

491.3.726

Vacuum cleaner motor performance

DOMEL®

Tangential bypass discharge vacuum cleaner motors 491.3.726 / 1700W / 230V / 50Hz are used for wet and dry aspiration. They are suitable for central vacuum cleaners. Technical data and dimensions are given in the table. Vacuum cleaner motors consist of universal commutator motor and two fan stages. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor.

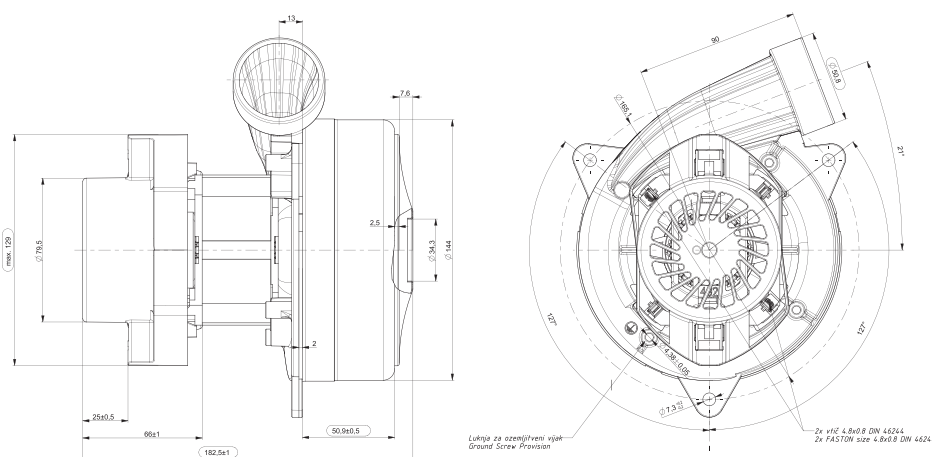
The motor is designed for insulation class 155 (F) and constructed according to EN 60335-1. The motor has provision for grounding.

Max. power 1800W

Technical data:

Normal operation:	P_m	\geq	1710	W
Vacuum:	P_{max}	\geq	28,8 115,8	kPa in H ₂ O
Air Flow at ϕ 50:	$Q_{\phi 50}$	\geq	63 134	dm ³ /s CFM
Air Power:	P_{2max}	\geq	650	W
Efficiency:	η_{max}	\geq	37	%
Mass:	m	=	2,57	kg

Voltage:	320 V
Frequency:	50 Hz
Nominal Power:	1700 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	8,16	1812	23311	2,0	7,2	66,8	142,2	132	7,3
40	1 1/2	8,15	1811	23319	4,3	21,9	63,0	129,8	273	15,1
30	1 1/8	8,17	1816	23262	10,2	46,7	53,7	107,9	548	30,2
23	7/8	8,00	1780	23596	17,2	71,8	40,2	80,9	691	38,8
19	3/4	7,59	1693	24306	20,7	82,8	29,8	63,5	617	36,4
16	5/8	7,16	1601	25194	23,2	93,4	22,3	46,6	517	32,3
13	1/2	6,67	1496	26295	25,5	103,4	15,4	31,4	393	26,3
10	3/8	6,16	1387	27672	27,7	111,9	9,5	18,6	263	18,9
6	1/4	5,55	1257	29519	29,1	116,9	4,2	8,6	121	9,6
0	0	5,08	1153	31201	30,3	121,7	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.