

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96227 Series/Test: / Test Date: September 24, 1996 File Name: **Fan**Make: Hired HandModel #: 24" FF 6603-9502Serial #: -Manufacturer: Hired HandBlade Size: 24.3"Orifice Dia.: 24.8"**Blade**Number: 3Shape: propellerMaterial: aluminumPitch: Clearance: 0.2"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 6Number Rows: 1Door Length: 25.8"Location: intake**Other Attachments**Discharge cone 24.3" i.d., 31.5"o.d., 25.3" deep**Motor**Make: MagnetekModel #: HF3LSample #: S9209E-2H.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 6603-9502

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96227	0.00	1131	6820	19.3
Fan description:	0.05	1125	6480	17.7
24" direct drive, 1/3 hp Magnetek HF3L	0.10	1118	6170	16.2
motor, plastic housing, aluminum shutter	0.15	1112	5740	14.4
# 6611-5005, guard and discharge cone	0.20	1108	5330	12.7
	0.25	1103	4780	11.1
	0.30	1097	4130	9.3
