PERFORMANCE SPECIFICATION

PRODUCT TITLE: DC BLOWER FAN

MODEL NO: DC8030

1? SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BURSHLESS AXIAL FLOW FAN. THE FAN MOTOR IS WITH TWO PHASES AND FOUR POLES.

2? ELECTRICAL CHARACTERISTICS:

ALL MEASUREMENTS PERFORMED AT 20~30? ROOM TEMPERATURE & 50~70% R.H.UNLESS OTHERWISE SPECIFIED·

ITEM	DESCRIPTION	UNIT	SYMBOL	SPEC.	CONDITION
1	RATED VOLTAGE	VOLTS	V	12	
2	OPERATION VOLTAGE	VOLTS	V	10.2~ 13.8	
3	INPUT CURRENT	AMP	A	0.20 MAX	AT RATED VOLTAGE
4	INPUT POWER	WATTS	W	2.4 MAX	AT RATED VOLTAGE
5	ROTATION SPEED	RPM	RPM	2600±10%	AT RATED VOLTAGE FREE AIR
6	ACOUSTICAL NOISE (AVG)	dB(A)	dB(A)	35±10%	
7	MAX. AIR-FLOW	CFM	Q	8.94±10%	TWO-CHAMBER METHODS
8	MAX. AIR-PRESSURE	mmH_2O	P	6.33±10%	TWO-CHAMBER METHODS
9	STARTING VOLTAGE	VOLTS	V	7	AT RATED VOLTAGE
10	INSULATION RESISTANCE	MEG. OHM	MO	10MO MIN. AT 500V DC	BETWEEN FRAME AND (+)LEADWIRE.
11	DIELECTRIC STRENGTH	MILLI-AMP	mA	5mA MAX. AT 500V AC 60Hz. FOR 1 MINUTE	BETWEEN FRAME AND (+)LEADWIRE.

ITEM	DESCRIPTION	SPEC.	
12	ROTATION	CW VIEW FROM ROTER	
13	AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS	
14	INSULATION RANK	UL: CLASS A	
15	LIFE EXPECTANCY	20000 HOURS CONTINUOUS	?

? LIFE IS DEFINED AS THE TIME MOTOR SPEED DECREASED MORE THAN 30% COMPARED WITH INITIAL VALUE·

3? MECHANICAL

3-1. DIMENSIONS---------- SEE SECTION 8
3-2. FRAME---------- PLASTIC PBT UL: 94V-0 RATING + FIBRE GLASS.
3-3. FAN BLADE---------- PLASTIC PBT UL: 94V-0 RATING + FIBRE GLASS.
3-4. BEARING SYSTEM -------- SLEEVE BEARING
3-5. WEIGHT ---------- 95 GRAMS
3-6. LEAD WIRE---------- 1007 AWG # 24
+ POSITIVE ..... RED
- NEGATIVE ..... BLACK

4? ENVIRONMENTAL:

4-1. OPERATING TEMPERATURE ---------- -10 TO +70?
4-2. STORAGE TEMPERATURE ---------- -40 TO +75?
4-3. DROP TEST
IN MINIMUM PACKAGING CONDITION FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30CM DISTANCE HEIGHT ONTO 10mm THICKNESS OF WOODEN BOARD·
4-4. VIBRATION TEST
FREQUENCY: 10- 55Hz AMPLITUDE: 4MM
X , Y , Z DIRECTION EACH FOR 1 HR

4-5. SHOCK TEST

APPLY PEAK ACCELERATION 50g AND KEEP DURATION OF THE PULSE FOR 11ms (HALF SINE WAVE)

5? PROTECTION:

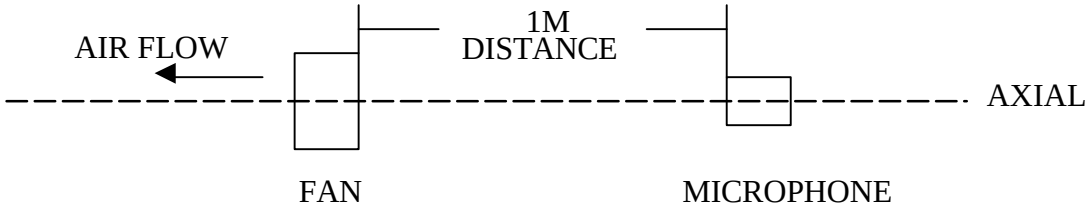
5-1. POLARITY PROTECTION

BUILT-IN ELECTRONIC CIRCUIT PROTECTS THE FAN AGAINST REVERSE CONNECTION OF POSITIVE AND REVERSE LEADS

5-2. IMPEDANCE OF MOTOR COIL WINDING PROTECTS MOTOR FROM FLAMING IN THE CONDITION OF 72 Hrs LOCKED ROTOR AT RATED VOLTAGE

6? ACOUSTICAL NOISE:

6-1. MEASUREMENT SET-UP



6-2. MEASUREMENT PERFORMED IN ANECHOIC TEST CHAMBER UNDER FREE AIR CONDITION.

6-3. CHAMBER BACKGROUND NOISE 17dB MAX.

6-4. READING TAKEN FROM SPECTRUN ANALYZER.

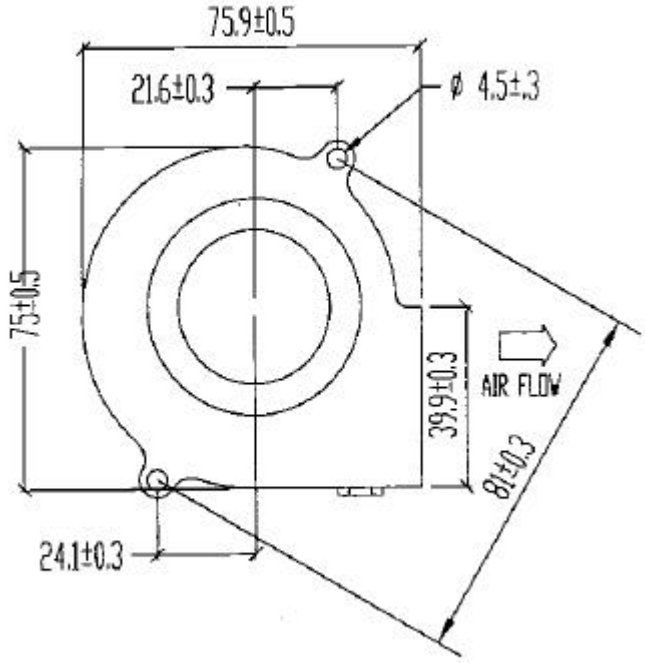
6-5. NOISE DISTRIBUTION CURVE SEE ATTACHED PAGE.

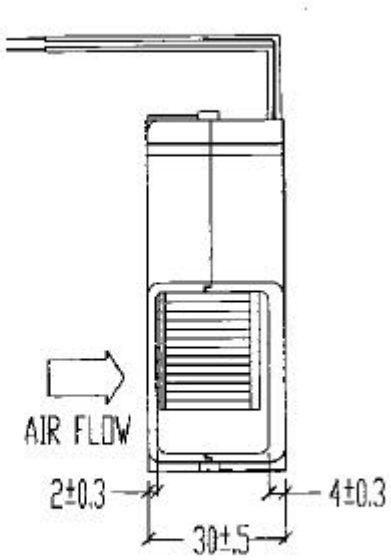
7? STATICS PRESSURE VS AIR FLOW CURVE:

MEASURED PER TWO CHAMBER METHOD

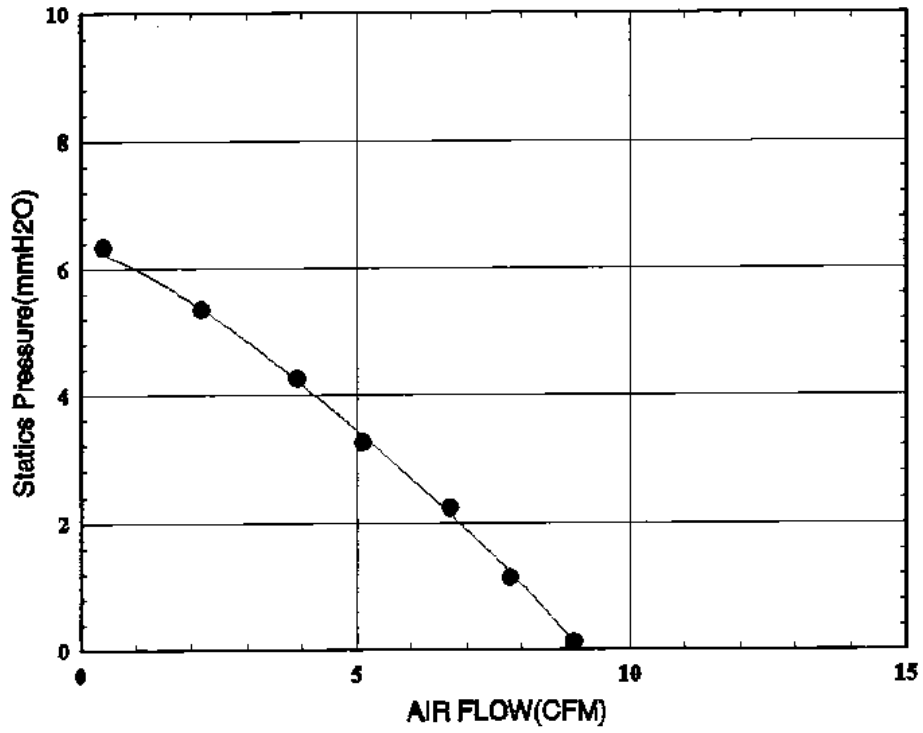
DATA-CURVE SEE ATTACHED PAGE

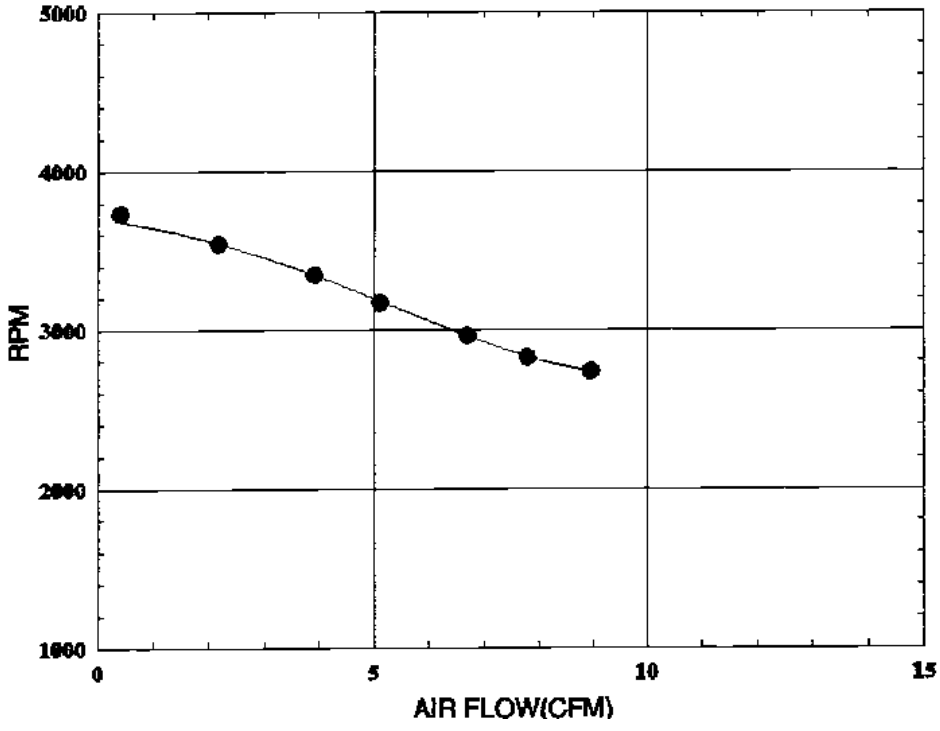
7? DIMENSION AND DRAWING UNIT: mm





8? PERFORMANCE CURVE

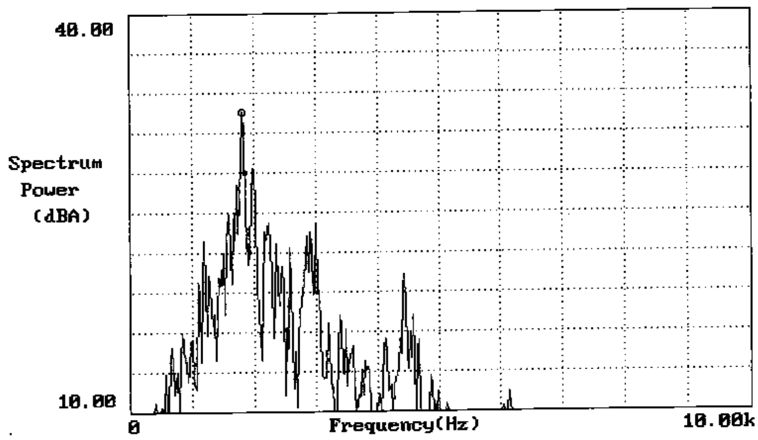




9? TEST NOISE REPORT

MODEL NO:

TEST FREQ
10KHz
TEST SENS
0dB
TRIG SENS
0/128
TRIG LOCA
100
Y AXIS UP
40.00
Y AXIS LW
10.00
AVERAGE
3



OV.AL	————	34.69946dB	MAXIM	1.800kHz	32.50610dB
LEFT	5.000kHz	9.89136 dB	MINIM	0.0000Hz	-289.418dB

ANALYSIS: ______________________________

(1) Background Noise : 17dBA
(2) FFT Analyzer
(3) Sound Pressure Level Meter
No.RR01.04A