491.3.201
Vacuum cleaner motor performance

DOMEL®

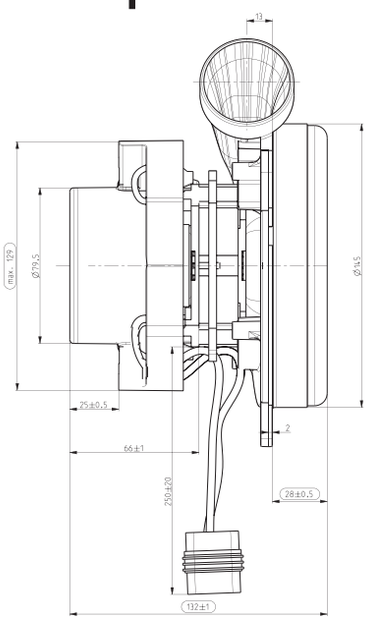
Tangential bypass discharge vacuum cleaner motors 491.3.201 / 300W / 12V / DC are used for wet and dry aspiration. They are suitable for mobile cleaning machines powered by battery. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor. The motor is designed for insulation class 155 (F) and constructed according to EN 60335-1.

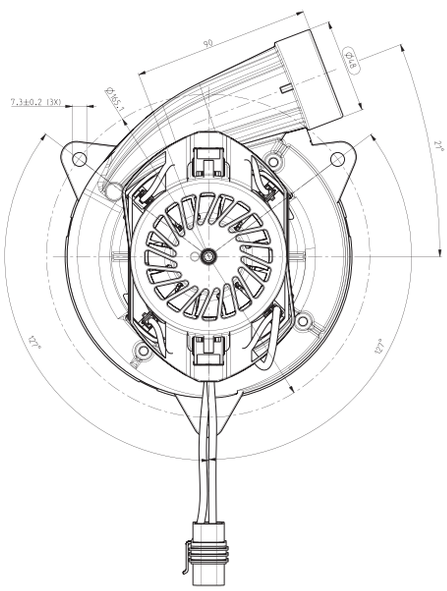
Technical data:

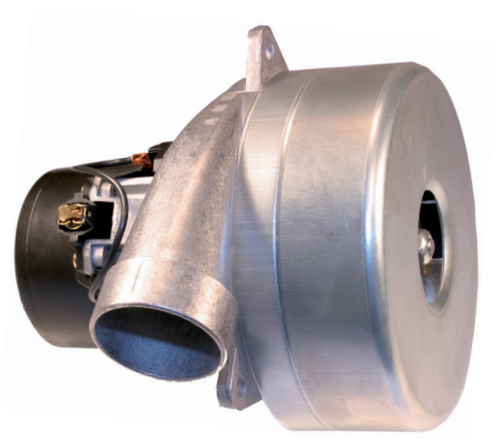
Normal operation:	P_m	>=	330	W
Vacuum:	p_{max}	>=	5,9 23,5	kPa in H_2O
Air Flow at φ50:	$Q_{\varphi 50}$	>=	35 74	dm^3/s CFM
Air Power:	P_{2max}	>=	73	W
Efficiency:	η_{max}	>=	22	%
Mass:	m	=	1,67	kg

Voltage:	12 V
Frequency:	DC Hz
Nominal Power:	300 W

Max. power 350W







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_2O	dm^3/s	CFM	W	%
50	2	29,72	357	13014	0,6	2,2	36,6	77,9	21	6,0
40	1 1/2	29,81	358	12968	1,3	6,2	34,6	70,7	44	12,4
30	1 1/8	29,44	354	13094	2,7	11,9	28,3	56,3	77	21,7
23	7/8	27,81	334	13676	3,9	15,9	19,8	39,7	77	22,9
19	3/4	26,70	321	14130	4,4	17,5	14,4	30,6	63	19,6
16	5/8	25,59	307	14567	4,8	19,2	10,7	22,3	51	16,6
13	1/2	24,63	296	14980	5,1	20,8	7,3	15,0	38	12,8
10	3/8	23,74	285	15436	5,5	22,3	4,5	8,8	25	8,7
6	1/4	22,78	274	15887	5,8	23,4	2,0	4,1	12	4,2
0	0	22,14	266	16218	6,2	24,7	0,0	0,0	0	0,0

Data above represent the preformance of an average motor sample. Individual data may vary due to normal manufacturing variations.
* Orifice in inch is only approximative.