

Measurement Comment :

Code : 497.3.275-312
Voltage / Frequency : 120V / 50Hz
Request number : 05390409
Date of measurement : 28.04..2009

Etalon 124
497.3.275-312
120V/50 Hz
Meritev zračne karakteristike etalona

File Name:

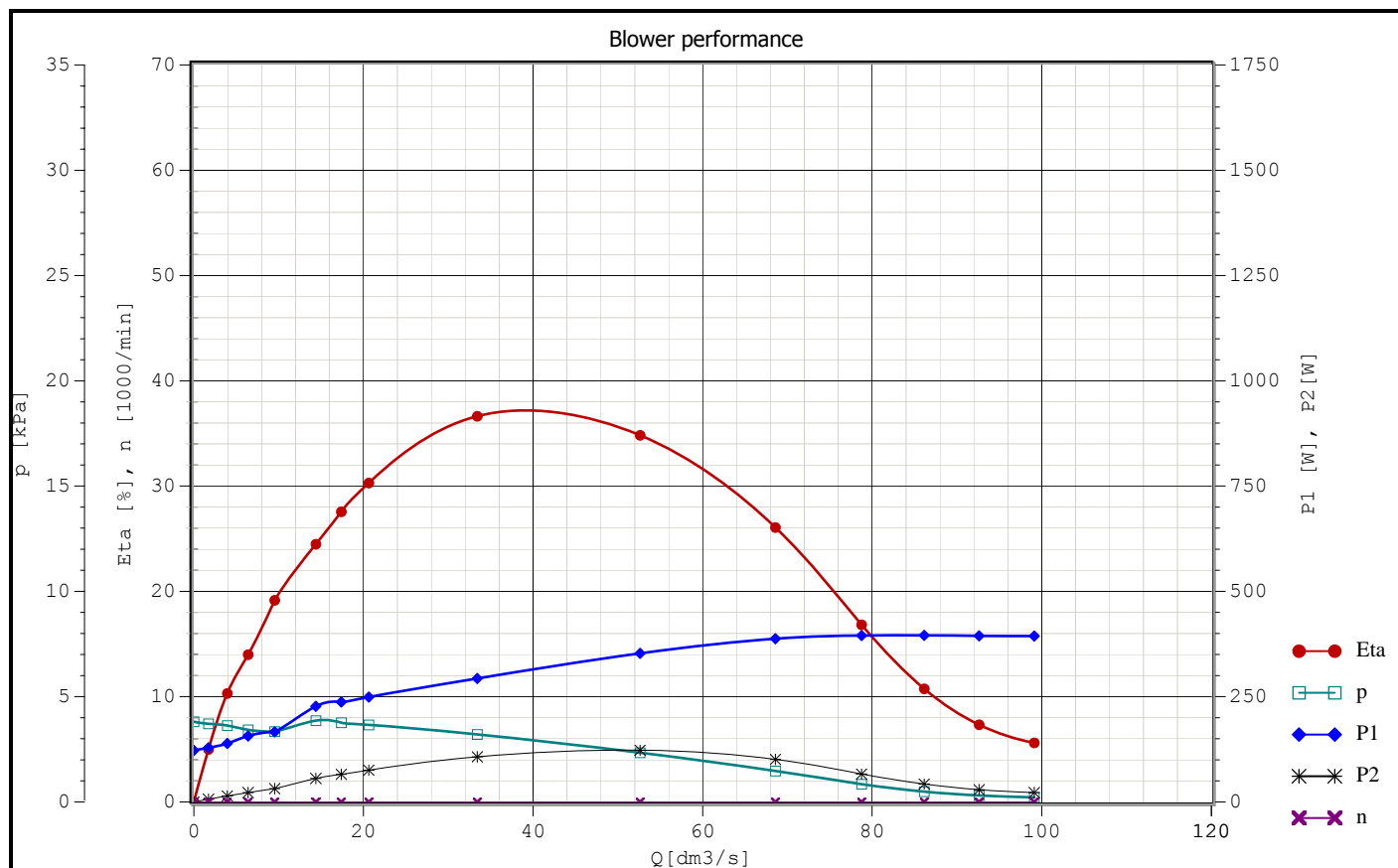
05390409 VCMP_RA 497_3_275-312 ETALON 124,st-1,tc_1 000

merim 5s, prožim po 30s

Measured by : M.Pintar

Točka	D (mm)	I1 (A)	P1 (W)	n (min-1)	p (kPa)	Q (dm3/s)	P2 (W)	Eta (%)
1	90	2,78	393,67	0	0,22	99,11	22,07	5,61
2	80	2,79	394,42	0	0,31	92,61	28,96	7,34
3	70	2,79	395,28	0	0,49	86,14	42,49	10,75
4	60	2,79	395,02	0	0,84	78,74	66,5	16,83
5	50	2,74	387,39	0	1,47	68,58	101	26,07
6	40	2,52	352,95	0	2,34	52,63	122,91	34,82
7	30	2,13	293,02	0	3,21	33,43	107,37	36,64
8	23	1,83	249,01	0	3,66	20,64	75,46	30,3
9	21	1,76	237,48	0	3,76	17,39	65,45	27,56
10	19	1,68	226,93	0	3,86	14,4	55,56	24,48
11	16	1,28	166,5	0	3,34	9,54	31,88	19,15
12	13	1,21	156,7	0	3,42	6,4	21,92	13,99
13	10	1,08	138,65	0	3,63	3,94	14,29	10,3
14	6,5	1	128,69	0	3,71	1,73	6,42	4,99
15	0	0,97	122,25	0	3,81	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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05390409 VCMP_RA 497_3_275-312 ETALON 124,st-1,tc_1 000

merim 5s, prožim po 30s

Measured by : M.Pintar

D (inch)	I1 (A)	P1 (W)	n (rpm)	p (inH2O)	Q (CFM)	P2 (W)	Eta (%)	D (mm)
0	0,97	122,25	0	15,3	0	0	0	0
0,25	1	128,51	0	14,9	3,51	6,16	4,79	6,35
0,38	1,06	136,08	0	14,65	7,6	13,06	9,63	9,52
0,5	1,2	155,87	0	13,84	13,01	21,24	13,58	12,7
0,63	1,27	164,88	0	13,35	19,85	31,13	18,92	15,88
0,75	1,68	227,57	0	15,51	30,68	55,89	24,56	19,05
0,88	1,8	243,77	0	14,82	40,98	71,43	29,28	22,22
1	1,93	264,74	0	14,21	52,64	87,61	33,12	25,4
1,13	2,07	284,28	0	13,33	65,08	101,93	35,86	28,57
1,25	2,21	303,98	0	12,31	78	113,01	37,19	31,75
1,5	2,46	342,78	0	10,09	104,02	123,15	35,94	38,1
1,75	2,64	372,25	0	7,78	127,95	116,67	31,35	44,45
2	2,75	388,77	0	5,66	147,46	98,31	25,28	50,8
2,5	2,79	395,35	0	2,77	172,71	56,58	14,31	63,5
3	2,79	394,78	0	1,46	191,09	33,09	8,38	76,2
3,5	2,78	393,74	0	0,92	208,48	22,69	5,77	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 (NIST Special Publication 811, 1995)

