

## Blower performance measurement data

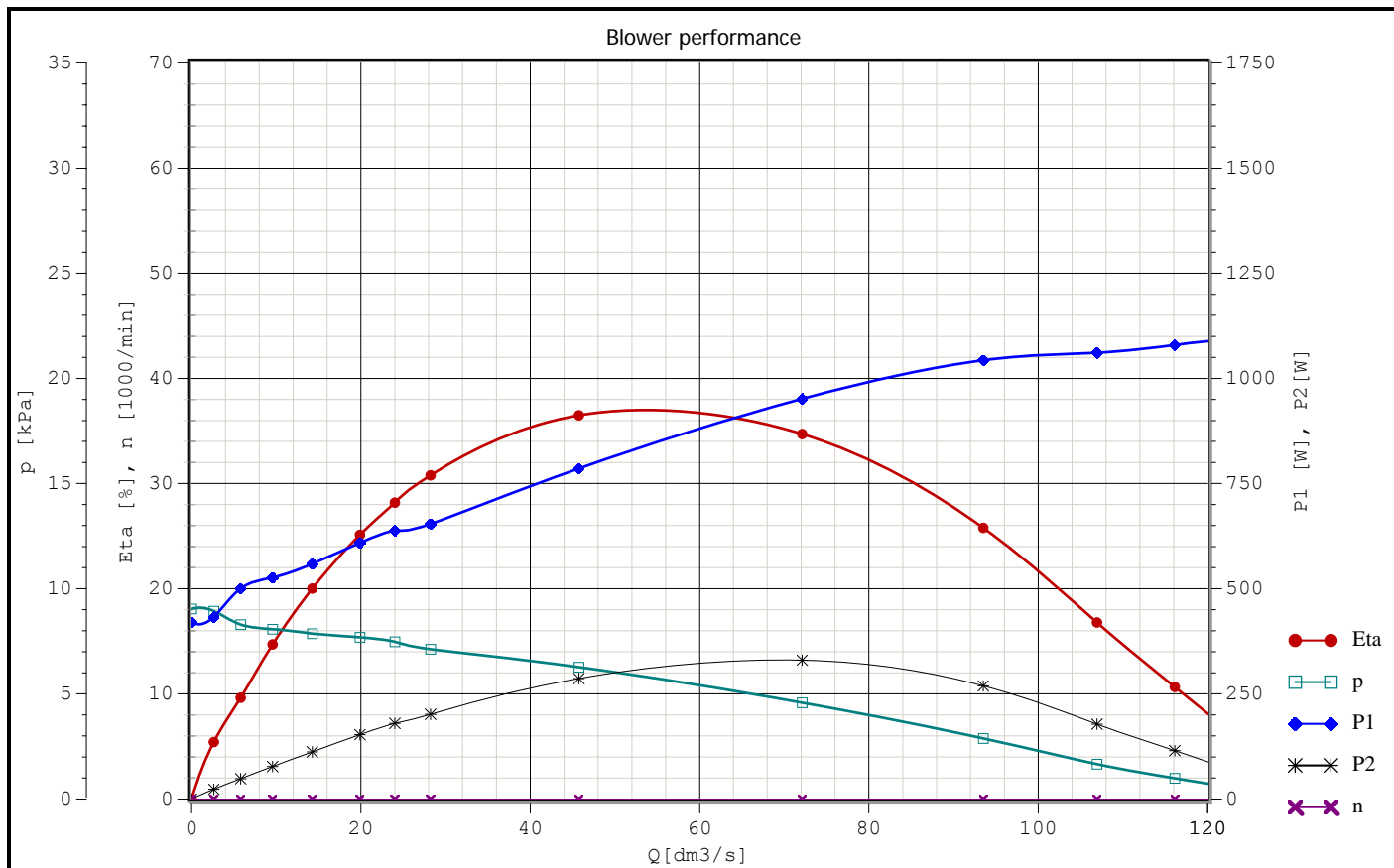
Measurement Comment :

Code : 497.3.275-716  
 Voltage / Frequency : 120V / 50Hz  
 Request number : 08160607  
 Date of measurement : 4.6.2007  
 File Name:  
 08160607 VCMP\_RA 497\_3\_275-716 RS,st-1,tc\_2 156330  
 Measured by : M.Pintar

497.3.275-716  
 RS  
 120V/50 Hz  
 PAS 5000  
 utekavanje 10min, meritev 5 s, proženje 30s

Točka	D (mm)	I1 (A)	P1 (W)	n (min-1)	p (kPa)	Q (dm3/s)	P2 (W)	Eta (%)
1	90	12,97	1077,15	0	0,45	126,7	57,1	5,3
2	80	13,01	1089,56	0	0,63	121,81	77,12	7,08
3	70	13,01	1079,34	0	0,99	116,12	115,08	10,66
4	60	12,7	1060,87	0	1,66	106,94	178	16,78
5	50	12,5	1042,98	0	2,88	93,51	268,83	25,78
6	40	11,64	951,41	0	4,58	72,11	330,2	34,71
7	30	9,79	785,63	0	6,27	45,74	286,65	36,49
8	23	8,35	653,82	0	7,13	28,22	201,31	30,79
9	21	8,2	638,03	0	7,48	24,02	179,8	28,18
10	19	7,85	608,82	0	7,69	19,89	153,02	25,13
11	16	7,24	559,21	0	7,86	14,25	111,97	20,02
12	13	6,93	526,55	0	8,08	9,58	77,38	14,69
13	10	6,62	500,54	0	8,3	5,8	48,15	9,62
14	6,5	5,8	432,64	0	8,94	2,62	23,39	5,41
15	0	5,64	420,47	0	9,04	0	0	0

D - Orifice, I1 - Current, P1 - Input Power, n - Speed, p - Vacuum, Q - Air Flow, P2 - Air Power, Eta - Efficiency



CALCULATED FROM MEASUREMENT DATA TO IMPERIAL UNITS & ASTM F588-03 ORIFICE DIAMETERS WITH USE OF SPLINE INTERPOLATION

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 RS  
 120V/50 Hz  
 PAS 5000  
 utekavanje 10min, meritev 5 s, proženje 30s

D (inch)	I1 (A)	P1 (hp)	n (rpm)	p (inH2O)	Q (CFM)	P2 (hp)	Eta (%)	D (mm)
0	5,64	0,56	0	36,29	0	0	0	0
0,25	5,77	0,58	0	35,98	5,33	0,03	5,26	6,35
0,38	6,52	0,66	0	33,61	11,2	0,06	8,94	9,52
0,5	6,91	0,7	0	32,51	19,41	0,1	14,15	12,7
0,63	7,22	0,75	0	31,59	29,74	0,15	19,8	15,88
0,75	7,86	0,82	0	30,86	42,36	0,21	25,21	19,05
0,88	8,3	0,87	0	29,19	56,29	0,26	29,83	22,22
1	8,7	0,92	0	27,23	71,6	0,31	33,37	25,4
1,13	9,43	1,01	0	25,83	88,85	0,36	35,8	28,57
1,25	10,2	1,1	0	24,22	106,9	0,41	36,98	31,75
1,5	11,37	1,24	0	19,81	142,62	0,44	35,81	38,1
1,75	12,14	1,34	0	15,17	174,94	0,42	31,17	44,45
2	12,53	1,4	0	11,09	200,99	0,35	24,99	50,8
2,5	12,81	1,43	0	5,51	234,26	0,2	14,3	63,5
3	13,04	1,46	0	2,97	254,05	0,12	8,18	76,2
3,5	12,97	1,45	0	1,87	267,32	0,08	5,46	88,9

D - Orifice, I1 - Current, P1 - Input Power, n - Speed, p - Vacuum, Q - Air Flow, P2 - Air Power, Eta - Efficiency  
 Note for units conversion: 1 inH2O = 0.2490889 kPa, 1 CFM = 0.4719474 l/s, 1 in = 25.4 mm, 1 hp = 745.6999 W (NIST Special Publication 811, 1995)

