

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96240 Series/Test: / Test Date: September 24, 1996 File Name: **Fan**Make: Hired Hand
Model #: 6603-6012 w/cone
Serial #: -
Manufacturer: Hired Hand
Blade Size: 48.5"
Orifice Dia.: 49.3"**Blade**Number: 3
Shape: propeller
Material: galv. steel
Pitch: -
Clearance: 0.4"
Hub Diameter: -**Shutter**Material: aluminum
Number Doors: 12
Number Rows: 2
Door Length: 25.6"
Location: intake**Other Attachments**Discharge cone 32.3" deep, 59" o.d., 49.3" i.d.**Motor**Make: Magnetek
Model #: C782
Serial #: -
H.P.: 1
Amps: 4.3/8.6
Volts: 230/115
RPM: 1725
S.F.: 1.40
Drive Pulley Dia.: AK39
Axle Pulley Dia.: AK104
Center Spacing: -**Housing**Material: Fiberglass
Intake Area: 52.5"x52.5"
Discharge Area: 49.3" dia.
Depth: 32" top
30" bottom**Guards**Description: wire
Spacing: 2" concentric
Location: exhaust

TEST RESULTS

HIRED HAND 6603-6012 w/cone

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96240	0.00	633	26300	23.6
Fan description:	0.05	630	25000	21.0
48" belt drive, 1 hp Magnetek C782	0.10	628	23600	18.8
motor, fiberglass housing, aluminum shutter	0.15	626	21900	16.6
#6611-5012, guard and discharge cone	0.20	624	19900	14.4
	0.25	621	17300	12.0
	0.30	618	9500	6.3
