

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 96235 Series/Test: / Test Date: September 24, 1996 File Name: **Fan**Make: Hired HandModel #: 24" FF 6603-9500Serial #: -Manufacturer: Hired HandBlade Size: 24.3"Orifice Dia.: 24.8"**Blade 25976-3**Number: 3Shape: propellerMaterial: aluminumPitch: -Clearance: 0.2"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 7 per rowNumber Rows: 2Door Length: 13.1"Location: intake**Other Attachments**Discharge cone 25.3" deep, 24.3" i.d., 31.5" o.d.**Motor**Make: MagnetekModel #: HF3LSample #: S9209EH.P.: 1/3Amps: 5.4/2.7Volts: 115/230RPM: 1075S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: ABSIntake Area: 28" x 28"Discharge Area: 24.3"Depth: 20"**Guards**Description: wireSpacing: 2.2" concentricLocation: exhaust

TEST RESULTS

HIRED HAND 24"FF 6603-9500

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96235	0.00	1125	6990	19.4
Fan description:	0.05	1120	6620	17.4
24" direct drive, 1/3 hp Magnetek HF3L	0.10	1115	6280	16.1
motor, plastic housing, plastic shutter,	0.15	1110	5830	14.5
guard and discharge cone	0.20	1105	5360	12.6
	0.25	1100	4820	11.0
	0.30	1095	3790	8.5
