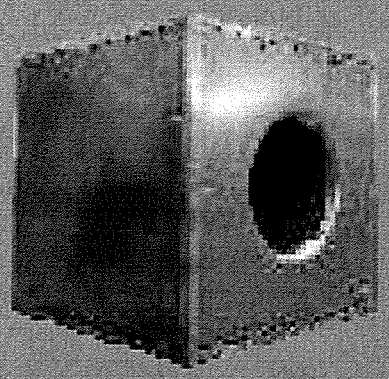
SCUBE

Square Inline Centrifugal Fan



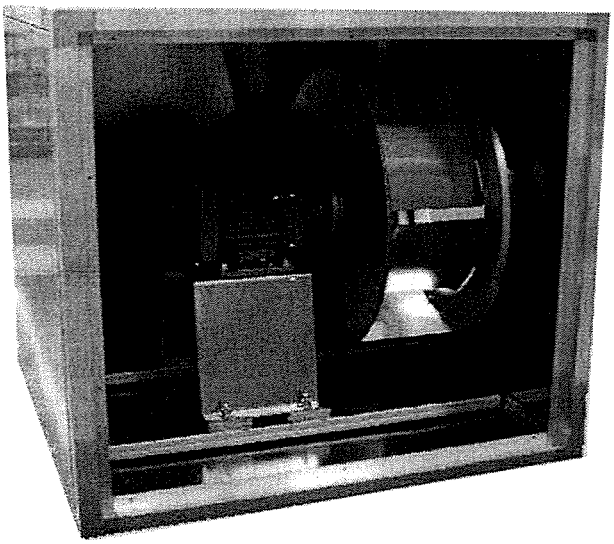
DYNAIR

CATALOGUE - SCUBE APRIL 2009

SCUBE

Square Inline Centrifugal Fan

DYNAIR®



PRODUCT FEATURES

Wide performance range and more economic

2nd Generation Wind-Surfer ™ Centrifugal Wheel: Low noise while pressurising as compared to 1st Generation.
Maximum Wheel Diameter is 1 meter, reduce fan quantity and primary investment.
The scroll is saved and the cabinet size is reduced.

Centrifugal In-line: Low Noise

Compare with axial/mixed flow fans rotation speed is reduced by 20-30%.
The sound pressure level range is reduced by 10-15dB (A).
Fundamental way to reduce noise.

Plug Fan Structure

Plug Fan directly suck air into wheel and pressurize: air flow pattern improved.

AMCA Seal: Sound and Air Performance Certified

The sound and air performance is approved by AMCA.
Sound and Air Performance Seal is applied to each fan.

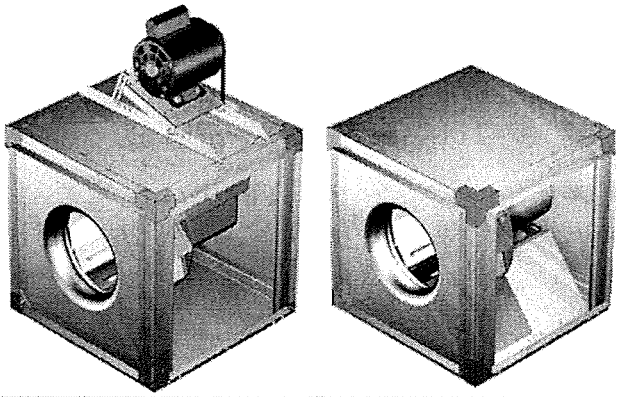
Design

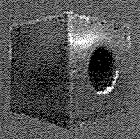
Square inlet/outlet sleeve flange as standard accessories: round/sqaure convention duct is not needed.
Duct Connection cost reduced, and jobsite working time saved.
Motor can be multi-position.
Multi- Discharge: More convenient and flexible for design and construction.

amca CERTIFIED RATINGS SOUND and AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®

AMCA Sound & Air Performance Seal

Dynair Gulf FZCO Certifies that the model SCUBE shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed with AMCA Publication 211 and AMCA 311 and comply with the requirements of the AMCA Certified Ratings Program





PRODUCT SPECIFICATION

Belt Driven

SCUBE series fans are designed to provide ventilation solution for ducted system. These fans are widely use in square duct as clean air booster for both supply or exhaust system.

Housing

The Housing is constructed of aluminium panel and aluminum profile with a rigid internal steel member. The panel can able to with stand the weight of motor and drive. The profile of the housing shall be square basically,with regular sleeves flange to avoid round/square transducer duct. The housing have optional discharge direction.The motor can be replaced easily from the larger acess door without removing the ready made duct.

Impeller

The impeller is backward curved centrifugal type and its direclty inclined to airflow.The venturi guides the airflow smoothly with low noise at inlet.The impeller is balanced statically and dynamically to level G2.5 as per ISO standards No. 1940

Shaft

The fan shaft shall be heat treated through soaking furnace to the hardness level of HB370, and the surface shall be hard film corrosion treated. The fan shaft shall be balanced together with the wheel. And the shaft design speed shall at least exceed 25% of the maximum fan operation speed.

Pulleys

The fan pulleys shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of cast iron type, keyed and securely attached to the wheel and motor shafts. Conical (QD) type bushings shall be equipped for easy removal of the pulleys.

Bearings

The bearings shall be selected for a minimum (L-10) life in excess of 80,000 hours at maximum cataloged operating speed.Bearing type shall be permanently sealed, re-lubricable pillow block metal ball bearings. Drive support: drive assemblies shall be supported by heavy gauge powder coated steel. The belt tension shall be adjusted through motor support plate, the design shall make sure the fan shaft and motor shaft is always parallel.

Motor

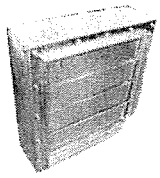
Motor shall be carefully matched to the fan load, IP 55, and insulation class F. The motor bearings shall be ball type and need no lubrication.

Quality Standards

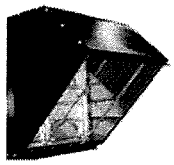
Square Inline Centrifugal fans shall be tested and approved according to AMCA standard 210 & 300,each Fan shall have AMCA Sound & Air Performance Seal.The manufacturer shall be certified by ISO9001:2000.

OPTIONAL ACCESSORIES

Back-draft Damper
Professional back-draft damper include inlet/outlet flange and combined box which insures the blade open properly. The damper is installed separately from the fan body.



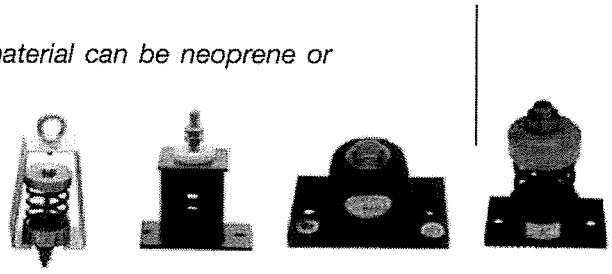
45° Weather Cover (With bird screen)
When fan mounted outdoor, it prevents rain into indoor effectively from inlet or outlet



Motor Cover (Belt drive only)
With discharge window to exhaust heat, extend motor life and reduce motor noise.

Acoustical Housing
Apply high class acoustical material inside the fan casing to reduce sound pressure level at about 6~8 dB(A).

Vibration isolators
Vibration isolators can be hung or floor-mounted, material can be neoprene or spring type.



REFERENCE CODE

Discharge direction is decided by facing the fan

SCUBE 300 B 4 0.25 (MPDF)
① ② ③ ④ ⑤

Motor position/Discharge

Optional Discharge : Left / Right

Discharge direction based on facing the fan inlet.

0.25 Kw : Motor Power

Motor Power see the Motor table

B4 : Belt Drive with 4 pole Motor

300 : Diamteter of the Impeller 300mm

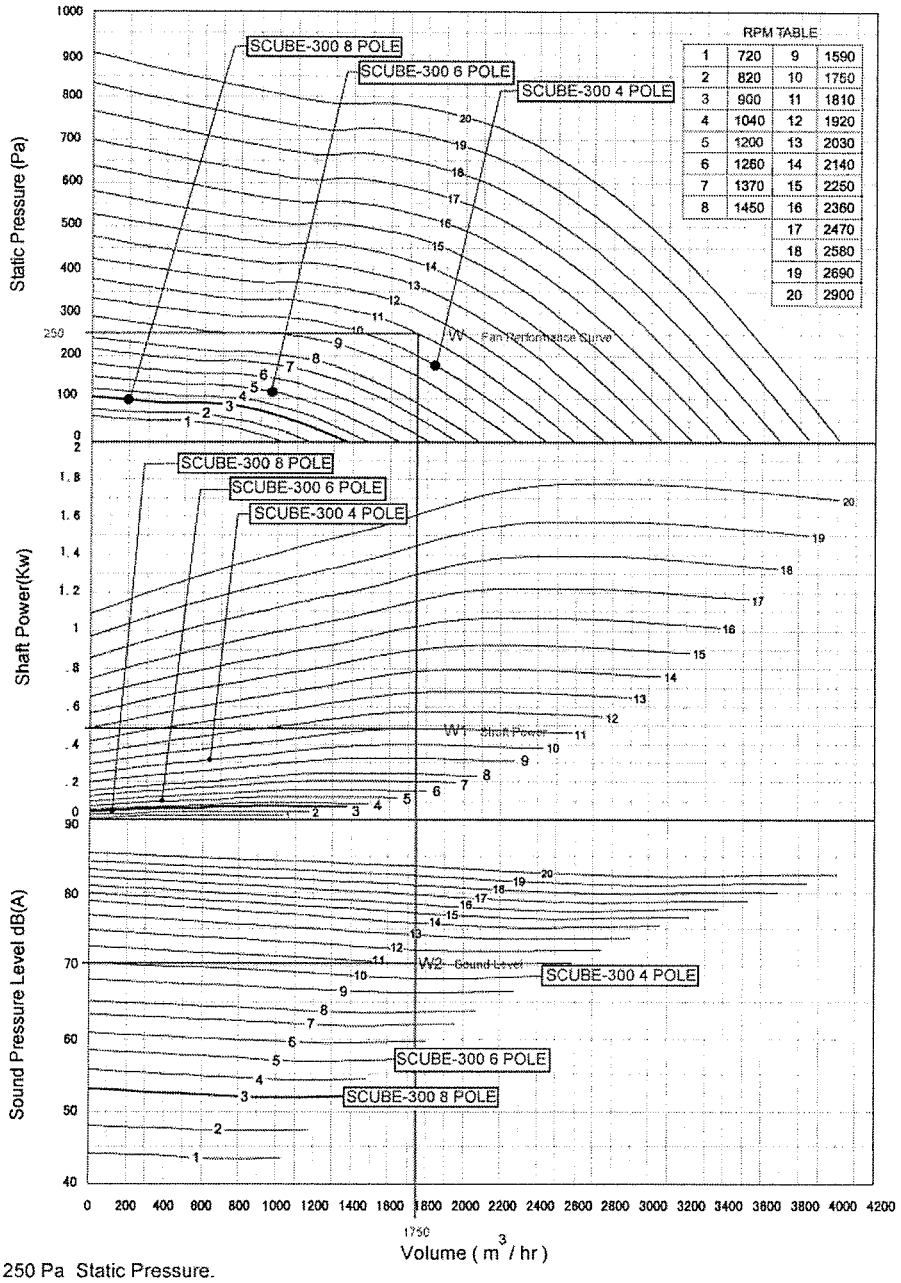
Model : SCUBE - Square Inline Centrifugal Fan

L	R	F	E
Left discharge	Right discharge	With Filter section	Epoxy coated

EXAMPLE OF CURVE READING

Terminology of Performance curve

Each Fan performance cuve shows a group of different RPM.
The dark curves shows the fan is direct drive which means the motor is fixed directly on the impeller.It is denoted with suffix letter D followed by motor pole number.
The attached table shows the motor RPM at different number of poles.
The other curves denotes of belt drive.Belt drive models achieved by variotion of RPM using Motor and shaft Pulley,while the motor will be always 4 pole.
Second Table shows the curve of actual power consumption.
Third table shows the curve of noise level at a distance of 1.5 meter.

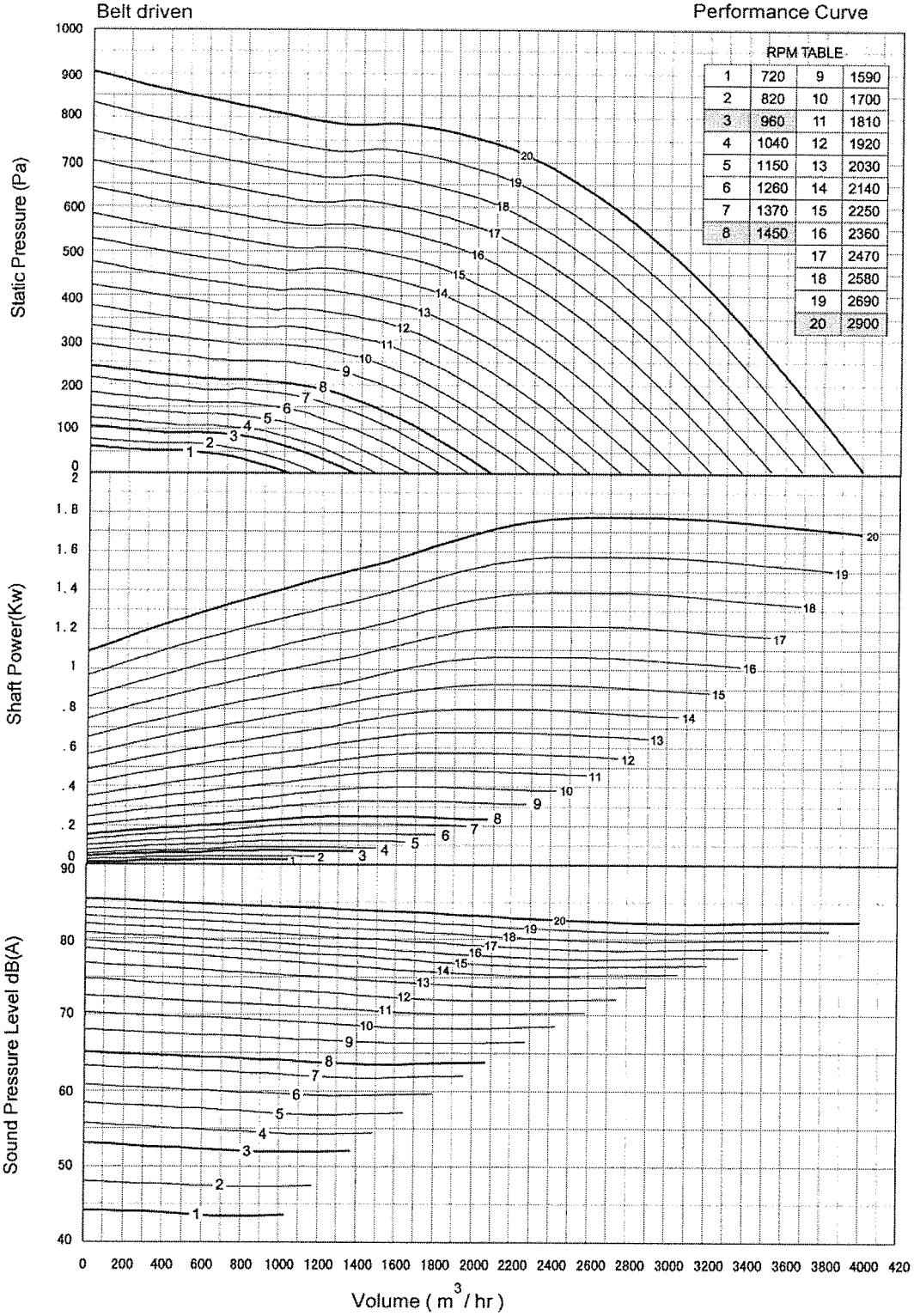


Example : 1750 m3 / hr , 250 Pa Static Pressure.
Step 1 : From the given Volme (1750 m3 / hr) draw a vertical line upwards and from given static statlc Pessure 250 Pa draw a horizotal line to the right intersection point W is the working point. Find a fan curve close to the point,which be curve No.11.As in RPM table its s the working point 1810.
Step 2 : The intersection point between vertical line on the curve No 11 in shaft Power is W1.Drawing a horizontal line towards shaft power, value will be (approx 0.50 Kw) According to Shaft Power ,motor selected will be 0.75 Kw.
Step 3 : The intersection point the vertical line on the curve will be No.11 in sound Pressure is W2.Drawing a horizontal line from towards the sound pressure,value will be (approx 70 dB (A).Its the fan sound Pressure level.
Step 4 : According to above 3 steps, fan selected is (FCS - 300 - 0.75) ,belt drive and the RPM selected is 1810.
Step 5 : Further customer has option of using direct drive (e.g) 4 POLE -1750 rpm,the nearest rpm curve 10 can give the respective static pressure and CFM characterstics.

SCUBE - 300

Belt driven

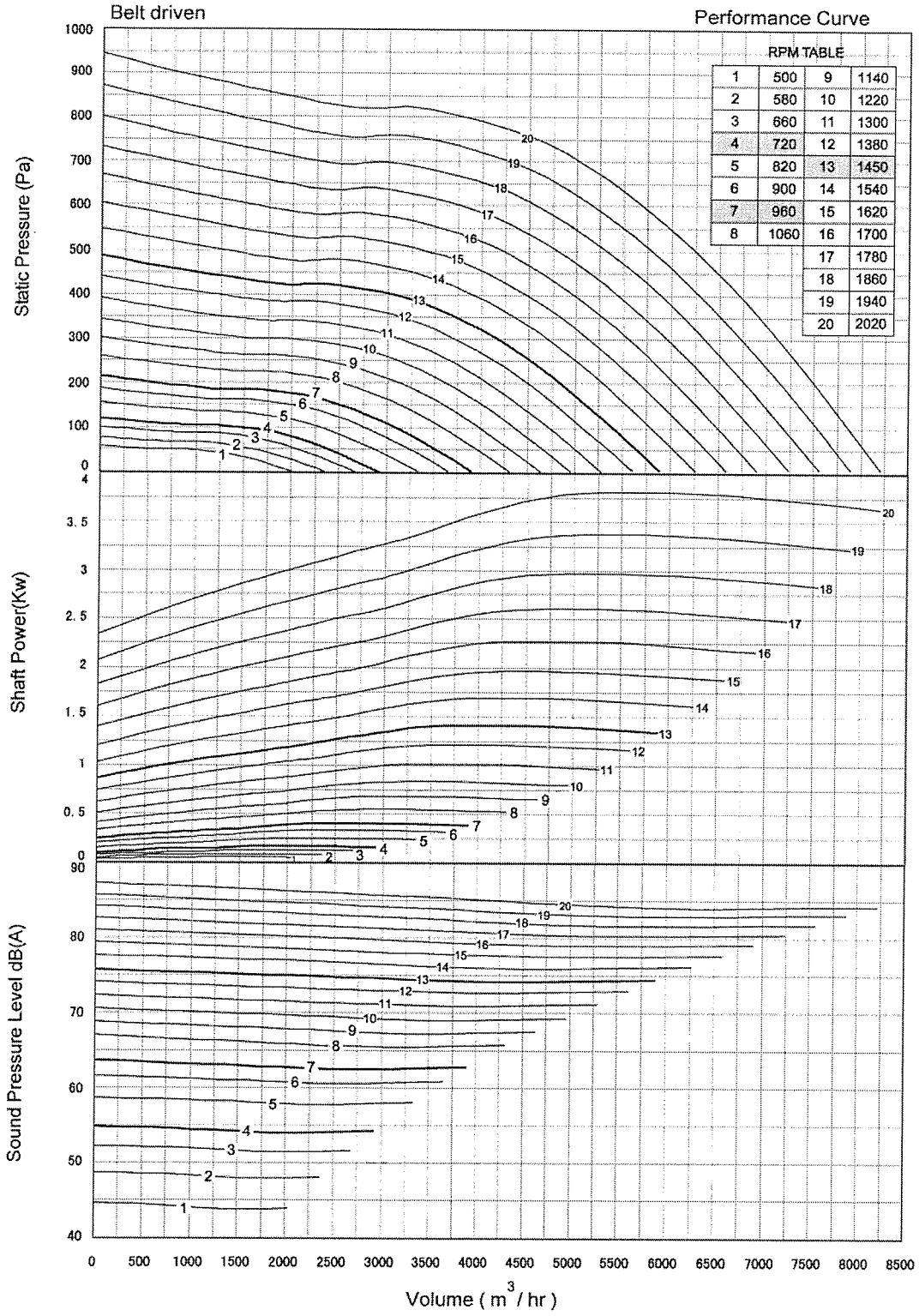
Performance Curve



RPM TABLE

1	720	9	1590
2	820	10	1700
3	960	11	1810
4	1040	12	1920
5	1150	13	2030
6	1260	14	2140
7	1370	15	2250
8	1450	16	2360
		17	2470
		18	2580
		19	2690
		20	2900

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



SCUBE 425

Belt driven

Performance Curve

RPM TABLE

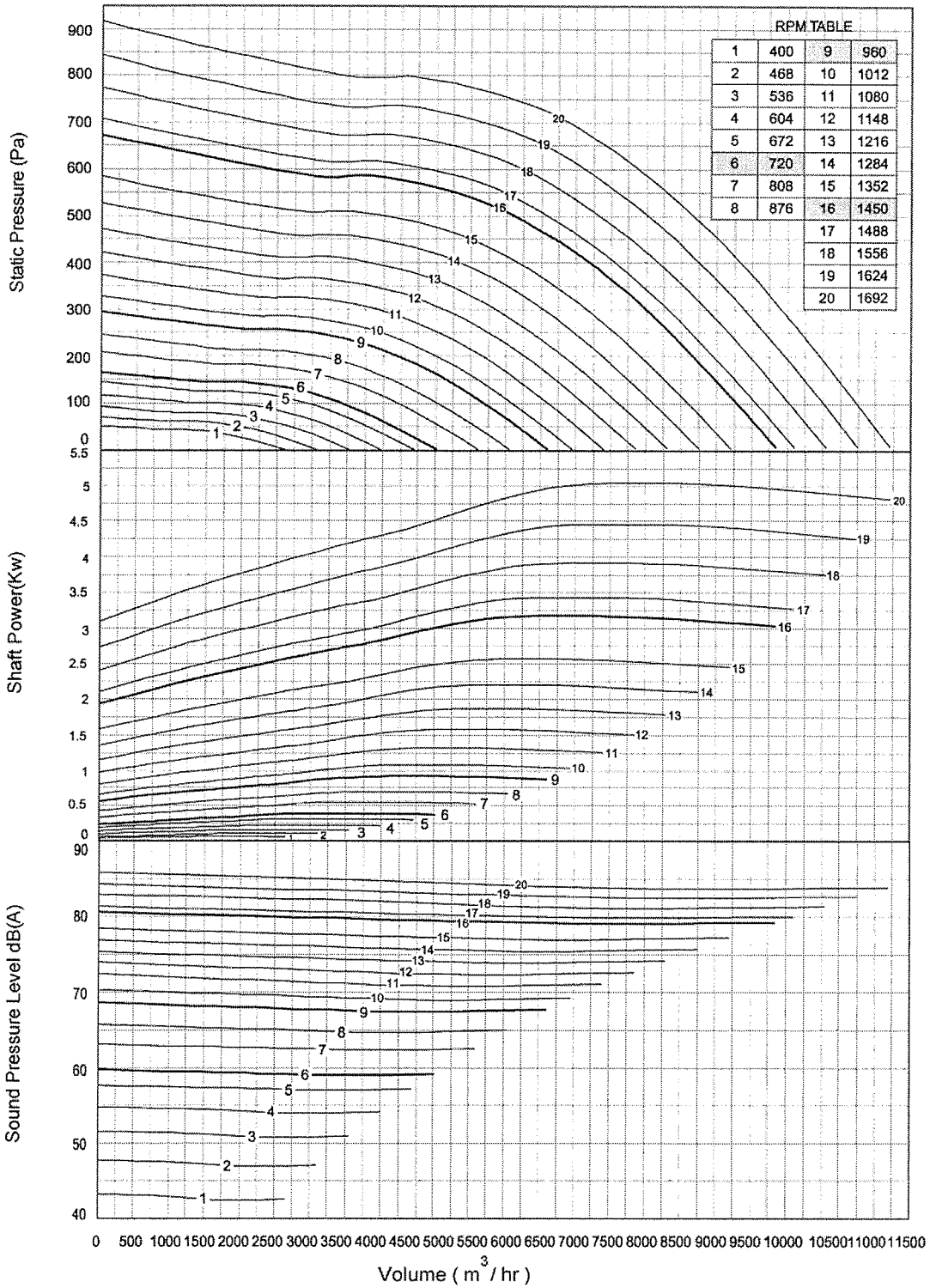
1	500	9	1140
2	580	10	1220
3	660	11	1300
4	720	12	1380
5	820	13	1450
6	900	14	1540
7	960	15	1620
8	1060	16	1700
		17	1780
		18	1860
		19	1940
		20	2020

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SCUBE - 500

Belt driven

Performance Curve



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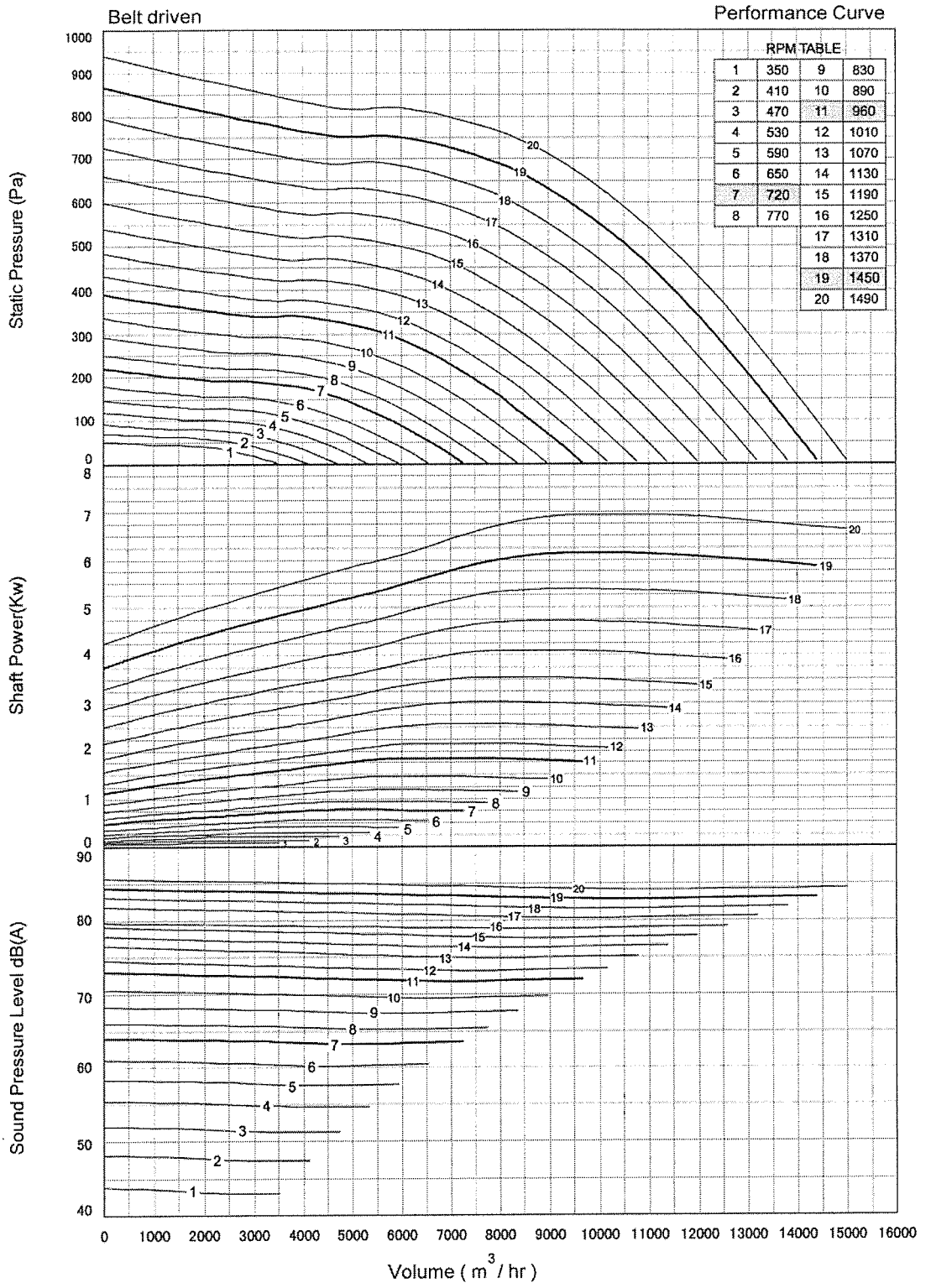


SCUBE 575

Belt driven

Performance Curve

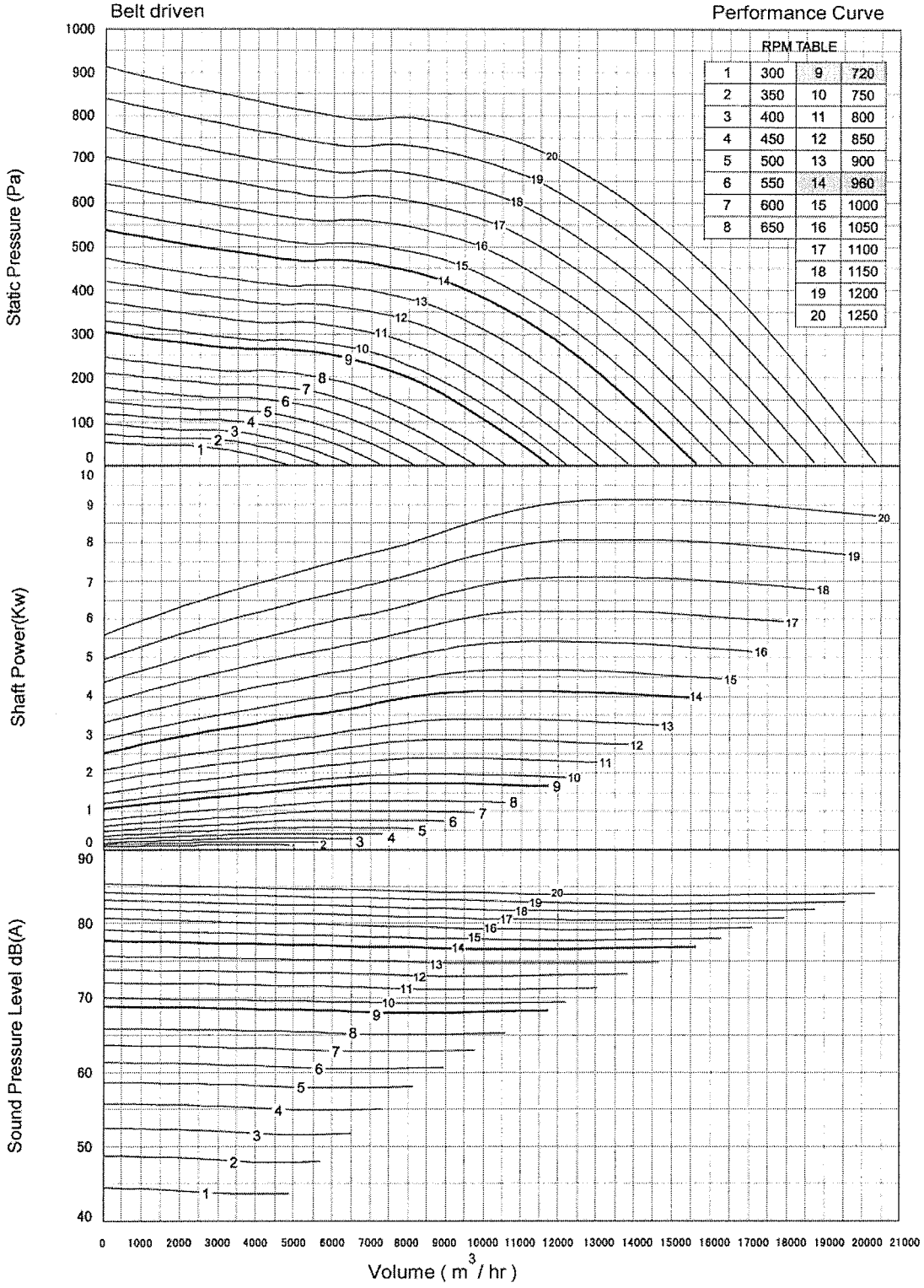
RPM TABLE			
1	350	9	830
2	410	10	890
3	470	11	960
4	530	12	1010
5	590	13	1070
6	650	14	1130
7	720	15	1190
8	770	16	1250
		17	1310
		18	1370
		19	1450
		20	1490

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SCUBE - 675

Belt driven

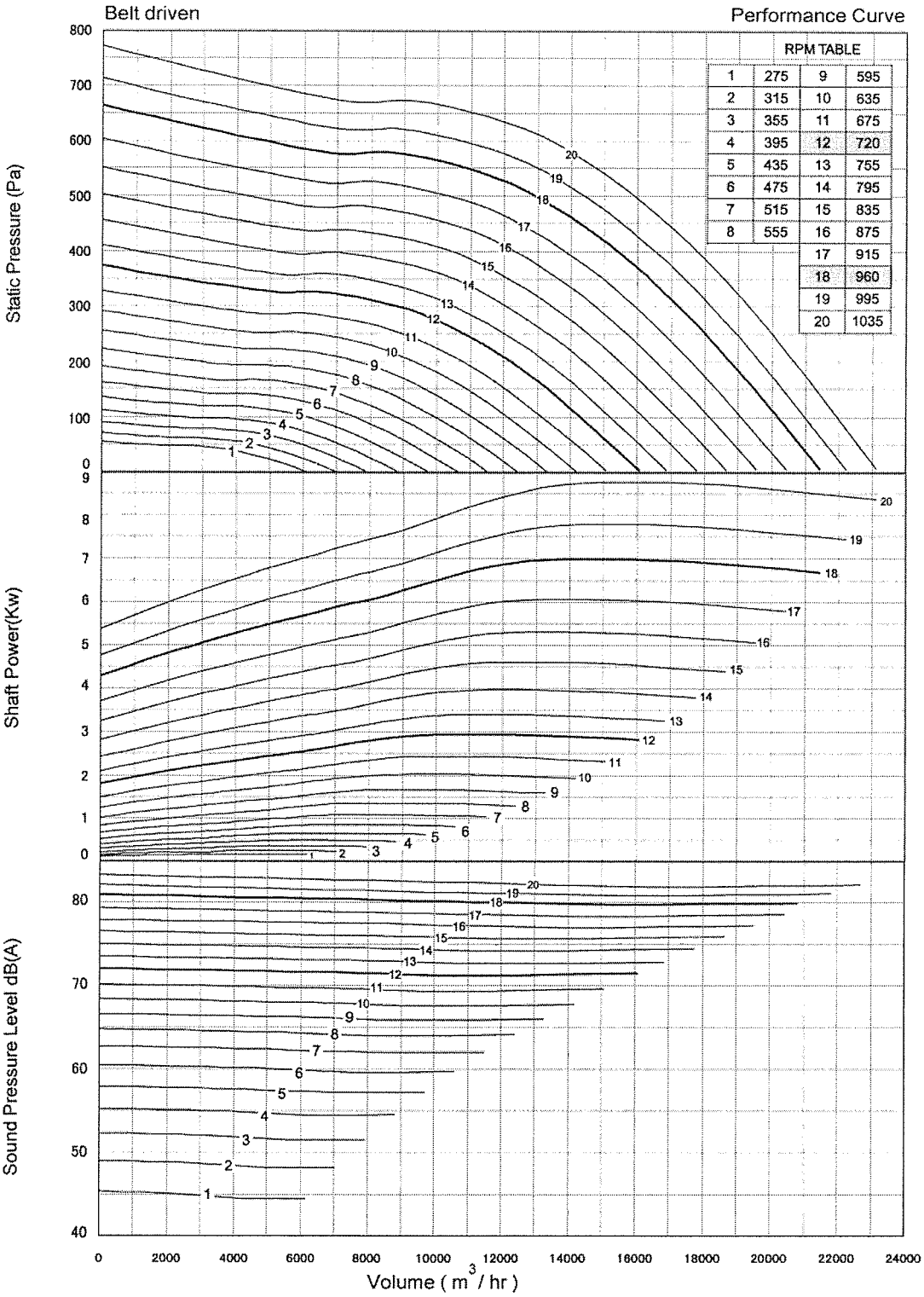
Performance Curve



RPM TABLE

1	300	9	720
2	350	10	750
3	400	11	800
4	450	12	850
5	500	13	900
6	550	14	960
7	600	15	1000
8	650	16	1050
		17	1100
		18	1150
		19	1200
		20	1250

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



SCUBE 750

Belt driven

Performance Curve

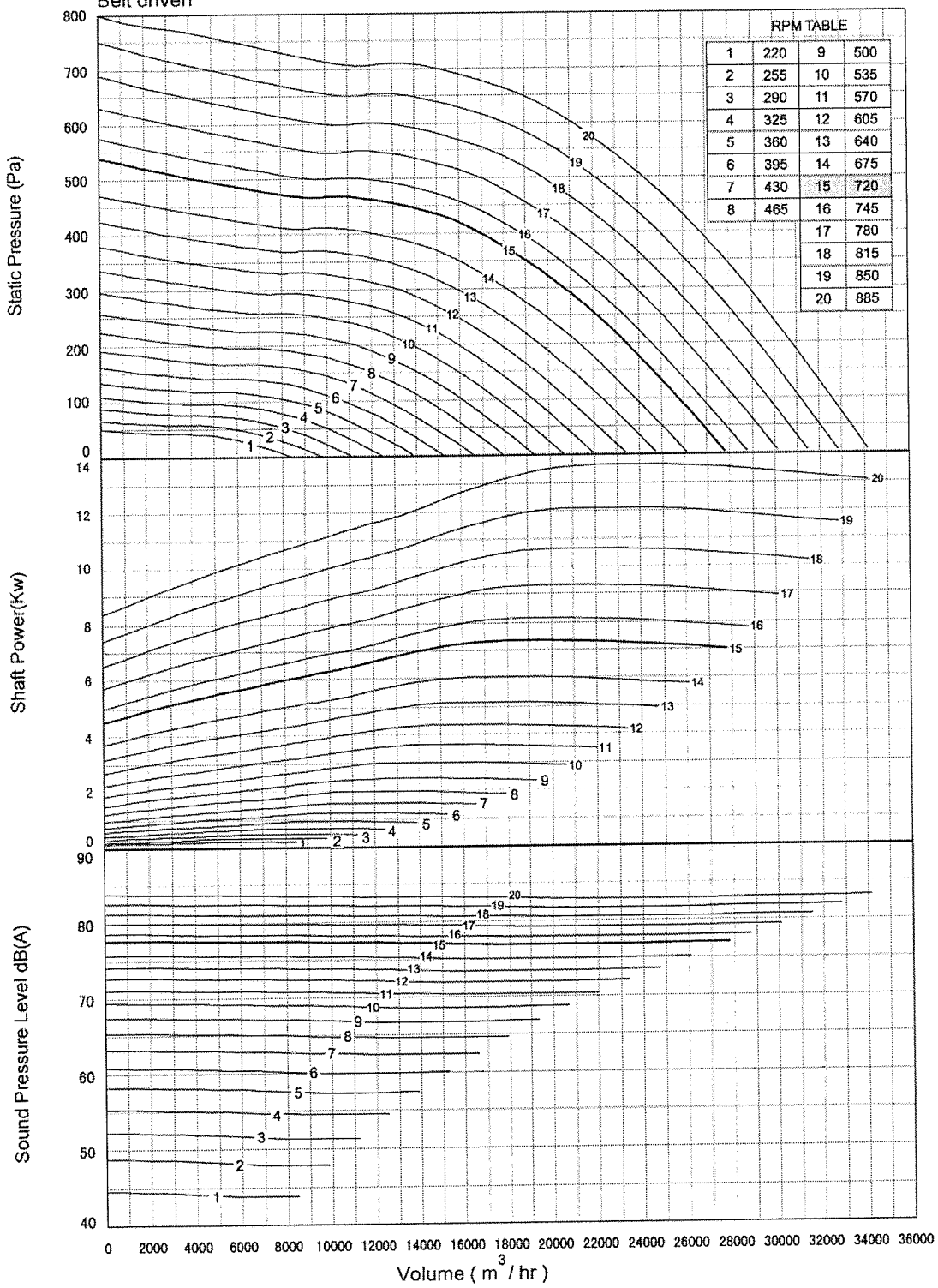
RPM TABLE			
1	275	9	595
2	315	10	635
3	355	11	675
4	395	12	720
5	435	13	755
6	475	14	795
7	515	15	835
8	555	16	875
		17	915
		18	960
		19	995
		20	1035

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SCUBE - 900

Belt driven

Performance Curve



RPM TABLE

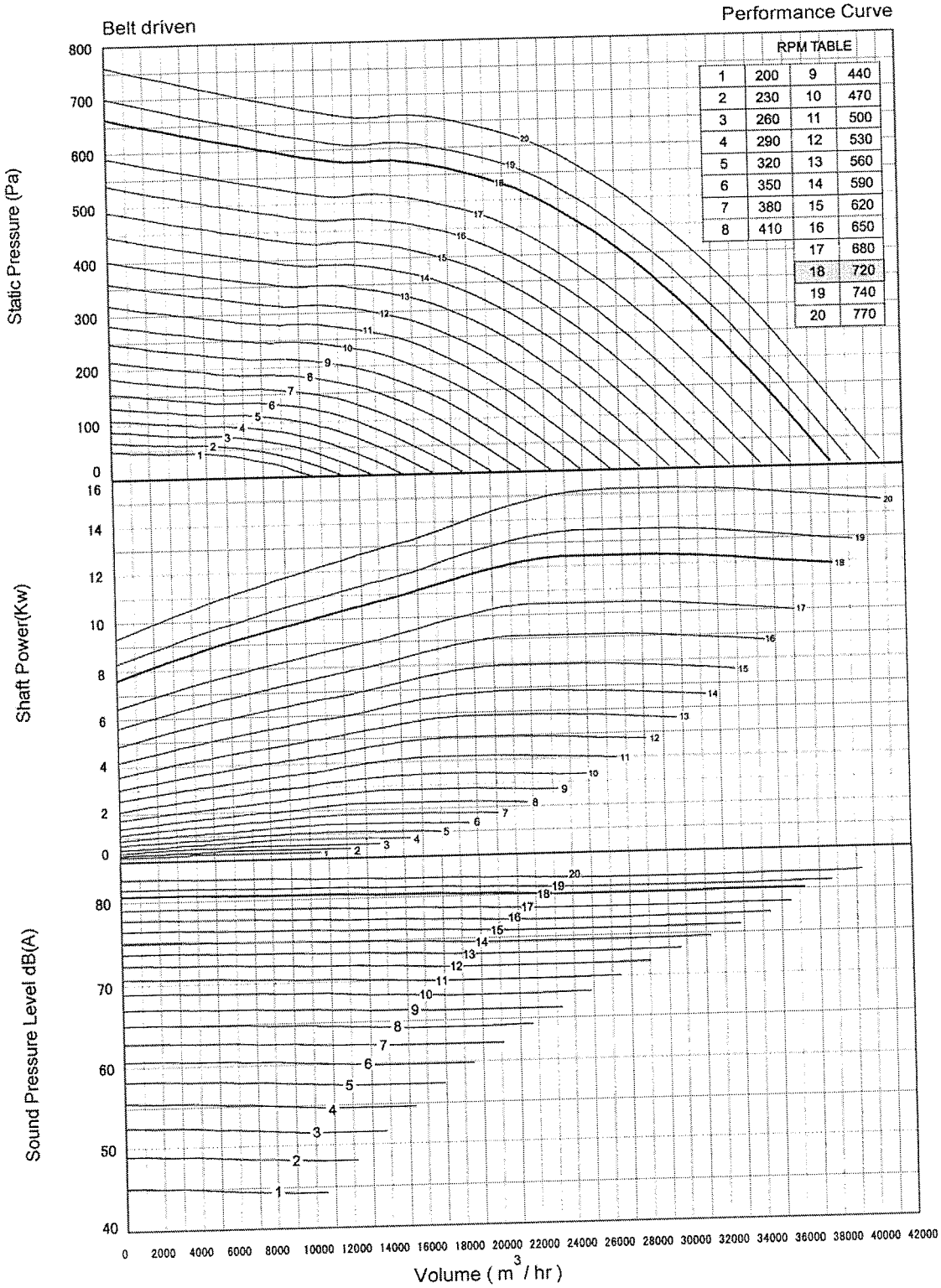
1	220	9	500
2	255	10	535
3	290	11	570
4	325	12	605
5	360	13	640
6	395	14	675
7	430	15	720
8	465	16	745
		17	780
		18	815
		19	850
		20	885

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SCUBE 1000

Performance Curve

Belt driven



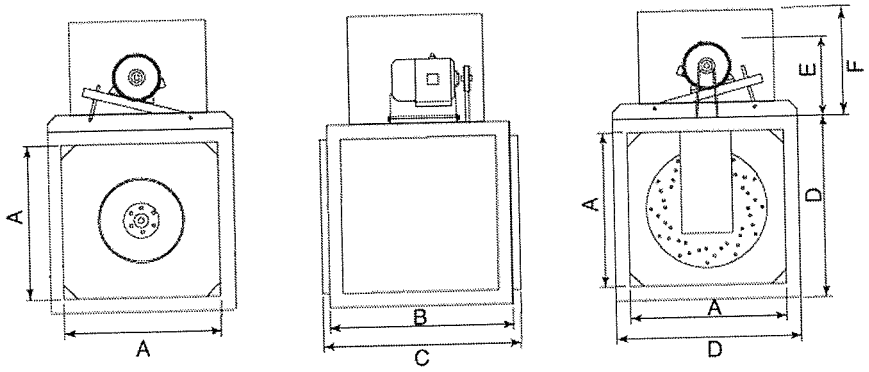
RPM TABLE

1	200	9	440
2	230	10	470
3	260	11	500
4	290	12	530
5	320	13	560
6	350	14	590
7	380	15	620
8	410	16	650
		17	680
		18	720
		19	740
		20	770

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

BELT DRIVE

Horizontal Discharge



Unit: mm

SCUBE-B	A	B	C	D	E_{Max}	$F^{Optional}$	KG*
SCUBE-300	400	500	550	470	380	420	32
SCUBE-425	550	650	700	650	420	460	62
SCUBE-500	650	780	830	750	460	500	85
SCUBE-575	750	880	950	850	460	500	102
SCUBE-675	900	950	1020	1000	500	550	129
SCUBE-750	1000	980	1050	1100	500	550	143
SCUBE-900	1200	1030	1100	1300	550	600	199
SCUBE-1000	1350	1080	1050	1450	550	600	222

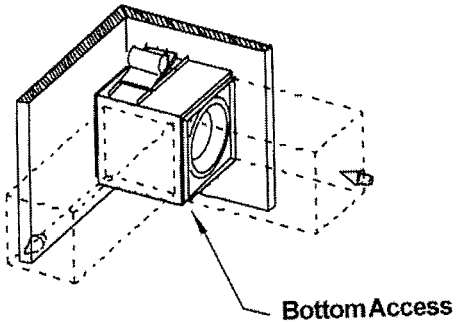
The weight in the above table does not include motor weight

Motor Weight Table

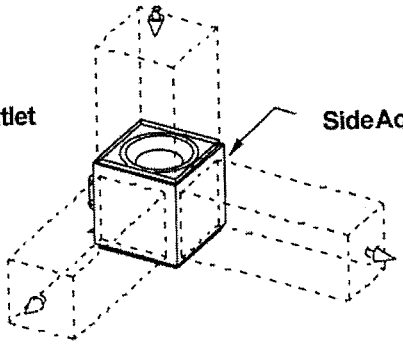
Power(Kw)	Motor Weight (Kg)			
	2 P	4 P	6 P	8 P
0,18	14	13,5	14	16
0,25	14,5	14	14,5	17
0,37	15	14,5	16	24
0,55	15,5	15	17	28
0,75	15	16	22	30
1,1	16	21	24	32
1,5	21	23	32	40
2,2	24	33	41	64
3	33	35	63	78
4	41	41	72	105
5,5	63	65	81	115
7,5	70	76	118	145
11	110	118	145	160
15	122	137	180	235
18,5	142	170	231	290

INSTALLATION

Optional: Side outlet



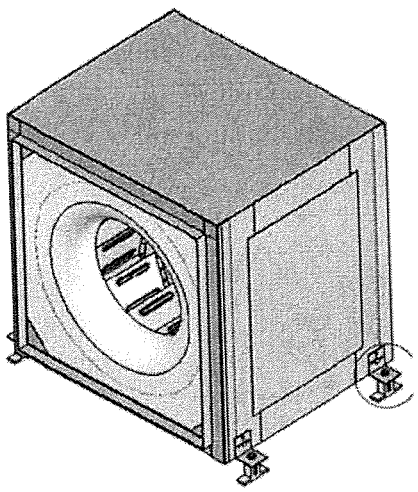
Optional: 2 Sides outlet

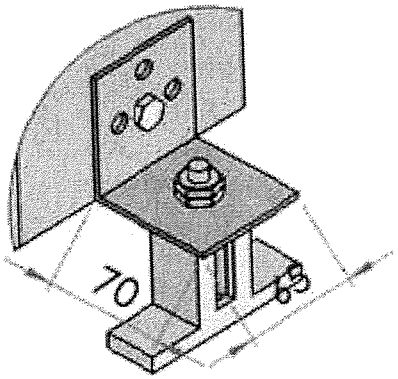


Mounting SCUBE fan

SCUBE is provided with four universal mounting feet, which can be mounted on the top of the fan to connect hanging vibration isolators through threaded rods. The feet can also be mounted on the bottom of the fan for floor-mounted vibration isolators. Meanwhile, the motor can be located on top, side or bottom.
These feet are shipped loose for field installation in the desired location.

SCUBE configuration allows air to exit from any one side except the motor & motor oppsite side of the unit at jobsite. Remove the side panel of the desired outlet direction, change it to flange, and seal the original flange, all the above can be easily finished by contractors at jobsite.





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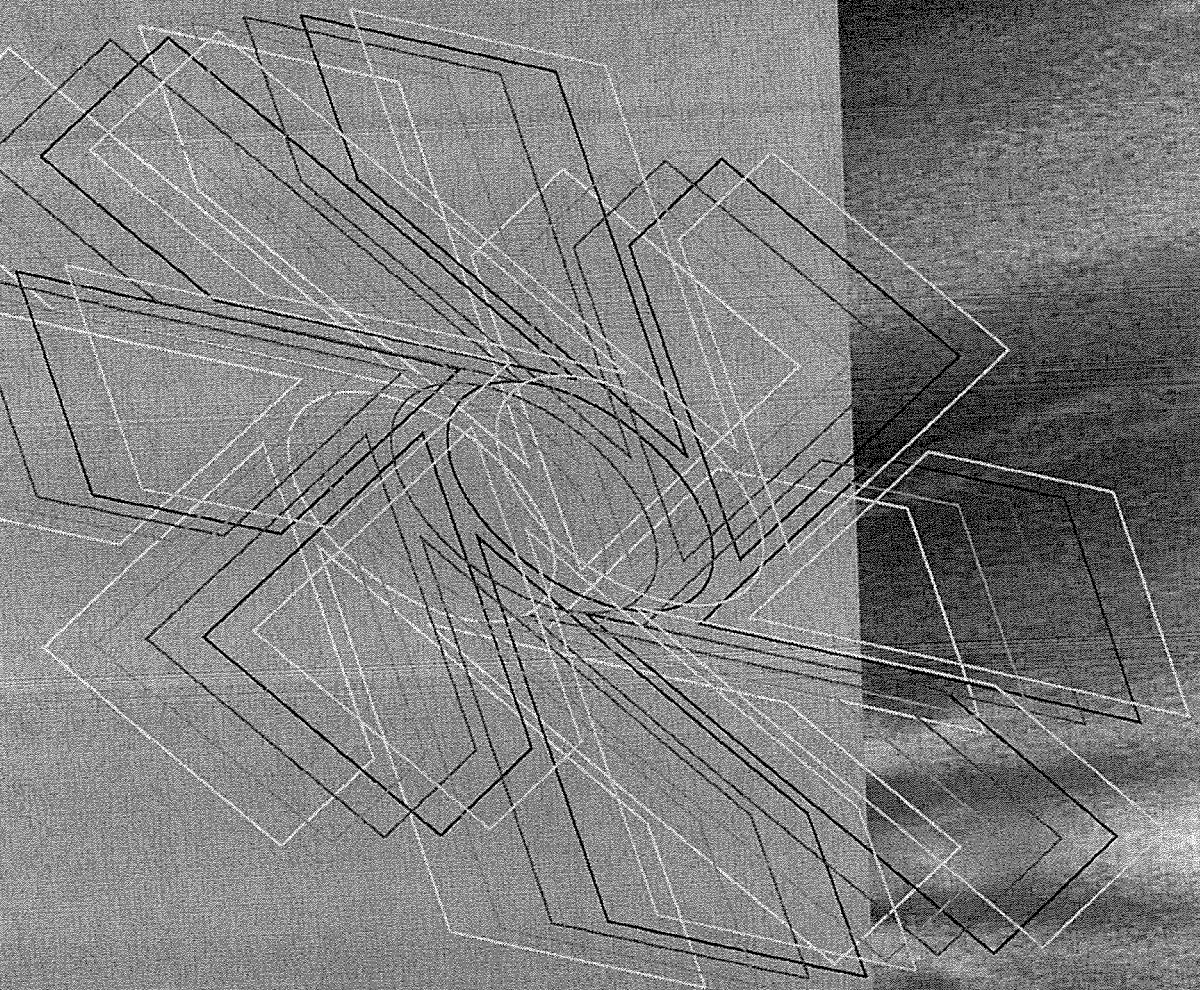
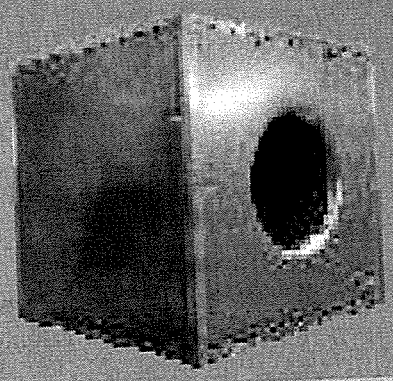




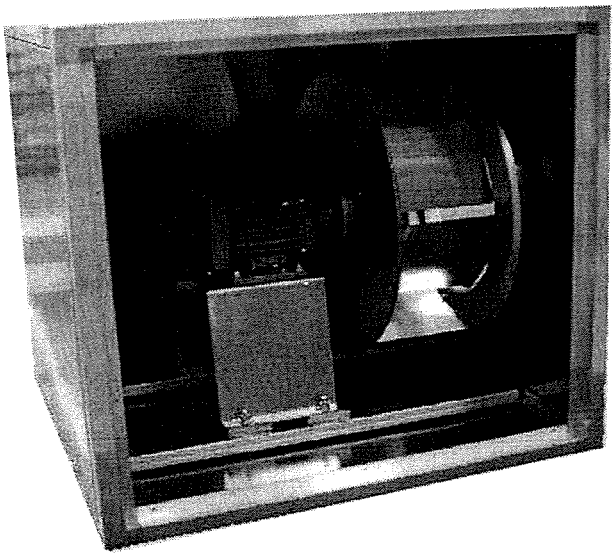
DYNAIR

CATALOGUE - SCUBE
APRIL 2009

SCUBE

Square Inline Centrifugal Fan

DYNAIR®



PRODUCT FEATURES

Wide performance range and more economic

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Centrifugal In-line: Low Noise

Compare with axial/mixed flow fans rotation speed is reduced by 20-30%.
The sound pressure level range is reduced by 10-15dB (A).
Fundamental way to reduce noise.

Plug Fan Structure

Plug Fan directly suck air into wheel and pressurize: air flow pattern improved.

AMCA Seal: Sound and Air Performance Certified

The sound and air performance is approved by AMCA.
Sound and Air Performance Seal is applied to each fan.

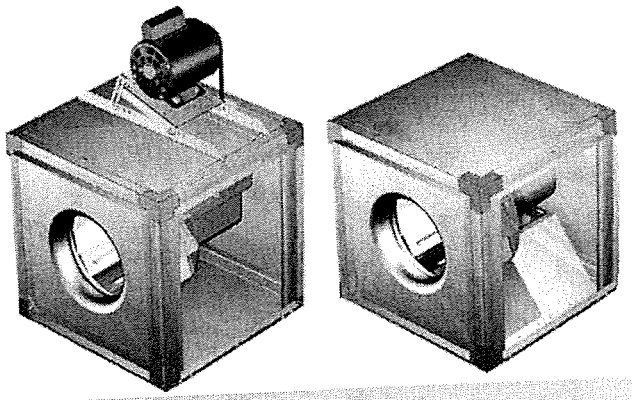
Design

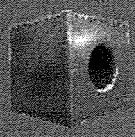
Square inlet/outlet sleeve flange as standard accessories: round/sqaure convention duct is not needed.
Duct Connection cost reduced, and jobsite working time saved.
Motor can be multi-position.
Multi- Discharge: More convenient and flexible for design and construction.

amca CERTIFIED RATINGS SOUND and AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®

AMCA Sound & Air Performance Seal

Dynair Gulf FZCO Certifies that the model SCUBE shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed with AMCA Publication 211 and AMCA 311 and comply with the requirements of the AMCA Certified Ratings Program





PRODUCT SPECIFICATION

Belt Driven
SCUBE series fans are designed to provide ventilation solution for ducted system. These fans are widely use in square duct as clean air booster for both supply or exhaust system.

Housing
The Housing is constructed of aluminium panel and aluminum profile with a rigid internal steel member. The panel can able to with stand the weight of motor and drive. The profile of the housing shall be square basically,with regular sleeves flange to avoid round/square transducer duct. The housing have optional discharge direction.The motor can be replaced easily from the larger acess door without removing the ready made duct.

Impeller
The impeller is backward curved centrifugal type and its direclty inclined to airflow.The venturi guides the airflow smoothly with low noise at inlet.The impeller is balanced statically and dynamically to level G2.5 as per ISO standards No. 1940

Shaft
The fan shaft shall be heat treated through soaking furnace to the hardness level of HB370, and the surface shall be hard film corrosion treated. The fan shaft shall be balanced together with the wheel. And the shaft design speed shall at least exceed 25% of the maximum fan operation speed.

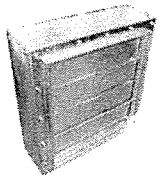
Pulleys
The fan pulleys shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of cast iron type, keyed and securely attached to the wheel and motor shafts. Conical (QD) type bushings shall be equipped for easy removal of the pulleys.

Bearings
The bearings shall be selected for a minimum (L-10) life in excess of 80,000 hours at maximum cataloged operating speed.Bearing type shall be permanently sealed, re-lubricable pillow block metal ball bearings. Drive support: drive assemblies shall be supported by heavy gauge powder coated steel. The belt tension shall be adjusted through motor support plate, the design shall make sure the fan shaft and motor shaft is always parallel.

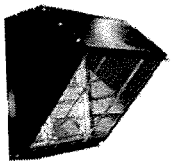
Motor
Motor shall be carefully matched to the fan load, IP 55, and insulation class F. The motor bearings shall be ball type and need no lubrication.

Quality Standards
Square Inline Centrifugal fans shall be tested and approved according to AMCA standard 210 & 300,each Fan shall have AMCA Sound & Air Performance Seal.The manufacturer shall be certified by ISO9001:2000.

OPTIONAL ACCESSORIES



Back-draft Damper
Professional back-draft damper include inlet/outlet flange and combined box which insures the blade open properly. The damper is installed separately from the fan body.

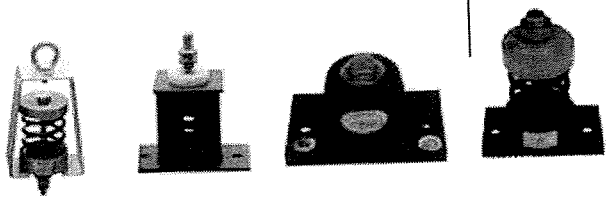


45° Weather Cover (With bird screen)
When fan mounted outdoor, it prevents rain into indoor effectively from inlet or outlet

Motor Cover (Belt drive only)
With discharge window to exhaust heat, extend motor life and reduce motor noise.

Acoustical Housing
Apply high class acoustical material inside the fan casing to reduce sound pressure level at about 6~8 dB(A).

Vibration isolators
Vibration isolators can be hung or floor-mounted, material can be neoprene or spring type.



REFERENCE CODE

Discharge direction is decided by facing the fan

SCUBE ① 300 ② B 4 ③ 0.25 ④ (MPDF) ⑤

Motor position/Discharge

Optional Discharge : Left / Right → Discharge direction based on facing the fan inlet.

0.25 Kw : Motor Power → Motor Power see the Motor table

B4 : Belt Drive with 4 pole Motor

300 : Diamteter of the Impeller 300mm

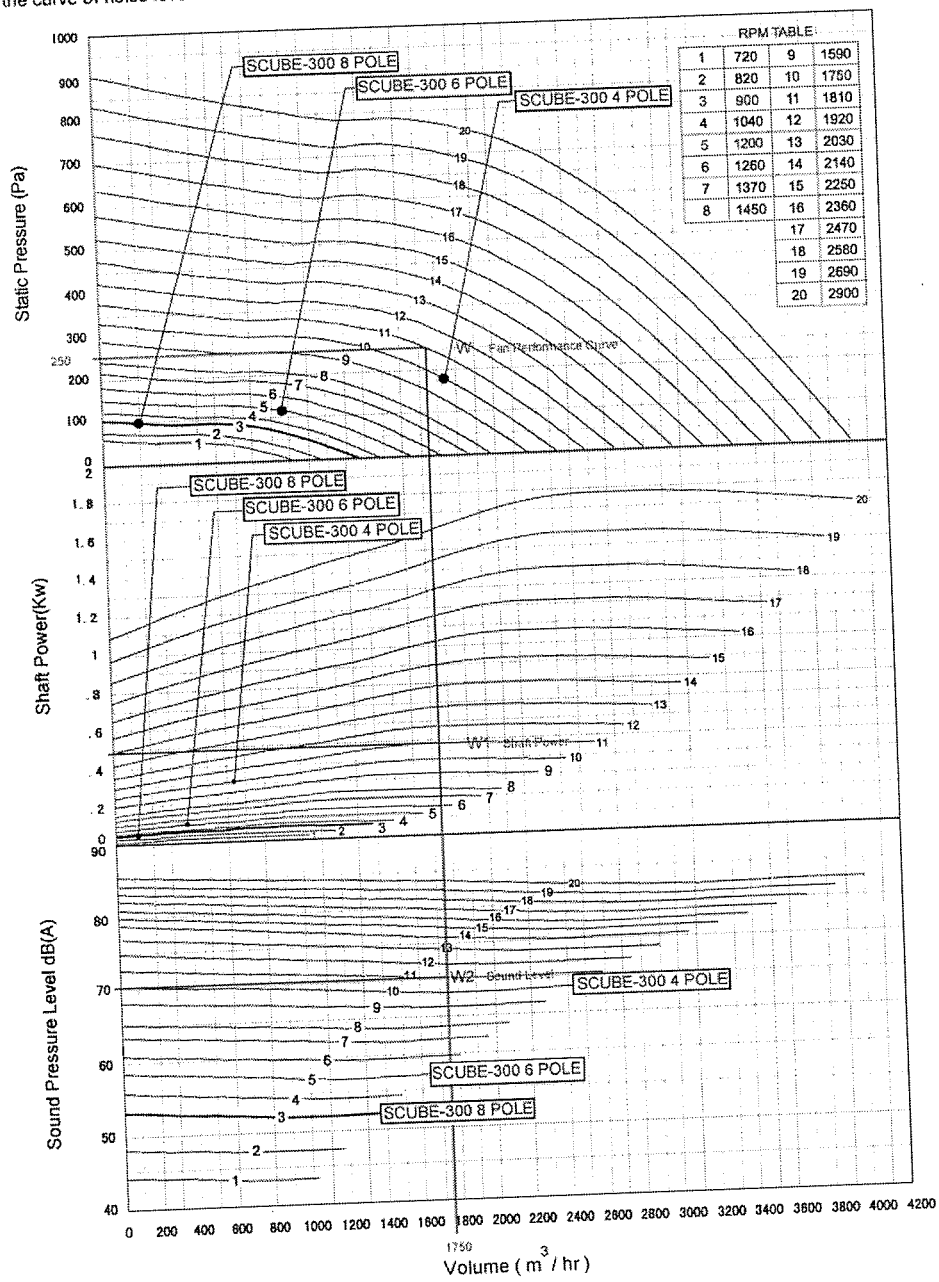
Model : SCUBE - Square Inline Centrifugal Fan

L	R	F	E
Left discharge	Right discharge	With Filter section	Epoxy coated

EXAMPLE OF CURVE READING

Terminology of Performance curve

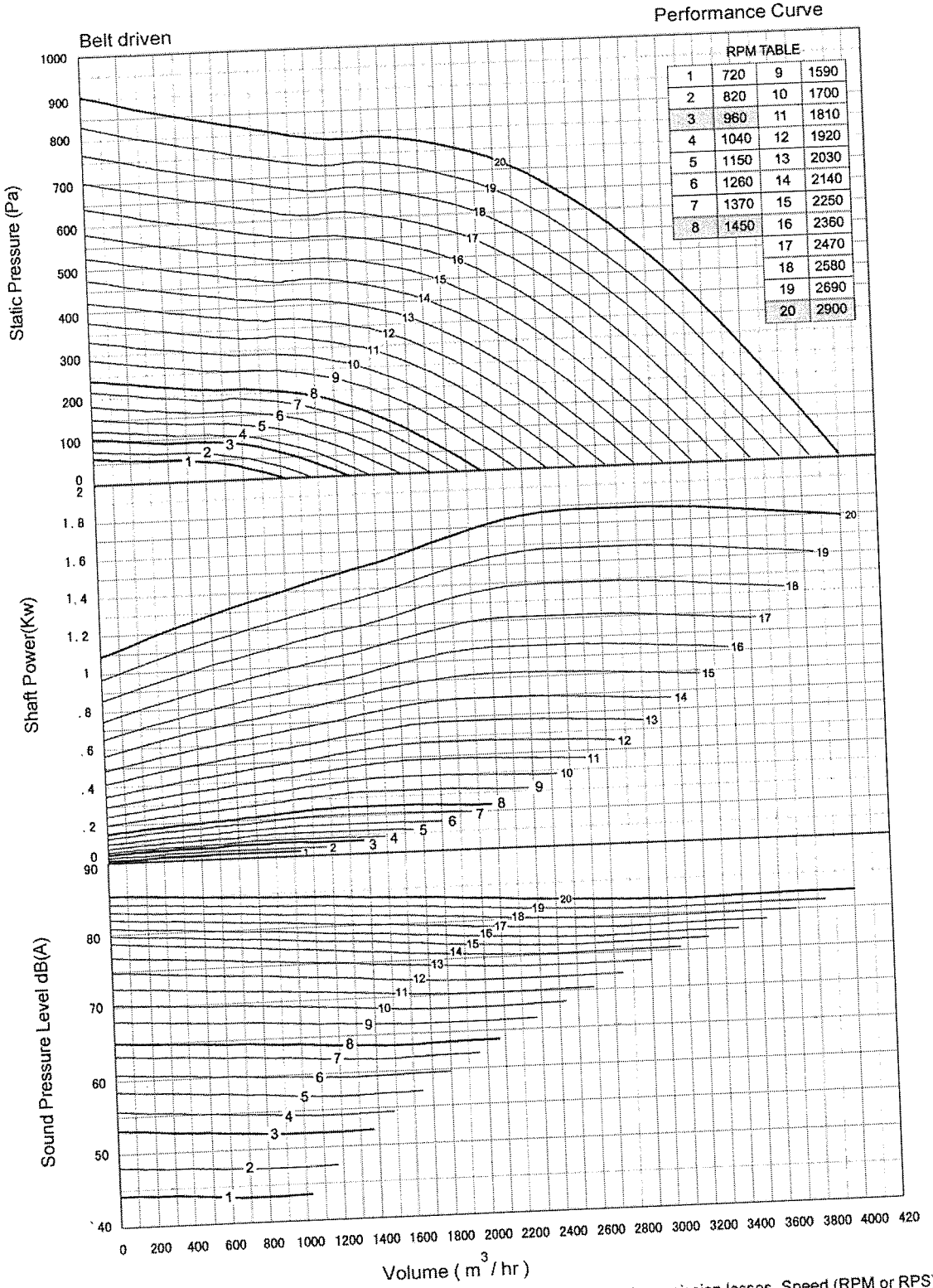
Each Fan performance cuve shows a group of different RPM.
The dark curves shows the fan is direct drive which means the motor is fixed directly on the impeller.It is denoted with suffix letter D followed by motor pole number.
The attached table shows the motor RPM at different number of poles.
The other curves denotes of belt drive.Belt drive models achieved by variotion of RPM using Motor and shaft Pulley,while the motor will be always 4 pole.
Second Table shows the curve of actual power consumption.
Third table shows the curve of noise level at a distance of 1.5 meter.



Example : 1750 m3 / hr , 250 Pa Static Pressure.
Step 1 : From the given Volme (1750 m3 / hr) draw a vertical line upwards and from given static static Pessure 250 Pa draw a horizotal line to the right intersection point W is the working point. Find a fan curve close to the point,which be curve No.11.As in RPM table its s the working point 1810.
Step 2 : The intersection point between vertical line on the curve No 11 in shaft Power is W1.Drawing a horizontal line towards shaft power, value will be (approx 0.50 Kw) According to Shaft Power ,motor selected will be 0.75 Kw.
Step 3 : The intersection point the vertical line on the curve will be No.11 in sound Pressure is W2.Drawing a horizontal line from towards the sound pressure,value will be (approx 70 dB (A).Its the fan sound Pressure level.
Step 4 : According to above 3 steps, fan selected is (FCS - 300 - 0.75) ,belt drive and the RPM selected is 1810.
Step 5 : Further customer has option of using direct drive (e.g) 4 POLE -1750 rpm,the nearest rpm curve 10 can give the respective static pressure and CFM characterstics.

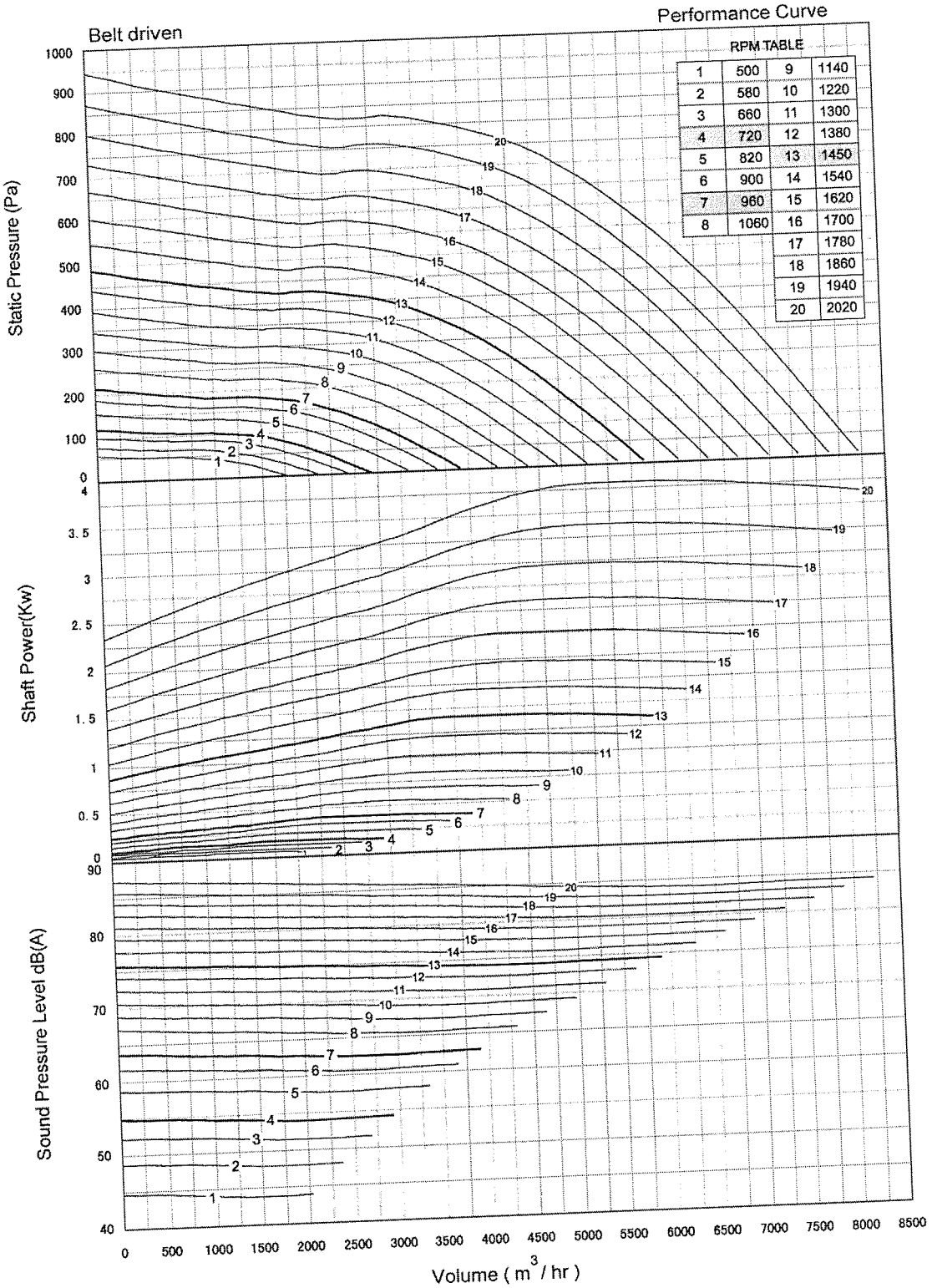
SCUBE - 300

Performance Curve



Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SCUBE 425



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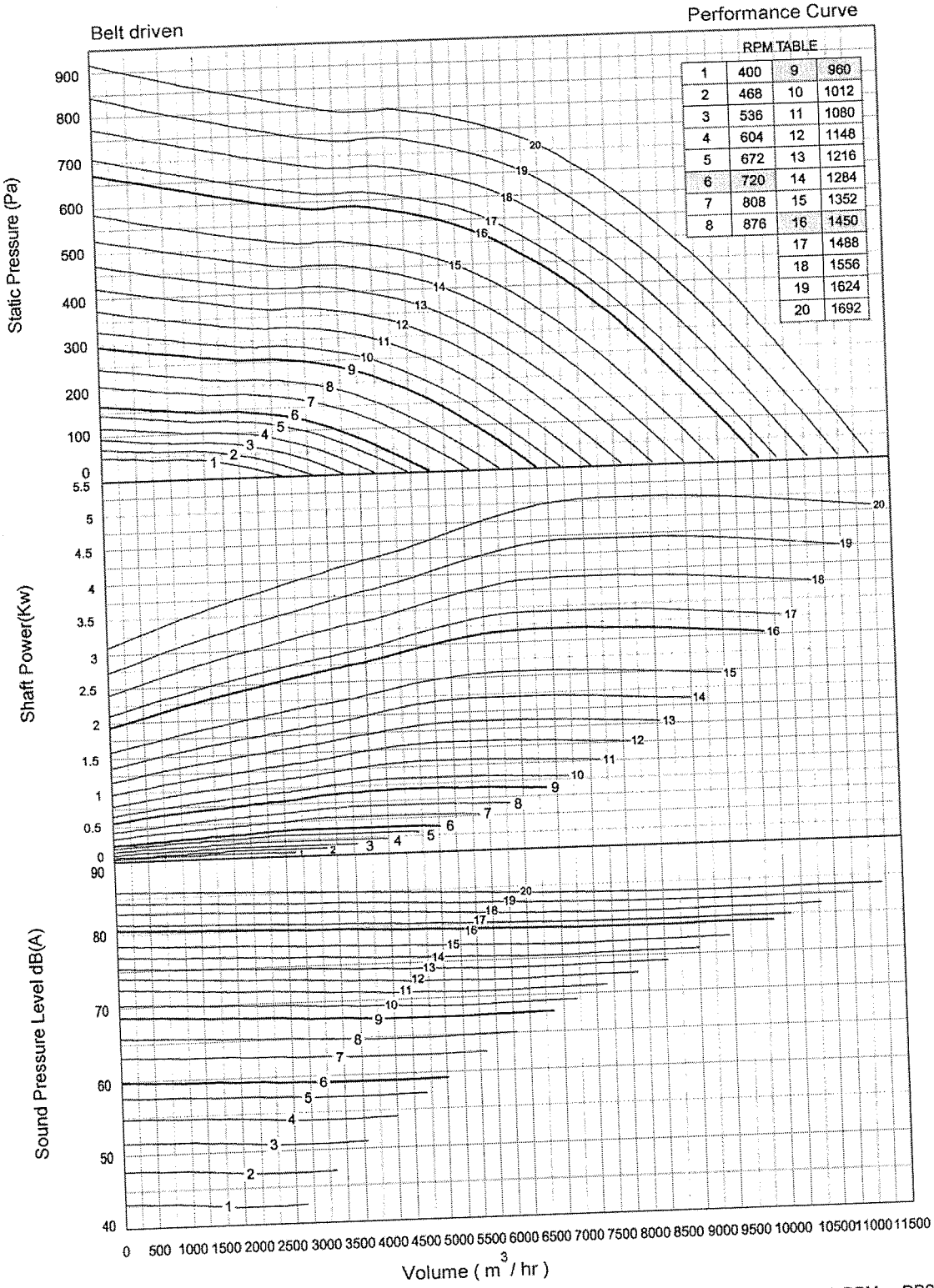
SCUBE - 500

Belt driven

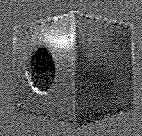
Performance Curve



RPM TABLE

1	400	9	960
2	468	10	1012
3	536	11	1080
4	604	12	1148
5	672	13	1216
6	720	14	1284
7	808	15	1352
8	876	16	1450
		17	1488
		18	1556
		19	1624
		20	1692

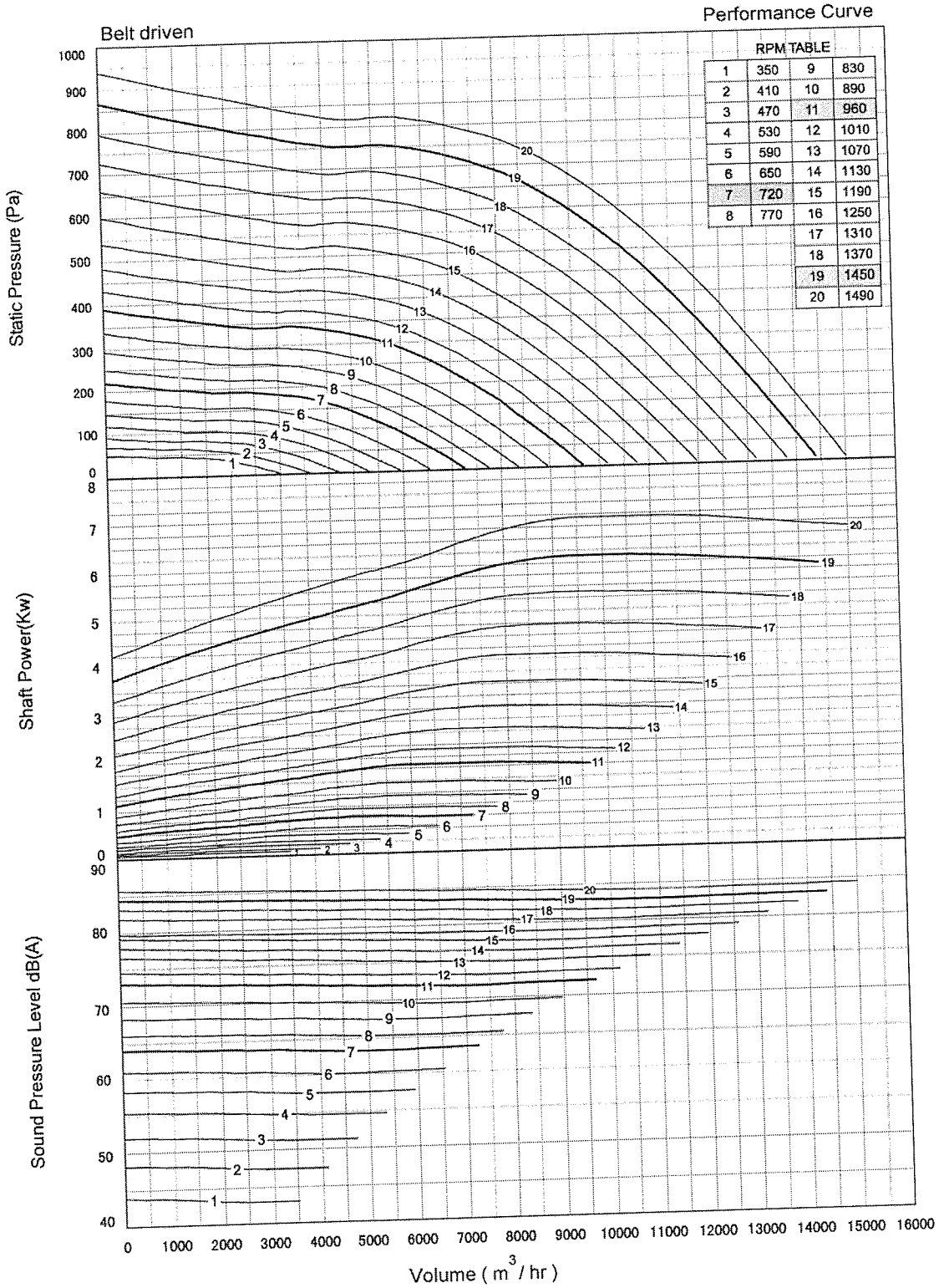
Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



SCUBE 575

Performance Curve

Belt driven



RPM TABLE

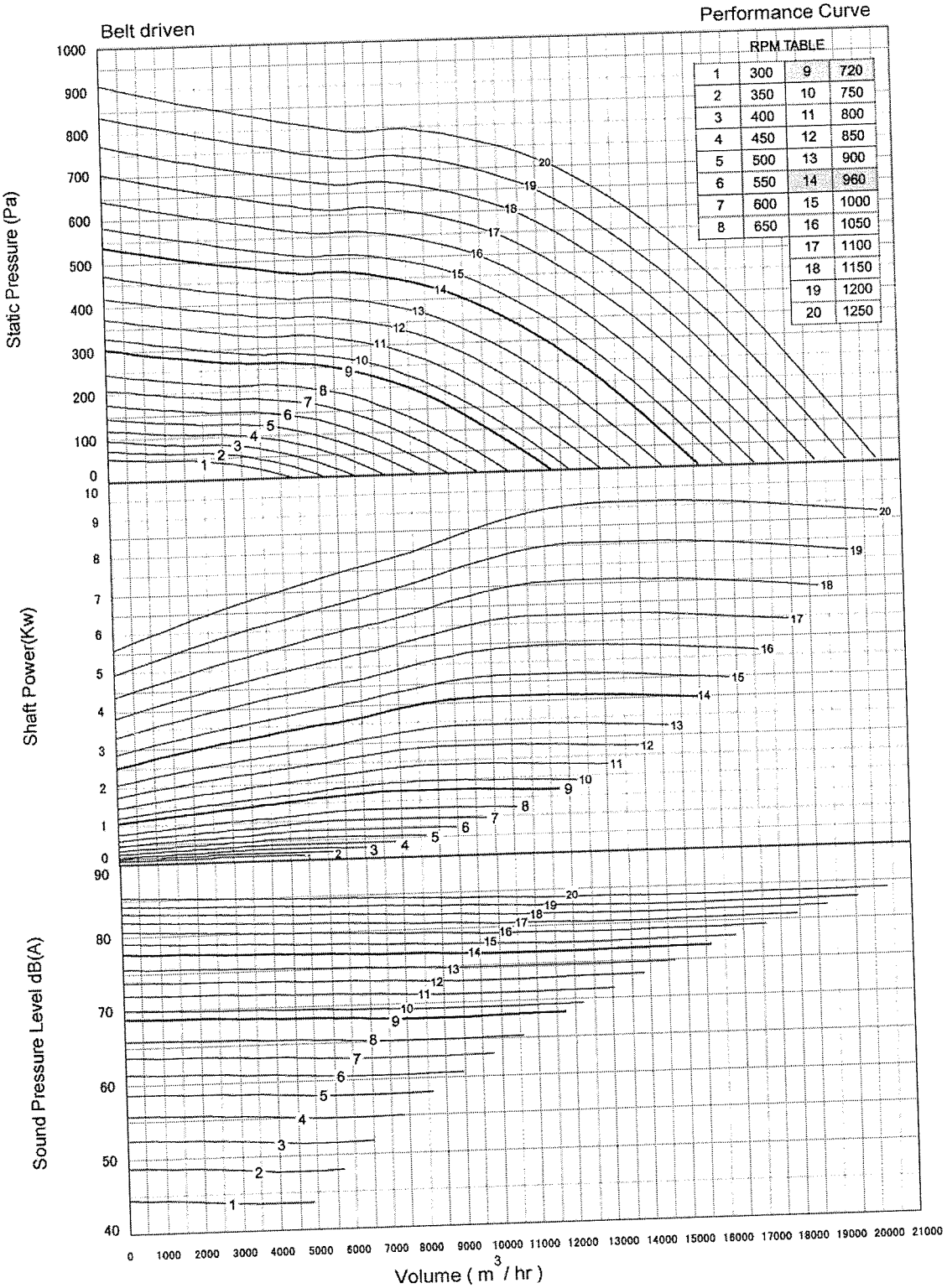
1	350	9	830
2	410	10	890
3	470	11	960
4	530	12	1010
5	590	13	1070
6	650	14	1130
7	720	15	1190
8	770	16	1250
		17	1310
		18	1370
		19	1450
		20	1490

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

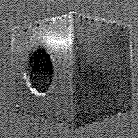
SCUBE - 675

Performance Curve

Belt driven



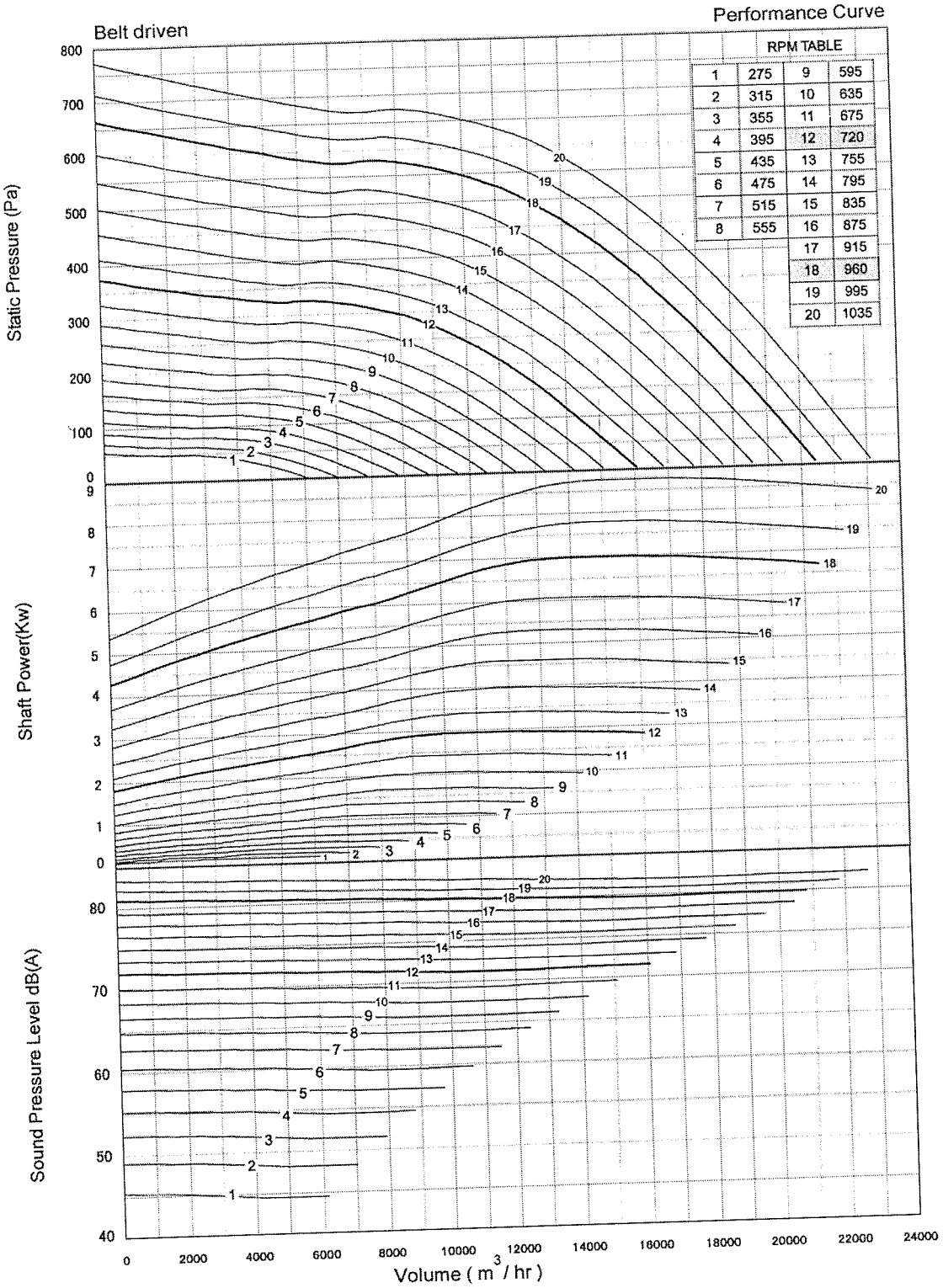
Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



SCUBE 750

Belt driven

Performance Curve



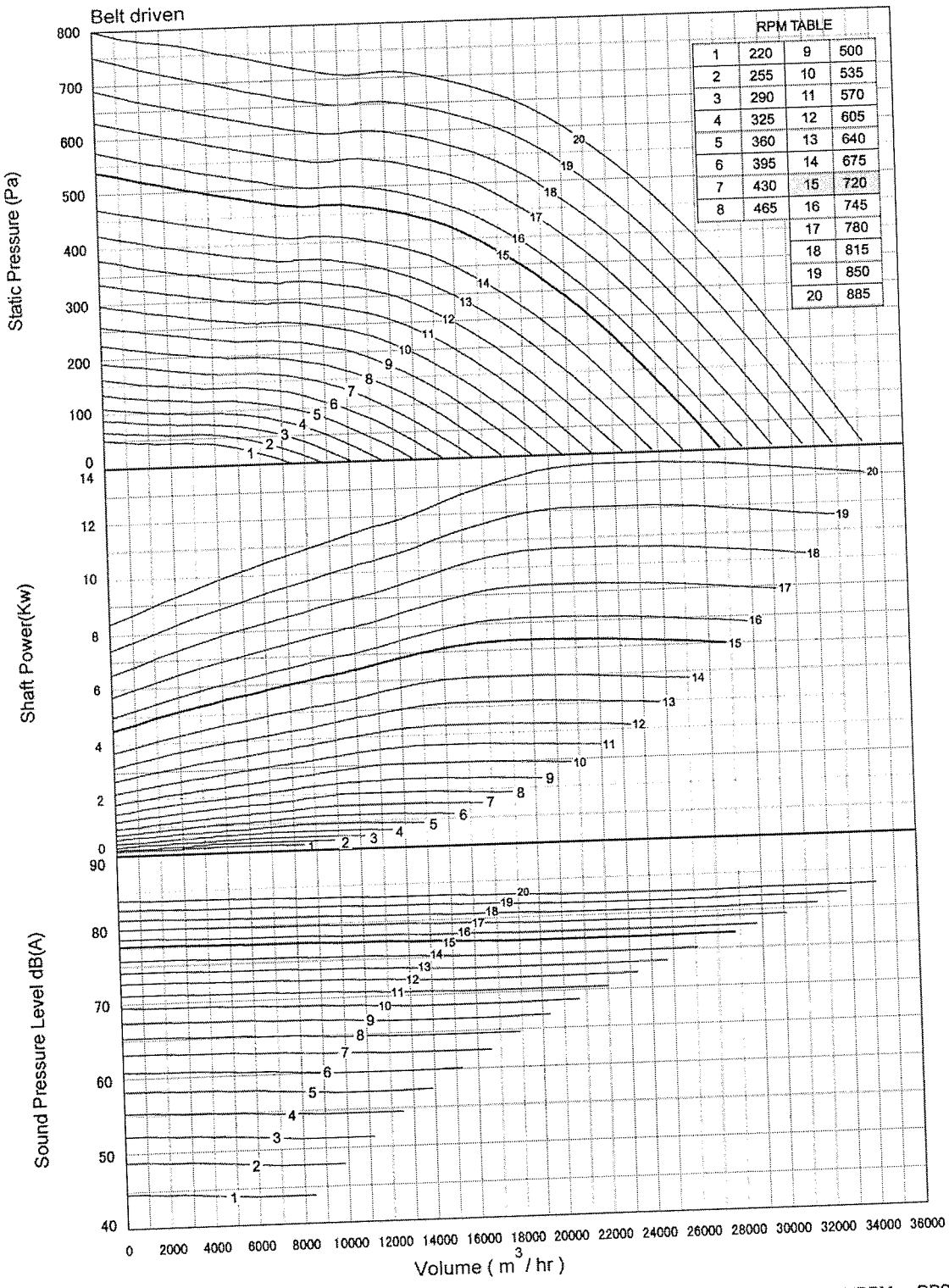
RPM TABLE

1	275	9	595
2	315	10	635
3	355	11	675
4	395	12	720
5	435	13	755
6	475	14	795
7	515	15	835
8	555	16	875
		17	915
		18	960
		19	995
		20	1035

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SCUBE - 900

Performance Curve

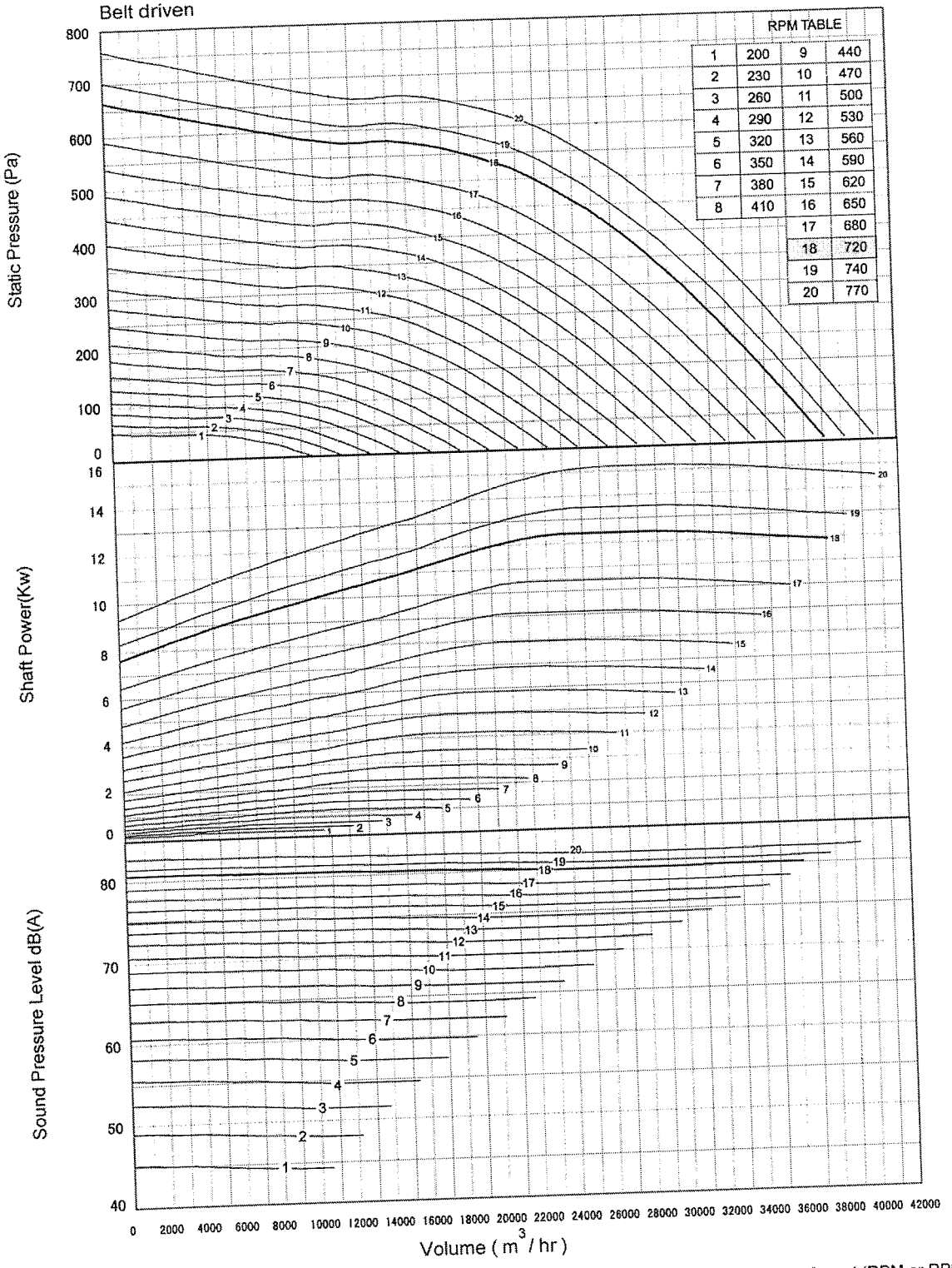


Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SCUBE 1000

Performance Curve

Belt driven



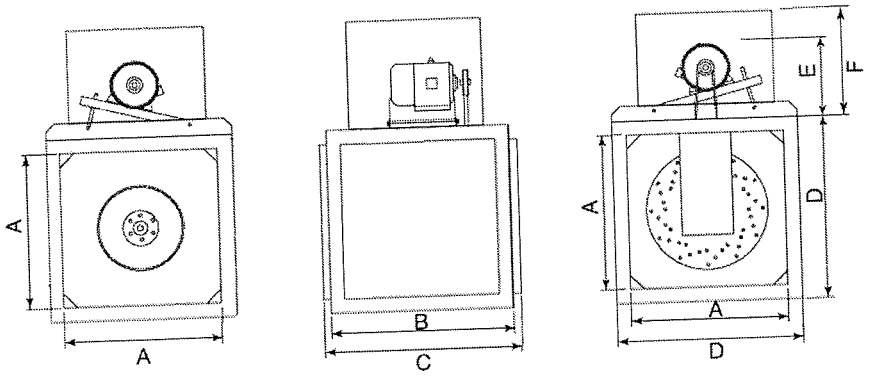
RPM TABLE

1	200	9	440
2	230	10	470
3	260	11	500
4	290	12	530
5	320	13	560
6	350	14	590
7	380	15	620
8	410	16	650
		17	680
		18	720
		19	740
		20	770

Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

BELT DRIVE

Horizontal Discharge



Unit: mm

SCUBE-B	A	B	C	D	E_{Max}	$F^{Optional}$	KG*
SCUBE-300	400	500	550	470	380	420	32
SCUBE-425	550	650	700	650	420	460	62
SCUBE-500	650	780	830	750	460	500	85
SCUBE-575	750	880	950	850	460	500	102
SCUBE-675	900	950	1020	1000	500	550	129
SCUBE-750	1000	980	1050	1100	500	550	143
SCUBE-900	1200	1030	1100	1300	550	600	199
SCUBE-1000	1350	1080	1050	1450	550	600	222

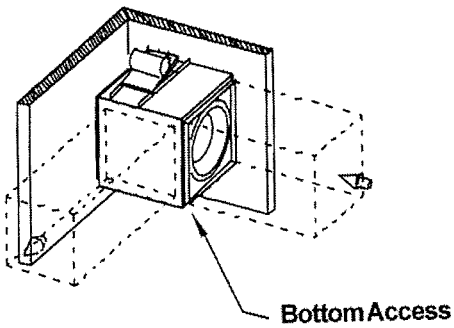
The weight in the above table does not include motor weight

Motor Weight Table

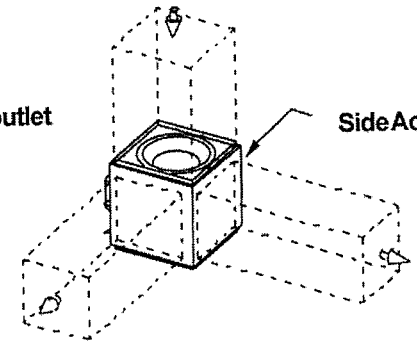
Power(Kw)	Motor Weight (Kg)			
	2 P	4 P	6 P	8 P
0,18	14	13,5	14	16
0,25	14,5	14	14,5	17
0,37	15	14,5	16	24
0,55	15,5	15	17	28
0,75	15	16	22	30
1,1	16	21	24	32
1,5	21	23	32	40
2,2	24	33	41	64
3	33	35	63	78
4	41	41	72	105
5,5	63	65	81	115
7,5	70	76	118	145
11	110	118	145	160
15	122	137	180	235
18,5	142	170	231	290

INSTALLATION

Optional: Side outlet



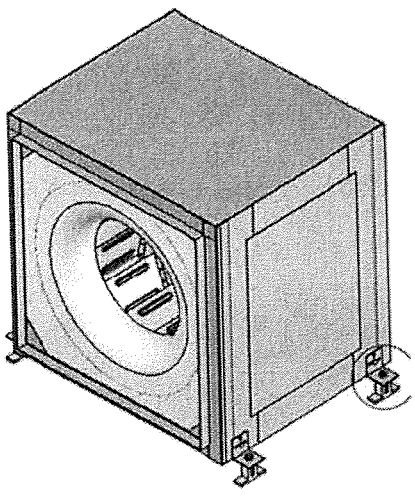
Optional: 2 Sides outlet

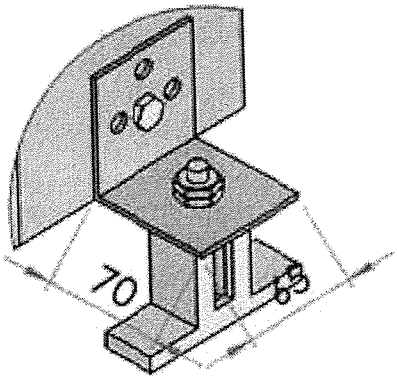


Mounting SCUBE fan

SCUBE is provided with four universal mounting feet, which can be mounted on the top of the fan to connect hanging vibration isolators through threaded rods. The feet can also be mounted on the bottom of the fan for floor-mounted vibration isolators. Meanwhile, the motor can be located on top, side or bottom.
These feet are shipped loose for field installation in the desired location.

SCUBE configuration allows air to exit from any one side except the motor & motor oppsite side of the unit at jobsite. Remove the side panel of the desired outlet direction, change it to flange, and seal the original flange, all the above can be easily finished by contractors at jobsite.





SOUND DATA

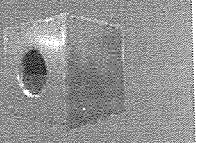
SCUBE - 300

		SOUND POWER - OCTAVE BANDS									
RPM	VOLUME	1	2	3	4	5	6	7	8	LwiA	dB(A)
720	1029	69	63	58	52	48	44	40	36	56	44
	727	69	62	57	52	48	44	40	37	55	43
	408	70	62	57	52	50	45	40	36	56	44
	0	72	62	57	53	50	45	40	36	56	44
820	1172	73	67	62	56	51	48	44	40	59	47
	828	73	66	62	56	52	48	44	40	59	47
	464	76	66	61	56	53	49	44	40	60	48
	0	78	66	61	56	54	49	44	40	60	48
960	1373	77	72	67	61	55	52	48	44	64	52
	970	78	71	67	60	56	52	48	44	64	52
	544	82	71	66	59	57	54	48	44	64	52
	0	85	71	66	59	58	54	48	44	65	53
1040	1487	79	74	69	63	58	54	50	47	67	55
	1050	81	73	69	62	58	55	50	47	66	54
	589	85	73	69	61	59	56	50	48	67	55
	0	88	73	69	61	60	57	50	46	68	56
1150	1644	81	77	71	66	61	57	53	49	69	57
	1162	83	77	71	65	61	57	53	49	69	57
	651	87	77	71	65	62	59	53	49	70	58
	0	91	77	71	64	62	60	53	49	70	58
1260	1801	83	80	73	69	63	60	56	52	72	60
	1273	84	80	73	68	64	60	56	52	71	59
	713	89	80	73	68	64	61	56	52	72	60
	0	92	81	73	67	65	62	56	51	73	61
1370	1959	84	82	76	72	66	62	58	54	74	62
	1384	86	82	76	71	66	62	58	54	74	62
	776	90	84	76	70	66	63	59	54	74	62
	0	94	85	75	70	66	64	59	54	75	63
1450	2073	85	84	78	74	67	63	60	56	76	64
	1465	87	84	77	73	67	64	60	55	75	63
	821	91	86	77	72	67	65	60	55	76	64
	0	95	87	77	72	68	66	61	55	77	65
1590	2273	87	87	81	76	70	66	62	58	79	67
	1606	88	87	80	76	70	66	62	58	78	66
	900	93	90	80	75	70	67	63	58	79	67
	0	96	91	80	75	70	68	63	58	80	68
1700	2431	88	89	83	78	72	67	64	60	81	69
	1717	89	89	82	78	72	68	64	60	80	68
	962	94	92	82	78	71	69	65	60	81	69
	0	97	94	82	77	71	70	66	60	82	70
1810	2588	89	91	85	80	74	69	66	62	82	70
	1828	91	91	84	80	73	70	66	61	82	70
	1025	95	95	84	80	73	71	67	62	83	71
	0	99	97	84	79	73	72	68	61	85	73
1920	2745	90	92	87	82	76	71	67	63	84	72
	1939	92	93	86	82	75	71	67	63	84	72
	1087	96	97	86	82	74	72	69	63	85	73
	0	100	100	86	81	74	73	69	63	87	75
2030	2902	91	94	89	84	78	72	69	65	86	74
	2050	93	95	88	84	76	73	69	65	86	74
	1149	97	99	87	83	76	74	70	65	87	75
	0	101	102	87	83	76	75	71	64	89	77
2140	3060	92	95	90	85	79	73	70	66	87	75
	2161	93	96	89	85	78	74	71	66	87	75
	1212	98	101	89	85	77	75	72	66	89	77
	0	101	104	89	85	77	76	73	66	91	79
2250	3217	93	96	92	86	81	75	72	68	89	77
	2273	94	97	91	86	79	76	72	67	88	76
	1274	99	102	91	86	79	76	73	68	90	78
	0	102	105	91	86	78	77	74	68	92	80
2360	3374	94	97	93	87	82	76	73	69	90	78
	2384	95	98	92	87	81	77	73	69	90	78
	1336	100	103	93	87	80	78	75	69	91	79
	0	103	106	93	87	80	78	75	69	93	81
2470	3531	95	98	94	88	84	78	74	70	91	79
	2495	96	99	94	88	82	78	74	70	91	79
	1398	100	103	95	88	82	79	76	70	92	80
	0	104	107	95	88	82	79	77	70	94	82
2580	3689	95	98	96	89	85	79	75	71	92	80
	2606	97	100	95	89	84	79	76	71	92	80
	1461	101	104	96	89	83	80	77	72	93	81
	0	105	108	97	89	83	80	78	72	95	83
2690	3846	96	99	97	90	86	80	76	73	93	81
	2717	97	100	97	90	85	80	77	72	93	81
	1523	102	105	98	90	85	81	78	73	95	83
	0	105	108	99	90	84	81	79	73	96	84
2900	4003	97	100	98	92	87	82	77	74	94	82
	2628	98	101	98	91	86	81	78	74	94	82
	1585	103	106	100	91	86	82	79	74	96	84
	0	106	109	101	91	86	82	80	74	97	85

SCUBE - 425

		SOUND POWER - OCTAVE BANDS									
RPM	VOLUME	1	2	3	4	5	6	7	8	LwiA	dB(A)
500	2033	69	64	58	52	49	45	41	37	56	44
	1436	68	64	56	53	49	45	41	37	56	44
	805	68	64	56	54	50	45	41	37	56	44
	0	67	63	56	55	51	45	41	37	57	45
580	2358	73	67	62	56	53	49	45	41	60	48
	1666	72	67	61	57	53	49	45	41	60	48
	934	73	67	60	58	55	49	45	41	60	48
	0	73	67	60	58	55	49	45	41	61	49
660	2683	77	70	66	60	56	53	49	45	64	52
	1895	77	70	65	61	57	52	48	45	64	52
	1062	78	70	65	61	58	53	48	44	64	52
	0	79	70	64	61	59	53	48	44	64	52
720	2927	79	73	69	63	59	55	51	47	66	54
	2068	79	73	68	63	59	55	51	47	66	54
	1159	81	73	68	63	60	56	51	47	66	54
	0	82	73	67	63	61	56	51	47	67	55
820	3333	83	77	73	67	62	59	55	51	70	58
	2355	84	77	72	66	63	59	54	51	70	58
	1320	86	77	72	66	64	60	54	50	70	58
	0	88	76	72	66	64	60	54	50	71	59
900	3659	86	80	76	70	64	61	57	53	73	61
	2585	87	80	75	69	65	61	57	53	73	61
	1449	90	79	75	68	66	62	57	53	73	61
	0	92	79	75	69	67	63	57	53	74	62
960	3902	86	82	78	72	66	63	59	55	75	63
	2757	89	82	77	70	67	63	59	55	74	62
	1545	92	81	77	70	68	64	59	55	75	63
	0	95	81	77	70	69	65	59	55	76	64
1060	4309	91	86	81	75	69	66	62	58	78	66
	3044	92	85	81	73	70	66	61	58	77	65
	1706	96	84	80	72	70	67	61	57	78	66
	0	100	84	80	72	71	68	61	57	79	67
1140	4634	92	88	82	77	71	68	64	60	80	68
	3274	93	87	82	75	72	68	63	60	79	67
	1835	97	87	82	75	72	69	64	59	80	68
	0	101	87	82	75	73	70	64	59	81	69
1220	4959	93	90	83	79	73	69	65	62	81	69
	3503	94	89	83	78	73	70	65	61	81	69
	1964	99	90	83	77	74	71	66	61	82	70
	0	102	90	83	77	74	72	66	61	83	71
1300	5285	94	92	85	81	75	71	67	63	83	71
	3733	95	91	85	80	75	71	67	63	83	71
	2093	100	92	85	79	75	73	68	63	84	72
	0	103	93	84	79	76	73	68	63	84	72
1380	5610	95	93	87	83	77	73	69	65	85	73
	3963	96	93	87	82	77	73	69	65	85	73
	2221	101	95	86	81	77	74	69	65	85	73
	0	104	96	86	81	77	75	70	65	86	74
1460	5894	96	95	88	84	78	74	70	66	86	74
	4164	97	95	88	83	78	74	70	66	86	74
	2334	102	97	88	83	78	76	71	66	87	75
	0	105	98	88	83	78	76	71	66	88	76
1540	6260	97	96	90	86	80	75	72	68	88	76
	4422	98	97	90	85	80	76	72	68	88	76
	2479	103	99	90	85	80	77	73	68	89	77
	0	106	101	90	85	80	78	73	68	90	78
1620	6585	98	98	92	88	81	77	73	69	90	78
	4652	99	98	91	87	81	77	73	69	89	77
	2608	104	101	91	87	81	78	74	69	90	78
	0	107	103	91	86	81	79	75	69	91	79
1700	6911	99	99	93	89	83	79	75	71	91	79
	4882	100	100	93	89	82	79	75	70	91	79
	2736	104	103	93	88	82	80	76	70	92	80
	0	108	105	93	88	82	80	76	70	93	81
1780	7236	100	101	95	90	84	79	76	72	93	81
	5112	101	101	94	90	83	80	76	72	92	80
	2885	105	105	94	90	83	81	77	72	93	81
	0	109	107	94	89	83	82	78	72	95	83
1860	7561	100	102	96	92	86	80	77	73	94	82
	5341	102	103	96	91	84	81	77	73	94	82
	2994	106	106	95	91	84	82	78	73	95	83
	0	110	109	95	91	84	83	79	73	96	84
1940	7886	101	103	98	93	87	81	78	74	95	83
	5571	102	104	97	93	88	82	78	74	95	83
	3123	107	108	97	93	85	83	80	74	96	84
	0	110	111	96	92	85	84	80	74	98	86
2020	8211	102	104	99	94	88	83	79	75	96	84
	5801	103	105	98	94	87	83	80	75	96	84
	3252	107	109	98	94	86	84	81	75	98	86
	0	111	113	98	94	86	85	82	75	99	87

Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels. referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



SOUND DATA

SCUBE - 500

RPM	VOLUME	SOUND POWER - OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
400	2648	66	62	56	51	48	44	40	36	55	43
	1870	66	61	55	52	48	44	40	36	54	42
	1048	66	61	55	53	49	44	40	36	55	43
	0	66	61	56	54	49	43	39	35	55	43
468	3098	71	67	61	55	52	48	44	40	59	47
	2188	71	67	60	56	52	48	44	41	59	47
	1227	70	66	59	57	53	48	44	40	59	47
	0	70	66	59	58	54	48	44	40	60	48
536	3548	76	71	65	59	56	52	48	44	63	51
	2506	75	71	63	60	56	51	48	44	63	51
	1405	75	71	63	61	58	52	48	44	63	51
	0	74	71	62	61	58	51	47	43	64	52
604	3998	79	73	68	63	59	55	51	47	66	54
	2824	79	73	67	63	59	55	51	47	66	54
	1583	79	73	67	64	61	55	51	47	66	54
	0	80	73	66	64	61	55	51	47	67	55
672	4448	82	76	72	66	62	58	54	50	69	57
	3142	82	76	71	66	62	58	54	50	69	57
	1761	83	76	70	66	63	59	54	50	69	57
	0	84	75	70	67	64	59	54	50	70	58
720	4766	84	78	74	68	63	60	56	52	71	59
	3367	84	78	73	68	64	60	56	52	71	59
	1887	86	78	72	68	65	61	56	52	71	59
	0	87	78	72	68	66	61	56	52	72	60
808	5348	88	82	77	71	66	63	59	55	75	63
	3778	88	81	77	71	67	63	59	55	74	62
	2118	90	81	76	71	68	64	59	55	75	63
	0	92	81	76	71	69	64	59	55	75	63
876	5798	90	84	80	74	69	65	61	57	77	65
	4096	91	84	79	73	69	65	61	57	77	65
	2296	94	84	79	73	70	67	61	57	77	65
	0	96	83	79	73	71	67	61	57	78	66
960	6354	93	87	83	77	71	68	64	60	80	68
	4489	94	87	82	75	72	68	64	60	79	67
	2516	97	86	82	75	73	69	64	60	80	68
	0	100	86	82	75	73	70	63	59	81	69
1012	6699	94	89	84	78	72	69	65	61	81	69
	4732	95	88	84	77	73	69	65	61	81	69
	2653	99	88	84	76	74	71	65	61	82	70
	0	102	88	84	76	75	72	65	61	82	70
1080	7149	96	91	86	80	74	71	67	63	83	71
	5050	97	90	86	79	75	71	67	63	83	71
	2831	101	90	86	78	76	73	67	63	83	71
	0	105	90	86	78	77	74	67	63	84	72
1148	7599	97	93	87	82	76	73	69	65	85	73
	5368	98	92	87	81	77	73	68	65	84	72
	3009	103	92	87	80	77	74	69	65	85	73
	0	106	93	87	80	78	75	69	64	86	74
1216	8049	98	95	88	84	78	74	70	66	86	74
	5686	99	94	88	82	78	75	70	66	86	74
	3187	104	95	88	82	79	76	71	66	87	75
	0	107	95	88	82	79	77	71	66	87	75
1284	8499	99	96	89	85	79	76	72	68	88	76
	6004	100	96	89	84	80	76	72	68	87	75
	3366	104	97	89	84	80	77	72	68	88	76
	0	108	98	89	84	81	78	72	67	89	77
1352	8949	100	98	91	87	81	77	73	69	89	77
	6322	101	97	91	86	81	77	73	69	89	77
	3544	105	99	91	85	81	79	74	69	90	78
	0	109	100	91	85	82	79	74	69	90	78
1450	9598	101	100	93	89	83	79	75	71	91	79
	6780	102	100	93	88	83	79	75	71	91	79
	3801	107	101	93	88	83	81	76	71	92	80
	0	110	103	93	88	83	81	76	71	93	81
1488	9849	101	100	94	90	84	79	76	72	92	80
	6958	103	101	94	89	84	80	76	72	92	80
	3900	107	102	94	89	84	81	77	72	93	81
	0	111	104	93	88	84	82	77	72	93	81
1556	10300	102	102	96	91	85	81	77	73	93	81
	7276	103	102	95	91	85	81	77	73	93	81
	4078	108	104	95	90	85	82	78	73	94	82
	0	111	106	95	90	85	83	78	73	95	83
1624	10750	103	103	97	93	86	82	78	74	95	83
	7594	104	103	96	92	86	82	78	74	94	82
	4257	109	106	96	92	86	83	79	74	95	83
	0	112	108	96	91	86	84	80	74	96	84
1692	11200	104	104	98	94	88	83	79	75	96	84
	7912	105	105	98	93	87	84	79	75	96	84
	4435	109	107	97	93	87	85	81	75	97	85
	0	113	110	97	93	87	85	81	75	98	86

SCUBE - 575

RPM	VOLUME	SOUND POWER - OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
350	3523	66	62	56	52	48	44	40	36	55	43
	2489	66	61	56	53	48	44	41	37	55	43
	1395	66	61	56	54	49	44	40	36	55	43
	0	66	61	57	55	49	44	40	36	56	44
410	4127	71	67	61	56	53	49	45	41	60	48
	2916	71	66	60	57	53	48	45	41	59	47
	1634	71	66	60	58	54	49	45	41	60	48
	0	71	66	60	59	54	48	44	40	60	48
470	4731	76	71	65	60	56	52	48	45	63	51
	3343	75	71	64	61	57	52	49	45	63	51
	1874	75	71	64	62	58	52	48	44	64	52
	0	75	70	64	62	58	52	48	44	64	52
530	5336	80	75	69	63	60	56	52	48	67	55
	3769	79	75	67	64	60	55	52	48	67	55
	2113	78	75	67	65	61	56	52	48	67	55
	0	78	74	66	65	62	55	51	47	67	55
590	5940	83	77	72	66	63	59	55	51	70	58
	4196	82	77	71	67	63	58	55	51	70	58
	2352	83	77	70	67	64	59	55	51	70	58
	0	83	77	70	68	65	59	54	50	70	58
650	6544	86	79	75	69	65	61	57	53	72	60
	4623	85	79	74	69	65	61	57	54	72	60
	2591	86	79	73	70	67	62	57	53	73	61
	0	87	79	73	70	68	62	57	53	73	61
720	7248	89	82	78	72	68	64	60	56	75	63
	5120	89	82	77	72	68	64	60	56	75	63
	2870	90	82	77	72	69	65	60	56	76	64
	0	92	82	76	73	70	65	60	56	76	64
770	7752	91	84	80	74	69	66	62	58	77	65
	5476	91	84	79	74	70	66	62	58	77	65
	3070	93	84	79	74	71	67	62	58	78	66
	0	95	84	79	74	72	67	62	58	78	66
830	8356	93	87	82	76	71	68	64	60	80	68
	5903	93	86	82	76	72	68	64	60	79	67
	3309	96	86	81	76	73	69	64	60	80	68
	0	98	86	81	76	74	70	64	60	80	68
890	8960	95	89	85	79	73	70	66	62	82	70
	6329	95	89	84	78	74	70	66	62	81	69
	3548	98	88	84	77	75	71	66	62	82	70
	0	101	88	84	77	76	72	66	62	82	70
960	9664	97	92	87	81	75	72	68	64	84	72
	6827	98	91	87	80	76	72	68	64	84	72
	3827	101	91	86	79	77	74	68	64	84	72
	0	104	90	86	79	78	74	68	64	85	73
1010	10168	98	93	88	82	77	73	69	66	85	73
	7183	99	92	88	81	78	74	69	66	85	73
	4026	103	92	88	80	78	75	69	65	86	74
	0	107	92	88	80	79	76	69	65	87	75
1070	10772	100	95	90	84	78	75	71	67	87	75
	7610	101	94	90	83	79	75	71	67	87	75
	4265	106	94	90	82	80	77	71	67	87	75
	0	109	94	90	82	81	78	71	67	89	77
1130	11376	101	97	91	86	80	76	73	69	89	77
	8036	102	96	91	84	81	77	72	69	88	76
	4505	107	96	91	84	81	78	73	68	89	77
	0	110	96	91	84	82	79	72	68	90	78
1190	11980	102	98	92	87	81	78	74	70	90	78
	8463	103	98	92	86	82	78	74	70	90	78
	4744	107	98	92	85	82	80	74	70	90	78
	0	111	98	92	85	83	80	74	70	91	79
1250	12584	103	100	93	89	83	79	75	71	91	79
	8890	104	99	93	88	83	79	75	71	91	79
	4983	106	100	93	87	83	80	76	71	91	79
	0	108	100	93	87	84	81	76	71	92	80
1310	13188	104	101	94	90	84	80	77	73	93	81
	9316	105	101	94	89	84	81	76	73	92	80
	5222	108	102	94	89	85	82	77	72	93	81
	0	113	103	94	88	85	83	77	72	94	82
1370	13792	104	102	96	92	86	82	78	74	94	82
	9743	105	102	95	91	86	82	78	74	94	82
	5461	110	104	95	90	86	83	78	74	94	82
	0	113	105	95	90	86	84	79	73	95	83
1450	14396	105	104	97	93	87	83	79	75	95	83
	10170	106	103	97	92	87	83	79	75	95	83
	5701	111	105	97	92	87	84	80	75	96	84
	0	114	107	96	91	87	85	80	75	96	84
1490	15000	106	105	98	94	88	84	80	76	96	84
	10597	107	105	98	93	88	84	80	76	96	84
	5940	111	107	98	93	88	85	81	76	97	85
	0	115	108	98	93	88	86	81	76	98	86

Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SOUND DATA

SCUBE - 675

RPM	VOLUME	SOUND POWER - OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
300	4886	67	62	56	53	49	45	41	37	56	44
	3451	67	61	57	53	49	45	41	38	56	44
	1935	67	61	57	55	49	45	41	37	56	44
	0	67	60	58	55	49	45	41	37	56	44
350	5700	71	67	61	57	53	49	45	41	60	48
	4027	71	66	61	57	53	49	45	42	60	48
	2257	71	66	61	59	54	49	45	41	60	48
	0	71	65	62	59	54	49	45	41	61	49
400	6514	75	71	65	60	57	53	49	45	64	52
	4602	75	71	65	61	57	53	49	45	64	52
	2580	75	70	65	62	58	53	49	45	64	52
	0	75	70	65	63	58	53	49	45	64	52
450	7329	79	75	69	64	60	56	52	48	67	55
	5177	79	74	68	64	60	56	52	49	67	55
	2902	78	74	67	65	61	56	52	48	67	55
	0	78	74	67	66	62	56	52	48	68	56
500	8143	83	78	72	66	63	59	55	51	70	58
	5752	82	78	70	67	63	59	55	51	70	58
	3224	82	78	70	68	65	59	55	51	70	58
	0	81	77	70	69	65	59	55	51	71	59
550	8957	86	80	75	69	66	62	58	54	73	61
	6328	85	80	73	70	66	61	58	54	73	61
	3547	85	80	73	70	67	62	57	53	73	61
	0	85	80	72	71	68	61	57	53	73	61
600	9771	88	82	77	72	68	64	60	56	75	63
	6903	88	82	76	72	68	64	60	56	75	63
	3869	88	82	76	73	70	64	60	56	75	63
	0	88	82	75	73	70	64	60	56	76	64
650	10586	90	84	80	74	70	66	62	58	77	65
	7478	90	84	79	74	70	66	62	59	77	65
	4192	91	84	78	75	72	67	62	58	78	66
	0	92	84	78	75	72	67	62	58	78	66
720	11726	93	87	83	77	73	69	65	61	80	68
	8284	93	87	82	77	73	69	65	61	80	68
	4643	95	87	82	77	74	70	65	61	80	68
	0	96	87	81	77	75	70	65	61	81	69
750	12214	95	89	84	78	74	70	66	62	82	70
	8629	95	88	83	78	74	70	66	62	81	69
	4837	97	88	83	78	75	71	66	62	82	70
	0	98	88	83	78	76	71	66	62	82	70
800	13029	97	91	86	80	75	72	68	64	83	71
	9204	97	90	85	80	76	72	68	64	83	71
	5159	99	90	85	80	77	73	68	64	84	72
	0	101	90	85	80	78	73	68	64	84	72
850	13843	98	93	88	82	77	74	70	66	85	73
	9779	99	92	87	81	78	74	69	66	85	73
	5482	102	92	87	81	79	75	69	65	85	73
	0	104	92	87	81	79	75	69	65	86	74
900	14657	100	94	90	84	78	75	71	67	87	75
	10354	101	94	89	83	79	75	71	67	87	75
	5804	104	94	89	83	80	76	71	67	87	75
	0	106	93	89	83	81	77	71	67	88	76
960	15834	102	96	92	86	80	77	73	69	89	77
	11045	103	96	91	84	81	77	73	69	89	77
	6191	106	95	91	84	82	78	73	69	89	77
	0	109	95	91	84	83	79	73	69	90	78
1000	16286	103	98	93	87	81	78	74	70	90	78
	11505	104	97	93	86	82	78	74	70	90	78
	6449	108	97	93	85	83	80	74	70	90	78
	0	111	97	92	85	84	80	74	70	91	79
1050	17100	104	99	94	88	82	79	75	71	91	79
	12080	106	98	94	87	83	80	75	71	91	79
	6771	110	96	94	86	84	81	75	71	92	80
	0	113	98	94	86	85	82	75	71	93	81
1100	17914	105	101	95	90	84	81	77	73	93	81
	12655	107	100	95	88	85	81	76	73	92	80
	7094	111	100	95	88	85	82	77	73	93	81
	0	115	100	95	87	86	83	76	72	94	82
1150	18729	106	102	96	91	85	82	78	74	94	82
	13231	107	101	96	90	86	82	78	74	94	82
	7418	112	102	96	89	86	84	78	74	94	82
	0	115	102	96	89	87	84	78	74	95	83
1200	19543	107	103	97	92	86	83	79	75	95	83
	13806	108	103	97	91	87	83	79	75	95	83
	7739	112	103	97	91	88	85	79	75	95	83
	0	116	104	97	90	88	85	79	75	96	84
1250	20357	108	104	98	94	88	84	80	76	96	84
	14381	109	104	98	93	88	84	80	76	96	84
	8061	113	105	97	92	89	86	80	76	96	84
	0	117	105	97	92	89	87	80	76	97	85

SCUBE - 750

RPM	VOLUME	SOUND POWER - OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
275	6143	69	63	57	54	50	46	42	38	56	44
	4340	69	61	58	54	49	46	42	39	56	44
	2433	68	61	59	56	50	46	42	38	57	45
	0	68	61	59	56	49	45	41	37	57	45
315	7037	71	67	61	57	53	50	46	42	60	48
	4971	71	66	61	58	53	49	46	42	60	48
	2787	71	65	62	59	54	49	45	41	61	49
	0	71	65	62	60	54	49	45	41	61	49
355	7931	75	71	65	61	57	53	49	45	63	51
	5603	75	70	65	61	57	53	49	45	63	51
	3140	74	69	65	62	57	53	49	45	64	52
	0	74	69	65	63	58	52	48	44	64	52
395	8824	78	74	68	63	60	56	52	48	67	55
	6234	78	73	67	64	60	56	52	48	66	54
	3494	78	73	67	65	61	56	52	48	67	55
	0	77	73	68	66	61	55	51	47	67	55
435	9718	81	77	71	66	62	58	54	50	69	57
	6865	81	77	70	67	62	58	55	51	69	57
	3848	81	76	70	68	64	58	54	50	70	58
	0	80	76	70	68	64	58	54	50	70	58
475	10611	84	80	73	68	65	61	57	53	72	60
	7496	83	79	72	69	65	60	57	53	72	60
	4202	83	79	72	70	66	61	57	53	72	60
	0	83	79	72	71	67	60	56	52	72	60
515	11505	87	82	76	70	67	63	59	55	74	62
	8128	86	82	74	71	67	63	59	55	74	62
	4556	86	82	74	72	69	63	59	55	74	62
	0	85	82	74	73	69	63	59	55	75	63
555	12399	89	84	78	72	69	65	61	57	76	64
	8759	88	84	77	73	69	65	61	57	76	64
	4910	88	84	76	74	71	65	61	57	76	64
	0	88	84	76	75	71	65	61	57	77	65
595	13292	91	85	80	74	71	67	63	59	78	66
	9390	90	85	79	75	71	67	63	59	78	66
	5264	91	85	78	76	73	67	63	59	78	66
	0	91	85	78	76	73	67	63	59	79	67
635	14186	93	86	82	76	73	69	65	61	80	68
	10021	93	86	81	77	73	69	65	61	80	68
	5617	93	86	81	77	74	69	65	61	80	68
	0	94	86	80	78	75	69	64	60	80	68
675	15079	95	88	84	78	74	70	66	63	82	70
	10653	95	88	83	78	75	70	66	63	81	69
	5971	96	88	83	79	76	71	66	62	82	70
	0	97	88	82	79	77	71	66	62	82	70
720	16085	97	90	86	80	76	72	68	64	84	72
	11363	97	90	85	80	76	72	68	64	83	71
	6369	98	90	85	80	78	73	68	64	84	72
	0	100	90	85	81	78	73	68	64	84	72
755	16867	98	92	88	82	77	74	70	66	85	73
	11915	98	92	87	81	78	73	69	66	85	73
	6679	100	91	86	81	79	74	69	65	85	73
	0	102	91	86	82	80	75	69	65	85	73
795	17760	100	94	89	83	78	75	71	67	86	74
	12547	100	93	88	83	79	75	71	67	86	74
	7033	102	93	88	83	80	76	71	67	87	75
	0	104	93	88	83	81	76	71	67	87	75
835	18654	101	95	91	85	80	76	72	68	88	76
	13178	101	95	90	84	80	76	72	68	88	76
	7387	104	94	90	84	81	77	72	68	88	76
	0	106	94	89	84	82	78	72	68	89	77
875	19547	102	97	92	86	81	78	74	70	89	77
	13809	103	96	92	85	82	78	73	70	89	77
	7741	106	96	91	85	83	79	73	69	89	77
	0	108	96	91	85	83	79	73	69	90	78
915	20441	104	98	93	87	82	79	75	71	91	79
	14440	104	97	93	86	83	79	75	71	90	78
	8094	108	97	93	86	84	80	75	71	91	79
	0	110	97	93	86	85	81	74	70	91	79
960	21446	105	100	95	89	83	80	76	72	92	80
	15151	106	99	95	88	84	80	76	72	92	80
	8492	109	99	94	87	85	82	76	72	92	80
	0	112	99	94	87	86	82	76	72	93	81
995	22228	106	101	96	90	84	81	77	73	93	81
	15703	107	100	96	89	85	81	77	73	93	81
	8802	111	100	96	88	86	83	77	73	93	81
	0	114	100	95	88	87	83	77	73	94	82
1035	23122	107	102	97	91	85	82	78	74	94	82
	16334	108	101	97	90	86	82	78	74	94	82
	9156	112	101	97	89	87	84	78	74	95	83
	0	116	101	97	89	88	85	78	74	95	83

Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels. referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

SOUND DATA

SCUBE - 900

RPM	VOLUME	SOUND POWER - OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
220	8493	68	62	57	53	49	45	41	37	56	44
	6000	67	61	57	53	49	45	42	38	56	44
	3363	67	61	58	54	49	45	41	37	56	44
	0	67	61	59	55	49	45	41	37	57	45
255	9844	72	66	60	57	53	49	45	41	60	48
	6954	72	65	61	58	53	49	46	42	60	48
	3898	72	64	62	59	53	49	45	41	60	48
	0	72	64	63	60	53	49	45	41	61	49
290	11195	75	70	64	61	57	53	49	45	63	51
	7909	75	69	65	61	56	53	49	46	63	51
	4433	75	68	65	63	57	53	49	45	64	52
	0	75	68	66	63	57	52	48	44	64	52
325	12546	77	74	68	64	60	56	52	48	67	55
	8863	77	72	68	64	60	56	52	49	67	55
	4968	77	72	68	65	60	56	52	48	67	55
	0	77	72	69	66	60	56	52	48	67	55
360	13897	81	77	71	66	63	59	55	51	69	57
	9818	81	76	71	67	63	59	55	51	69	57
	5503	80	75	71	68	63	59	55	51	70	58
	0	80	75	71	69	64	58	54	50	70	58
395	15248	84	80	73	69	65	61	57	53	72	60
	10772	83	79	73	69	65	61	57	54	72	60
	6038	83	78	73	71	66	61	57	53	72	60
	0	83	78	73	71	66	61	57	53	73	61
430	16599	87	82	76	71	68	64	60	56	74	62
	11727	86	82	75	72	68	63	60	56	74	62
	6573	86	81	75	73	69	63	59	55	75	63
	0	86	81	75	74	69	63	59	55	75	63
465	17951	89	85	78	73	70	66	62	58	77	65
	12681	88	84	77	74	70	65	62	58	77	65
	7108	88	84	77	75	71	66	62	58	77	65
	0	88	84	77	76	72	65	61	57	77	65
500	19302	91	87	81	75	72	68	64	60	79	67
	13635	91	87	79	76	72	67	64	60	79	67
	7643	90	86	79	77	73	68	64	60	79	67
	0	90	86	79	77	74	67	63	59	79	67
535	20653	94	89	83	77	74	70	66	62	81	69
	14590	93	89	81	78	74	69	66	62	81	69
	8178	92	89	80	79	75	69	65	61	81	69
	0	92	88	80	79	76	69	65	61	81	69
570	22004	95	90	85	79	75	71	67	63	82	70
	15544	95	90	83	79	76	71	67	64	82	70
	8713	95	90	83	80	77	71	67	63	83	71
	0	95	90	82	81	78	71	67	63	83	71
605	23355	97	91	86	81	77	73	69	65	84	72
	16499	97	91	85	81	77	73	69	65	84	72
	9248	97	91	85	82	79	73	69	65	84	72
	0	98	91	84	82	79	73	69	65	85	73
640	24706	99	92	88	82	78	75	71	67	86	74
	17453	98	92	87	83	79	74	70	67	85	73
	9783	99	92	88	83	80	75	70	66	86	74
	0	100	92	86	83	81	75	70	66	86	74
675	26057	100	94	90	84	80	76	72	68	87	75
	18408	100	94	89	84	80	76	72	68	87	75
	10318	101	94	88	84	81	77	72	68	87	75
	0	102	93	88	85	82	77	72	68	88	76
720	27794	102	96	92	86	81	78	74	70	89	77
	19635	102	96	91	86	82	78	74	70	89	77
	11006	104	96	90	86	83	78	74	70	89	77
	0	105	95	90	86	84	79	73	69	90	78
745	28759	103	97	93	87	82	79	75	71	90	78
	20317	103	97	92	87	83	79	75	71	90	78
	11388	105	97	91	87	84	79	75	71	90	78
	0	107	96	91	87	85	80	74	70	91	79
780	30111	105	99	94	88	83	80	76	72	91	79
	21271	105	98	93	88	84	80	76	72	91	79
	11923	107	98	93	88	85	81	76	72	92	80
	0	109	98	93	88	86	81	76	72	92	80
815	31462	106	100	95	90	85	81	77	73	93	81
	22226	106	99	95	89	85	81	77	73	92	80
	12458	109	99	94	89	86	82	77	73	93	81
	0	111	99	94	89	87	83	77	73	93	81
850	32813	107	101	97	91	86	82	78	74	94	82
	23180	108	101	96	90	86	82	78	75	94	82
	12993	110	101	96	90	87	83	78	74	94	82
	0	113	100	96	90	86	84	78	74	95	83
885	34184	108	103	98	92	87	83	79	75	95	83
	24135	109	102	98	91	88	84	79	76	95	83
	13528	112	102	97	91	88	85	79	75	95	83
	0	114	102	97	91	89	85	79	75	96	84

SCUBE - 1000

RPM	VOLUME	SOUND POWER - OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
200	10591	68	62	57	54	50	46	42	38	56	44
	7482	67	62	58	54	50	46	42	39	56	44
	4194	67	62	59	55	50	46	42	38	57	45
	0	67	62	60	55	49	45	41	37	57	45
230	12179	72	66	61	58	54	50	46	42	60	48
	8604	72	65	62	58	53	50	46	43	60	48
	4823	72	65	63	59	53	49	45	41	61	49
	0	71	65	63	60	53	49	45	41	61	49
260	13768	76	70	64	61	57	53	49	45	64	52
	9726	76	68	65	61	57	53	49	46	64	52
	5452	76	68	66	63	57	53	49	45	64	52
	0	75	68	67	63	57	53	49	45	65	53
290	15357	78	73	67	64	60	56	52	48	67	55
	10849	78	72	68	64	60	56	52	49	67	55
	6081	78	71	69	66	60	56	52	48	67	55
	0	78	71	69	66	60	56	52	48	67	55
320	16945	80	76	70	67	63	59	55	51	69	57
	11971	80	75	71	67	62	59	55	51	69	57
	6710	80	75	71	68	63	59	55	51	70	58
	0	80	74	71	69	63	58	54	50	70	58
350	18534	83	79	73	69	65	61	57	53	72	60
	13093	83	78	73	69	65	61	57	54	72	60
	7339	83	78	73	71	66	61	57	53	72	60
	0	83	77	74	71	66	61	57	53	73	61
380	20122	86	82	75	71	67	63	59	55	74	62
	14215	85	81	75	72	67	63	60	56	74	62
	7968	85	80	75	73	68	63	59	55	75	63
	0	85	80	75	74	68	63	59	55	75	63
410	21711	88	84	78	73	69	66	62	58	76	64
	15338	88	83	77	74	69	65	62	58	76	64
	8597	88	83	77	75	70	65	61	57	77	65
	0	87	83	77	76	71	65	61	57	77	65
440	23300	90	86	80	75	71	67	63	60	78	66
	16460	90	86	79	76	71	67	64	60	78	66
	9226	90	85	79	77	73	67	63	59	79	67
	0	89	85	79	77	73	67	63	59	79	67
470	24888	93	88	82	77	73	69	65	61	80	68
	17582	92	88	81	77	73	69	65	62	80	68
	9855	92	87	80	78	75	69	65	61	81	69
	0	91	87	80	79	75	69	65	61	81	69
500	26477	95	90	84	78	75	71	67	63	82	70
	18704	94	90	82	79	75	71	67	63	82	70
	10485	94	90	82	80	76	71	67	63	82	70
	0	93	89	82	81	77	71	67	63	83	71
530	28065	96	92	86	80	77	73	69	65	84	72
	19827	95	92	84	81	77	72	69	65	84	72
	11114	95	91	83	81	78	72	68	64	84	72
	0	95	91	83	82	79	72	68	64	84	72
560	29654	98	93	87	81	78	74	70	66	85	73
	20949	97	93	86	82	78	74	70	66	85	73
	11743	97	93	85	83	80	74	70	66	85	73
	0	97	92	85	84	80	74	70	66	86	74
590	31243	100	94	89	83	79	76	72	68	87	75
	22071	99	94	87	84	80	75	71	68	86	74
	12372	99	93	87	84	81	76	71	67	87	75
	0	100	93	87	85	82	76	71	67	87	75
620	32831	101	94	90	84	81	77	73	69	88	76
	23193	101	94	89	85	81	77	73	69	88	76
	13001	101	94	89	85	82	77	73	69	88	76
	0	102	94	88	86	83	77	73	69	88	76
650	34420	102	96	92	86	82	78	74	70	89	77
	24316	102	96	91	86	82	78	74	70	89	77
	13630	103	96	90	86	84	79	74	70	89	77
	0	104	96	90	87	84	79	74	70	90	78
680	36009	104	97	93	87	83	79	75	71	91	79
	25438	104	97	92	87	84	79	75	72	90	78
	14259	105	97	92	88	85	80	75	71	91	79
	0	106	97	91	88	86	80	75	71	91	79
720	38127	105	99	95	89	85	81	77	73	92	80
	26934	105	99	94	89	86	81	77	73	92	80
	15098	107	99	94	89	86	82	77	73	92	80
	0	108	99	93	89	87	82	77	73	93	81
740	39186	108	100	96	90	85	82	78	74	93	81
	27682	108	100	95	90	86	82	78	74	93	81
	15517	109	100	94	90	87	82	78	74	93	81
	0	110	99	94	90	88	83	77	73	94	82
770	40774	107	101	97	91	86	83	79	75	94	82
	28805	108	101	96	91	87	83	79	75	94	82
	16146	110	101	96	91	88	84	79	75	94	82
	0	111	101	96	91	89	84	78	74	95	83

Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels. referred to as 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.