

TEST UNIT:  
 MANUFACTURER: WONDER METALS CORPORATION  
 MODEL NO.: **ACF-845**  
 SIZE: 48 X 48 X 8  
 DEVICE TYPE: LOUVER, NON-DRAINABLE  
 APPURTENANCES: NONE  
 TEST METHOD PER AMCA STANDARD 500-89  
 TEST SETUP: PER FIGURE 5.5  
 AIR FLOW MEASUREMENT: PER FIGURE 6.5  
 BLADE OPENING: FIXED OPEN  
 TORQUE: NONE  
 AMCA FREE AREA SQ. FT.: 2.95  
 REMARKS: CONTRACT TEST

APPLICATION: 9131

TEST NO.: 9131-I1  
 DATE OF TEST: 8/5/91

TEST TYPE: **AIR FLOW TEST  
 INTAKE MODE**

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07243	.150	1490.9	4398.1
2	0.07242	.095	1185.6	3497.4
3	0.07241	.055	898.4	2650.4
4	0.07240	.024	593.2	1750.0
5	0.07240	.006	319.0	941.2

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.155	1490.9	4398.1
.098	1185.6	3497.4
.057	898.4	2650.4
.025	593.2	1750.0
.006	319.0	941.2

INPUT DATA FOR TEST NUMBER: 9131-I1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	.83267	.83267	.150	4.030	75.5	77.6	77.6	64.2	29.55	80.4
2	.83267	.83267	.095	2.553	75.5	77.6	77.6	64.2	29.55	80.4
3	.83267	.83267	.055	1.470	75.5	77.6	77.6	64.2	29.55	80.4
4	.83267	.83267	.024	.644	75.5	77.6	77.6	64.2	29.55	80.4
5	.83267	.83267	.006	.188	75.5	77.6	77.6	64.2	29.55	80.4

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 TORQUE: NONE  
 AMCA FREE AREA SQ. FT.: 2.95  
 REMARKS: CONTRACT TEST

APPLICATION: 9131

TEST NO.: 9131-E1  
 DATE OF TEST: 8/5/91

TEST TYPE: **AIR FLOW TEST  
 EXHAUST MODE**

RESULTS AT TEST CONDITIONS

DET	DENSITY	PS	VELOCITY	CFM
1	0.07209	.183	1491.7	4400.5
2	0.07208	.120	1185.3	3496.6
3	0.07207	.070	893.0	2634.4
4	0.07206	.031	607.8	1793.0
5	0.07206	.008	297.3	876.9

RESULTS AT STANDARD AIR DENSITY

PS	VELOCITY	CFM
.190	1491.7	4400.5
.125	1185.3	3496.6
.073	893.0	2634.4
.032	607.8	1793.0
.008	297.3	876.9

INPUT DATA FOR TEST NUMBER: 9131-E1

DET	D6	DN	PS	PD	DB2	DB5	DBO	WBO	PB	DBB
1	.83267	.83267	.183	4.000	77.7	77.7	76.5	64.6	29.54	80.5
2	.83267	.83267	.120	2.530	77.7	77.7	76.5	64.6	29.54	80.5
3	.83267	.83267	.070	1.440	77.7	77.7	76.5	64.6	29.54	80.5

4	.83267	.83267	.031	.670	77.7	77.7	76.5	64.6	29.54	80.5
5	.83267	.83267	.008	.162	77.7	77.7	76.5	64.6	29.54	80.5