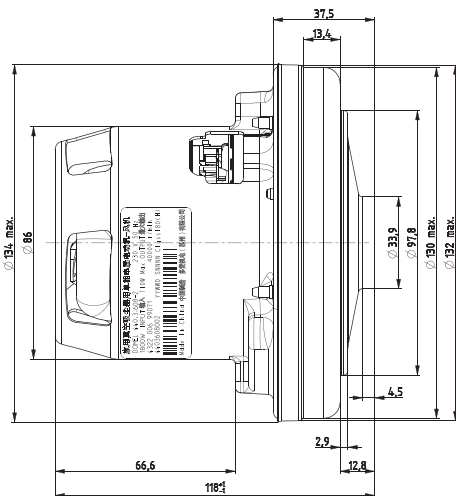
Vacuum cleaner motors with high efficiency 440.3.608-2 / 1800W / 230V / 50Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or 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	\geq	1710	W
Vacuum:	P_{max}	\geq	29,7 119,4	kPa in H ₂ O
Air Flow at $\phi 50$:	$Q_{\phi 50}$	\geq	53 113	dm ³ /s CFM
Air Power:	P_{2max}	\geq	680	W
Efficiency:	η_{max}	\geq	43	%
Mass:	m	=	1,38	kg

Voltage:	230 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	8,12	1810	39797	1,4	5,0	56,5	119,9	79	4,4
40	1 1/2	8,07	1800	39953	3,3	17,2	54,9	114,2	180	10,0
30	1 1/8	7,93	1769	40397	8,7	41,6	49,6	101,0	430	24,3
23	7/8	7,59	1695	41500	17,0	73,0	40,0	81,2	682	40,3
19	3/4	7,14	1598	43082	23,0	92,0	31,2	66,4	718	44,9
16	5/8	6,73	1507	44848	27,5	110,7	24,0	50,1	658	43,7
13	1/2	6,24	1399	47045	30,1	121,1	16,5	33,6	496	35,5
10	3/8	5,81	1306	49446	30,9	124,2	9,9	19,4	307	23,5
6	1/4	5,24	1178	51692	31,3	125,6	4,3	8,9	134	11,4
0	0	4,80	1079	53179	31,3	125,7	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.