

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96368 Series/Test: / Test Date: December 4, 1996 File Name: **Fan**Make: Hired HandModel #: 6603-6086Serial #: -Manufacturer: Hired HandBlade Size: 36"Orifice Dia.: 37"**Blade**Number: 4Shape: propellerMaterial: stainless 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: MagnetekModel #: 3-158717-02Serial #: -H.P.: 1/2Amps: 3.2/6.4Volts: 230/115RPM: 1725S.F.: 1.00Drive Pulley Dia.: 2.5"o.d.Axle Pulley Dia.: 8.3"o.d.Center 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 6603-6086

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96368	0.00	549	12640	24.7
Fan description:	0.05	547	11500	20.9
36" belt drive, ½ hp Magnetek 8-158717-02	0.10	545	10270	17.7
motor, fiberglass housing, plastic shutter,	0.15	544	8510	14.3
guard and discharge cone	0.20	541	3980	6.2
	0.25	538	2210	3.1
