

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 96371 Series/Test: / Test Date: December 4, 1996 File Name: **Fan**Make: Hired HandModel #: 6603-6077Serial #: -Manufacturer: Hired HandBlade Size: 36"Orifice Dia.: 37"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: 0.5"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 9 per rowNumber Rows: 2Door Length: 19.6"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 6603-6077

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96371	0.00	849	12090	21.2
Fan description:	0.05	844	11380	19.5
36" direct drive, ½ hp A.O. Smith F56A05A75	0.10	837	10500	17.3
motor, fiberglass housing, aluminum shutter	0.15	830	9500	15.0
# 6611-5009, guard and discharge cone	0.20	819	8280	12.5
	0.25	810	6760	9.9
	0.30	784	4090	5.6
