

Bioenvironmental and Structural Systems Lab
Fan Description Form

Project Number: 96199P Series/Test: /

Test Date: August 13, 1996 File Name:

Fan

Make: ProTerra
Model #: A38589-3622
Serial #: -
Manufacturer: Chore-Time
Blade Size: 36"
Orifice Dia.: 36.5"

Motor

Make: GE
Model #: 5KHC38SN21GT
Serial #: -
H.P.: 1/2
Amps: 5.00/2.50
Volts: 115/230

Blade

Number: 3
Shape: propeller
Material: aluminum
Pitch: -
Clearance: 0.3"
Hub Diameter: -

RPM: 1725
S.F.: 1.00
Drive Pulley Dia.: 2.6"o.d.
Axle Pulley Dia.: 5"o.d.
Center Spacing: -

Housing

Material: Fiberglass

Shutter

Material: plastic
Number Doors: 12 per row
Number Rows: 2
Door Length: 20.1"
Location: intake

Intake Area: 40"x39.5"
Discharge Area: 36.5" dia.
Depth: 23"

Guards

Description: wire
Spacing: 2" concentric
Location: exhaust

Other Attachments

Discharge cone 27.5" deep, 36.5" i.d., 46.5" o.d.

TEST RESULTS

ProTerra A38589-3622

Test: 96199P

Fan description:

36" belt drive, 1/2 hp GE 5KHC38SN21GT
motor, fiberglass housing, plastic shutter,
guard and discharge cone

Static Pressure
in. water

Speed
rpm

Airflow
cfm

Efficiency
cfm/Watt

0.00	899	12640	20.8
0.05	895	11960	19.0
0.10	893	11190	17.0
0.15	888	10400	15.3
0.20	885	9430	13.3
0.25	882	8240	11.5
0.30	885	5450	7.8