



Zelezniki

VACUUM CLEANER MOTOR PERFORMANCE  
CALCULATED FROM METRIC UNITS TO ASTM  
QUALITY DEPARTMENT

Datum: 17.05.2005

Code: 496.3.206-2  
Voltage / fequency: 120/60 V / Hz  
Stator winding:  
Rotor winding:  
Brushes:  
Weight: 1520 g

Working order number: 70861  
Request number: 01150104  
Number: 6  
Absolute pressure: 95,85 kPa  
Ambient temperature: 22,5 °C  
Correction factor:

Pf = W, Pi = W, Pm = W

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
	50	7,86	896,00	21180	1,28	54,00	69,30	7,73	5,14	114,42	
	40	7,77	885,80	21360	2,82	51,06	143,80	16,24	11,32	108,19	
	30	7,40	843,60	21900	5,84	41,08	240,00	28,45	23,45	87,04	
	23	6,72	774,10	23040	8,57	29,09	249,20	32,19	34,41	61,64	
	19	6,20	714,20	24060	10,14	21,56	218,60	30,61	40,71	45,68	
	16	5,78	665,90	24960	11,46	16,23	185,90	27,92	46,01	34,39	
	13	5,35	622,70	26040	12,68	11,27	142,90	22,95	50,91	23,88	
	10	4,91	571,50	27240	13,79	6,98	96,20	16,83	55,36	14,79	
	6,5	4,47	525,70	28680	14,71	3,08	45,30	8,62	59,06	6,53	
S	0	4,15	488,00	29940	16,05	0,00	0,00	0,00	64,43	0,00	

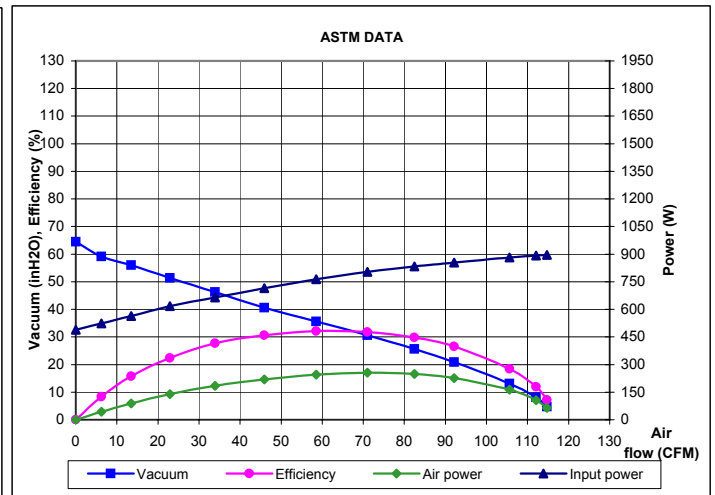
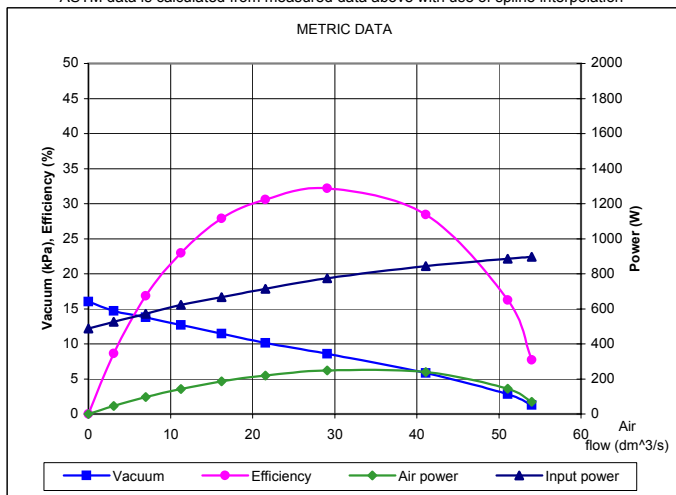
Maximum measured values:

Input power = 896 W, Air power = 249,2 W, Vacuum = 16,05 kPa = 64,43 inH2O, Air Flow = 54 L/s = 114,42 CFM, Efficiency = 32,19 %

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	7,9	896	21168	4,7	114,7	64,2	7,2	50,80	
	1,750	7,8	892	21269	8,1	112,1	106,6	11,9	44,45	
	1,500	7,7	881	21409	13,1	105,6	162,9	18,5	38,10	
	1,250	7,5	855	21736	20,9	92,1	226,9	26,5	31,75	
	1,125	7,3	833	22067	25,6	82,4	248,0	29,8	28,58	
	1,000	7,0	803	22555	30,6	71,0	255,1	31,8	25,40	
	0,875	6,6	764	23219	35,6	58,5	245,0	32,1	22,23	
	0,750	6,2	715	24046	40,6	45,9	219,1	30,6	19,05	
	0,625	5,8	664	25001	46,2	33,9	184,3	27,8	15,88	
	0,500	5,3	618	26155	51,4	22,9	138,3	22,4	12,70	
S	0,375	4,8	564	27444	56,0	13,5	88,7	15,7	9,53	
**	0,250	4,5	524	28731	59,2	6,3	43,5	8,3	6,35	
	0,000	4,2	488	29940	64,4	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

Measured by: Marko Thaler