



## VACUUM CLEANER MOTOR PERFORMANCE CALCULATED FROM METRIC UNITS TO ASTM

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**Code: 491.3.422**

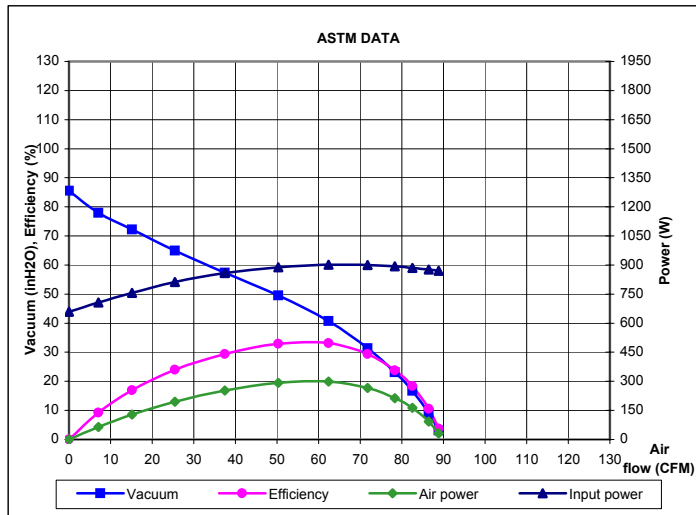
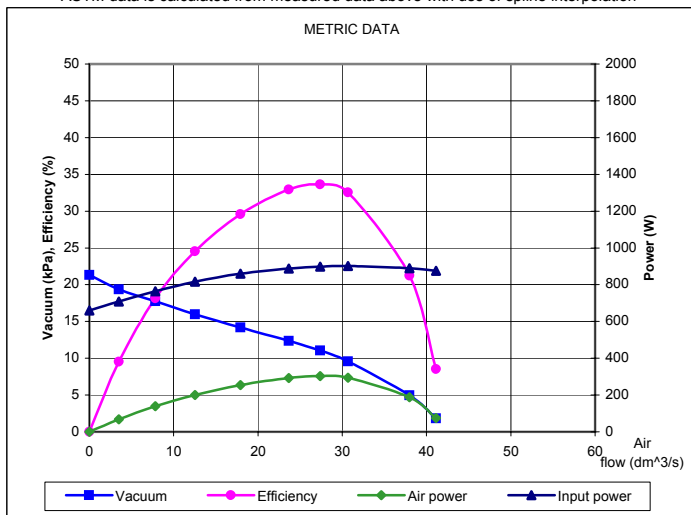
Voltage:	120 V	Frequency :	60 Hz
Mean Power: >=	700 W	Nominal Power:	800 W
Vacuum: >=	20,2 kPa >=		81,10 in. H2O
Air flow: >=	42 dm3/s >=		88,99 CFM
Air Power: >=	275 W		
Efficiency: >=	31 %		
Current: <=	8,3 A		
Mass: =	2,27 kg		

M E T R I C	Orifice mm	Current A	Input Pow. W	Speed /min	Vacuum kPa	Air flow dm3/s	Air Power W	Efficiency %	Vac (inH2O)	Flow (CFM)	M E A S U R E D D A T A
	40	7,62	874,91	19590	1,82	41,11	74,67	8,53	7,31	87,11	
	30	7,76	889,59	19406	4,97	37,98	188,71	21,22	19,95	80,48	
	23	7,87	901,75	19124	9,57	30,67	293,71	32,57	38,42	64,99	
	21	7,86	898,22	19181	11,04	27,37	302,16	33,64	44,32	57,99	
	19	7,75	888,23	19394	12,36	23,65	292,41	32,92	49,62	50,11	
	16	7,48	860,22	19835	14,20	17,92	254,39	29,57	57,01	37,97	
	13	7,06	816,65	20654	15,99	12,53	200,43	24,54	64,19	26,55	
	10	6,58	764,66	21705	17,74	7,82	138,75	18,15	71,22	16,57	
	6,5	6,06	707,87	23029	19,35	3,49	67,47	9,53	77,68	7,39	
	0	5,62	659,17	24350	21,31	0,00	0,00	0,00	85,55	0,00	

Note: ASTM performance data are calculated from the Metric data above, 1 inH2O = 0,2490889 kPa, 1 CFM = 0,4719474 l/s (NIST Special Publication 811,1995)

A S T M	Orifice in	Current A	Input Power W	Speed RPM	Vacuum inH2O	Air Flow CFM	Air Power W	Efficiency %	Orifice mm	C A L C U L A T E D
	2,000								50,80	
	1,750	7,6	870	19624	3,1	88,8	32,0	3,7	44,45	
	1,500	7,6	877	19579	9,0	86,5	92,2	10,5	38,10	
	1,250	7,7	886	19473	16,7	82,5	162,8	18,4	31,75	
	1,125	7,8	893	19336	23,1	78,3	212,5	23,8	28,58	
	1,000	7,8	900	19180	31,4	71,8	265,2	29,4	25,40	
	0,875	7,9	901	19129	40,7	62,4	299,0	33,2	22,23	
	0,750	7,8	889	19388	49,5	50,3	292,8	33,0	19,05	
	0,625	7,5	859	19861	57,3	37,5	252,4	29,4	15,88	
	0,500	7,0	812	20751	64,9	25,5	194,5	24,0	12,70	
	0,375	6,5	756	21889	72,2	15,1	128,5	17,0	9,53	
**	0,250	6,0	706	23077	77,9	7,1	64,9	9,2	6,35	
	0,000	5,6	659	24350	85,6	0,0	0,0	0,0	0,00	

\*\* ASTM data is calculated from measured data above with use of spline interpolation



Measured in accordance with: IEC 60312

Converted to ASTM by:

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Datum: 14-jan-2005

Produced by:

Roman Prezelj

Datum: 20-avg-2004