

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

Project Number: 12355  
 Test Date: May 21, 2012

Inlet:  
 Make- Termotecnica  
 Model- PERICOOL 30-60/7-150  
 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): 77,0 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	1166	73	3	0,37
0,020	1902	119	5	0,61
0,040	2907	182	10	0,93
0,050	3314	207	12	1,06
0,080	4283	268	20	1,37
0,100	4929	308	25	1,57
0,125	5535	346	31	1,76
0,150	6080	380	37	1,94
0,200	7091	443	50	2,26
0,250	7973	498	62	2,54
0,300	8841	553	75	2,82
0,400	10359	647	100	3,30
0,500	11628	727	125	3,71
0,600	12919	807	149	4,12
0,700	14091	881	174	4,49
0,800	15173	948	199	4,84
0,900	16182	1011	224	5,16