

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

Project Number: 12351  
 Test Date: May 21, 2012

Inlet:  
 Make- Termotecnica  
 Model- PERICOOL 45-45/7-100  
 Size- 48" x 48" (1219 x 1219 mm) test area

Description: Cellulose based evaporative cooling pad, 45 deg. X 45 deg. Corrugation angle

Notes:

Test Conditions:

T(wb): 62,5 Barometric pressure, recorded 29,44  
 T(db): 75,5 Barometric Pressure, corrected 29,32

Static Pressure (in. H <sub>2</sub> O)	Airflow (cfm)	Velocity (fpm)	Static Pressure (Pa)	Velocity (m/s)
0,010	1748	109	3	0,56
0,020	2540	159	5	0,81
0,039	3683	230	10	1,17
0,050	4146	259	12	1,32
0,080	5353	335	20	1,71
0,100	6020	376	25	1,92
0,125	6809	426	31	2,17
0,150	7514	470	37	2,40
0,201	8829	552	50	2,81
0,250	9845	615	62	3,14
0,300	10882	680	75	3,47
0,400	12605	788	100	4,02
0,500	14207	888	124	4,53
0,600	15846	990	149	5,05
0,699	17544	1097	174	5,59