

440.3.410

Vacuum cleaner motor performance

DOMEL®

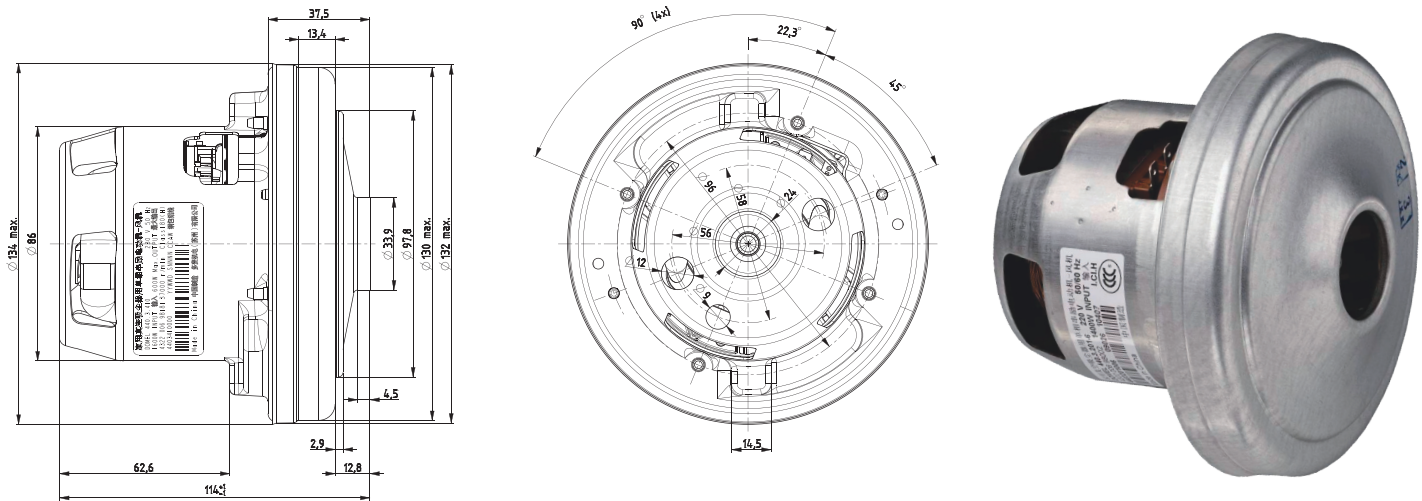
Vacuum cleaner motors with high efficiency 440.3.410 / 1600W / 230V / 50Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or horizontal 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	>=	1470	W
Vacuum:	P_{max}	>=	28,4 113,9	kPa in H ₂ O
Air Flow at $\phi 50$:	$Q_{\phi 50}$	>=	51 108	dm ³ /s CFM
Air Power:	P_{2max}	>=	570	W
Efficiency:	η_{max}	>=	41	%
Mass:	m	=	1,2	kg

Voltage:	230 V
Frequency:	50 Hz
Nominal Power:	1600 W

Max. power 1600W



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	7,02	1570	37186	1,3	4,6	53,9	114,6	69	4,4
40	1 1/2	6,99	1564	37280	3,0	15,5	52,3	108,7	155	9,9
30	1 1/8	6,88	1538	37587	7,8	37,2	47,1	95,9	366	23,8
23	7/8	6,62	1482	38581	15,2	64,9	38,0	77,0	576	38,9
19	3/4	6,25	1400	40045	20,4	81,4	29,6	63,0	603	43,1
16	5/8	5,89	1321	41738	24,4	98,1	22,8	47,6	554	42,0
13	1/2	5,54	1244	43502	26,7	107,7	15,7	31,9	418	33,6
10	3/8	5,19	1167	45570	28,2	113,4	9,6	18,7	269	23,1
6	1/4	4,78	1075	48572	28,6	114,9	4,1	8,5	118	11,0
0	0	4,46	1004	51052	29,9	119,9	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.