

FAN CAPACITY TEST REPORT

FORM T-A-02

TEST By	:	.....	SHEET :	..... / OF /	.....
BUILDING	:	.....	ZONE #:	.....
SYSTEM	:	.....	DATE :	.....
REMARKS	:	.....		

VOLTAGE : ___ Actual Volts : (1)
 (volts) ___ Nameplate Volts : (2)

CURRENT : ___ No Load Amps : (3)
 (amps) ___ Full Load Amps : (4)
 ___ Running Amps : (5)
 ___ Corrected Actual
 Full Load Amps : $\frac{\text{Line (2)} \times \text{Line (4)}}{\text{Line (1)}} = \dots$ (6)

POWER : Nameplate HP : (7)
 (HP)
 BRAKE HP = $\frac{\text{Line (5)} - 1/2 \text{ Line (3)} \times \text{Line (7)}}{\text{Line (6)} - 1/2 \text{ Line (3)}}$.. (8)

HEAD : Total Suction Head : (9)
 (Pa) Total Discharge Head : (10)
 Static Discharge Head: (11)

* FAN STATIC HEAD = Line (11) - Line (9) = (12)

** FLOW RATE (dm³ / s) : (13)

SPEED (rpm) : (14)

* At operation point

** Details of flow rate measurement of exit duct is attached.

DUCT TRAVERSE READINGS

FORM T-A-03

TEST By : _____
 BUILDING : _____
 SYSTEM : _____
 REMARKS : _____

SHEET : _____ / OF / _____
 ZONE # : _____
 DATE : _____

NO.	VELOCITY PRESSURE	VELOCITY	DUCT POSITION	NO.	VELOCITY PRESSURE	VELOCITY	DUCT POSITION	NO.	VELOCITY PRESSURE	VELOCITY	DUCT POSITION
1A				1B				1C			
2A				2B				2C			
3A				3B				3C			
4A				4B				4C			
5A				5B				5C			
6A				6B				6C			
7A				7B				7C			
8A				8B				8C			
9A				9B				9C			
10A				10B				10C			
11A				11B				11C			
12A				12B				12C			
13A				13B				13C			
14A				14B				14C			
15A				15B				15C			
16A				16B				16C			
TOTAL _____ , _____ = AVERAGE VELOCITY _____				TOTAL _____ , _____ = AVERAGE VELOCITY _____				TOTAL _____ , _____ = AVERAGE VELOCITY _____			

1 TEST NUMBER _____

2 ALTITUDE _____ = CORRECTION FACTOR _____

3 AIR TEMPERATURE _____ = CORRECTION FACTOR _____

4 COMBINED FACTOR (LINE 2 x LNE 3) _____ = _____

5 GRAND TOTAL VELOCITIES _____ = _____ V_m , AVERAGE
 NUMBER OF READING POINTS _____

6 V_m _____ (LINE 5) x FACTOR _____ (LINE 4) = _____ V , M/S

7 DUCT AREA _____ M^2

8 V _____ (LINE 6) x A _____ (LINE 7) = _____ DM^3/S

9 ACTUAL DM^3/S _____ (LINE 8) DESIGN DM^3/S _____

10 STATIC PRESSURE (Sp) AT CENTER OF TEST _____

V_m = MEASURED VELOCITY OR INDICATED VELOCITY
 V = ACTUAL VELOCITY AFTER DENSITY VARIATION CORRECTION
 A = DUCT AREA , M^2
 RECTANGULAR DUCT AREA , M^2 = WIDTH x HEIGHT
 ROUND DUCT AREA , M^2 = 3.142 x RADIUS SQUARED (pR^2)
 FINAL CORRECTION FACTOR FOR NON - STANDARD AIR = ALTITUDE
 FACTOR x TEMPERATURE FACTOR.

ROUND DUCT FLOW ADJUSTING REPORT

FORM T-A-04

TEST By :
BUILDING :
SYSTEM :
REMARKS :

SHEET : / OF /
ZONE #:
DATE :

EXISTING DATA

DUCT DESIGNATION :
DAMPER TYPE & DIMENSION :
SPECIFIED FLOW (dm^3/s) :

1st MEASUREMENT

MEASURED Δp_2 (pa) :
DAMPER POSITION :
AIR FLOW (dm^3/s) :

2nd MEASUREMENT

MEASURED Δp_2 (pa) :
DAMPER POSITION :
AIR FLOW (dm^3/s) :

FINAL MEASUREMENT

MEASURED Δp_2 (pa) :
DAMPER POSITION :
AIR FLOW (dm^3/s) :