

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96158 Series/Test: / Test Date: June 26, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38265-3621Serial #: -Manufacturer: Chore-TimeBlade Size: 36"Orifice Dia.: 36.5"**Blade 36-3-18**Number: 3Shape: propellerMaterial: cast aluminumPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: AluminumNumber Doors: 9 per rowNumber Rows: 2Door Length: 19.6"Location: intake**Other Attachments**discharge cone 25.3" deep, 46.5" o.d.**Motor**Make: GEModel #: 5KCP49UN9806ASSerial #: PLL-CT#28936H.P.: 1/2Amps: 3.70/3.80Volts: 208/230RPM: 850S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: fiberglassIntake Area: 42" x 42"Discharge Area: 36.5" dia.Depth: 18"**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CHORE-TIME 38265-3621

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96158	0.00	854	11660	20.2
Fan description:	0.05	850	10930	18.3
36" direct drive, ½ hp GE 5KCP49UN9806AS	0.10	847	10080	16.4
motor, fiberglass housing, aluminum shutter,	0.15	845	9260	15.0
guard and discharge cone	0.20	843	7960	12.6
	0.25	845	6120	9.8
	0.30	846	3700	6.0
