

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96230 Series/Test: / Test Date: September 24, 1996 File Name: **Fan**Make: Hired HandModel #: 24" FF 6603-9532Serial #: -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 25.3" deep, 24.3" i.d., 31.5" o.d.**Motor**Make: MarathonModel #: 2WC48A11T2023A PSerial #: -H.P.: 1/2Amps: 6.4/3.2Volts: 115/230RPM: 1075S.F.: 1.0Drive 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 6603-9532

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96230	0.00	1132	7540	16.5
Fan description:	0.05	1129	7210	14.8
24" direct drive, ½ hp Marathon	0.10	1123	6870	13.6
2WC48A11T2023AP motor, plastic housing,	0.15	1122	6510	12.5
aluminum shutter #6611-5005, guard	0.20	1115	6060	11.2
and discharge cone	0.25	1110	5620	10.0
	0.30	1103	5010	8.7
