

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96200 Series/Test: / Test Date: August 13, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38589-3621Serial #: -Manufacturer: Chore-TimeBlade Size: 36"Orifice Dia.: 36.5"**Blade**Number: 3Shape: propellerMaterial: aluminumPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 9 per rowNumber Rows: 2Door Length: 19.6"Location: intake**Other Attachments**Discharge cone 27.5" deep, 36.5" i.d., 46.5" o.d.**Motor**Make: GEModel #: 5KHC38SN21GTSerial #: -H.P.: 1/2Amps: 5.00/2.50Volts: 115/230RPM: 1725S.F.: 1.00Drive Pulley Dia.: 2.6"o.d.Axle Pulley Dia.: 5"o.d.Center Spacing: -**Housing**Material: FiberglassIntake Area: 40"x39.5"Discharge Area: 36.5" dia.Depth: 23"**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CHORE-TIME 38589-3621

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96200	0.00	898	12670	20.9
Fan description:	0.05	894	11860	18.5
36" belt drive, ½ hp GE 5KHC38SN21GT	0.10	890	11090	16.7
motor, fiberglass housing, aluminum shutter,	0.15	887	10180	14.8
guard and discharge cone	0.20	883	9190	13.0
	0.25	882	7790	10.8
	0.30	884	5570	8.0