

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96058 Series/Test: / Test Date: April 2, 1996 File Name: **Fan**Make: Chore-TimeModel #: 37555-3621Serial #: -Manufacturer: Chore-TimeBlade Size: 36"Orifice Dia.: 36.5"**Blade Revcor 96-0201**Number: 3Shape: propellerMaterial: galvanized steelPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 9 per rowNumber Rows: 2Door Length: 19.6"Location: intake**Other Attachments****Motor**Make: Emerson #7Model #: K55HXELE-7396Serial #: -H.P.: 1/2Amps: 6.0/3.0Volts: 115/230RPM: 850S.F.: 1.0Drive Pulley Dia.: direct 48Axle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 42.5"x43.5"Discharge Area: 40"x40"Depth: 34.5"**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

CHORE-TIME 37555-3621

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96058	0.00	831	10590	18.4
Fan description:	0.05	828	9740	16.3
36" direct drive, ½ hp Emerson	0.10	822	8820	14.3
K55HXELE-7396 motor, steel housing,	0.15	818	7610	11.9
aluminum shutter and guard	0.20	811	5930	9.0
	0.25	801	4220	6.0
	0.30	797	3870	5.5
