

499.3.701-2

Vacuum cleaner motor performance

DOMEL®

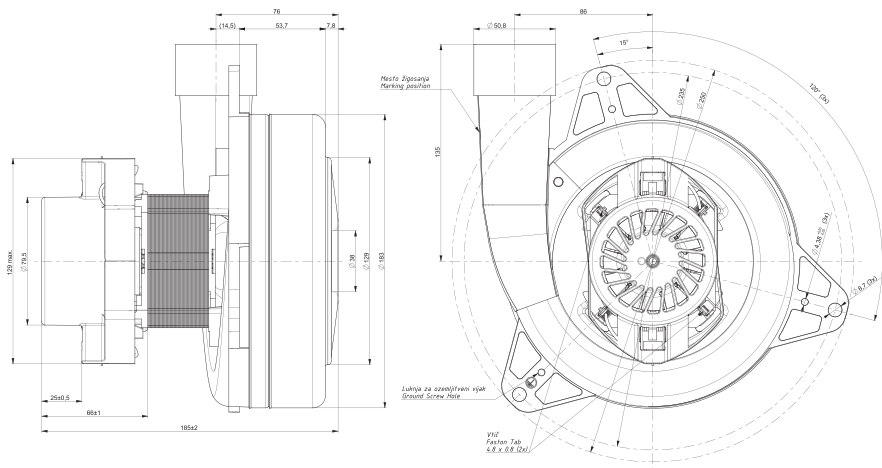
Vacuum cleaner motors 499.3.701-2 / 1800W / 230-240V / 50Hz are used for wet and dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and two fan stages. The rotor is located between two ball bearings enabling vertical or horizontal installation of motor. The motor is designed for insulation class 155(F) and constructed according to EN 60335-1.

Technical data:

Normal operation:	P_m	\geq	1660	W
Vacuum:	P_{max}	\geq	28,9 115,8	kPa in H ₂ O
Air Flow at $\phi 50$:	$Q_{\phi 50}$	\geq	59 124	dm ³ /s CFM
Air Power:	P_{2max}	\geq	630	W
Efficiency:	η_{max}	\geq	39	%
Mass:	m	=	3,34	kg

Max. power 1750W

Voltage:	230 - 240 V
Frequency:	50 Hz
Nominal Power:	1800 W



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	8,02	1755	20121	1,7	6,1	61,9	131,6	105	6,0
40	1 1/2	7,97	1747	20200	3,8	19,6	59,4	122,7	227	13,0
30	1 1/8	7,75	1701	20563	9,4	43,7	51,6	104,2	486	28,6
23	7/8	7,44	1638	21108	16,6	70,3	39,6	80,0	659	40,2
19	3/4	7,04	1555	21885	21,1	84,5	30,1	64,1	636	40,9
16	5/8	6,62	1467	22768	24,1	97,1	22,7	47,4	547	37,3
13	1/2	6,18	1376	23735	26,4	106,5	15,6	31,8	413	30,0
10	3/8	5,74	1285	24865	27,6	111,3	9,5	18,5	261	20,3
6	1/4	5,28	1184	26211	28,8	115,9	4,1	8,6	119	10,1
0	0	4,95	1115	27306	30,4	121,9	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.