



Zelezniki

VACUUM CLEANER MOTOR PERFORMANCE
CALCULATED FROM METRIC TO IMPERIAL UNITS & ASTM ORIFICE

Date: 18.10.2005

Code: 492.3.207
Voltage / fequency: 120/60 V / Hz
Stator winding:
Rotor winding:
Brushes:
Weight: 1620 g

Working order number:
Request number:
Number:
Absolute pressure: kPa
Ambient temperature: °C
Correction factor:

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
	40	10,18	1143,48	21557	3,43	56,27	193,19	16,89	13,77	119,23	
	30	9,86	1107,34	21883	7,61	46,64	354,73	32,03	30,55	98,82	
	23	9,02	1014,80	22971	11,19	33,00	369,32	36,39	44,92	69,92	
	21	8,71	983,00	23418	12,00	28,45	341,44	34,73	48,18	60,28	
	19	8,42	953,86	23840	12,72	23,96	304,80	31,95	51,07	50,77	
	16	7,89	894,38	24547	13,81	17,69	244,26	27,31	55,44	37,48	
	13	7,30	834,68	25523	14,77	12,09	178,60	21,40	59,30	25,62	
	10	6,76	774,90	26457	15,62	7,39	115,33	14,88	62,71	15,66	
	6,5	6,26	720,46	27352	16,03	3,20	51,32	7,12	64,35	6,78	
	0	5,96	688,76	28001	16,92	0,00	0,00	0,00	67,93	0,00	

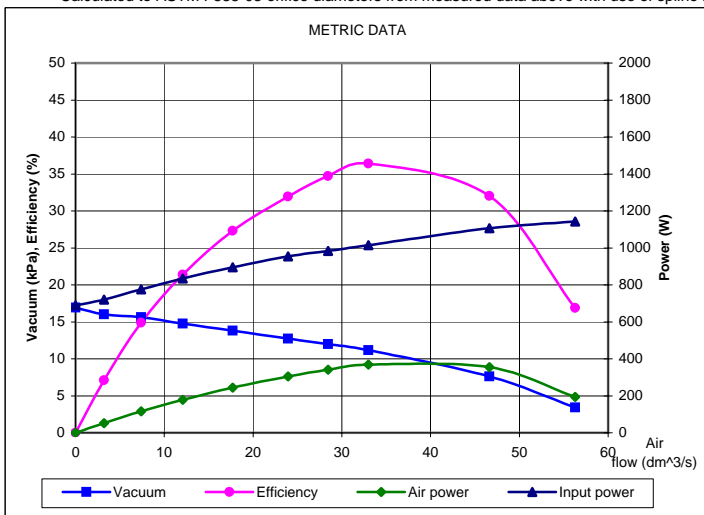
Maximum measured values:

Input power = 1143,48 W, Air power = 369,32 W, Vacuum = 16,92 kPa = 67,93 inH2O, Air Flow = 56,27 L/s = 119,23 CFM, Efficiency = 36,39 %

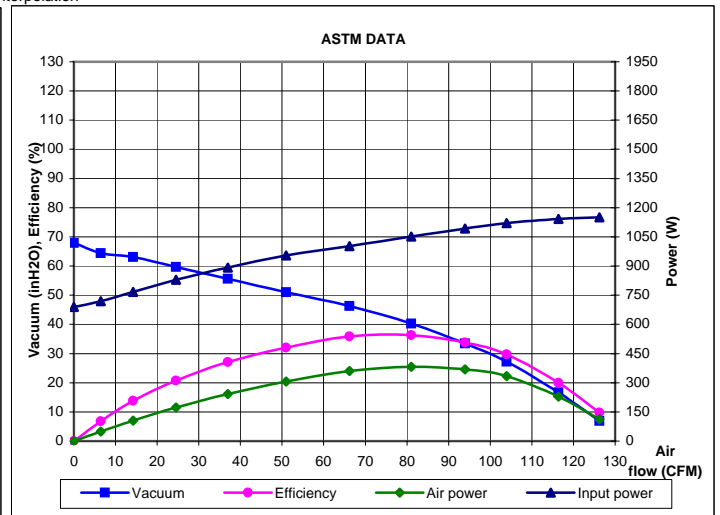
Note for units conversion: 1 inH2O = 0.2490889 kPa, 1 CFM = 0.4719474 l/s, 1 in = 25.4 mm (NIST Special Publication 811,1995)

I M P E R I A L	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	10,2	1150	21520	6,9	126,2	112,1	9,7	44,45	
	1,500	10,2	1141	21564	16,6	116,4	228,6	20,0	38,10	
	1,250	10,0	1121	21746	27,2	103,9	333,3	29,7	31,75	
	1,125	9,7	1093	22034	33,5	93,9	368,6	33,8	28,58	
	1,000	9,4	1052	22501	40,3	81,0	381,9	36,4	25,40	
	0,875	8,9	1002	23143	46,3	66,2	360,1	35,9	22,23	
	0,750	8,4	955	23830	51,0	51,0	305,8	32,0	19,05	
	0,625	7,9	892	24583	55,6	37,0	241,6	27,1	15,88	
	0,500	7,2	829	25622	59,7	24,5	172,1	20,8	12,70	
	0,375	6,7	766	26595	63,1	14,3	105,7	13,8	9,53	
	0,250	6,2	719	27381	64,4	6,5	49,2	6,8	6,35	
**	0,000	6,0	689	28001	67,9	0,0	0,0	0,0	0,00	

** Calculated to ASTM F588-03 orifice diameters from measured data above with use of spline interpolation



Measured in accordance with: IEC 60312



Measured by:

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