

University of Illinois Department of Agricultural Engineering
 Bioenvironmental and Structural Systems Lab
 Final Report

Project Number: 12353
 Test Date: May 21, 2012

Inlet:
 Make- Termotecnica
 Model- PERICOOL 30-60/7-100
 Size- 48" x 48" (1219 x 1219 mm) test area

Description: Cellulose based evaporative cooling pad, 30 deg. X 60 deg. Corrugation angle

Notes:

Test Conditions:

T(wb): 63,0 Barometric pressure, recorded 29,45
 T(db): 76,0 Barometric Pressure, corrected 29,32

Static Pressure (in. H ₂ O)	Airflow (cfm)	Velocity (fpm)	Static Pressure (Pa)	Velocity (m/s)
0,010	1726	108	3	0,55
0,020	2446	153	5	0,78
0,040	3553	222	10	1,13
0,050	4012	251	12	1,28
0,080	5175	323	20	1,65
0,100	5863	366	25	1,87
0,125	6575	411	31	2,10
0,150	7239	452	37	2,31
0,201	8427	527	50	2,69
0,251	9522	595	62	3,04
0,301	10411	651	75	3,32
0,400	12150	759	100	3,87
0,500	13715	857	125	4,37
0,600	15076	942	149	4,81
0,700	16515	1032	174	5,26