

463.3.403-13

Vacuum cleaner motor performance

DOMEL®

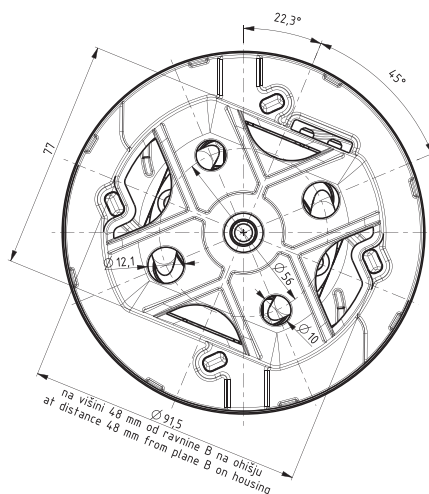
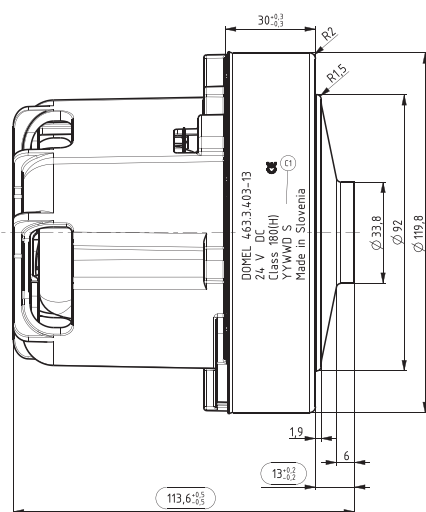
Vacuum cleaner motors with high efficiency 463.3.403-13 / 500W / 24V / DC are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum cleaner motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical 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	\geq	470	W
Vacuum:	P_{max}	\geq	13,9 55,5	kPa in H ₂ O
Air Flow at $\phi 50$:	$Q_{\phi 50}$	\geq	33 70	dm ³ /s CFM
Air Power:	P_{2max}	\geq	160	W
Efficiency:	η_{max}	\geq	33	%
Mass:	m	$=$	1,1	kg

Voltage:	24 V
Frequency:	0 Hz
Nominal Power:	500 W

Max. power 500W



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	21,30	511	24948	0,5	1,9	34,5	73,3	18	3,5
40	1 1/2	21,20	509	25010	1,2	6,4	33,8	70,3	41	8,1
30	1 1/8	21,05	505	25130	3,2	15,5	30,8	62,9	100	19,8
23	7/8	20,66	496	25585	6,3	27,0	25,1	51,1	159	32,0
19	3/4	19,90	478	26536	8,4	33,8	19,8	42,0	167	34,9
16	5/8	19,22	462	27547	10,2	41,0	15,3	32,1	156	33,7
13	1/2	18,47	444	28792	11,6	47,1	10,8	22,1	125	28,3
10	3/8	17,65	424	30271	12,9	52,3	6,8	13,3	87	20,6
6	1/4	16,73	402	32212	13,8	55,3	3,0	6,2	41	10,2
0	0	16,33	392	33363	14,6	58,5	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.