

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96336 Series/Test: / Test Date: November 20, 1996 File Name: **Fan**Make: Chore-TimeModel #: 39007-3621Serial #: -Manufacturer: Chore-TimeBlade Size: 36"Orifice Dia.: 36.5"**Blade**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: EmersonModel #: K55HXELE-7396Serial #: -H.P.: 1/2Amps: 6.0/3.0Volts: 115/230RPM: 850S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 42.5"x42.5"Discharge Area: 40.3"x40.3"Depth: 33.8" top
30.5" bottom**Guards**Description: wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

CHORE-TIME 39007-3621

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96336	0.00	837	10400	18.2
Fan description:	0.05	831	9640	16.4
36" direct drive, ½ hp Emerson	0.10	828	8870	14.5
K55HXELE-7396 motor, deep slant housing,	0.15	821	8020	12.6
aluminum shutter and guard	0.20	814	6700	10.1
	0.25	808	5140	7.5
	0.30	796	3410	4.7
