



**AIR MOVEMENT AND CONTROL
ASSOCIATION INTERNATIONAL, INC.**

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Test No. 26967.1-S1

December 12, 2011

TO: PennBarry
605 Shiloh Rd
Plano, TX 75074

ATTN: Nathan Busse
nbusse@airsysco.com

**SUBJECT: SATISFACTORY CHECK TEST
MODEL No. SX100BC
TYPE OF TEST: Sound, AMCA 300**

Attached are the test results of the subject model.

When compared against the data in your catalog, the unit performed within the tolerances allowed by the AMCA Certified Ratings Program.

If you should have any questions concerning these data, please let us know.

Sincerely,
AIR MOVEMENT AND CONTROL
ASSOCIATION INTERNATIONAL, INC.

Lisa R. Ullrich
Certified Ratings Program Manager

Attachment

Air Movement and Control Association International, Inc.
30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

Test Information

Client: PennBarry
Purpose: Check Test
Date of Test: 12-04-2011
Technician: JR

Unit Under Test

Unit Manufacturer: PennBarry
Type: Centrifugal
Trade Name: Centrex Inliner
Model Number: SX100BC
Nominal Size: 12
Number of Blades: 10
Blade Setting: N/A
No. of Stator Vanes: N/A
Impeller Diameter: 12.0 in.
Inlet Area: 0.41 ft²
Outlet Area: 1.08 ft²

Test Configuration

Setup: AMCA Standard 300, Figure 2 (Inlet Sound)
Installation Type: B - Unducted Inlet, Ducted Outlet

Test Environment

$p_{br} = 29.23$ in. Hg
 $t_{d0} = 68.2$ °F
 $t_{w0} = 52.8$ °F

Comments

Unit tested with AMCA supplied outlet duct.
Cfm estimates taken from AMCA test No. 26967.1-AK1 dated November 2011.
Comparison data taken from catalog No. SX05 dated February 2005.
Client to re-catalog Air Performance based on 26967.1-AK1.

Air Movement and Control Association International, Inc.

30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

Reference Sound Source:

AMCA Band Number:		1			2	
Center Frequency (Hz):	<u>50</u>	<u>63</u>	<u>80</u>	<u>100</u>	<u>125</u>	<u>160</u>
L_{PQM} :	63.9	65.9	66.4	68.2	68.5	69.7
L_{PB} :	28.8	27.2	25.0	21.7	34.5	11.7
$L_{PQM} - L_{PB}$:	35.1	38.7	41.4	46.5	34.0	58.0
$L_{PQM} - L_{PQ}$:	0.0	0.0	0.0	0.0	0.0	0.0
L_{PQ} :	63.9	65.9	66.4	68.2	68.5	69.7
L_{wr} :	79.9	80.5	79.2	80.7	79.4	79.9
$L_{wr} - L_{PQ}$:	16.0	14.6	12.8	12.5	10.9	10.2

AMCA Band Number:		3			4	
Center Frequency (Hz):	<u>200</u>	<u>250</u>	<u>315</u>	<u>400</u>	<u>500</u>	<u>630</u>
L_{PQM} :	70.7	69.9	70.4	70.6	70.9	71.8
L_{PB} :	11.3	20.2	21.4	25.5	20.0	18.7
$L_{PQM} - L_{PB}$:	59.4	49.7	49.0	45.1	50.9	53.1
$L_{PQM} - L_{PQ}$:	0.0	0.0	0.0	0.0	0.0	0.0
L_{PQ} :	70.7	69.9	70.4	70.6	70.9	71.8
L_{wr} :	80.4	80.1	79.9	79.9	80.0	80.5
$L_{wr} - L_{PQ}$:	9.7	10.2	9.5	9.3	9.1	8.7

AMCA Band Number:		5			6	
Center Frequency (Hz):	<u>800</u>	<u>1000</u>	<u>1.3K</u>	<u>1.6K</u>	<u>2.0K</u>	<u>2.5K</u>
L_{PQM} :	73.8	74.7	75.8	76.0	76.1	74.3
L_{PB} :	14.7	10.0	4.9	5.4	6.2	6.2
$L_{PQM} - L_{PB}$:	59.1	64.7	71.0	70.6	69.9	68.0
$L_{PQM} - L_{PQ}$:	0.0	0.0	0.0	0.0	0.0	0.0
L_{PQ} :	73.8	74.7	75.8	76.0	76.1	74.3
L_{wr} :	82.4	83.5	84.8	85.3	86.0	84.5
$L_{wr} - L_{PQ}$:	8.6	8.8	9.0	9.3	9.9	10.2

AMCA Band Number:		7			8	
Center Frequency (Hz):	<u>3.2K</u>	<u>4.0K</u>	<u>5.0K</u>	<u>6.3K</u>	<u>8.0K</u>	<u>10.0K</u>
L_{PQM} :	72.1	71.3	69.6	67.1	63.5	58.7
L_{PB} :	6.2	7.6	8.1	8.9	9.6	9.8
$L_{PQM} - L_{PB}$:	65.8	63.7	61.5	58.2	53.9	48.9
$L_{PQM} - L_{PQ}$:	0.0	0.0	0.0	0.0	0.0	0.0
L_{PQ} :	72.1	71.3	69.6	67.1	63.5	58.7
L_{wr} :	83.3	83.2	82.6	81.7	79.8	78.0
$L_{wr} - L_{PQ}$:	11.2	11.9	13.0	14.6	16.3	19.3

Air Movement and Control Association International, Inc.

30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

Determination Number : 1

Time : 8:08 am 12/4/11

AMCA Band Number:		1		2			
Center Frequency (Hz):		<u>50</u>	<u>63</u>	<u>80</u>	<u>100</u>	<u>125</u>	<u>160</u>
L_{PM} :		58.2	55.7	55.9	59.2	58.4	57.2
L_{PB} :		31.9	29.0	27.2	26.3	33.5	26.5
$L_{PM} - L_{PB}$:		26.3	26.6	28.7	32.9	24.9	30.7
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		58.2	55.7	55.9	59.2	58.4	57.2
$L_{wr} - L_{PQ}$:		16.0	14.6	12.8	12.5	10.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		74.2	70.3	68.7	71.7	69.2	67.4

AMCA Band Number:		3		4			
Center Frequency (Hz):		<u>200</u>	<u>250</u>	<u>315</u>	<u>400</u>	<u>500</u>	<u>630</u>
L_{PM} :		61.7	59.6	58.8	56.9	56.4	57.1
L_{PB} :		27.3	32.3	41.1	33.1	31.1	31.9
$L_{PM} - L_{PB}$:		34.4	27.3	17.7	23.8	25.2	25.3
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		61.7	59.6	58.8	56.9	56.4	57.1
$L_{wr} - L_{PQ}$:		9.7	10.2	9.5	9.3	9.1	8.7
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		71.4	69.7	68.3	66.2	65.4	65.9

AMCA Band Number:		5		6			
Center Frequency (Hz):		<u>800</u>	<u>1000</u>	<u>1.3K</u>	<u>1.6K</u>	<u>2.0K</u>	<u>2.5K</u>
L_{PM} :		55.1	49.6	50.7	48.8	50.3	48.5
L_{PB} :		25.8	24.9	31.5	22.9	21.0	22.8
$L_{PM} - L_{PB}$:		29.3	24.7	19.2	25.9	29.4	25.7
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		55.1	49.6	50.7	48.8	50.3	48.5
$L_{wr} - L_{PQ}$:		8.6	8.8	9.0	9.3	9.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		63.7	58.4	59.6	58.1	60.2	58.8

AMCA Band Number:		7		8			
Center Frequency (Hz):		<u>3.2K</u>	<u>4.0K</u>	<u>5.0K</u>	<u>6.3K</u>	<u>8.0K</u>	<u>10.0K</u>
L_{PM} :		49.5	46.4	46.8	38.3	31.3	25.7
L_{PB} :		17.5	14.6	12.4	10.1	9.8	9.9
$L_{PM} - L_{PB}$:		31.9	31.8	34.4	28.2	21.6	15.8
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		49.5	46.4	46.8	38.3	31.3	25.7
$L_{wr} - L_{PQ}$:		11.2	11.9	13.0	14.6	16.3	19.3
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		60.7	58.3	59.7	52.9	47.6	44.9

Test Conditions at Fan Inlet

P_s actual :	0.24 in. wg
t_{D1} :	68.0 °F
P_{T1} :	0.00 in. wg
ρ :	0.073 lbm/ft ³
P_b :	29.12 in. Hg

Air Movement and Control Association International, Inc.

30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

Determination Number : 2

Time : 8:10 am 12/4/11

AMCA Band Number:		1		2			
Center Frequency (Hz):		<u>50</u>	<u>63</u>	<u>80</u>	<u>100</u>	<u>125</u>	<u>160</u>
L_{PM} :		57.9	55.9	56.4	59.5	58.9	57.3
L_{PB} :		31.9	29.0	27.2	26.3	33.5	26.5
$L_{PM} - L_{PB}$:		26.1	26.8	29.1	33.3	25.4	30.9
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		57.9	55.9	56.4	59.5	58.9	57.3
$L_{wr} - L_{PQ}$:		16.0	14.6	12.8	12.5	10.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		73.9	70.5	69.2	72.1	69.8	67.6

AMCA Band Number:		3		4			
Center Frequency (Hz):		<u>200</u>	<u>250</u>	<u>315</u>	<u>400</u>	<u>500</u>	<u>630</u>
L_{PM} :		61.4	58.9	58.6	56.8	56.3	56.9
L_{PB} :		27.3	32.3	41.1	33.1	31.1	31.9
$L_{PM} - L_{PB}$:		34.1	26.7	17.5	23.7	25.2	25.0
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		61.4	58.9	58.6	56.8	56.3	56.9
$L_{wr} - L_{PQ}$:		9.7	10.2	9.5	9.3	9.1	8.7
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		71.1	69.1	68.1	66.2	65.4	65.6

AMCA Band Number:		5		6			
Center Frequency (Hz):		<u>800</u>	<u>1000</u>	<u>1.3K</u>	<u>1.6K</u>	<u>2.0K</u>	<u>2.5K</u>
L_{PM} :		54.5	49.1	50.3	47.9	48.0	46.0
L_{PB} :		25.8	24.9	31.5	22.9	21.0	22.8
$L_{PM} - L_{PB}$:		28.7	24.2	18.8	25.1	27.1	23.2
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		54.5	49.1	50.3	47.9	48.0	46.0
$L_{wr} - L_{PQ}$:		8.6	8.8	9.0	9.3	9.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		63.1	57.9	59.3	57.3	57.9	56.2

AMCA Band Number:		7		8			
Center Frequency (Hz):		<u>3.2K</u>	<u>4.0K</u>	<u>5.0K</u>	<u>6.3K</u>	<u>8.0K</u>	<u>10.0K</u>
L_{PM} :		44.1	43.7	42.8	36.0	30.8	25.2
L_{PB} :		17.5	14.6	12.4	10.1	9.8	9.9
$L_{PM} - L_{PB}$:		26.6	29.1	30.5	25.8	21.1	15.3
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		44.1	43.7	42.8	36.0	30.8	25.2
$L_{wr} - L_{PQ}$:		11.2	11.9	13.0	14.6	16.3	19.3
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		55.3	55.6	55.8	50.6	47.1	44.5

Test Conditions at Fan Inlet

P_s actual :	0.49 in. wg
t_{D1} :	68.0 °F
P_{T1} :	0.00 in. wg
ρ :	0.073 lbm/ft ³
P_b :	29.12 in. Hg

These data are not certified by AMCA International.

Air Movement and Control Association International, Inc.

30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

Determination Number : 3

Time : 8:12 am 12/4/11

AMCA Band Number:		1		2			
Center Frequency (Hz):		<u>50</u>	<u>63</u>	<u>80</u>	<u>100</u>	<u>125</u>	<u>160</u>
L_{PM} :		57.6	55.9	56.3	59.3	58.7	56.9
L_{PB} :		31.9	29.0	27.2	26.3	33.5	26.5
$L_{PM} - L_{PB}$:		25.8	26.9	29.1	33.0	25.2	30.4
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		57.6	55.9	56.3	59.3	58.7	56.9
$L_{wr} - L_{PQ}$:		16.0	14.6	12.8	12.5	10.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		73.7	70.5	69.1	71.8	69.6	67.1

AMCA Band Number:		3		4			
Center Frequency (Hz):		<u>200</u>	<u>250</u>	<u>315</u>	<u>400</u>	<u>500</u>	<u>630</u>
L_{PM} :		61.2	58.9	58.9	56.7	56.2	56.5
L_{PB} :		27.3	32.3	41.1	33.1	31.1	31.9
$L_{PM} - L_{PB}$:		33.9	26.6	17.8	23.6	25.1	24.6
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		61.2	58.9	58.9	56.7	56.2	56.5
$L_{wr} - L_{PQ}$:		9.7	10.2	9.5	9.3	9.1	8.7
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		70.9	69.0	68.4	66.1	65.3	65.2

AMCA Band Number:		5		6			
Center Frequency (Hz):		<u>800</u>	<u>1000</u>	<u>1.3K</u>	<u>1.6K</u>	<u>2.0K</u>	<u>2.5K</u>
L_{PM} :		54.0	48.9	49.8	48.0	47.3	45.4
L_{PB} :		25.8	24.9	31.5	22.9	21.0	22.8
$L_{PM} - L_{PB}$:		28.2	24.0	18.3	25.1	26.3	22.6
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		54.0	48.9	49.8	48.0	47.3	45.4
$L_{wr} - L_{PQ}$:		8.6	8.8	9.0	9.3	9.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		62.6	57.7	58.8	57.3	57.2	55.6

AMCA Band Number:		7		8			
Center Frequency (Hz):		<u>3.2K</u>	<u>4.0K</u>	<u>5.0K</u>	<u>6.3K</u>	<u>8.0K</u>	<u>10.0K</u>
L_{PM} :		43.4	42.4	40.6	35.5	30.9	25.4
L_{PB} :		17.5	14.6	12.4	10.1	9.8	9.9
$L_{PM} - L_{PB}$:		25.9	27.8	28.2	25.3	21.2	15.5
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		43.4	42.4	40.6	35.5	30.9	25.4
$L_{wr} - L_{PQ}$:		11.2	11.9	13.0	14.6	16.3	19.3
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		54.6	54.3	53.6	50.1	47.2	44.7

Test Conditions at Fan Inlet

P_s actual :	0.73 in. wg
t_{D1} :	68.0 °F
P_{T1} :	0.00 in. wg
ρ :	0.073 lbm/ft ³
P_b :	29.12 in. Hg

These data are not certified by AMCA International.

Air Movement and Control Association International, Inc.

30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

Determination Number : 4

Time : 8:14 am 12/4/11

AMCA Band Number:		1		2			
Center Frequency (Hz):		<u>50</u>	<u>63</u>	<u>80</u>	<u>100</u>	<u>125</u>	<u>160</u>
L_{PM} :		57.7	55.9	56.2	59.2	58.4	55.9
L_{PB} :		31.9	29.0	27.2	26.3	33.5	26.5
$L_{PM} - L_{PB}$:		25.8	26.8	29.0	32.9	24.9	29.4
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		57.7	55.9	56.2	59.2	58.4	55.9
$L_{wr} - L_{PQ}$:		16.0	14.6	12.8	12.5	10.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		73.7	70.5	69.0	71.7	69.3	66.1

AMCA Band Number:		3		4			
Center Frequency (Hz):		<u>200</u>	<u>250</u>	<u>315</u>	<u>400</u>	<u>500</u>	<u>630</u>
L_{PM} :		60.7	58.8	59.1	56.4	55.5	56.0
L_{PB} :		27.3	32.3	41.1	33.1	31.1	31.9
$L_{PM} - L_{PB}$:		33.4	26.5	18.0	23.3	24.4	24.1
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		60.7	58.8	59.1	56.4	55.5	56.0
$L_{wr} - L_{PQ}$:		9.7	10.2	9.5	9.3	9.1	8.7
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		70.4	69.0	68.6	65.7	64.6	64.7

AMCA Band Number:		5		6			
Center Frequency (Hz):		<u>800</u>	<u>1000</u>	<u>1.3K</u>	<u>1.6K</u>	<u>2.0K</u>	<u>2.5K</u>
L_{PM} :		53.6	48.5	49.2	47.7	47.1	45.0
L_{PB} :		25.8	24.9	31.5	22.9	21.0	22.8
$L_{PM} - L_{PB}$:		27.8	23.6	17.7	24.8	26.1	22.2
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		53.6	48.5	49.2	47.7	47.1	45.0
$L_{wr} - L_{PQ}$:		8.6	8.8	9.0	9.3	9.9	10.2
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		62.2	57.3	58.2	57.0	56.9	55.2

AMCA Band Number:		7		8			
Center Frequency (Hz):		<u>3.2K</u>	<u>4.0K</u>	<u>5.0K</u>	<u>6.3K</u>	<u>8.0K</u>	<u>10.0K</u>
L_{PM} :		43.1	41.7	39.5	35.6	31.4	26.0
L_{PB} :		17.5	14.6	12.4	10.1	9.8	9.9
$L_{PM} - L_{PB}$:		25.6	27.1	27.2	25.5	21.6	16.1
$L_{PM} - L_{PC}$:		0.0	0.0	0.0	0.0	0.0	0.0
L_{PC} :		43.1	41.7	39.5	35.6	31.4	26.0
$L_{wr} - L_{PQ}$:		11.2	11.9	13.0	14.6	16.3	19.3
E_i :		N/A	N/A	N/A	N/A	N/A	N/A
L_{Wmi} :		54.3	53.6	52.5	50.2	47.7	45.3

Test Conditions at Fan Inlet

P_s actual :	0.97 in. wg
t_{D1} :	68.0 °F
P_{T1} :	0.00 in. wg
ρ :	0.073 lbm/ft ³
P_b :	29.12 in. Hg

These data are not certified by AMCA International.

Air Movement and Control Association International, Inc.
30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

AMCA Band Number:	1	2	3	4	5	6	7	8	
Center Frequency (Hz) :	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	<u>Point of Operation</u>
Determination No. : 1									P_s : 0.25 in. wg
L_{Wmi} (dB):	76	75	75	71	66	64	64	55	Q : 955 cfm
									N : 1700 rpm
Determination No. : 2									P_s : 0.50 in. wg
L_{Wmi} (dB):	76	75	74	71	65	62	60	53	Q : 840 cfm
									N : 1700 rpm
Determination No. : 3									P_s : 0.75 in. wg
L_{Wmi} (dB):	76	75	74	70	65	62	59	53	Q : 730 cfm
									N : 1700 rpm
Determination No. : 4									P_s : 1.00 in. wg
L_{Wmi} (dB):	76	74	74	70	65	61	58	53	Q : 570 cfm
									N : 1700 rpm

These data are not certified by AMCA International.

Air Movement and Control Association International, Inc.
30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 301-90

AMCA Band Number:	1	2	3	4	5	6	7	8	Sones	Point of Operation
Center Frequency (Hz) :	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>		
Determination No. : 1										
s :	2.3	3.0	4.2	3.8	3.5	3.7	4.6	3.0	11.7	P_s : 0.25 in. wg Q : 955 cfm N : 1700 rpm
Determination No. : 2										
s :	2.3	3.1	4.1	3.8	3.4	3.3	3.6	2.7	10.8	P_s : 0.50 in. wg Q : 840 cfm N : 1700 rpm
Determination No. : 3										
s :	2.2	3.0	4.1	3.8	3.3	3.2	3.3	2.7	10.6	P_s : 0.75 in. wg Q : 730 cfm N : 1700 rpm
Determination No. : 4										
s :	2.2	3.0	4.0	3.7	3.2	3.2	3.2	2.8	10.4	P_s : 1.00 in. wg Q : 570 cfm N : 1700 rpm

These data are not certified by AMCA International.

Air Movement and Control Association International, Inc.
30 West University Drive , Arlington Heights, Illinois, U.S.A., 60004-1893

Test Number: 26967.1-S1

AMCA Standard 300-05

AMCA Band Number:	1	2	3	4	5	6	7	8	Sones	Point of Operation
Center Frequency (Hz) :	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>		
Determination No. : 1										
L_{Wmi} (dB):	76	75	75	71	66	64	64	55	11.7	P_s : 0.25 in. wg
L_{Wmi} lower limit (dB) :	70	72	72	68	63	61	61	52	9.5	Q: 955 cfm N : 1700 rpm
Determination No. : 2										
L_{Wmi} (dB):	76	75	74	71	65	62	60	53	10.8	P_s : 0.50 in. wg
L_{Wmi} lower limit (dB) :	70	72	71	68	62	59	57	50	8.8	Q: 840 cfm N : 1700 rpm
Determination No. : 3										
L_{Wmi} (dB):	76	75	74	70	65	62	59	53	10.6	P_s : 0.75 in. wg
L_{Wmi} lower limit (dB) :	70	72	71	67	62	59	56	50	8.7	Q: 730 cfm N : 1700 rpm
Determination No. : 4										
L_{Wmi} (dB):	76	74	74	70	65	61	58	53	10.4	P_s : 1.00 in. wg
L_{Wmi} lower limit (dB) :	70	71	71	67	62	58	55	50	8.5	Q: 570 cfm N : 1700 rpm

These data are not certified by AMCA International.

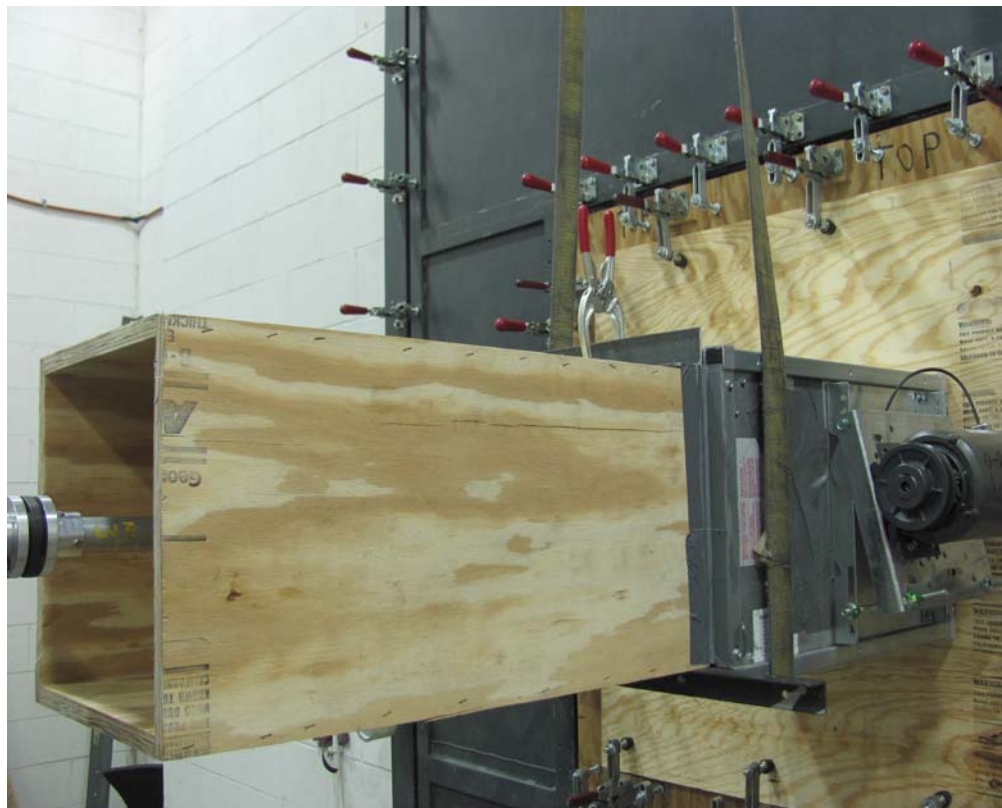


AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

30 West University Drive • Arlington Heights, Illinois 60004-1893
Phone:(847) 394-0150 • Fax:(847) 253-0088 • E-mail:LAB@amca.org

AMCA LABORATORY TEST NO. 26967.1-S1.1

Tested December 4, 2011



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AMCA Standard 300
Sound Test
Figure 2 Setup
Installation Type B



AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

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AMCA LABORATORY TEST NO. 26967.1-S1

Tested December 4, 2011



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AMCA Standard 300
Sound Test
Figure 2 Setup
Installation Type B



AMCA INSTRUMENT LIST

Test Number: 26967.1-S1

Date: 12/4/2011

Technician: JR

The following instruments, calibrated as applicable per the test standard, were used for this test.

Facility: Room 2/3

Standard: AMCA 300

Figure: Figure 2

Sound

Instrument

<u>Asset</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Plane</u>	<u>Serial Number</u>	<u>Last Calibration</u>	<u>Next Calibration</u>
143	Brüel & Kjær	2669 Preamplifier	NA	2394661	4/4/2011	4/4/2012
195	Brüel & Kjær	4220 Pistonphone	NA	439906	4/4/2011	4/4/2012
215	Brüel & Kjær	2133 Analyzer	NA	1389346	4/4/2011	4/4/2012
292	Brüel & Kjær	4943 Microphone	NA	2377166	4/4/2011	4/4/2012

Pressure

Barometer

<u>Asset</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Plane</u>	<u>Serial Number</u>	<u>Scale Range</u>	<u>Last Calibration</u>	<u>Next Calibration</u>
79	Princo	Fortin	NA	0244	25.5-32.7 inHg	1/4/2011	1/4/2012

Manometer

<u>Asset</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Plane</u>	<u>Serial Number</u>	<u>Scale Range</u>	<u>Last Calibration</u>	<u>Next Calibration</u>
104	Meriam	WM 40HA10		F47421	6 in. wg	5/21/2011	5/21/2012

Air Velocity

Instrument

<u>Asset</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Plane</u>	<u>Serial Number</u>	<u>Last Calibration</u>	<u>Next Calibration</u>
436	AMCA	PS2/3	0	07222010	7/1/2011	1/1/2012

Speed

Tachometer

<u>Asset</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Plane</u>	<u>Serial Number</u>	<u>Scale Range</u>	<u>Last Calibration</u>	<u>Next Calibration</u>
296	Extech Laser	461923	NA	L956854	5-99999 rpm	7/1/2011	1/1/2012

Temperature

Instrument

<u>Asset</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Plane</u>	<u>Serial Number</u>	<u>Last Calibration</u>	<u>Next Calibration</u>	
226	Weksler	ASTM 63F		2L4581	18-89 deg F	7/3/2008	7/3/2013

Meter

<u>Asset</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Plane</u>	<u>Serial Number</u>	<u>Scale Range</u>	<u>Last Calibration</u>	<u>Next Calibration</u>
398	Newport	INFCR-001B	NA	8145033	0-100 deg F	7/1/2011	1/1/2012
399	Newport	INFCR-001B	NA	8145034	0-100 deg F	7/1/2011	1/1/2012
420	Newport (Tdo)	INFCR-001B		8515071		7/1/2011	1/1/2012
421	Newport (Two)	INFCR-001B		9145002		7/1/2011	1/1/2012