

# CENTRIFUGAL INLINE FANS



## TEST REPORT



**Asia AMCA Sdn, Bhd,**  
No. 7, Jalan SiLC 1/6, Kawasan Perindustrian SiLC Nusajaya, 79200 Nusajaya, Johor, Malaysia.

**Test Number**  
**32658-A1**

Test Unit: Inline Centrifugal  
Manufacturer: Aireng Company  
Trade Name: Centrifugal In-line Fan  
Model Number: ATIL-15  
Impeller Diameter: 391.000 mm  
Inlet Area: 0.147 m<sup>2</sup>  
Outlet Area: 0.276 m<sup>2</sup>

Test Purpose: Contract Test  
Date of Test: 30 Dec 2015  
Client: Aireng Company  
Witness: No  
Personnel: LTH  
P 100.97 kPa  
Unit System: SI

**Test Method per ANSI / AMCA Standard 210-07, Figure 15 Setup, Installation Type A**

Comments:





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

Asia AMCA Sdn Bhd (Malaysia Lab Location)  
No. 7, Jalan SiLC 1/6,  
Kawasan Perindustrian SiLC Nusajaya,  
Mukim Jelutong, 79200 Nusajaya, Johor

Phone: +60 7 5095 889  
Fax: +65 3157 6476  
E-Mail: [tttan@asiaamca.org](mailto:tttan@asiaamca.org)  
Website: [www.amca.org](http://www.amca.org)

**Test No. 32658-A1**

January 07, 2016

TO: Aireng Company  
Plot #287, Kahuta Triangle  
Industrial Area, Model Town  
Islamabad, Capital Area PAKISTAN 45700

ATTN: Ahmed Saeed  
[saeed@airengindustries.com](mailto:saeed@airengindustries.com)

**SUBJECT: CONTRACT TESTING  
MODEL No. ATIL-15**

Attached are the test results of the subject model performed on December 30, 2015.

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

Sincerely,  
AIR MOVEMENT AND CONTROL  
ASSOCIATION INTERNATIONAL, INC.

Tan TinTin  
Technical Director  
Approved Signatory

Attachment

Copy To: [saeed@airengindustries.com](mailto:saeed@airengindustries.com)



# CENTRIFUGAL INLINE FANS

- Sizes 15 - 48
- Backward Incline Wheel  
Available Both in Direct & Belt-  
Drive  
Configurations
- Ducted or Non-ducted  
Application
- Easy positioning and Quick  
Installation
- Removable Side Panels
- Sturdy Construction with or  
without filter



Aerotech Series ATIL ventilators are adaptable to a wide range of exhaust and ventilation application. Each unit features quite, dependable operation.

A typical rugged units with heavy gauge sheets and bracing with mild steel structure provide strength and rigidity adjustment and ease fo maintenance.

All housings are equipped with inlet cones designed for smooth air flow into accompanying intake rim of the fan impeller. the matching pair of intake cone and wheel rim operate as a unit for best air flow.

## ATIL UNITS ARE WELL SUITED TO THE:

- Washroom Exhaust
- Hospitals
- Apartment Buildings
- Offices
- Light Manufacturing



## AMCA CERTIFIED SOFTWARE



**Aireng Company** certifies that Centrifugal IN-Line fan shown herein are licensed to bear the **AMCA Seal**. The ratings shown are based on tests and procedures performed in accordance with **AMCA Publication 211** and **AMCA Publication 311** and comply with the requirements of the **AMCA Certified Ratings Program**.

### ATIL Centrifugal In-Line Fans

#### Models:

ATIL-15, ATIL-16, ATIL-18, ATIL-20, ATIL-22, ATIL-24, ATIL-27, ATIL-30, ATIL-33, ATIL-36, ATIL-40, ATIL-44, ATIL-48

#### Catalogs:

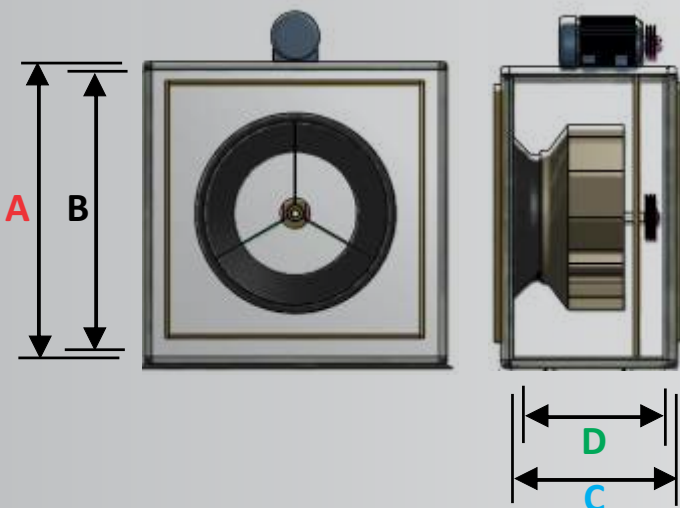
AESOFT-002 (Electronic) June 2016

#### Certification date:

June 30, 2016



The screenshot shows the 'Aireng Fan Selection' software interface. It includes input fields for 'Flow', 'S.P.', 'Inches', 'Altitude', 'F', 'RPM', and 'Use Default O.V.'. A 'Search' button is present. Below the input fields is a table of fan specifications with columns: 'Size', 'Model #', 'Flow', 'S.P.', 'RPM', 'Cold Start HP', 'H.P.', 'O.V.', 'Class', 'Efficiency %', 'Qty', 'Temp', and 'Altitude'. The table lists various fan models and their corresponding specifications.



DIA	A	B	C	D
15	610	520	450	360
16	660	570	485	395
18	740	650	542	452
20	820	680	601	461
22	900	760	661	521
24	990	850	726	586
27	1090	950	800	660
30	1200	1060	896	756
33	1330	1190	980	840
36	1470	1330	1086	946
40	1620	1480	1201	1061
44	1800	1660	1321	1181
48	1960	1820	1440	1300



**Size 15**  
Outlet Area 2.91 Sq.Ft.

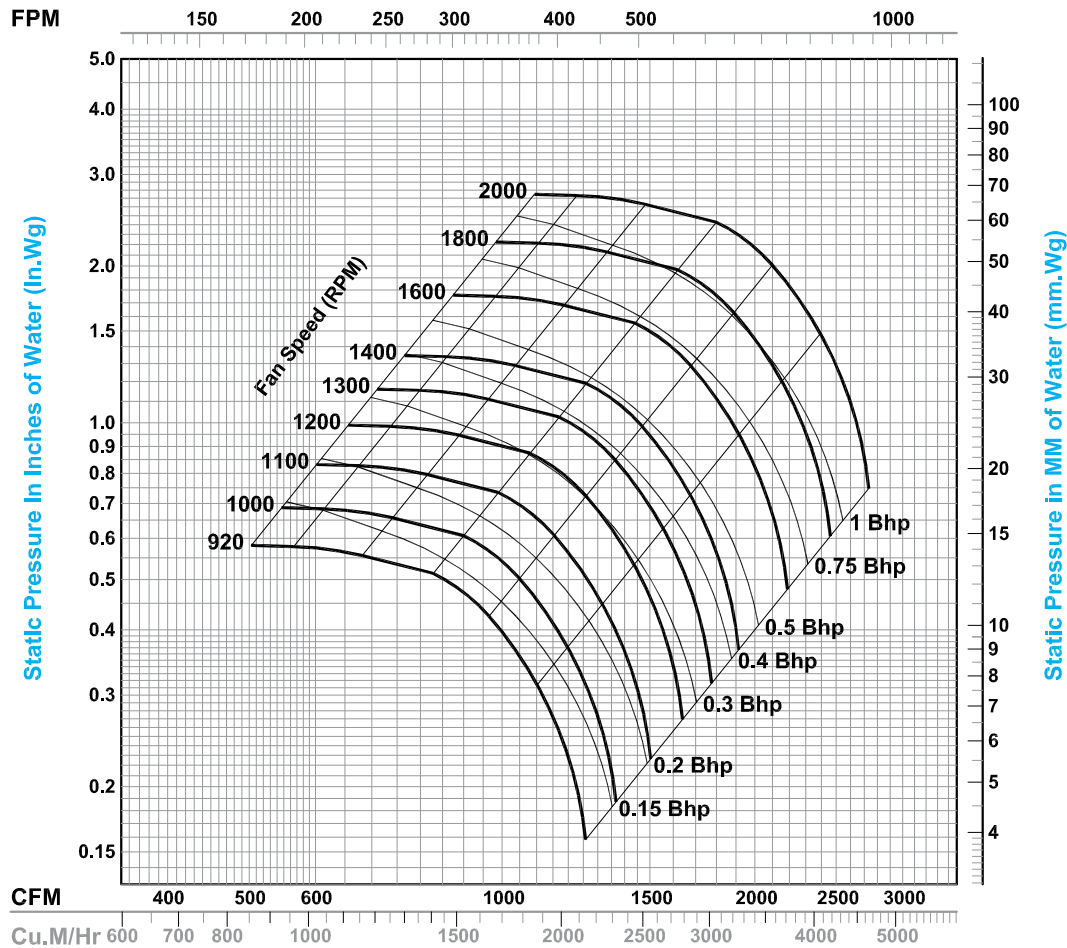
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**Publication 211 and 311**  
and comply with the  
requirements of the  
**AMCA Certified Ratings**  
Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
920	0.31	68	64	61	63	65	60	55	50	68
	0.51	68	63	61	62	64	59	55	51	67
	0.58	72	68	64	62	64	59	54	49	67
	0.37	71	66	63	64	68	62	57	52	70
1000	0.60	71	65	63	63	67	61	57	53	69
	0.68	74	70	66	64	67	61	56	51	70
1100	0.45	73	69	68	66	69	65	60	55	72
	0.73	73	68	67	65	68	64	60	56	71
1200	0.82	76	73	72	66	69	64	59	54	72
	0.53	75	71	70	68	71	67	62	57	74
1300	0.87	75	70	69	67	70	66	61	58	73
	0.98	78	75	74	68	70	66	61	56	74
1400	0.62	77	74	72	69	72	70	65	60	76
	1.02	77	73	71	69	71	69	64	60	75
1600	1.15	80	77	76	70	72	69	64	59	76
1800	0.72	79	76	73	71	73	72	67	62	78
	1.18	79	75	72	70	72	71	66	62	77
	1.33	82	79	77	72	73	71	66	61	78
	0.95	82	80	76	73	75	76	71	66	81
2000	1.55	82	79	75	73	74	75	70	66	80
	1.74	86	83	80	76	75	75	70	65	81
2200	1.20	85	83	79	76	77	80	74	69	84
	1.96	85	83	78	76	76	79	73	69	83
2400	2.20	88	86	83	78	77	79	73	68	84
	1.48	87	86	81	78	79	83	77	72	87
2600	2.42	87	86	80	78	78	82	76	72	86
	2.72	91	89	85	81	79	82	76	71	87
2800										

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



**Size 16**  
Outlet Area 3.374 Sq.Ft.

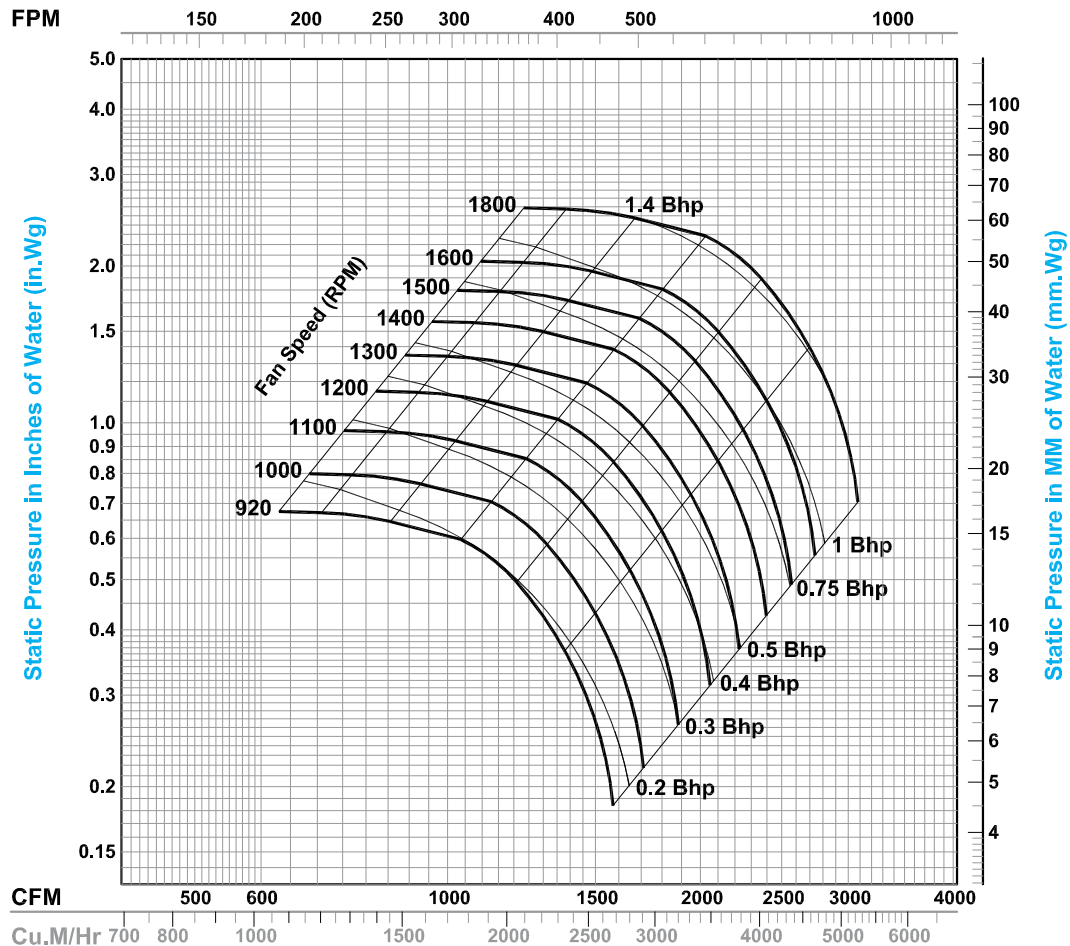
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Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
920	0.36	71	66	64	65	68	62	57	52	70
	0.59	71	65	63	64	67	61	57	53	69
	0.67	74	70	66	65	67	61	56	51	70
	0.43	73	68	65	66	70	64	59	54	73
1000	0.70	73	67	65	65	69	63	59	55	72
	0.79	76	72	68	66	69	63	58	53	72
1100	0.52	75	71	70	68	72	67	62	57	75
	0.85	75	70	69	67	71	66	62	58	74
	0.96	79	75	74	69	71	66	61	56	74
1200	0.62	77	74	72	70	73	70	65	60	77
	1.01	77	73	71	69	72	69	64	60	76
	1.14	81	77	76	71	72	69	64	59	76
1300	0.73	79	76	74	72	74	72	67	62	78
	1.19	79	75	73	71	73	71	66	62	77
	1.33	83	79	78	73	74	71	66	61	78
N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
1400	0.84	81	78	76	73	76	74	69	64	80
	1.38	81	77	75	73	75	73	68	64	79
	1.55	84	81	80	75	75	73	68	63	80
1500	0.97	83	80	77	74	77	77	71	66	82
	1.58	83	80	76	74	76	76	70	66	81
1600	1.78	86	83	81	76	76	76	70	65	82
	1.10	84	82	78	76	78	79	73	68	83
	1.80	84	82	77	75	77	78	72	68	82
1800	2.02	88	85	82	78	77	78	72	67	83
	1.39	87	85	81	78	80	82	76	71	86
	2.27	87	85	80	78	79	81	75	71	85
	2.56	91	88	85	81	79	81	75	70	86

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.





**aerotech**

**Size 18**

Outlet Area 4.203 Sq.Ft.

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Program.



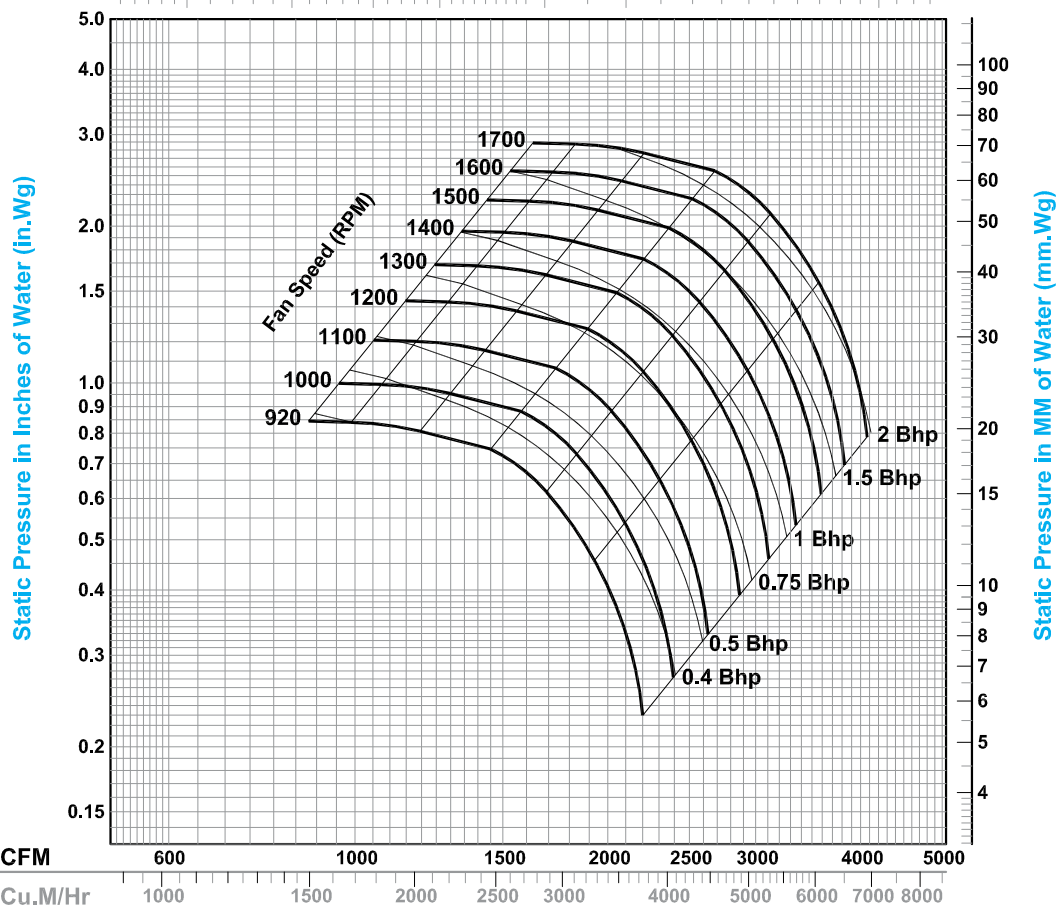
*Centrifugal In Line*

**ATIL**

**Outlet Velocity**

**FPM**

150 200 250 300 400 500 1000



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

### Sound Power Levels

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
920	0.45	74	70	67	68	71	65	60	55	74
	0.74	74	69	67	67	70	64	60	56	73
	0.84	77	74	70	68	70	64	59	54	73
	0.54	77	72	69	70	74	68	63	58	76
1000	0.88	77	71	69	69	73	67	63	59	75
	0.99	80	76	72	70	73	67	62	57	75
	0.65	79	74	74	72	75	71	65	60	78
1100	1.06	79	74	73	71	74	70	65	61	77
	1.19	82	78	78	72	74	70	64	59	78
	0.77	81	77	76	73	77	73	68	63	80
1200	1.26	81	76	75	73	76	72	68	64	79
	1.42	84	81	80	74	76	72	67	62	80
	0.91	83	79	77	75	78	76	70	65	82
1300	1.48	83	79	76	74	77	75	70	66	81
	1.67	86	83	81	76	77	75	69	64	82
1400	1.05	84	81	79	76	79	78	72	67	83
	1.72	84	81	78	76	78	77	72	68	83
	1.93	88	85	83	78	78	77	71	66	83
	1.21	86	83	80	78	80	80	74	69	85
1500	1.97	86	83	79	77	79	79	74	70	84
	2.22	90	87	84	80	80	79	73	68	85
	1.37	88	85	82	79	81	82	76	71	87
1600	2.25	88	85	81	79	80	81	76	72	86
	2.53	91	89	86	81	81	81	75	70	87
	1.55	89	87	83	80	82	84	78	73	88
1700	2.54	89	87	82	80	81	83	77	73	87
	2.85	93	90	87	83	82	83	77	72	88

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10" watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.





**aerotech**

**Size 20**

Outlet Area 5.123 Sq.Ft.

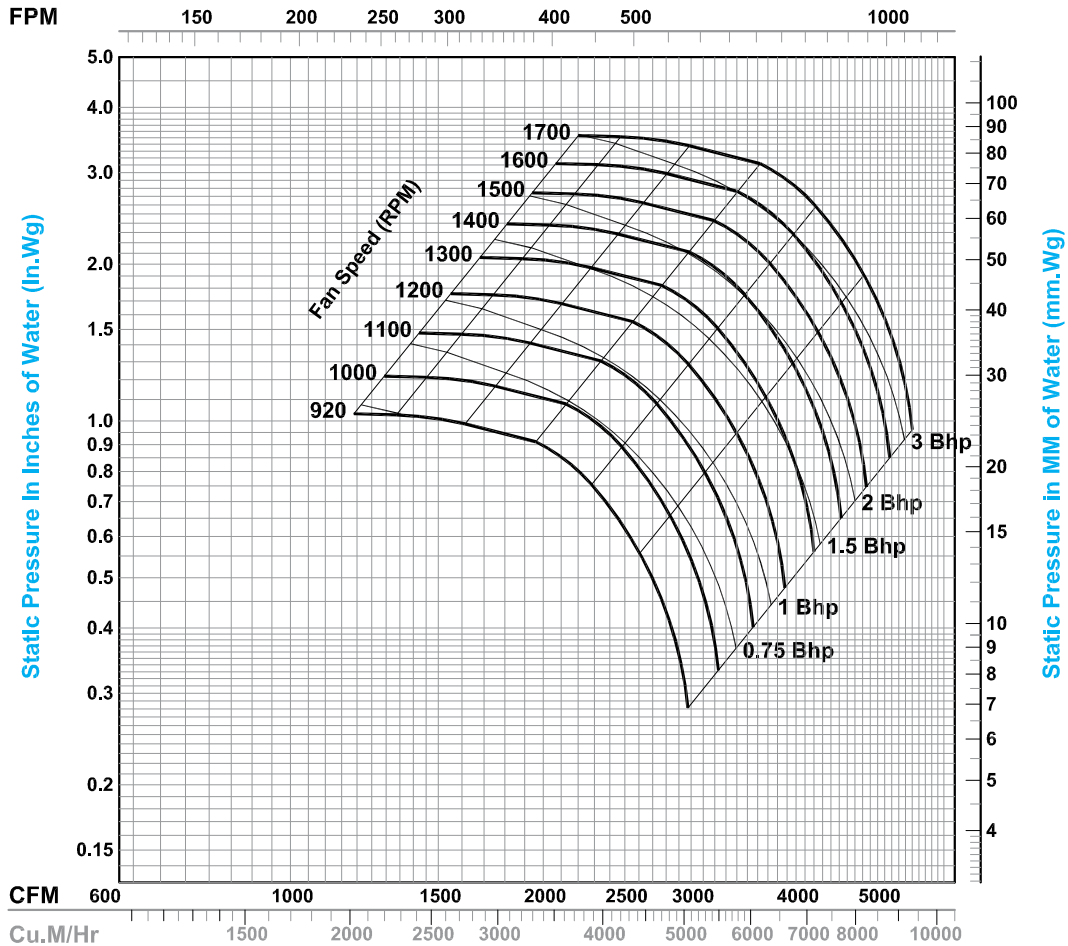
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*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

### Sound Power Levels

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
920	0.56	77	73	70	71	74	68	63	58	77
	0.91	77	72	70	70	73	67	63	59	76
	1.02	80	77	73	71	73	67	62	57	76
	0.66	80	75	72	73	77	71	66	61	79
1000	1.07	80	74	72	72	76	70	66	62	78
	1.21	83	79	75	73	76	70	65	60	78
1100	0.79	82	77	77	75	78	74	68	63	81
	1.30	82	77	76	74	77	73	68	64	80
	1.46	85	81	81	75	77	73	67	62	81
1200	0.94	84	80	79	76	80	76	71	66	83
	1.54	84	79	78	76	79	75	71	67	82
	1.74	87	84	83	77	79	75	70	65	83
1300	1.11	86	82	80	78	81	79	73	68	85
	1.81	86	82	79	77	80	78	73	69	84
	2.04	89	86	84	79	80	78	72	67	85
1400	1.29	87	84	82	79	82	81	75	70	86
	2.10	87	84	81	79	81	80	75	71	86
	2.36	91	88	86	81	82	80	74	69	86
	1.48	89	86	83	81	83	83	77	72	88
1500	2.41	89	86	82	80	82	82	77	73	87
	2.71	93	90	87	83	83	82	76	71	88
1600	1.68	91	88	85	82	84	85	79	74	90
	2.75	91	88	84	82	83	84	79	75	89
	3.09	94	92	89	84	84	84	78	73	90
1700	1.90	92	90	86	83	85	87	81	76	91
	3.10	92	90	85	83	84	86	80	76	90
	3.49	96	93	90	86	85	86	80	75	91

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



**Size 22**  
Outlet Area 6.215 Sq.Ft.

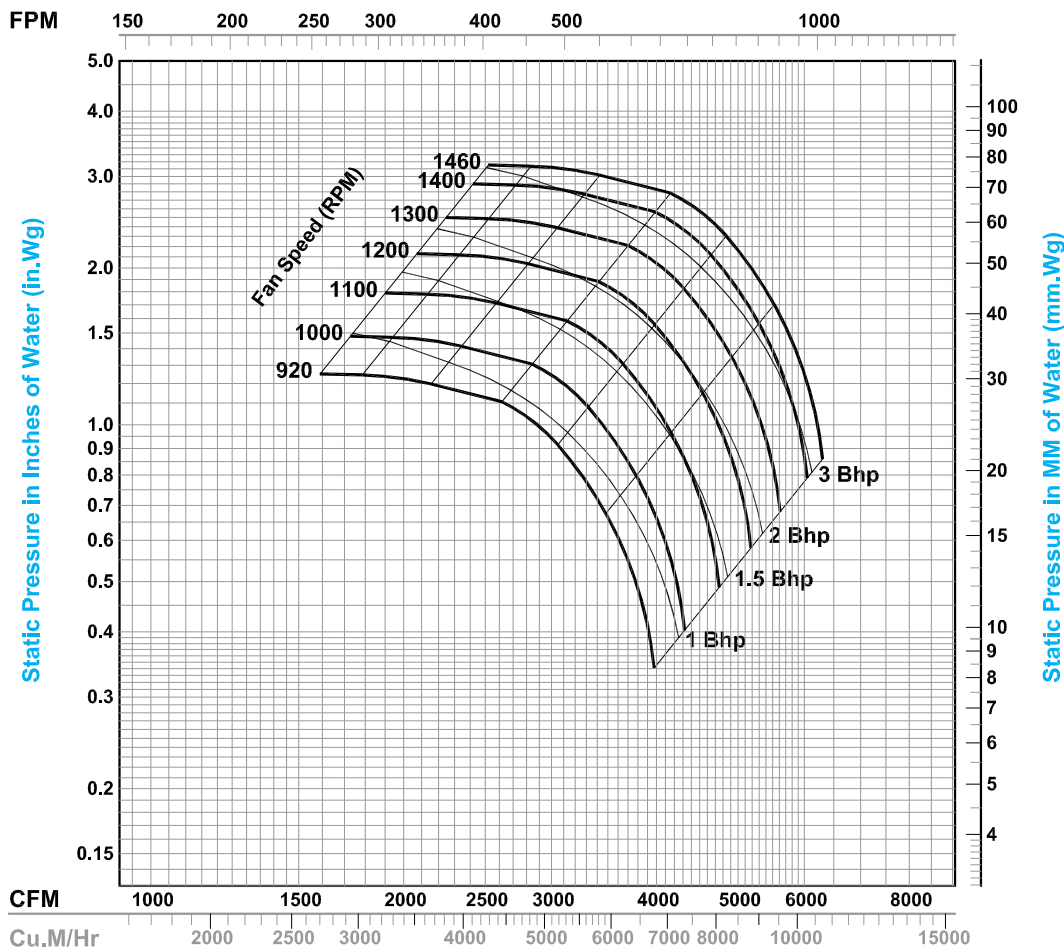
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*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
920	0.67	80	76	73	74	77	71	66	61	80
	1.10	80	75	73	73	76	70	66	62	79
	1.24	83	80	76	74	76	70	65	60	79
	0.80	83	78	75	76	80	74	69	64	82
1000	1.30	83	77	75	75	79	73	69	65	81
	1.46	86	82	78	76	79	73	68	63	81
1100	0.96	85	80	80	78	81	77	71	66	84
	1.57	85	80	79	77	80	76	71	67	83
	1.77	88	84	84	78	80	76	70	65	84
1200	1.15	87	83	82	79	83	79	74	69	86
	1.87	87	82	81	79	82	78	74	70	85
	2.11	90	87	86	80	82	78	73	68	86
1300	1.34	89	85	83	81	84	82	76	71	88
	2.20	89	85	82	80	83	81	76	72	87
	2.47	92	89	87	82	83	81	75	70	88
	1.56	90	87	85	82	85	84	78	73	89
1400	2.55	90	87	84	82	84	83	78	74	89
	2.87	94	91	89	84	84	83	77	72	89
1460	1.70	91	89	86	83	86	85	80	75	90
	2.77	91	88	85	83	85	84	79	75	90
	3.12	95	93	90	85	85	84	79	74	90

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



**Size 24**  
Outlet Area 7.592 Sq.Ft.

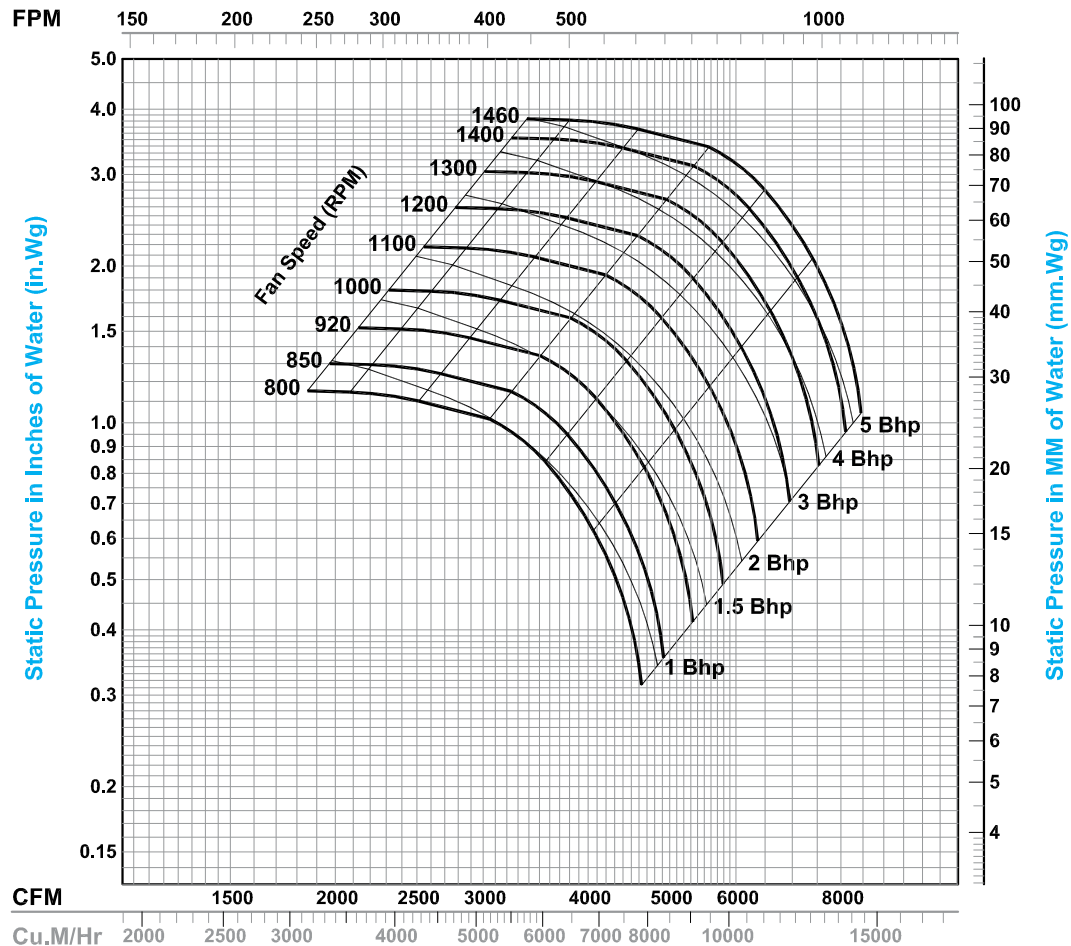
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*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
800	0.62	79	76	73	75	76	70	65	60	79
	1.01	79	75	73	74	75	69	65	61	78
	1.14	82	80	75	75	75	69	64	59	78
850	0.70	81	77	74	76	78	72	67	62	80
	1.14	81	76	74	75	77	71	67	63	80
	1.29	84	81	77	76	77	71	66	61	80
920	0.82	83	79	76	77	80	74	69	64	83
	1.34	83	78	76	76	79	73	69	65	82
	1.51	86	83	79	77	79	73	68	63	82
1000	0.97	86	81	78	79	83	77	72	67	85
	1.58	86	80	78	78	82	76	72	68	84
	1.78	89	85	81	79	82	76	71	66	84
1100	1.17	88	83	83	81	84	79	74	69	87
	1.91	88	82	82	80	83	78	74	70	86
	2.15	91	87	87	81	83	78	73	68	87
1200	1.39	90	86	85	82	85	82	77	72	89
	2.28	90	85	84	82	84	81	77	73	88
	2.56	93	90	89	83	85	81	76	71	89
1300	1.63	92	88	86	84	87	85	79	74	91
	2.67	92	88	85	83	86	84	79	75	90
	3.01	95	92	90	85	86	84	78	73	91
1400	1.90	93	90	88	85	88	87	81	76	92
	3.10	93	90	87	85	87	86	81	77	92
	3.49	97	94	92	87	87	86	80	75	92
1460	2.06	94	92	89	86	89	88	83	78	93
	3.37	94	91	88	86	88	87	82	78	93
	3.79	98	95	93	88	88	87	82	77	93

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
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**aerotech**

**Size 27**

Outlet Area 9.207 Sq.Ft.

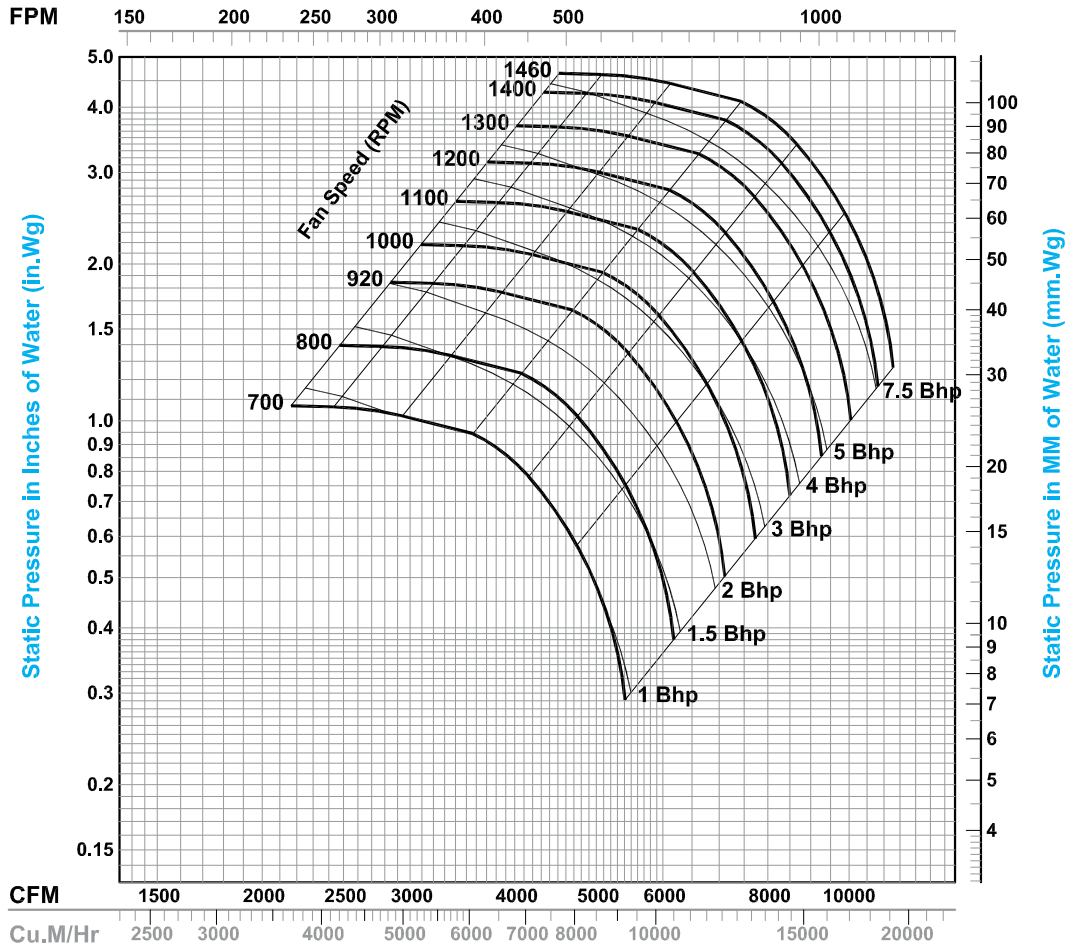
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requirements of the  
**AMCA Certified Ratings**  
Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



**Airflow**

Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
700	0.57	78	76	73	76	75	69	64	59	78
	0.94	78	75	73	75	74	69	65	61	77
	1.06	82	80	75	75	74	68	63	58	78
800	0.75	82	79	76	78	79	73	68	63	82
	1.23	82	78	76	77	78	72	67	64	81
	1.38	85	83	78	78	78	72	67	62	81
920	0.99	86	82	79	80	83	77	72	67	86
	1.62	86	81	79	79	82	76	72	68	85
	1.83	89	86	81	80	82	76	71	66	85
1000	1.17	88	84	81	82	86	80	75	70	88
	1.92	88	83	81	81	85	79	75	71	87
	2.16	91	88	84	82	85	79	74	69	87
1100	1.42	91	86	86	83	87	82	77	72	90
	2.32	91	85	85	83	86	81	77	73	89
	2.61	94	90	90	84	86	81	76	71	90
1200	1.69	93	89	87	85	88	85	80	75	92
	2.76	93	88	86	84	87	84	80	76	91
	3.11	96	93	91	86	88	84	79	74	92
1300	1.98	95	91	89	87	90	87	82	77	94
	3.24	95	90	88	86	89	86	82	78	93
	3.65	98	95	93	88	89	86	81	76	94
1400	2.30	96	93	91	88	91	90	84	79	95
	3.76	96	93	90	88	90	89	84	80	94
	4.23	100	97	95	90	90	89	83	78	95
1460	2.50	97	94	92	89	92	91	85	80	96
	4.09	97	94	91	89	91	90	85	81	95
	4.60	101	98	96	91	91	90	84	79	96

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.





**Size 30**  
Outlet Area 11.30 Sq.Ft.

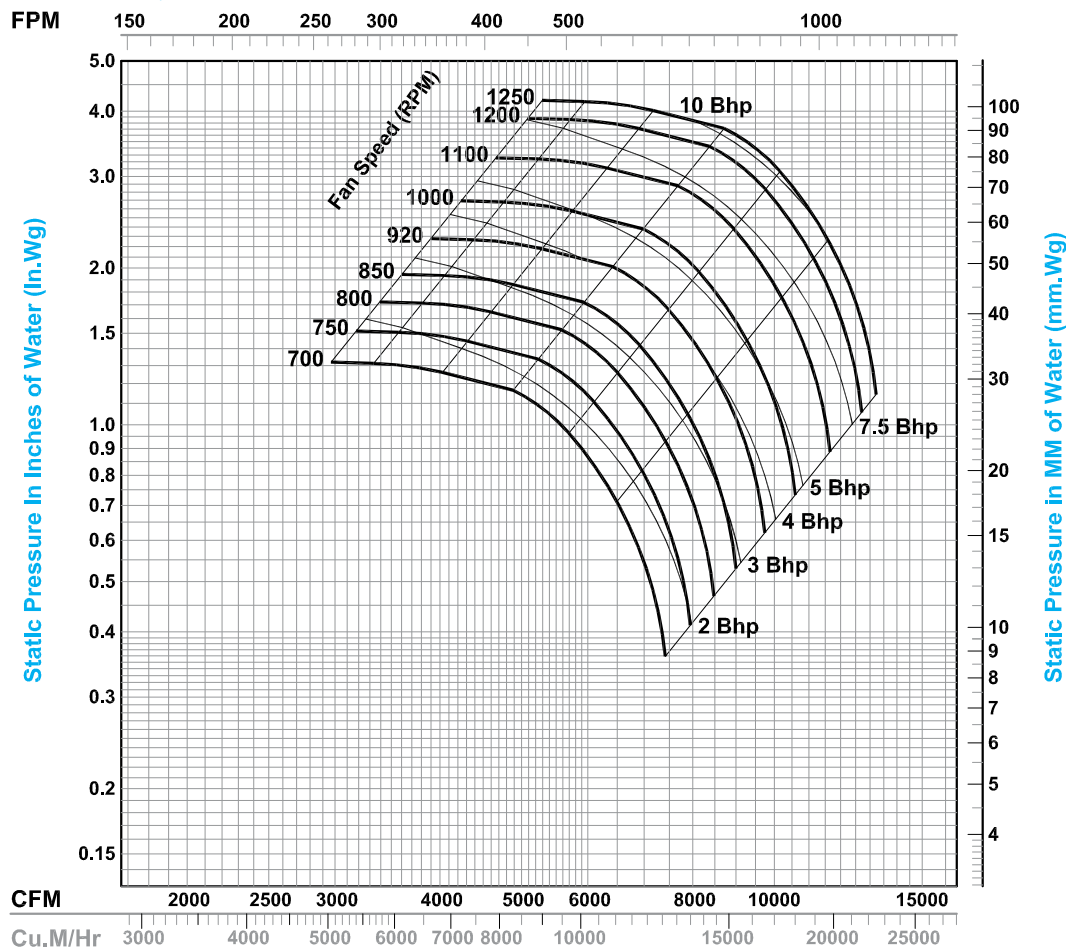
Aireng Company  
certifies that the ATIL  
In Line fan shown  
herein is licensed to  
bear the **AMCA Seal**.  
The ratings shown are  
based on tests and  
procedures performed in  
accordance with **AMCA**  
**Publication 211 and 311**  
and comply with the  
requirements of the  
**AMCA Certified Ratings**  
Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
700	0.71	81	79	76	79	78	72	67	62	81
	1.16	81	78	76	78	77	72	68	64	81
	1.30	85	83	78	79	77	71	66	61	81
750	0.81	83	80	78	80	80	74	69	64	83
	1.33	83	79	77	79	79	74	70	66	82
	1.50	87	84	80	80	79	73	68	63	83
800	0.93	85	82	79	81	82	76	71	68	85
	1.51	85	81	79	80	81	76	72	68	84
	1.70	89	86	81	81	81	75	70	65	84
850	1.05	87	83	80	82	84	78	73	68	87
	1.71	87	82	80	81	83	77	73	69	86
	1.92	90	87	83	82	83	77	72	67	86
920	1.22	89	85	82	83	86	80	75	70	89
	2.00	89	84	82	82	85	79	75	71	88
	2.25	92	89	85	83	85	79	74	69	88
1000	1.45	92	87	84	85	89	83	78	73	91
	2.37	92	86	84	84	88	82	78	74	90
	2.66	95	91	87	85	88	82	77	72	90
1100	1.75	94	89	89	87	90	86	80	75	93
	2.86	94	89	88	86	89	85	80	76	92
	3.22	97	93	93	87	89	85	79	74	93
1200	2.08	96	92	91	88	92	88	83	78	95
	3.41	96	91	90	88	91	87	83	79	94
	3.83	99	96	95	89	91	87	82	77	95
1250	2.26	97	93	92	89	92	89	84	79	96
	3.70	97	92	91	89	91	88	84	80	95
	4.16	100	97	96	90	92	88	83	78	96

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



**Size 33**  
Outlet Area 13.74 Sq.Ft.

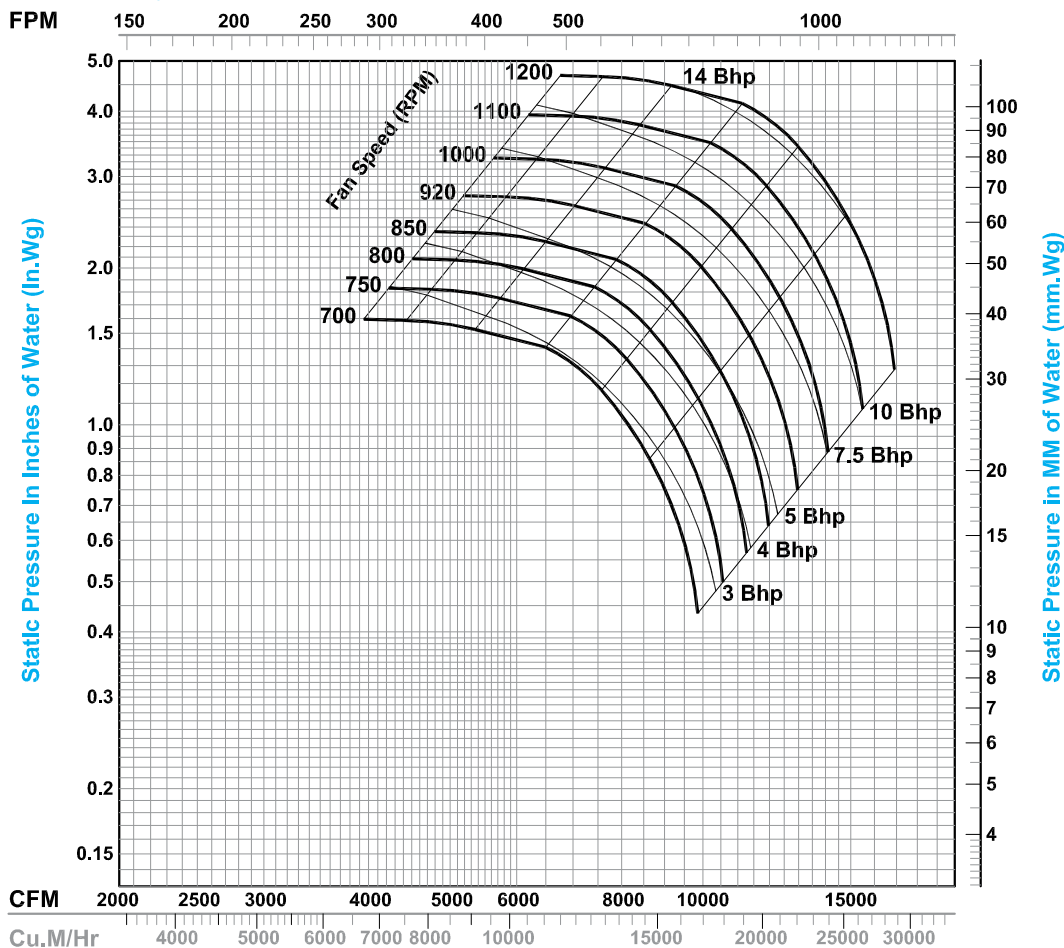
Aireng Company  
certifies that the ATIL  
In Line fan shown  
herein is licensed to  
bear the **AMCA Seal**.  
The ratings shown are  
based on tests and  
procedures performed in  
accordance with **AMCA**  
**Publication 211 and 311**  
and comply with the  
requirements of the  
**AMCA Certified Ratings**  
Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
700	0.86	84	82	79	82	81	75	70	65	84
	1.40	84	81	79	81	80	75	71	67	84
	1.58	88	86	81	81	80	74	69	64	84
750	0.98	86	83	81	83	83	77	72	67	86
	1.61	86	82	80	82	82	77	73	69	85
	1.81	90	87	83	83	82	76	71	66	86
800	1.12	88	85	82	84	85	79	74	69	88
	1.83	88	84	82	83	84	78	74	70	87
	2.06	91	89	84	84	84	78	73	68	87
850	1.26	90	86	83	85	87	81	76	71	89
	2.07	90	85	83	84	86	80	76	72	89
	2.33	93	90	86	85	86	80	75	70	89
920	1.48	92	88	85	86	89	83	78	73	92
	2.42	92	87	85	85	88	82	78	74	91
	2.72	95	92	88	86	88	82	77	72	91
1000	1.75	95	90	87	88	92	86	81	76	94
	2.86	95	89	87	87	91	85	81	77	93
	3.22	98	94	90	88	91	85	80	75	93
1100	2.12	97	92	92	90	93	88	83	78	96
	3.46	97	91	91	89	92	87	83	79	95
	3.90	100	96	96	90	92	87	82	77	96
1200	2.52	99	95	94	91	95	91	86	81	98
	4.12	99	94	93	91	94	90	86	82	97
	4.64	102	99	98	92	94	90	85	80	98

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



aerotech

**Size 36**

Outlet Area 16.81 Sq.Ft.

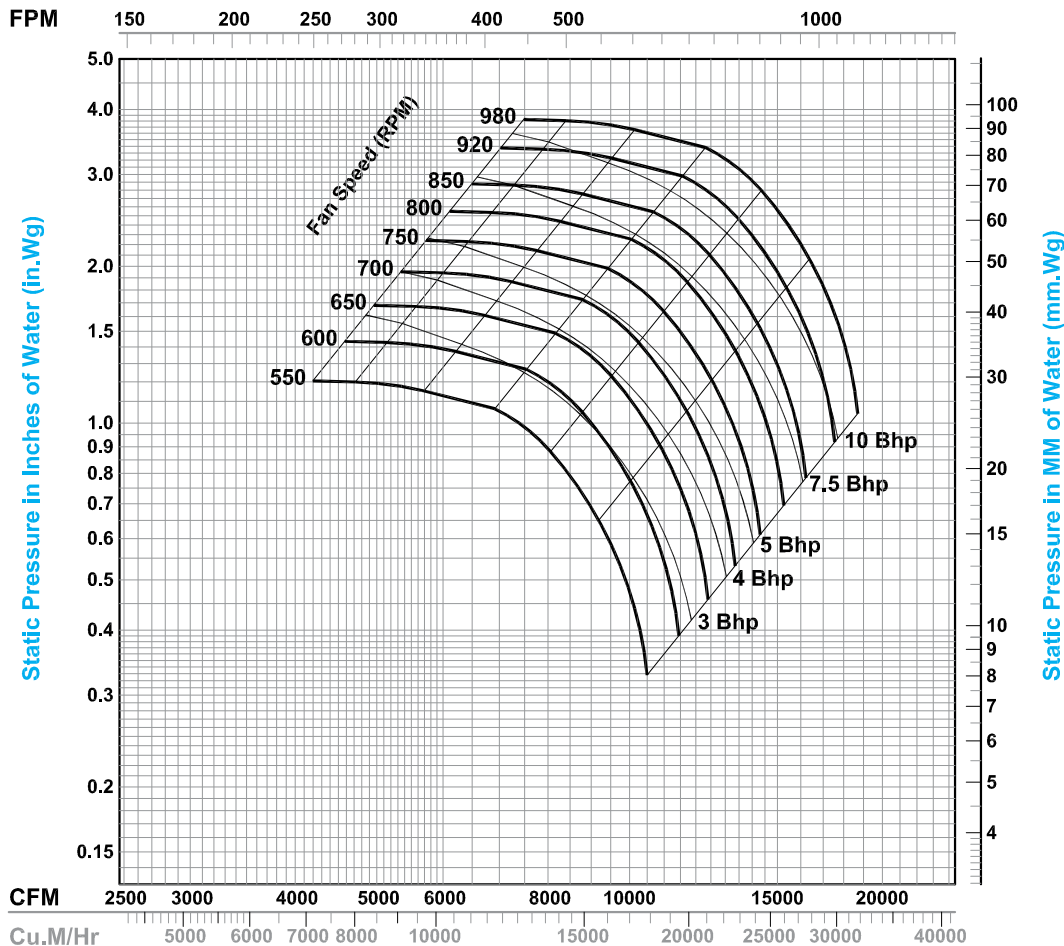
Aireng Company  
certifies that the ATIL  
In Line fan shown  
herein is licensed to  
bear the **AMCA Seal**.  
The ratings shown are  
based on tests and  
procedures performed in  
accordance with **AMCA**  
**Publication 211 and 311**  
and comply with the  
requirements of the  
**AMCA Certified Ratings**  
Program.



*Centrifugal In Line*

**ATIL**

Outlet Velocity



**Airflow**

Performance certified for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

### Sound Power Levels

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
550	0.65	80	80	78	81	77	71	66	61	82
	1.06	79	79	77	80	76	71	67	63	81
	1.19	84	84	78	80	76	70	65	60	81
	0.77	83	82	79	83	79	74	69	64	84
600	1.26	82	81	79	82	78	74	70	66	83
	1.42	87	86	80	82	78	73	68	63	83
650	0.90	85	83	81	84	82	76	71	66	86
	1.48	85	82	80	83	81	76	72	68	85
700	1.66	89	87	82	83	81	75	70	65	85
	1.05	87	85	82	85	84	78	73	68	87
750	1.72	87	84	82	84	83	78	74	70	87
	1.93	91	89	84	84	83	77	72	67	87
920	1.20	89	86	84	86	86	80	75	70	89
	1.97	89	85	83	85	85	80	76	72	88
980	2.22	93	90	86	86	85	79	74	69	89
800	1.37	91	88	85	87	88	82	77	72	91
	2.24	91	87	85	86	87	82	78	74	90
	2.52	94	92	87	87	87	81	76	71	90
	1.55	93	89	86	88	90	84	79	74	92
850	2.53	93	88	86	87	89	83	79	75	92
	2.85	96	93	89	88	89	83	78	73	92
920	1.81	95	91	88	89	92	86	81	76	95
	2.96	95	90	88	88	91	85	81	77	94
980	3.33	98	95	91	89	91	85	80	75	94
	2.06	97	92	89	90	94	88	83	78	96
980	3.36	97	91	89	89	93	87	83	79	96
	3.78	100	96	92	90	93	87	82	77	96

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



**Size 40**  
Outlet Area 20.49 Sq.Ft.

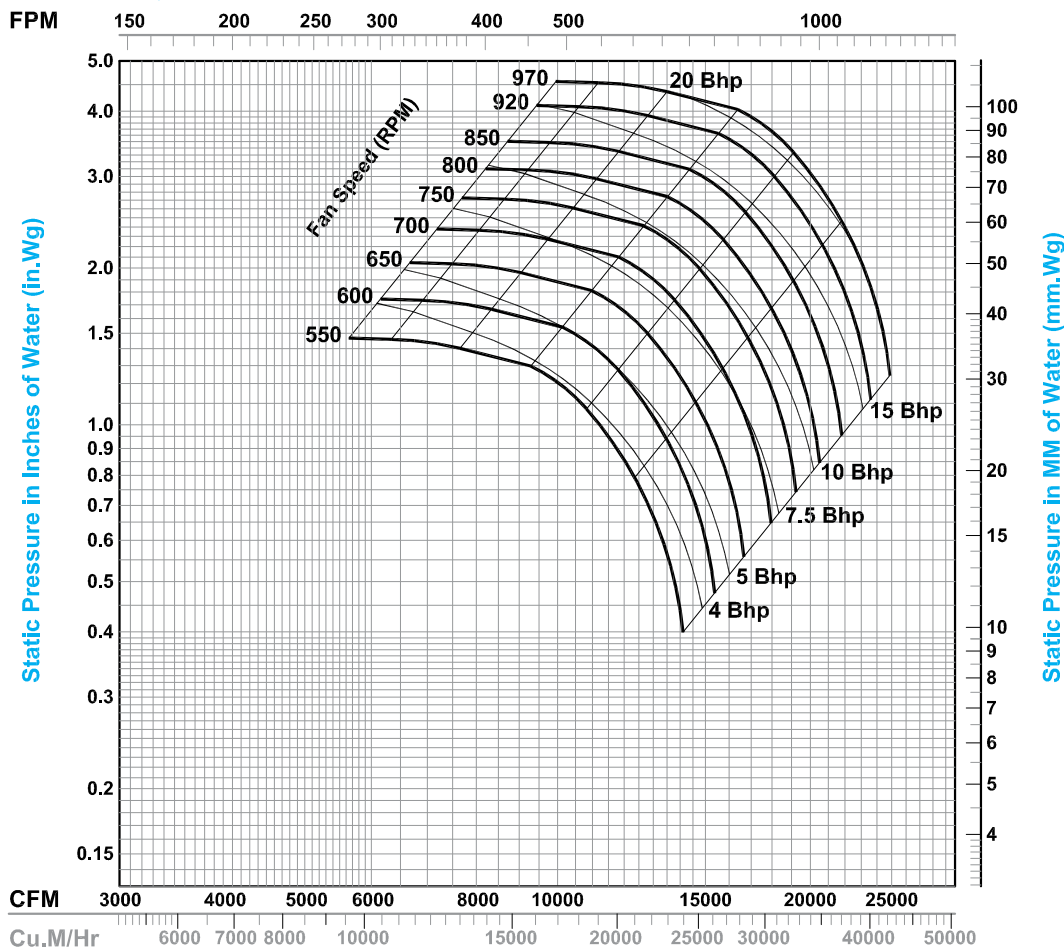
Aireng Company  
certifies that the ATIL  
In Line fan shown  
herein is licensed to  
bear the **AMCA Seal**.  
The ratings shown are  
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procedures performed in  
accordance with **AMCA**  
**Publication 211 and 311**  
and comply with the  
requirements of the  
**AMCA Certified Ratings**  
Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
550	0.79	83	83	81	84	80	74	69	64	85
	1.29	82	82	80	83	79	74	70	66	84
	1.45	87	87	81	83	79	73	68	63	84
	0.94	86	85	82	86	82	77	72	67	87
600	1.54	85	84	82	85	81	77	73	69	86
	1.73	90	89	83	85	81	76	71	66	86
	1.10	88	86	84	87	85	79	74	69	89
650	1.80	88	85	83	86	84	79	75	71	88
	2.03	92	90	85	86	84	78	73	68	88
	1.28	90	88	85	88	87	81	76	71	90
700	2.09	90	87	85	87	86	81	77	73	90
	2.35	94	92	87	87	86	80	75	70	90
	1.47	92	89	87	89	89	83	78	73	92
750	2.40	92	88	86	88	88	83	79	75	91
	2.70	96	93	89	89	88	82	77	72	92
N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
800	1.67	94	91	88	90	91	85	80	75	94
	2.73	94	90	88	89	90	85	81	77	93
	3.07	97	95	90	90	90	84	79	74	93
	1.88	96	92	89	91	93	87	82	77	95
850	3.08	96	91	89	90	92	86	82	78	95
	3.47	99	96	92	91	92	86	81	76	95
	2.21	98	94	91	92	95	89	84	79	98
920	3.61	98	93	91	91	94	88	84	80	97
	4.06	101	98	94	92	94	88	83	78	97
	2.45	100	95	92	93	97	91	86	81	99
970	4.01	100	94	92	92	96	90	86	82	98
	4.51	103	99	95	93	96	90	85	80	99

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.





**Size 44**  
Outlet Area 25.02 Sq.Ft.

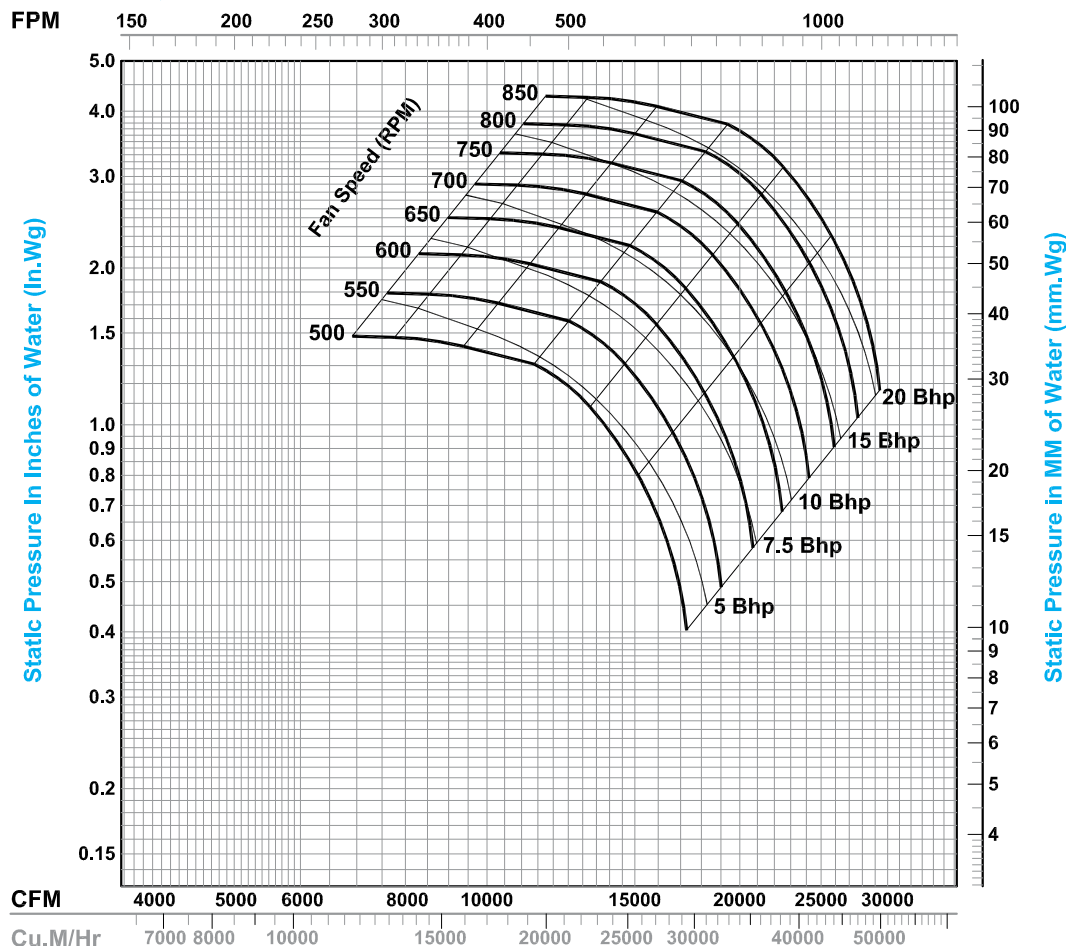
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Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
500	0.80	84	81	82	86	80	75	70	65	85
	1.30	83	81	81	85	79	75	71	67	85
	1.46	88	84	82	85	79	74	69	74	84
550	0.96	86	86	84	87	83	77	72	67	88
	1.57	85	85	83	86	82	77	73	69	87
	1.77	90	90	84	86	82	76	71	66	87
600	1.15	89	88	85	89	85	80	75	70	90
	1.87	88	87	85	88	84	80	76	72	89
	2.11	93	92	86	88	84	79	74	69	89
650	1.34	91	89	87	90	88	82	77	72	92
	2.20	91	88	86	89	87	82	78	74	91
	2.47	95	93	88	89	87	81	76	71	91
700	1.56	93	91	88	91	90	84	79	74	93
	2.55	93	90	88	90	89	84	80	76	93
	2.87	97	95	90	90	89	83	78	73	93
750	1.79	95	92	90	92	92	86	81	76	95
	2.93	95	91	89	91	91	86	82	78	94
	3.29	99	96	92	92	91	85	80	75	95
800	2.04	97	94	91	93	94	88	83	78	97
	3.33	97	93	91	92	93	88	84	80	96
	3.75	101	98	93	93	93	87	82	77	96
850	2.30	99	95	92	94	96	90	85	80	99
	3.76	99	94	92	93	95	89	85	81	98
	4.23	102	99	95	94	95	89	84	79	98

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



**aerotech**

**Size 48**

Outlet Area 30.01 Sq.Ft.

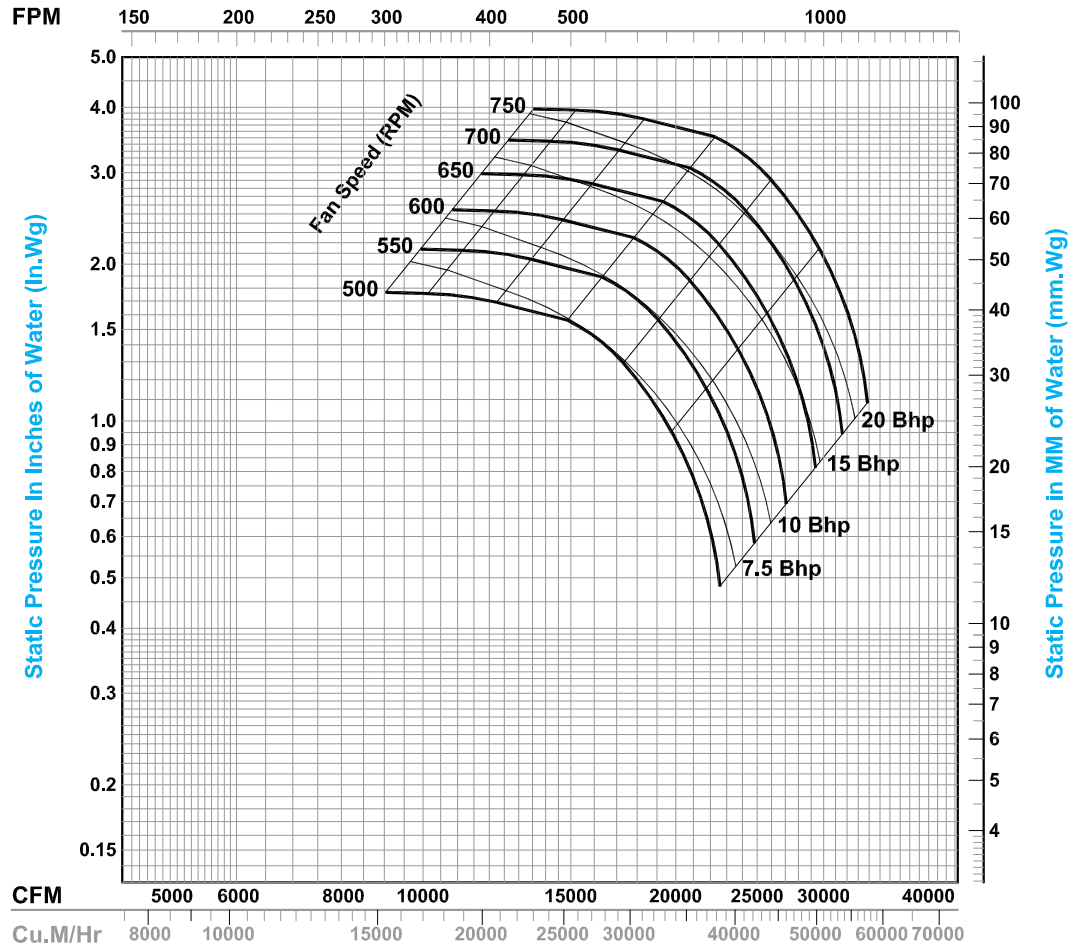
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procedures performed in  
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**Publication 211 and 311**  
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requirements of the  
**AMCA Certified Ratings**  
Program.



*Centrifugal In Line*

**ATIL**

**Outlet Velocity**



Performance certified is for installation type A - Free inlet, Free outlet. Power rating bhp does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

**Sound Power Levels**

N RPM	Ps in.Wg	Lwo (dB) at Center Frequency (Hz)								LwA
		63	125	250	500	1K	2K	4K	8K	
500	0.95	86	83	84	88	82	77	72	67	88
	1.55	85	83	83	87	81	77	73	69	87
	1.75	90	86	84	87	81	76	71	66	87
550	1.15	89	88	86	90	85	80	75	70	90
	1.88	88	87	85	89	84	80	76	72	89
	2.11	93	92	87	89	84	79	74	69	90
600	1.37	92	90	88	91	88	83	78	73	92
	2.24	91	89	87	90	87	82	78	74	92
	2.52	95	94	89	91	87	82	77	72	92
650	1.61	94	92	90	93	90	85	80	75	94
	2.63	93	91	89	92	89	85	81	77	93
	2.95	97	96	91	92	89	84	79	74	94
700	1.86	96	94	91	94	93	87	82	77	96
	3.05	95	93	91	93	92	87	83	79	95
	3.43	100	98	93	93	92	86	81	76	96
750	2.14	98	95	93	95	95	89	84	79	98
	3.50	98	94	92	94	94	88	84	80	97
	3.93	101	99	94	94	94	88	83	78	97

Values shown are for outlet Lwo and outlet Lwo(A) sound power levels for installation Type A: Free inlet, Free outlet.  
The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.  
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

# *Air Movement and Control Association International, Inc.*

*Certifies that*

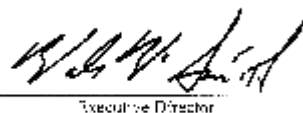
*Aireng Company*

*Having satisfied the membership requirements, has been granted membership in the  
Air Movement and Control Association International, Inc.*

*Member Since  
June 2011*

  
AMCA International President



  
Executive Director

# SOME OF THE PROJECTS HAVING AEROTECH'S PRODUCTS

## INDUSTRIAL BUILDINGS

### PHARMACEUTICAL COMPANIES

- Aventis Ltd, Karachi
- Abbot Laboratories, Karachi
- Brookes Pharmaceutical Laboratories Pak Ltd, Karachi
- Merck Sharp & Dhome Of Pakistan Ltd, Karachi
- Merck Marker, Quetta
- Parke Davis & Co
- Reckit & Benchier, Karachi
- Safron Pharmaceutical

### TOBACCO COMPANIES

- Pakistan Tobacco Company, Akora Khattak
- Pakistan Tobacco Company, Jhelum
- Lakson Tobacco Company, Mandra
- Lakson Tobacco Company, Kotri

### TEXTILE INDUSTRIES

- Dewan Mushtaq Textile Mills, (unit 1, Kotri)

- Gul Ahmed Textile Mills, Karachi
- Siddiqsons Denim Mills Ltd
- Crescent Greenwood, Pindi Bhattian
- Nishat Textile Mills Ltd

### OTHERS

- Uni-lever Pakistan, Rahim Yar Khan
- Honda Atlas Car Plant, Lahore
- Pepsi, Lahore
- National Foods Ltd, Karachi
- Nestle Pakistan, Lahore
- Packages Industries, Lahore
- Fecto Cement Ltd, Sangjani

### COMMERCIAL BUILDINGS

#### EMBASSIES

- Canadian High Commission, Islamabad
- British High Commission
- Turkish Embassy
- British Council, Karachi

#### HOTEL, RESTURANTS & FOOD CHAINS

- Marriot Hotel, Islamabad

- Serena Hotel, Islamabad
- Pearl Continental Hotel, Bhurban, Peshawar
- Pizzza Hut, Multan, Faisalabad.
- Subway, Islamabad
- Hang Out, Islamabad

### CLUBS

- Islamabad Club, Islamabad
- Royal Palm Country Club, Lahore
- United Nation Club, Islamabad
- Creek Club D.h.a, Karachi
- Canadian High Commission Club

### HOSPITALS

- Aga Khan Hospital, Karachi
- Shifa Interantional Hospital, Islamabad
- Multan Institute Of Cardiology
- Fauji Foundation Hospital, Lahore

### EDUCATIONAL INSTITUTION

- Bahria University, Islamabad
- Rehman Medical College, Peshawar
- Textile University, Karachi



**The Only Company in Pakistan with AMCA Membership**



## The AMCA Certified Ratings Program

The most important function of the Air Moving and Control Association (AMCA) is the Certified Ratings Program, which checks air performance and sound ratings of air moving equipment. AMCA serves the buyer, the user, the specifier and the manufacturer by providing an impartial evaluation of the performance of competing products. This rating program is based on technical standards adopted by the industry and is intended to greatly reduce the problem of exaggerated, prejudiced, or erroneous performance claims.

Before it is licensed to use the AMCA Seal, a product must be subjected to comprehensive testing in compliance with the appropriate AMCA test standard in an AMCA approved laboratory.