

491.3.414

Vacuum cleaner motor performance



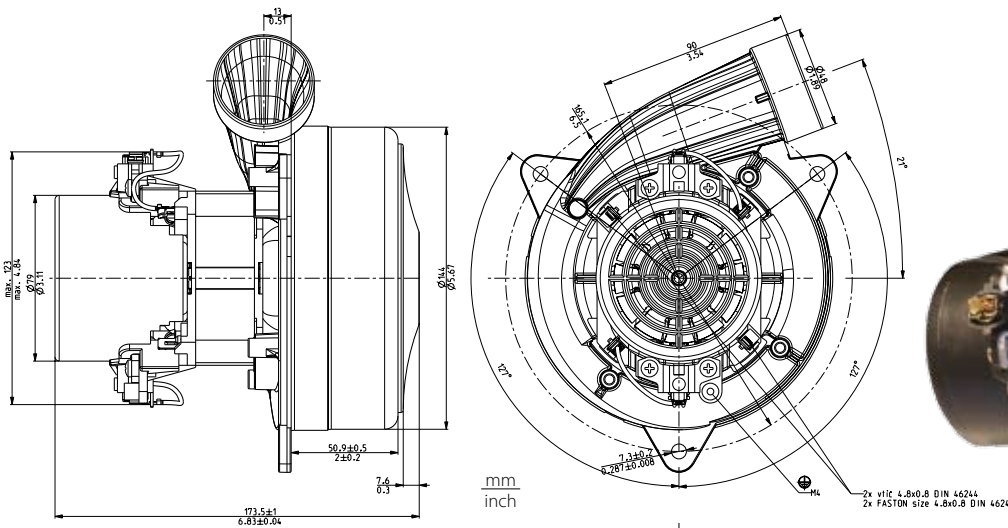
Technical data:

Tangential bypass discharge vacuum cleaner motors 491.3.414 / 850W / 120V / 60Hz 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 130 (B) and constructed according to EN 60335-1. The motor has provision for grounding.

Normal operation:	P_m	>=	723	W
Vacuum:	P_{max}	>=	20,3 81,6	kPa in H ₂ O
Air Flow:	Q_{max}	>=	45,0 95,3	dm ³ /s CFM
Air Power:	P_{2max}	>=	300	W
Efficiency:	η_{max}	>=	33	%
Mass:	m	=	2,29	kg

Max power 900W

Voltage:	120 V
Frequency:	60 Hz
Nominal Power:	850 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	7,97	904	18680	1,0	4,0	47,8	101,4	48	5,3
40	1 1/2	7,97	905	18633	2,3	9,2	46,1	97,6	105	11,6
30	1 1/8	8,00	907	18577	5,6	22,6	40,4	85,5	227	25,1
23	7/8	7,95	903	18663	10,1	40,5	31,4	66,6	316	35,1
19	3/4	7,74	880	18984	12,7	51,0	23,9	50,7	304	34,5
16	5/8	7,42	848	19566	14,7	59,1	18,2	38,6	268	31,6
13	1/2	6,95	799	20437	16,7	67,2	12,8	27,1	214	26,8
10	3/8	6,48	748	21488	18,5	74,2	8,0	16,9	147	19,6
6,5	1/4	5,94	690	22821	19,8	79,7	3,5	7,5	70	10,1
0	0	5,52	645	24020	21,4	85,8	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.