

491.3.474

Vacuum cleaner motor performance

DOMEL®

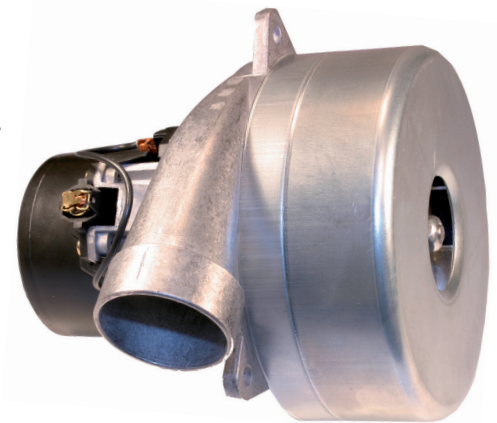
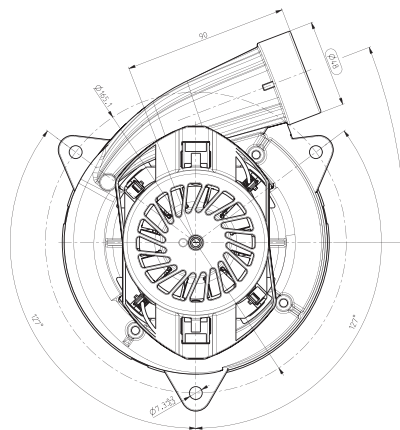
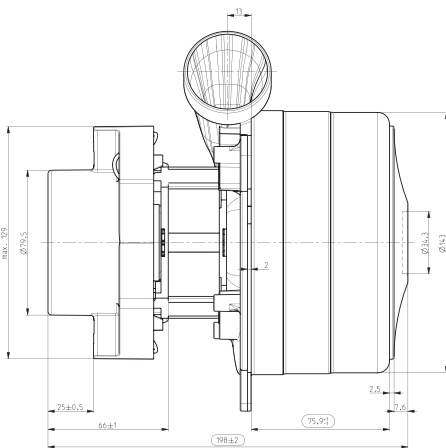
Tangential bypass discharge vacuum cleaner motors 491.3.474 / 1500W / 230V / 50Hz are used for wet and dry aspiration. They are suitable for central vacuums. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and three fan stages. The rotor is supported 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 1500W

Technical data:

Normal operation:	P_m	>=	1420	W
Vacuum:	P_{max}	>=	28,9 116,0	kPa in H ₂ O
Air Flow at $\phi 50$:	$Q_{\phi 50}$	>=	51 108	dm ³ /s CFM
Air Power:	P_{2max}	>=	470	W
Efficiency:	η_{max}	>=	32	%
Mass:	m	=	2,46	kg

Voltage:	230 V
Frequency:	50 Hz
Nominal Power:	1500 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	6,75	1496	19051	1,3	4,7	54,5	115,7	71	4,8
40	1 1/2	6,77	1499	19031	3,0	15,3	52,5	108,6	156	10,4
30	1 1/8	6,83	1511	18875	7,4	35,0	46,1	93,4	342	22,6
23	7/8	6,89	1525	18788	13,8	58,5	36,3	73,6	500	32,8
19	3/4	6,69	1480	19182	18,0	71,9	28,0	59,6	503	34,0
16	5/8	6,38	1414	19881	20,8	84,1	21,3	44,5	443	31,3
13	1/2	5,98	1329	20870	23,6	95,8	14,9	30,4	352	26,5
10	3/8	5,50	1230	22076	26,2	106,2	9,3	18,2	243	19,8
6	1/4	4,91	1102	23525	28,1	113,0	4,1	8,5	115	10,4
0	0	4,41	993	25257	30,4	122,1	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.