

Bioenvironmental and Structural Systems Lab
Fan Description Form

Project Number: 96158P Series/Test: /

Test Date: June 26, 1996 File Name:

Fan

Make: ProTerra

Model #: A38264-4842

Serial #: -

Manufacturer: Chore-Time

Blade Size: 36"

Orifice Dia.: 36.5"

Motor

Make: GE

Model #: 5KCP49UN9806AS

Serial #: PLL-CT#28936

H.P.: 1/2

Amps: 3.70/3.80

Volts: 208/230

Blade 36-3-18

Number: 3

Shape: propeller

Material: cast aluminum

Pitch: -

Clearance: 0.3"

Hub Diameter: -

RPM: 850

S.F.: 1.00

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: fiberglass

Intake Area: 42" x 42"

Discharge Area: 36.5" dia.

Depth: 18"

Shutter

Material: Aluminum

Number Doors: 9 per row

Number Rows: 2

Door Length: 19.6"

Location: intake

Guards

Description: wire

Spacing: 2" concentric

Location: exhaust

Other Attachments

discharge cone 25.3" deep, 46.5" o.d

TEST RESULTS

Pro-Terra A38264-4842

Test: 96158P

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
	0.00	854	11,660	20.2
Fan description:	0.05	850	10,930	18.3
36" direct drive, ½ hp GE 5XCP49UN9806AS	0.10	847	10,080	16.4
motor, fiberglass housing, aluminum shutter,	0.15	845	9,260	15.0
guard and discharge cone	0.20	843	7,960	12.6
	0.25	845	6,120	9.8
	0.30	846	3,700	6.0