DOMEL®

Zelezniki

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

Date: 20.7.1999

Code:	492.3.575	Working order number:	
Voltage / fequency:	120/60 V/Hz	Request number:	
Stator winding:		Number:	
Rotor winding:		Absolute pressure:	kPa
Brushes:		Ambient temperature:	°C
Weight:	2280 g	Correction factor:	

METRIC UNITS

Orifice mm	Current A	Input Pow. W	Speed /min	Vacuum kPa	Air flow dm3/s	Air Power W	Efficiency %	Vac (inH2O)	Flow (CFM)
40	9,72	1072,10	18535	2,88	51,62	148,69	13,87	11,56	109,38
30	9,77	1077,08	18421	7,01	44,86	314,58	29,21	28,14	95,05
23	9,47	1047,02	18721	11,48	33,39	383,33	36,61	46,09	70,75
21	9,24	1026,60	19040	12,68	29,19	370,11	36,05	50,91	61,85
19	9,00	1004,44	19363	13,65	24,76	338,01	33,65	54,80	52,46
16	8,50	954,50	20049	15,15	18,46	279,76	29,31	60,82	39,11
13	7,98	903,56	20797	16,49	12,71	209,67	23,21	66,20	26,93
10	7,39	845,08	21743	17,78	7,83	139,23	16,47	71,38	16,59
6,5	6,81	786,86	22788	18,96	3,45	65,49	8,32	76,12	7,31
0	6,33	737,18	23763	20,91	0,00	0,00	0,00	83,95	0,00

METRIC MEASURED DATA

Maximum measured values:

Input power = 1077,08 W, Air power = 383,33 W, Vacuum = 20,91 kPa = 83,95 inH2O, Air Flow = 51,62 L/s = 109,38 CFM, Efficiency = 36,61 %

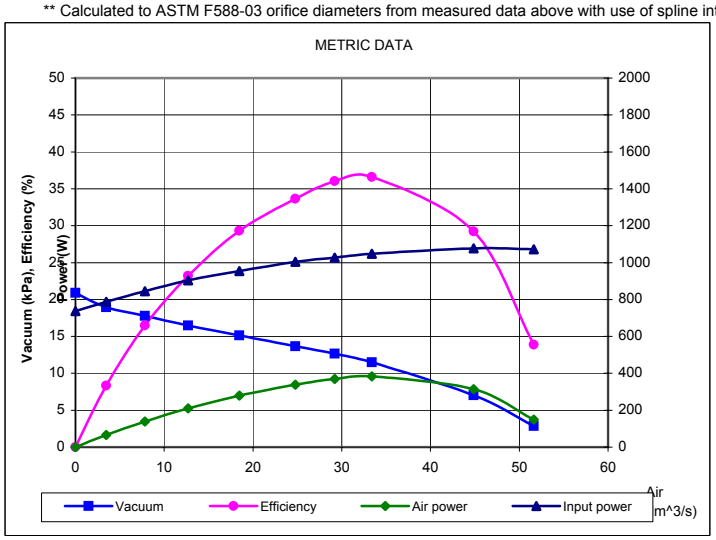
Note for units conversion: 1 inH2O = 0.2490889 kPa, 1 CFM = 0.4719474 l/s, 1 in = 25.4 mm (NIST Special Publication 811,1995)

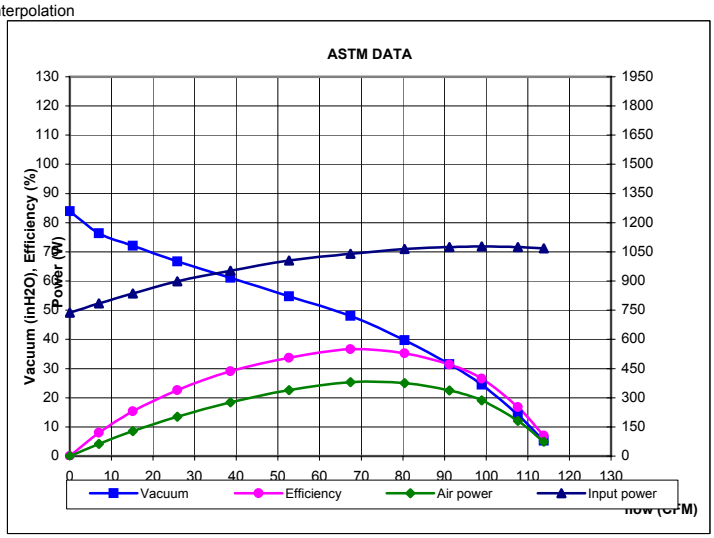
IMPERIAL UNITS

Orifice in	Current A	Input Power W	Speed RPM	Vacuum inH2O	Air Flow CFM	Air Power W	Efficiency %	Oriffice mm
2,000								50,80
1,750	9,7	1067	18593	5,2	113,8	73,6	7,0	44,45
1,500	9,7	1074	18510	14,2	107,6	180,9	16,8	38,10
1,250	9,8	1078	18436	24,5	99,0	286,5	26,6	31,75
1,125	9,8	1075	18414	31,5	91,2	336,7	31,3	28,58
1,000	9,7	1064	18491	39,7	80,4	374,8	35,2	25,40
0,875	9,4	1039	18839	48,1	67,4	380,7	36,6	22,23
0,750	9,0	1005	19354	54,7	52,7	338,9	33,7	19,05
0,625	8,5	952	20079	61,1	38,6	277,1	29,1	15,88
0,500	7,9	898	20883	66,7	25,8	202,5	22,6	12,70
0,375	7,3	836	21899	72,1	15,1	128,3	15,3	9,53
0,250	6,8	785	22824	76,3	7,0	63,0	8,0	6,35
0,000	6,3	737	23763	83,9	0,0	0,0	0,0	0,00

IMPERIAL CALCULATED DATA

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





Measured in accordance with: IEC 60312

Measured by: Ivan Krmelj