

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96372 Series/Test: / Test Date: December 4, 1996 File Name: **Fan**Make: Hired HandModel #: 6603-6076Serial #: -Manufacturer: Hired HandBlade Size: 36"Orifice Dia.: 37"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: 0.5"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 13per rowNumber Rows: 2Door Length: 20.4"Location: intake**Other Attachments**Discharge cone 25.3" deep, 46" o.d.**Motor**Make: A.O. SmithModel #: F56A05A75Serial #: -H.P.: 1/2Amps: 5.3/2.7Volts: 115/230RPM: 825S.F.: 1.2Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: fiberglassIntake Area: 42" x 42"Discharge Area: 37" dia.Depth: 25.5" top
23.5" bottom**Guards**Description: wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

HIRED HAND 6603-6076

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96372	0.00	848	12200	21.6
Fan description:	0.05	840	11430	19.5
36" direct drive, ½ hp A.O. Smith F56A05A75	0.10	833	10600	17.3
motor, fiberglass housing, plastic shutter,	0.15	824	9650	15.1
guard and discharge cone	0.20	812	8510	12.8
	0.25	802	6760	9.8
	0.30	789	3790	5.4
