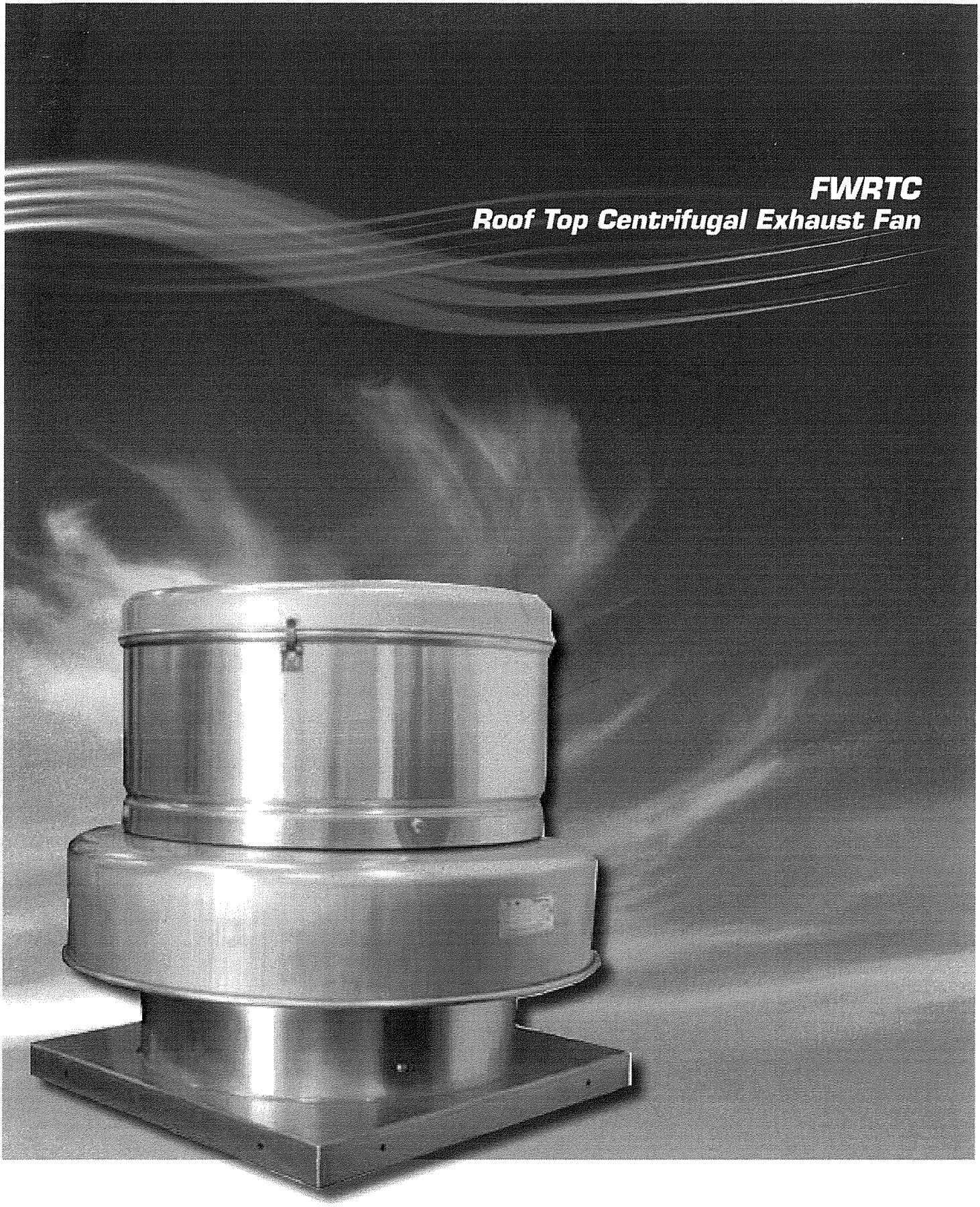
FWRTC
Roof Top Centrifugal Exhaust Fan



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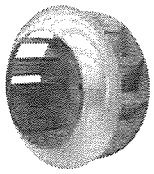


The backward inclined centrifugal Wheel series

OPTIMIZED DESIGN

CFD simulation technologies used to optimize the wheel design, resulting in higher efficiency, lower noise and more stable performance.

BALANCING LEVEL

Each wheel is statically and dynamically balanced to the level of G2.5 ISO standard No.1940 (typical products are balanced to G6.3 only), for better longer term reliability and performance.

NON-OVERLOADING DESIGN

The backward inclined Wheels have a natural peak value on the shaft power curve. Customers can choose proper motors to ensure they operate in non-overloading to cater for the deviation between operating condition and design.

PRECISE VENTURI INLET

The venturi inlet of the wheel and the roof curb cap is closely mated to each other, which ensures smoother air flow, lower noise and energy loss caused by turbulence.

Product Features

✓ Independent motor chamber: longer service life

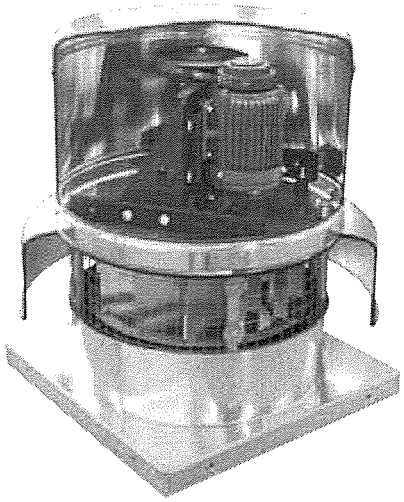
- Motor, drive, pulley free from airstream contamination.
- Suitable for use where kitchen grease, dust and VOC exhaust application.
- Stable performance and longer lifetime of more than 10 years.

✓ Blade falling resistant, prevent condensation falling into room

- If blades break accidentally, safety feature prevents broken pieces from falling into room.
- Condensation will flow along blade to the outside instead of inside. Available for Coastal and humid areas.

✓ Patented positive cooling technology

- Auxiliary blades create a positive pressure : negative pressure is generated in drive chamber
- Fresh cool air is continuously introduced into drive chamber to cool the motor bearing
- Longer motor and bearing life



✓ Widely applied to industrial needs

- Hot summer rooftop application
- All aluminum construction: Spark A
- Smoke exhaust application
- Coastal area high-salt environment

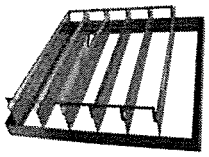
✓ Patented design, practical & artistic

- Elegant profile design.
- Aluminium lustre casing: blends in with different building colors.

✓ Light: suitable for steel structure roof deck

- Housing and wheel: aluminum alloy material
- Reduced loading on roof and steel structure

Optional Accessories



Gravity back-draft damper

Carefully designed back-draft damper with aluminum blades cross linked to stop the back flow of external air, and reduce condensation.

Service Switch

The service switch can be installed inside the fan or on the roof close to the fan. This is to ensure that the power supply can be shut off for maintenance or repairs.

Curb Adapter

The curb adapter adapts to ready-made roof curb. Existing roof curb size needs to be specified when ordering.

Nomenclature

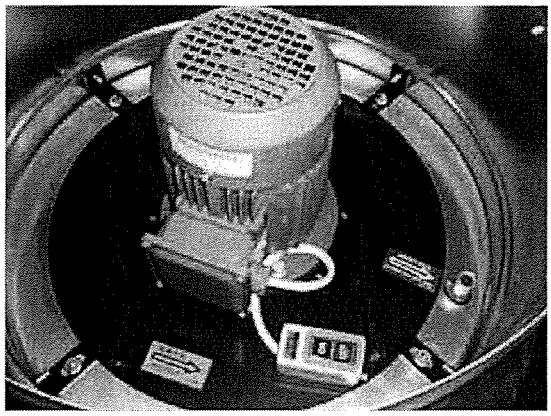
FWRTC - 300 (D4) - 0.25
① ② ③ ④

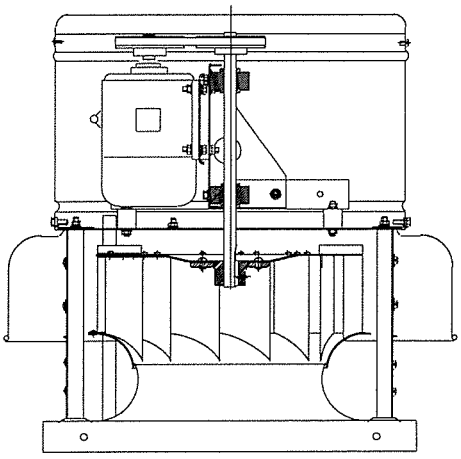
④ Motor Power: 0.25kW

③ Direct Drive, 4 pole (Belt-drive if without D)

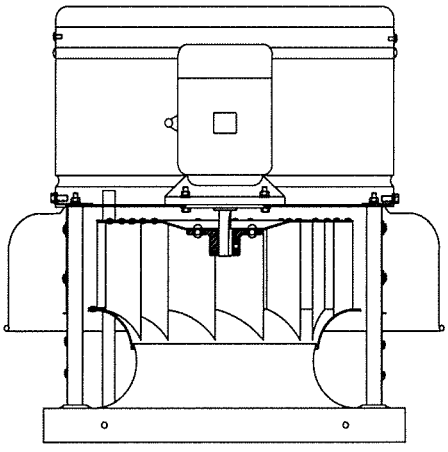
② Nominal Wheel Diameter: 300mm.

① Model: FWRTC (Roof Top Centrifugal Exhaust Fan).





FWRTC



FWRTC-D

Catalogue Introduction

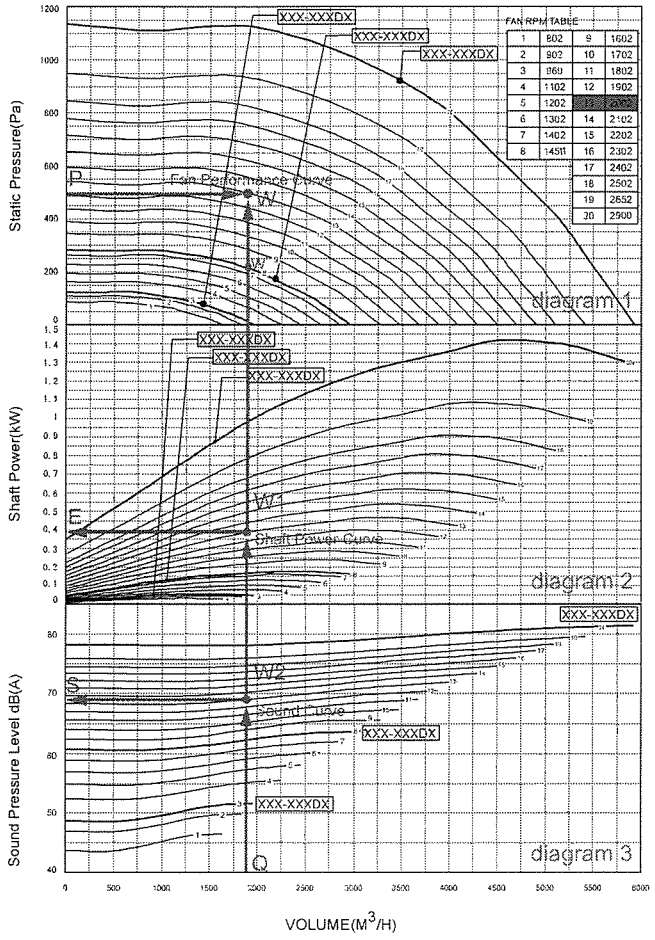
Each fan performance is plotted on a group of curves for different RPM.

The bolded curves indicate that the fan is a direct drive model. All direct drive models shall have a suffix letter D followed by motor pole number(which is already marked on the drawing). The attached table shows motor RPM at different number of poles.

The non-bolded curves indicate that the fan is a belt drive. The belt drive models allows different RPM by choosing different diameter pulleys, the motor is a 4-pole.

Shaft Power Curve displays the fan actual power consumption.

The sound pressure level curve is measured at 1.5 meter distance.



Example: 1800M^3/h, 500Pa Static Pressure

Step 1: From given volume (Point Q: 1800M^3/H) draw a vertical line upwards, from given static pressure (Point P: 500Pa) draw a horizontal line to the right, the intersection point W is the working point. Find a fan curve close to the point, which would be curve No. 13. As highlighted in the RPM table, it is 2002RPM.

Step 2: The intersection point between the vertical line and the curve No. 13 in diagram 2 is marked as point W1. Draw a horizontal line from point W1 to the left coordinate, which makes point E. The point E (about 0.39kW) is the shaft power. According to the shaft power, a 0.55kW motor shall be equipped.

Step 3: The intersection point between the vertical line and the curve No.13 in diagram 3 is marked as point W2 to the left coordinate, which makes point S (about 69dB(A)). It is the fan sound pressure level.

Step 4: According to above steps, the primary model selection would be FWISQ-300-0.55, belt drive, and factory set to 2002 RPM. If lower shaft power or noise is expected, you may select a larger fan.

Step 5: Furthermore, if customer needs 1800M^3/H at 200Pa static pressure, you would find point W' close to curve No.8 (bolded, indicates 1450 RPM 4 pole direct drive) in this case. A more economical direct drive fan (FWRTC-300D4-0.37) can be selected.

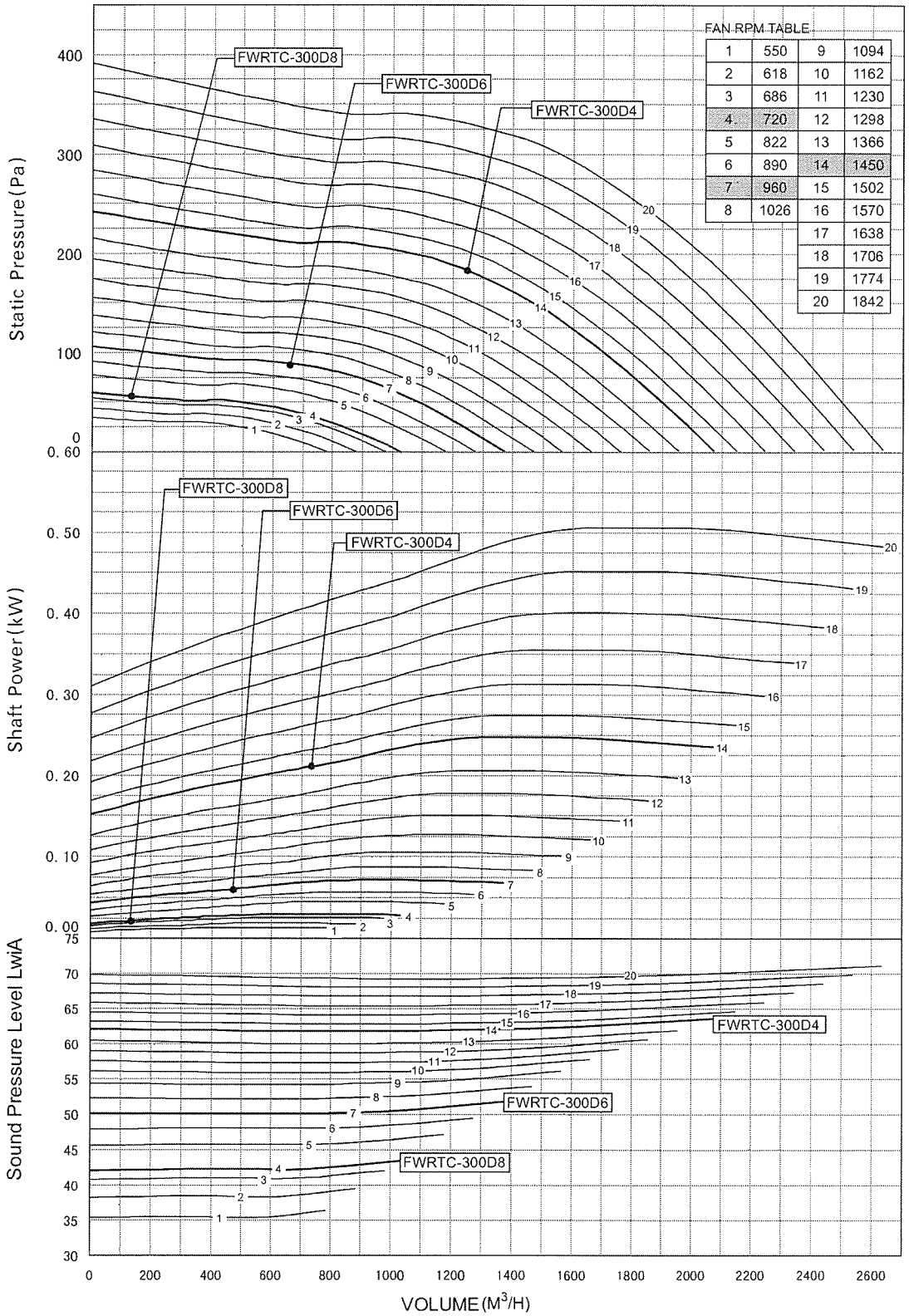
Performance Curve

Certified performance is based on A type installation: free inlet, free outlet. Power parameter already includes transmission loss. Rotation speed is nominal. Performance parameter is based on tested speed. Sound power level LwiA of catalog is based on NO.301 publication, A type installation: free inlet, free outlet. The parameter unit of sound power level is decibel. Calculated according to AMCA 301 based on 10-12 watt. Duct end correction is not included. DB (A) sound pressure level parameter is calculated on the basis of each octave from 1.5 meter, 11.5 DB attenuation. AMCA only certificates sound power level parameter, excludes sound pressure level parameter.

Motor Speed

No. of poles	RPM (Approx)
2	2900
4	1450
6	960
8	720

Model: FWRTC-300



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

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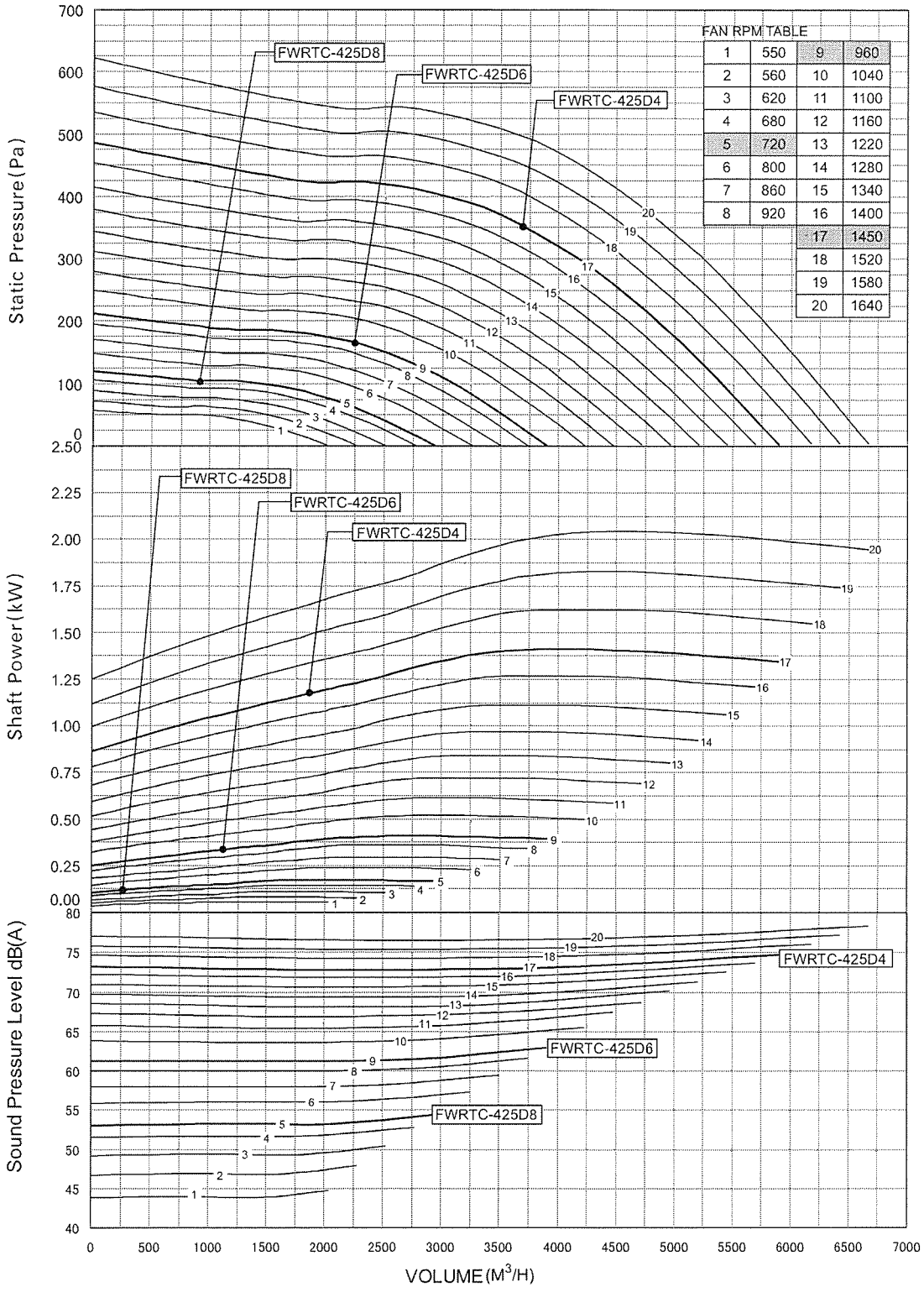
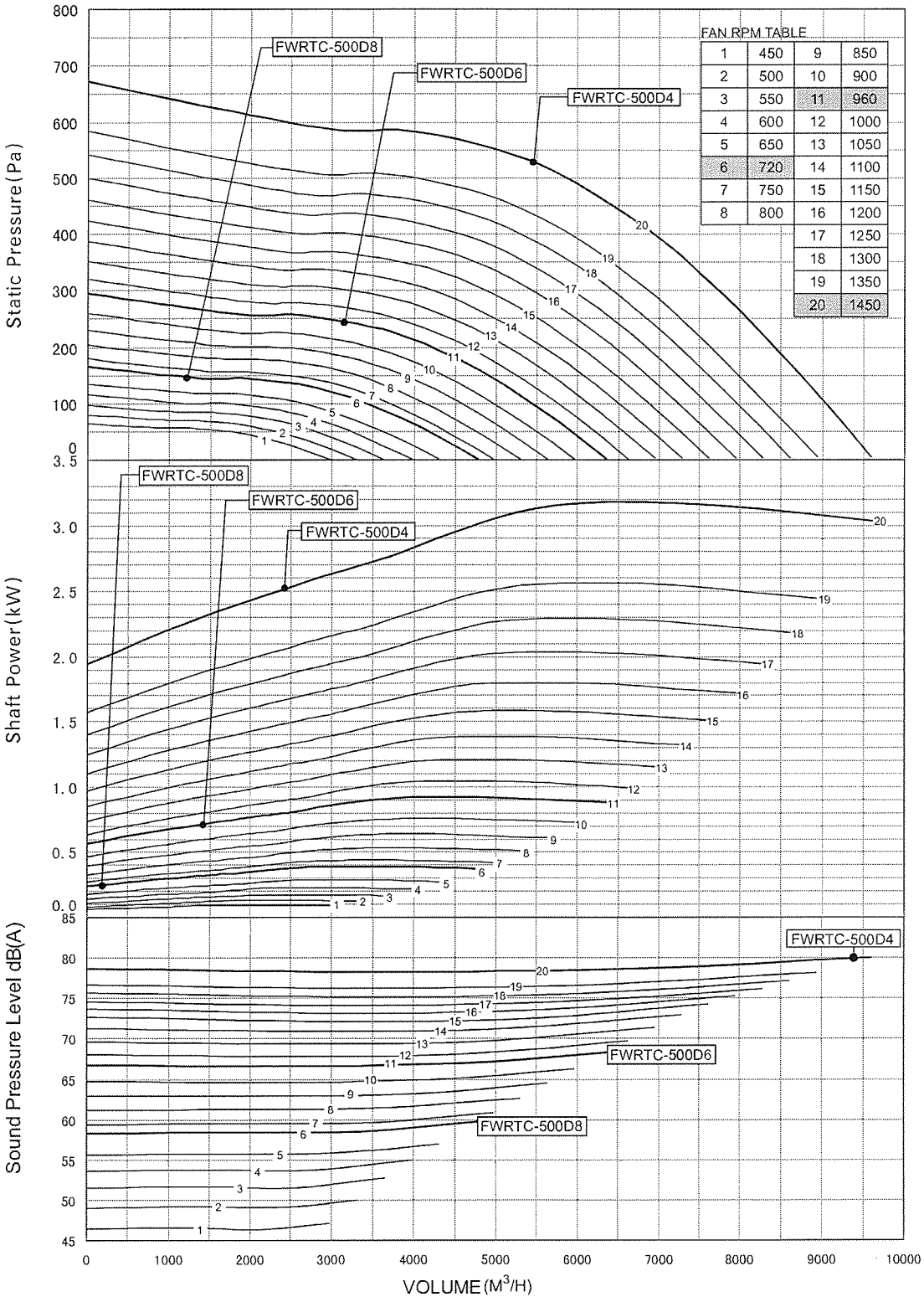
Model: FWRTC-425



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

Model: FWRTC-500



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

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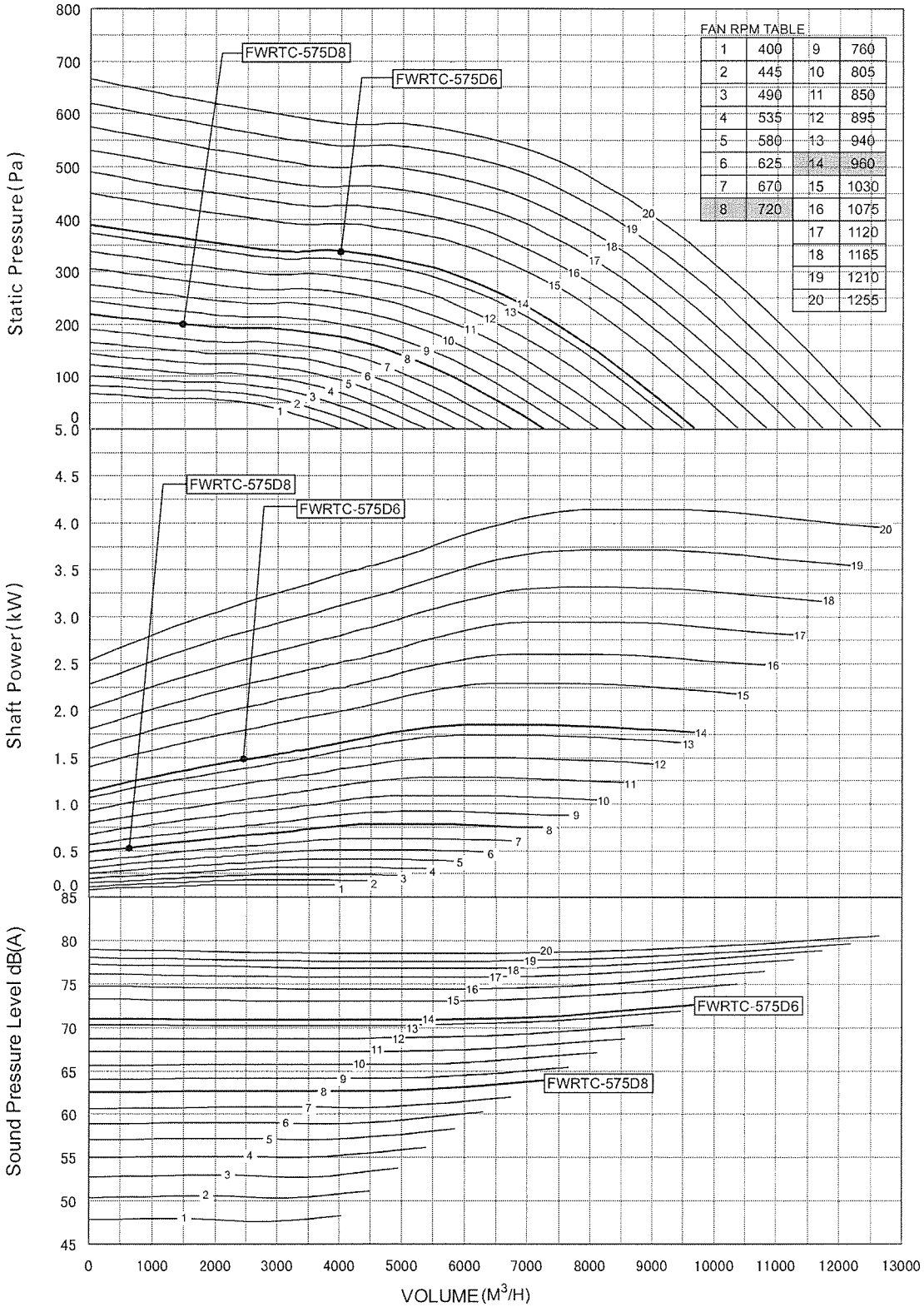
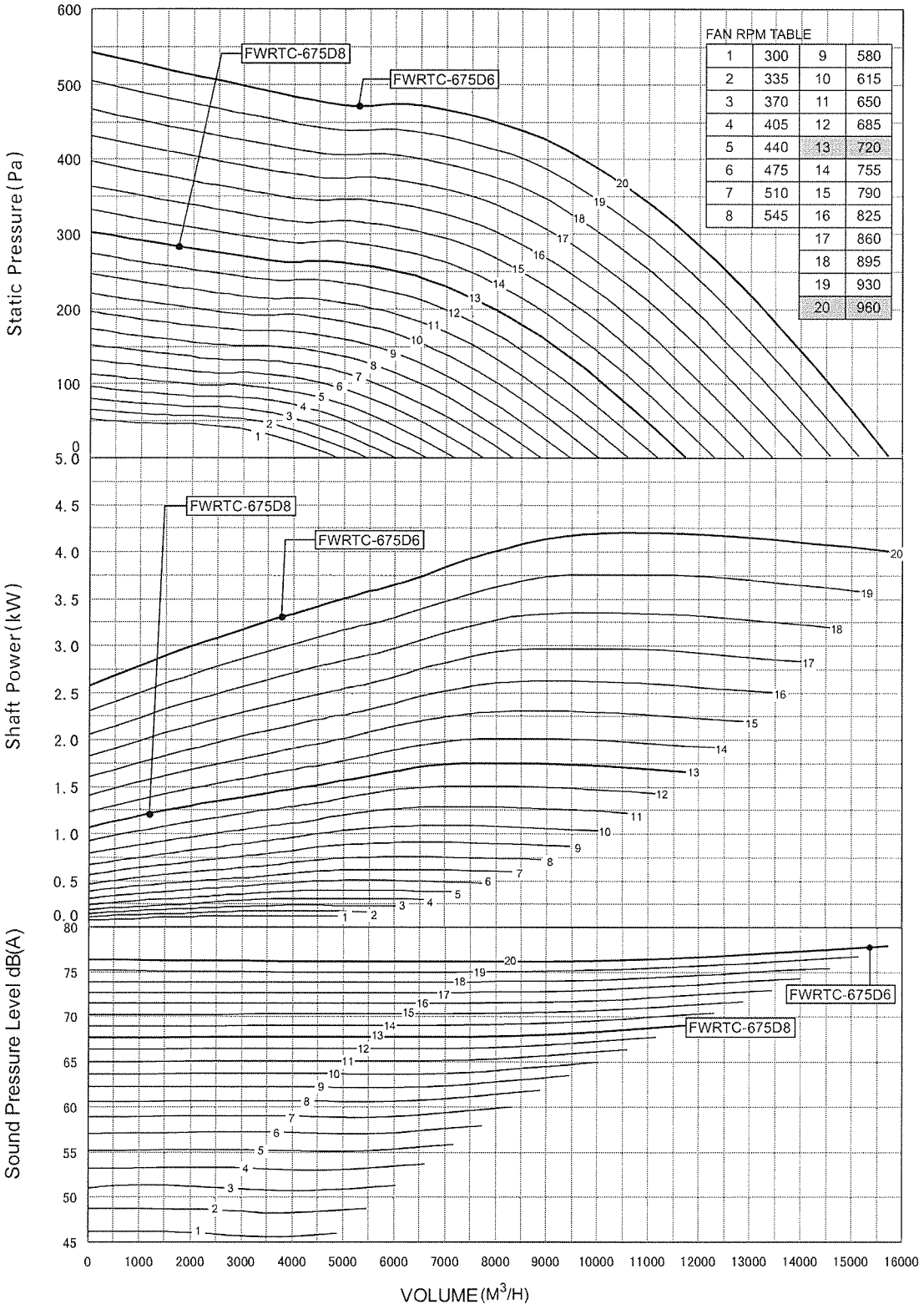
Model: FWRTC-575



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

Model: FWRTC-675



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

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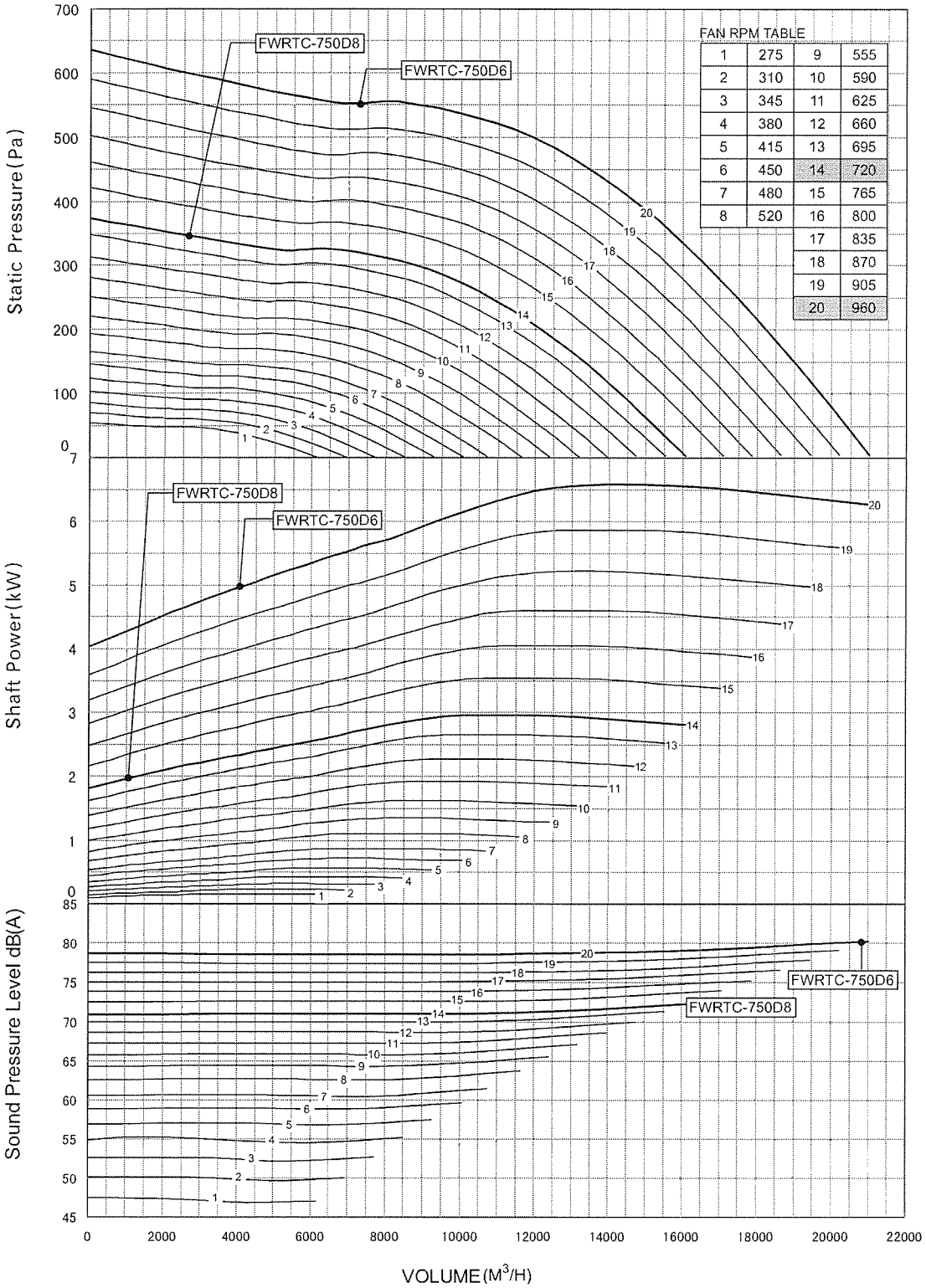
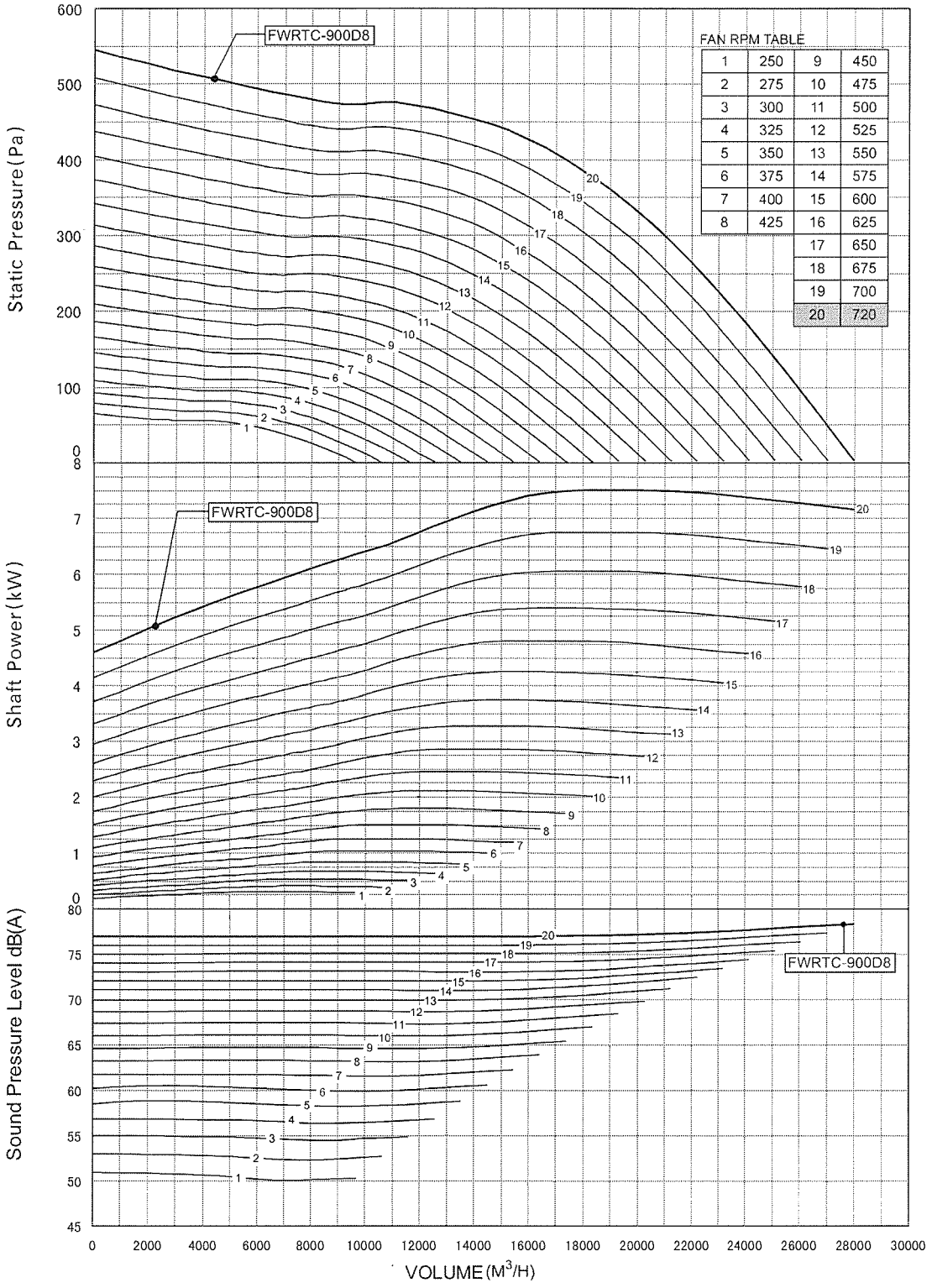
Model: FWRTC-750



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

Model: FWRTC-900



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

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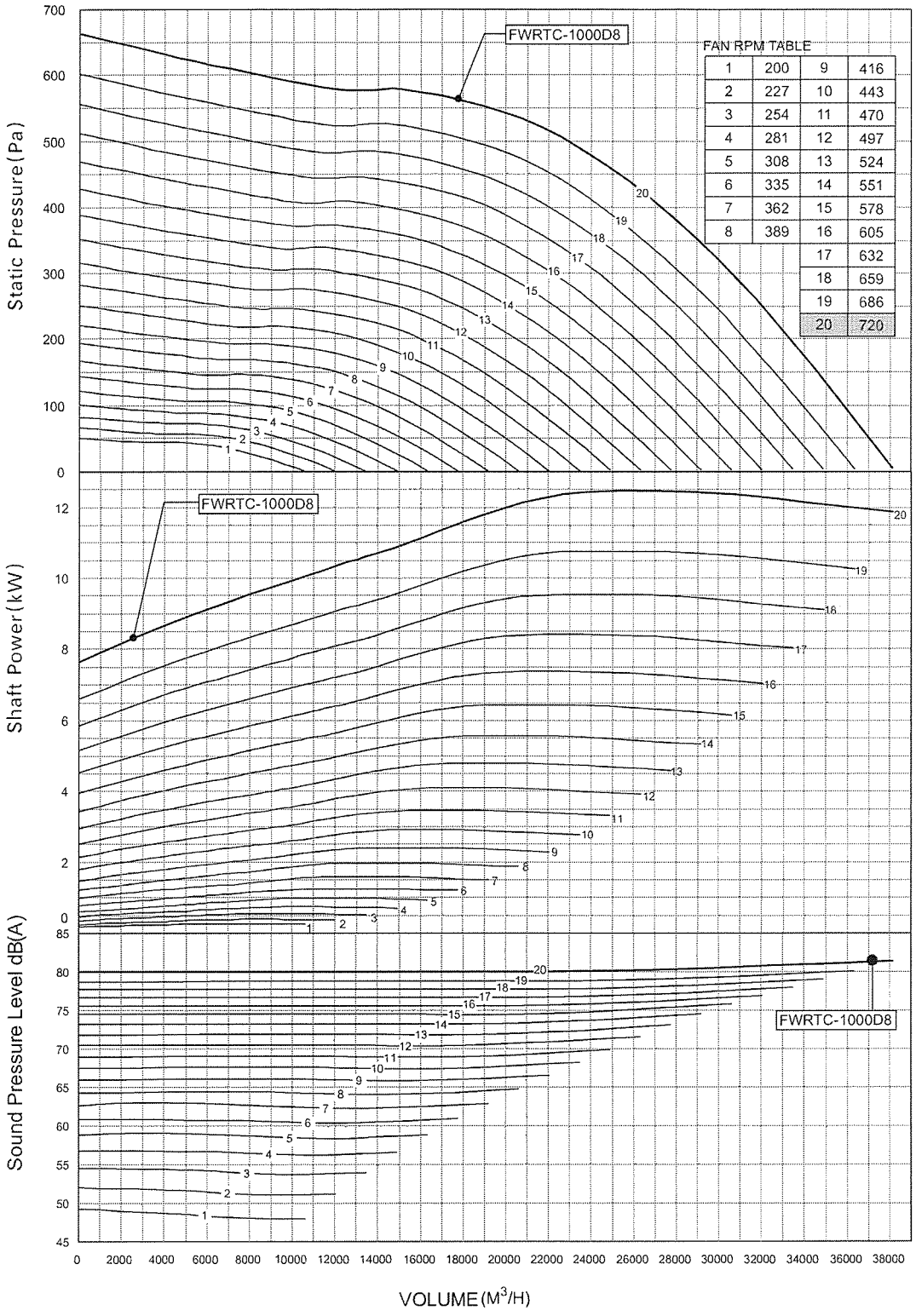
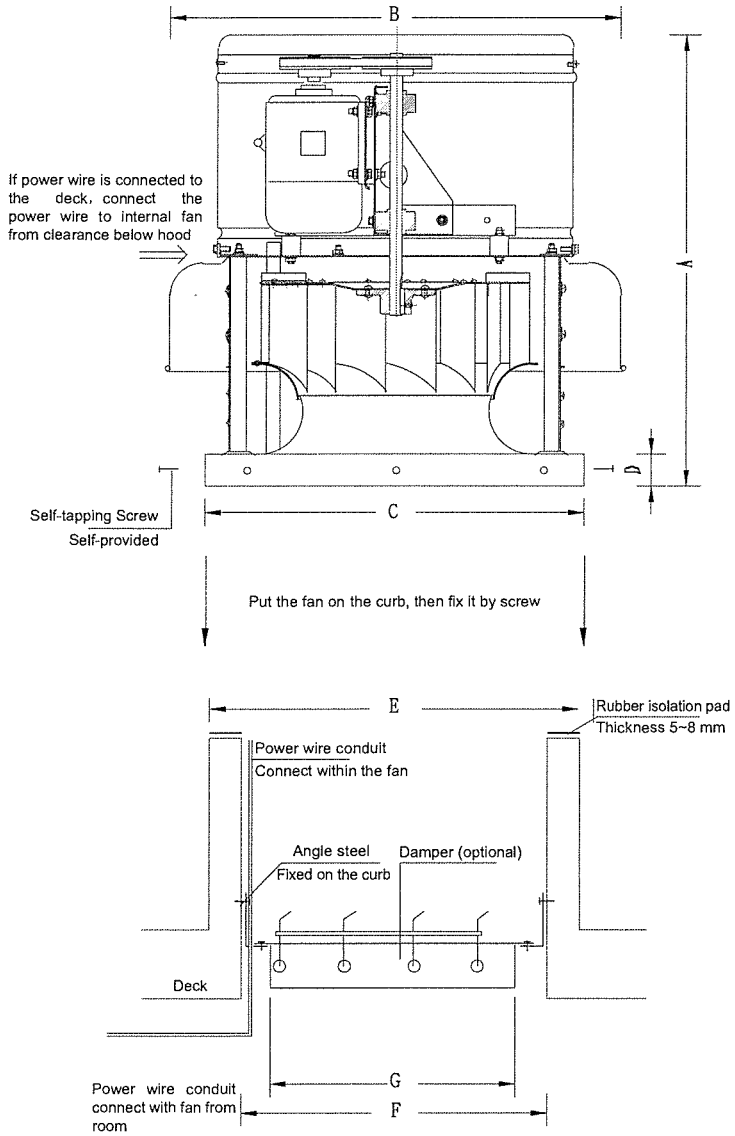
Model: FWRTC-1000



Performance certified is for installation type A - free inlet, free outlet. Power rating (kW) includes transmission losses. Performance ratings include the effects of a birdscreen and curb. 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 A: Free inlet, free 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.

Fan size and weight



Installation Instruction

1. The roof curb height shall be specified by design engineer. Recommended height shall be 400mm~600mm according to local climate and conditions rainfall.
2. Isolation pads, steel angels and screws in this drawing are not supplied by FlaktWoods.
3. The elasticity of the isolation pads is important when the fan load is applied, and should maintain its elasticity during high temperature summer months.
4. Rubber isolation pads should be selected according the weight of the fan. Typically, 5mm thickness pad is used.

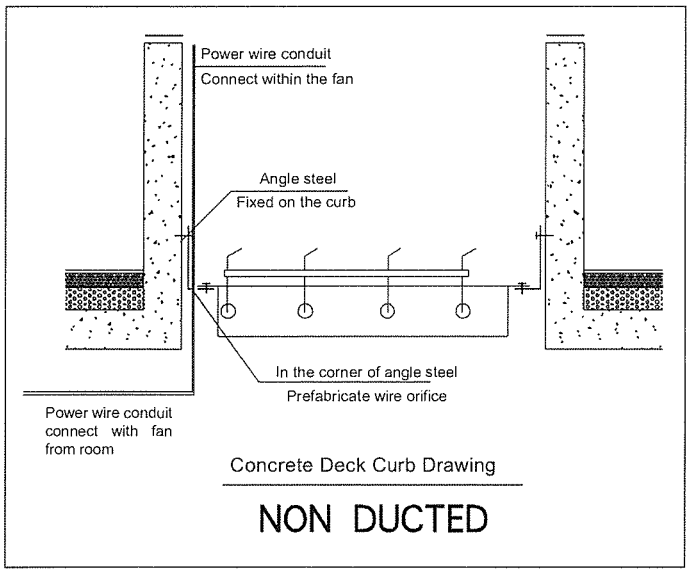
Model	A (mm)	B (mm)	C (mm)	D (mm)	*Weight (kg)
FWRTC-300	600	540	500	50	17
FWRTC-425	720	725	600	50	30
FWRTC-500	830	830	750	75	35
FWRTC-575	920	940	750	75	41
FWRTC-675	970	1100	900	75	67
FWRTC-750	1030	1200	900	75	71
FWRTC-900	1170	1440	1150	75	82
FWRTC-1000	1260	1590	1250	75	91

* The weight in the above table does not include motor, Refer motor weight in table listed below

Model	Curb Edge Distance	Roof Opening Size	Damper Size
FWRTC-300	495	335	300
FWRTC-425	595	435	400
FWRTC-500	745	585	550
FWRTC-575	745	585	550
FWRTC-675	895	715	650
FWRTC-750	895	715	650
FWRTC-900	1140	950	800
FWRTC-1000	1240	1050	900

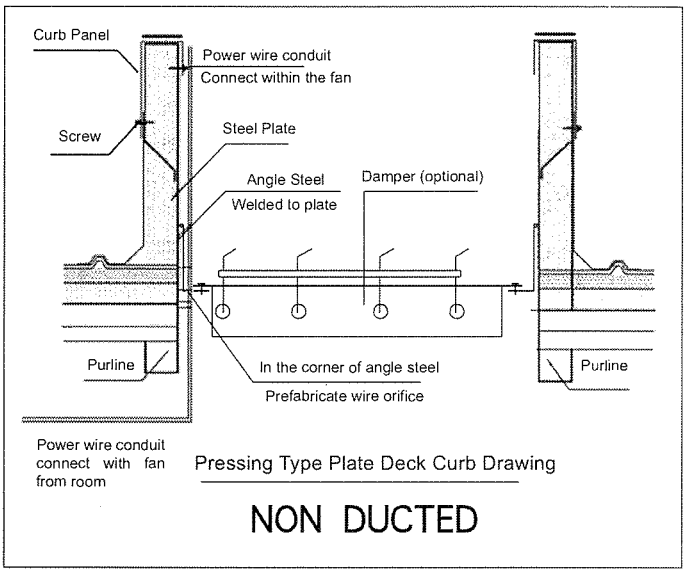
Power(kW)	Motor Weight(kg)			
	2P	4P	6P	8P
0.18	14	13.5	14	16
0.25	14.5	14	14.5	17
0.37	15	14.5	16	24
0.55	15.5	15	17	28
0.75	15	16	22	30
1.1	16	21	24	32
1.5	21	23	32	40
2.2	24	33	41	64
3	33	35	63	78
4	41	41	72	105
5.5	63	65	81	115
7.5	70	76	118	145
11	110	118	145	160

Roof Curb Fabrication Detail



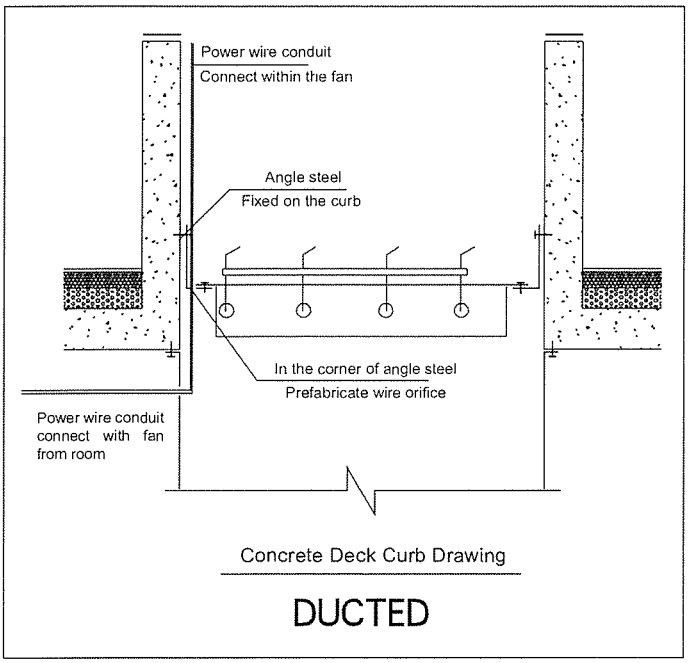
Concrete Deck Curb Drawing

NON DUCTED



Pressing Type Plate Deck Curb Drawing

NON DUCTED



Concrete Deck Curb Drawing

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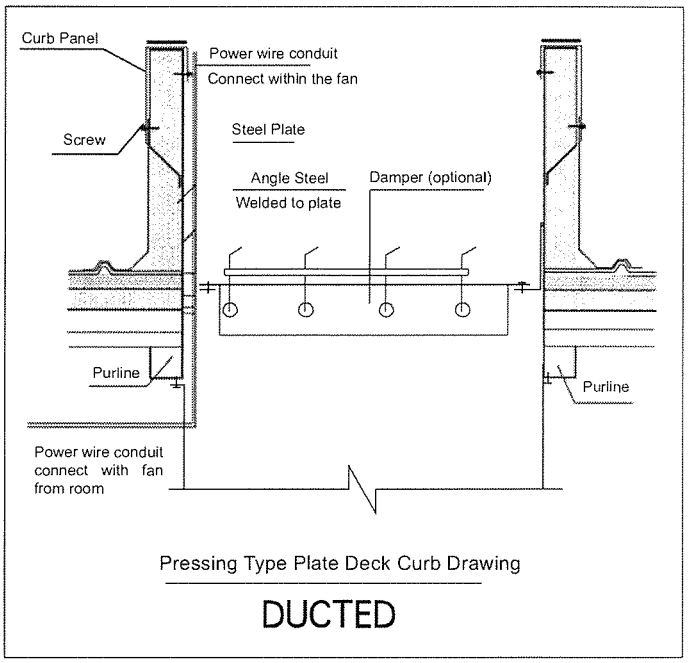

Pressing Type Plate Deck Curb Drawing

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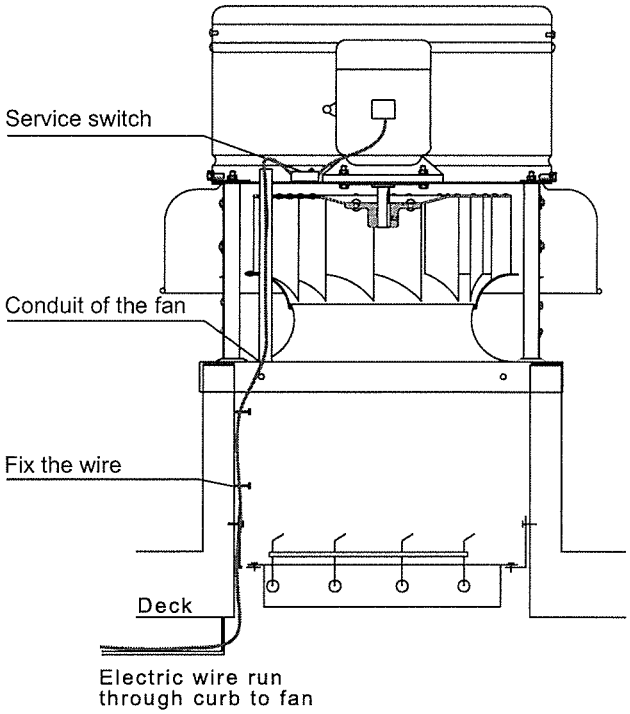
Installation

Fan Size & Roof installation structure Size

See attached drawing for fan size and roof opening size. The roof opening size shall be provided to the contractor at early stage when the roof is under construction.



Roof curb fabrication

The contractor is the only party who is responsible for the fabrication of the roof curb, the attached drawing is for reference only. The thickness of curb wall is dependent on the material used. The concrete wall shall be between 70~80mm, steel structure shall be between 30~45mm.

As to the metal surface where the fan makes contact with the curb in the top, a linear rubber vibration isolation pad shall be applied, which also acts as seal. The thickness of the pad shall be decided according to the fan weight, with proper elasticity once the fan is seated. The pad can be cut from typical carpet type isolation pads and are to be provided by contractors.

How to mount the fan

Pull the fan curb cap on to the curb, and fix it at all four sides by self-tapping screw, as per attached drawing. The fan must be kept leveled.

How to mount the back-draft damper

Make sure the damper blades can be fully open to 90 degree when the fan starts, and shut down automatically by gravity after fan is stopped.

Wiring

It is recommended to run the wire indoor below the roof on electric wiring shelves, and go up through the internal side of the curb, then penetrate the conduit of the fan to the motor chamber.

B: It is prohibited to drill holes on any part of the fan body for wiring.

C: The rotation of the wheel must be checked after the wiring is done, reverse the fan rotation by inter-change any 2 of the 3 phase lines.

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Product Specification

Section 1: Quality standards

Centrifugal roof exhaust fans shall be tested in accordance with AMCA Standard 210 & 300, each fan shall have AMCA Sound & Air Performance Seal.

Section 2: Fan Type

Fan shall be rooftop centrifugal exhaust type, with aluminum backward inclined centrifugal wheel. The fan inlet Venturi shall have round curved section to smoothly transition the air to the wheel cone. The wheel shall be statically and dynamically balanced to Level G2.5 as per ISO Standard No. 1940.

Section 3: Fan Material

The fan housing, wheel and curb cap shall be constructed of heavy gauge aluminum alloy, the exterior color of the fan shall be silver white.

Section 4: Drive [Apply to belt drive model only]

Shaft: 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 exceed 25% of the maximum fan operation speed.

Pulleys : Fan pulleys shall be sized for a minimum of 150% of driven power. Pulleys shall be of cast iron type. Motor pulleys shall be adjustable for final system balancing. Conical (QD) type bushings shall be equipped for easy removal of the pulleys.

Bearings : High quality motor 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, mounted on vibration isolators. The belt tension shall be adjusted through motor support plate, the design shall make sure the fan shaft and motor shaft is always parallel.

Section 5: Motor

Motor shall be carefully matched to the fan load, IP 54, and insulation class F. The motor bearings shall be relubricable ball type. Motor and drives shall be mounted on vibration isolators, and out of the air stream to avoid grease or dirt accumulation. Motor chamber shall be fixed through stainless steel clips for easy access.

Section 6: Structure

The windband shall have a rigid internal support structure to protect the fan from heavy wind, the internal structure shall be water tight during heavy rain or snow.

Motor & drive support panel shall be an anti-corrosion treated steel panel. Using the same material as wind band is prohibited. The column shall be aluminum stick to make sure the support is stable.

Internal wiring conduit: Fan shall be furnished with a conduit to lead the power supply wiring through the curb to the motor chamber.

Roof curb caps with mounting holes: the roof curb cap shall have pre-drilled holes, the fan shall be mounted from curb cap side wall mounting holes.

Galvanized mash type bird screen shall be furnished to prevent bird entry when fan is not running.

Section 7: Fresh air cooling motor

Fresh air shall be drawn into the motor compartment from an area free of discharge contaminants to cool the motor and drive. The fresh air shall be guided into the motor chamber via auxiliary wheel blades via the gap below themotor cover.

Section 8: Nameplate:

Permanently fixed aluminum nameplate shall be fixed on fan body clearly display fan mark, product model and serial number. The serial number shall be an unique ID for each fan, so that the customer can use this number to find out the parts used.

The Introduction of AMCA

The Air Movement and Control Association (AMCA) International, Inc. is a not-for-profit international association of the world's manufacturers of related air system equipment- primarily, but not limited to: fans, louvers, dampers, air curtains, airflow measurement stations, acoustic attenuators, and other air system components for the industrial, commercial and residential markets.

Flakt Woods Ltd. certifies that Model FWRTC is 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.

The association's mission is to promote the health and growth of the air movement and control industry consistent with the interest of the public. AMCA International is a valuable resource and a strong means of self regulation for our industry. People who buy and specify fans, dampers, and louvers need to be aware of the value of the AMCA International seal.

During the last 85 years of representing the air movement and control industry (fifty years as its consolidated voice), AMCA International has provided value to its membership with the following services:

- Participation in the development of standards
- Certified Ratings Program
- CRP White Paper
- Unique state-of-the art testing laboratory
- Independent AMCA accredited laboratories are under construction in Singapore, Korea and China
- Industry statistics and forecasting reports
- Conferences and educational programs
- Press Releases
- New AMCA Magazine "InMotion"

FWRTC-300

RPM	VOLUME	SOUND POWER OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
550	786	48	56	45	42	43	40	38	36	48	36
	556	47	53	44	41	41	40	39	38	47	35
	311	47	53	43	42	40	40	39	39	48	36
	0	48	54	43	42	40	39	39	40	47	35
618	884	52	58	50	45	46	43	41	39	51	39
	624	52	56	49	44	44	42	41	40	50	38
	350	51	55	48	45	43	43	42	41	50	38
	0	52	56	48	45	43	42	42	42	50	38
686	981	56	60	54	48	48	46	44	42	54	42
	693	56	58	53	47	46	45	44	43	53	41
	388	55	57	52	48	46	45	45	44	53	41
	0	57	58	52	47	45	44	44	44	53	41
720	1029	58	61	56	50	49	47	45	43	55	43
	727	58	59	55	49	47	46	45	44	54	42
	408	57	58	54	49	47	46	46	45	54	42
	0	59	59	54	49	47	45	45	45	54	42
822	1175	63	63	62	54	52	51	48	46	59	47
	830	63	62	60	53	50	49	48	47	58	46
	465	63	61	59	53	50	49	49	48	58	46
	0	65	62	60	52	50	48	48	48	58	46
890	1272	67	64	65	56	53	53	50	48	61	49
	899	66	63	63	55	52	51	50	49	60	48
	504	66	62	63	55	52	51	51	50	60	48
	0	68	63	63	54	52	50	49	50	60	48
960	1373	70	65	68	58	55	55	52	50	64	52
	970	69	65	66	57	54	53	52	51	62	50
	544	70	64	66	57	54	52	52	51	62	50
	0	71	65	66	56	54	52	51	51	62	50
1026	1467	72	66	71	60	56	57	54	52	66	54
	1036	72	66	69	59	55	55	53	52	65	53
	581	72	65	68	59	56	54	54	53	64	52
	0	74	66	69	58	55	54	52	53	64	52
1094	1564	75	68	74	62	57	58	55	53	68	56
	1105	74	67	72	61	57	56	55	54	67	55
	619	75	67	71	60	57	55	55	54	66	54
	0	77	68	72	60	57	55	54	54	66	54
1162	1661	77	69	76	64	59	60	57	55	70	58
	1174	76	69	73	63	58	58	56	55	68	56
	658	77	68	73	62	59	57	57	56	68	56
	0	79	69	74	62	59	57	55	56	68	56
1230	1759	78	72	77	67	61	61	58	56	71	59
	1242	77	71	74	66	60	59	57	56	70	58
	696	78	71	74	65	60	58	58	57	69	57
	0	80	72	75	64	60	58	57	57	70	58
1298	1856	78	74	77	69	62	62	60	58	73	61
	1311	78	74	75	68	61	60	59	58	71	59
	735	79	73	75	67	62	60	59	58	71	59
	0	81	74	76	67	62	59	58	58	71	59
1366	1953	79	76	78	71	64	63	61	59	74	62
	1380	79	76	76	70	63	61	60	59	72	60
	773	80	75	76	69	63	61	60	59	72	60
	0	78	76	77	70	63	61	60	59	73	61
1450	2073	80	78	79	74	66	64	63	60	76	64
	1465	80	78	78	72	65	63	61	60	74	62
	821	81	78	77	71	65	62	61	61	74	62
	0	83	79	78	71	65	62	60	60	74	62
1502	2147	81	80	80	75	67	65	64	61	77	65
	1517	80	79	78	74	66	63	62	61	75	63
	850	81	79	78	73	66	63	62	62	75	63
	0	84	81	79	73	66	63	61	61	75	63
1570	2245	82	82	81	77	68	66	65	62	78	66
	1586	81	81	79	75	67	64	63	62	77	65
	889	82	81	78	75	67	64	63	63	76	64
	0	84	83	80	75	67	64	62	62	77	65
1638	2342	82	83	81	79	69	67	66	63	79	67
	1654	82	83	80	77	68	65	64	63	78	66
	927	83	83	79	76	68	65	64	64	77	65
	0	85	84	80	77	68	65	63	63	78	66
1706	2439	83	85	82	80	70	68	67	64	81	69
	1723	82	84	81	79	69	66	65	64	79	67
	966	83	85	80	78	69	66	65	65	79	67
	0	86	86	81	78	69	66	64	64	79	67
1774	2536	84	86	83	82	72	68	68	65	82	70
	1792	83	86	82	80	71	67	66	65	80	68
	1004	84	86	81	80	70	67	66	65	80	68
	0	86	88	82	80	70	67	65	64	81	69
1842	2634	85	88	83	84	73	69	69	66	83	71
	1860	84	87	82	82	72	68	67	66	82	70
	1043	85	88	82	81	71	68	67	66	81	69
	0	87	90	83	81	71	68	66	65	82	70

FWRTC-425

RPM	VOLUME	SOUND POWER OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
500	2033	58	64	54	51	51	49	47	45	57	45
	1436	58	62	53	50	49	48	47	46	56	44
	805	57	61	52	50	49	49	48	47	56	44
	0	58	61	52	50	48	47	48	48	56	44
560	2276	60	68	57	53	54	51	50	48	60	48
	1608	60	66	56	52	52	51	50	49	59	47
	901	59	65	55	53	51	51	50	50	59	47
	0	60	66	55	53	51	50	50	51	59	47
620	2520	64	70	62	56	56	54	52	50	62	50
	1780	64	68	60	55	54	53	52	51	61	49
	998	63	67	59	56	54	54	53	52	61	49
	0	64	68	59	56	54	52	52	53	61	49
680	2764	68	72	65	59	58	57	54	52	65	53
	1953	68	70	64	58	57	55	54	53	64	52
	1095	67	69	63	58	56	56	55	54	64	52
	0	68	70	63	58	56	54	54	55	64	52
720	2927	70	73	68	61	60	58	56	54	66	54
	2068	70	71	66	60	58	57	56	55	65	53
	1159	70	70	65	60	58	57	56	55	65	53
	0	71	71	65	60	57	56	56	56	65	53
800	3252	74	74	72	64	62	61	58	56	69	57
	2297	74	73	71	63	60	59	58	57	68	56
	1288	74	72	70	63	60	59	59	58	68	56
	0	76	73	70	63	60	58	58	58	68	56
860	3496	77	75	75	66	63	63	60	58	71	59
	2470	77	74	73	65	62	61	60	59	70	58
	1384	77	74	73	65	62	61	60	59	70	58
	0	79	75	73	64	62	60	59	60	70	58
920	3740	80	77	78	68	65	64	62	60	74	62
	2642	80	76	76	67	63	63	61	60	72	60
	1481	80	75	75	67	64	62	62	61	72	60
	0	82	76	76	66	63	62	61	61	72	60
960	3902	82	77	80	69	65	66	63	61	75	63
	2757	81	77	78	68	64	64	62	61	74	62
	1545	82	76	77	68	65	63	63	62	73	61
	0	84	77	78	67	65	63	62	62	73	61
1040	4228	85	79	83	72	67	68	65	63	78	66
	2987	84	78	81	71	66	66	64	63	76	64
	1674	85	77	80	70	67	65	65	64	76	64
	0	87	79	81	70	67	65	63	64	76	64
1100	4472	87	80	85	73	68	69	66	64	79	67
	3159	87	79	83	72	67	67	65	64	78	66
	1771	88	79	83	71	68	66	66	65	77	65
	0	90	80	83	71	68	66	65	65	78	66
1160	4715	89	81	87	75	70	70	67	65	81	69
	3331	88	81	85	74	69	68	67	66	79	67
	1867	89	80	84	73	70	67	67	66	79	67
	0	91	81	85	73	69	67	66	66	79	67
1220	4959	90	83	88	77	71	71	69	67	82	70
	3503	89	83	86	76	70	69	68	67	81	69
	1964	90	82	85	75	71	69	68	67	80	68
	0	92	83	86	75	71	68	67	67	81	69
1280	5203	90	85	89	79	73	72	70	68	83	71
	3676	90	85	87	78	72	70	69	68	82	70
	2060	91	84	86	77	72	70	69	69	81	69
	0	93	86	87	77	72	70	68	68	82	70
1340	5447	91	87	89	81	74	73	71	69	85	73
	3848	90	87	87	80	73	71	70	69	83	71
	2157	92	86	87	79	73	71	70	70	83	71
	0	94	88	88	79	73	71	69	69	83	71
1400	5691	92	89	90	83	75	74	72	70	86	74
	4020	91	88	88	82	74	72	71	70	84	72
	2254	92	88	88	81	75	72	71	71	84	72
	0	95	89	89	81	74	72	70	70	84	72
1450	5894	93	90	91	85	76	75	73	71	87	75
	4164	92	90	89	83	75	73	72	71	85	73
	2334	93	90	88	82	76	73	72	71	85	73
	0	95	91	89	82	75	73	71	71	85	73
1520	6179	93	92	91	87	78	76	75	72	88	76
	4365	93	92	90	85	77	74	73	72	87	75
	2447	94	92	89	84	77	74	73	73	86	74
	0	96	93	90	84	77	74	72	72	87	75
1580	6423	94	94	92	88	79	77	76	73	89	77
	4537	93	93	91	87	78	75	74	73	88	76
	2543	94	93	90	86	78	75	74	73	87	75
	0	97	95	91	86	78	75	73	73	88	76
1640	6667	95	95	93	90	80	77	77	74	90	78
	4710	94	95	91	88	79	76	75	74	89	77
	2640	95	95	91	87	79	76	75	74	89	77
	0	97	96	92	87	79	76	74	73	89	77

Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free 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.

FWRTC-500

RPM	VOLUME	SOUND POWER OCTAVE BANDS								LwiA	dB(A)
		1	2	3	4	5	6	7	8		
450	2979	63	65	56	54	54	51	49	47	59	47
	2104	63	64	55	53	52	51	50	49	58	46
	1180	62	63	55	53	51	51	50	50	59	47
	0	63	63	55	53	51	50	51	51	58	46
500	3310	65	70	60	56	56	54	52	50	62	50
	2338	65	68	58	55	54	53	52	51	61	49
	1311	64	67	58	56	54	54	53	52	61	49
	0	65	68	58	55	53	52	53	53	61	49
550	3641	67	74	62	58	59	56	54	52	65	53
	2572	66	72	61	57	57	55	54	53	64	52
	1442	66	71	60	58	56	56	55	54	64	52
	0	67	72	60	58	56	54	55	55	63	51
600	3972	70	76	66	60	61	58	56	54	67	55
	2806	69	74	65	60	59	57	56	55	66	54
	1573	69	73	64	60	58	58	57	56	66	54
	0	70	74	63	60	58	56	57	57	66	54
650	4302	73	77	69	63	62	60	58	56	69	57
	3039	73	75	68	62	61	59	58	57	68	56
	1704	72	74	67	62	60	60	59	58	68	56
	0	73	76	67	62	60	58	58	59	68	56
720	4766	77	79	73	66	65	63	61	59	72	60
	3367	77	77	72	65	63	62	61	59	71	59
	1887	76	76	71	65	63	62	61	60	70	58
	0	78	78	71	65	62	61	61	61	70	58
750	4964	79	80	75	67	65	64	62	60	73	61
	3507	78	78	74	66	64	63	61	60	72	60
	1966	78	77	73	66	64	63	62	61	72	60
	0	80	78	73	66	63	62	61	62	71	59
800	5295	81	81	78	69	67	66	63	61	75	63
	3741	81	79	76	68	65	64	63	62	73	61
	2097	81	79	75	68	65	64	64	63	73	61
	0	82	80	76	68	65	63	63	63	73	61
850	5626	84	82	80	71	68	67	65	63	76	64
	3975	83	80	79	70	67	66	64	63	75	63
	2228	83	80	78	70	67	65	65	64	75	63
	0	85	81	78	69	66	65	64	64	75	63
900	5957	86	83	83	73	69	69	66	64	78	66
	4208	85	82	81	71	68	67	66	65	77	65
	2359	86	81	80	71	68	67	66	65	77	65
	0	88	82	81	71	68	66	65	66	77	65
960	6354	89	84	85	74	70	71	68	66	80	68
	4489	88	83	84	73	69	69	67	66	79	67
	2516	89	82	83	73	70	68	68	67	79	67
	0	90	83	83	73	70	68	67	67	79	67
1000	6619	90	84	87	76	71	72	69	67	82	70
	4676	90	84	85	75	70	70	68	67	80	68
	2621	90	83	84	74	71	69	69	68	80	68
	0	92	84	85	74	71	69	67	68	80	68
1050	6950	92	85	89	77	72	73	70	68	83	71
	4910	92	85	87	76	71	71	69	68	82	70
	2752	92	84	86	75	72	70	70	69	81	69
	0	94	85	87	75	72	70	69	69	82	70
1100	7281	94	86	91	78	73	74	71	69	85	73
	5144	93	86	89	77	72	72	70	69	83	71
	2883	94	85	88	77	73	71	71	70	83	71
	0	96	86	89	76	73	71	70	70	83	71
1150	7612	95	87	92	80	74	75	72	70	86	74
	5378	95	87	90	79	74	73	71	70	85	73
	3014	96	86	90	78	74	72	72	71	84	72
	0	98	87	91	78	74	72	71	71	85	73
1200	7943	96	89	93	82	76	76	73	71	87	75
	5611	95	89	91	81	75	74	72	71	86	74
	3145	96	88	90	80	75	73	73	72	85	73
	0	99	89	91	79	75	73	72	72	86	74
1250	8274	97	91	94	84	77	77	74	72	88	76
	5845	96	90	92	82	76	75	73	72	87	75
	3276	97	90	91	81	77	74	74	73	86	74
	0	99	91	92	81	76	74	72	73	87	75
1300	8605	98	92	94	85	78	78	75	73	89	77
	6079	97	92	92	84	77	76	74	73	88	76
	3407	98	91	92	83	78	75	75	74	87	75
	0	100	93	93	83	77	75	73	73	88	76
1350	8936	98	94	95	87	79	78	76	74	90	78
	6313	97	93	93	85	78	77	75	74	89	77
	3539	98	93	93	85	79	76	75	75	88	76
	0	101	94	94	84	78	76	74	74	89	77
1450	9598	99	97	96	90	81	80	78	76	92	80
	6780	99	96	95	88	80	78	77	76	91	79
	3801	100	96	94	87	81	78	77	76	90	78
	0	102	97	95	87	80	78	76	76	91	79

FWRTC-575

RPM	VOLUME	SOUND POWER OCTAVE BANDS								LwiA	dB(A)
		1	2	3	4	5	6	7	8		
400	4027	66	65	57	56	55	52	50	48	60	48
	2845	64	63	56	54	53	52	51	50	60	48
	1595	64	62	56	54	53	53	52	51	60	48
	0	65	62	56	54	52	52	52	53	60	48
445	4480	68	69	60	58	58	55	53	51	63	51
	3165	67	67	59	57	56	55	54	53	62	50
	1774	66	67	59	57	55	55	54	54	63	51
	0	67	67	59	57	55	54	55	55	62	50
490	4933	69	73	63	60	60	57	55	53	66	54
	3485	68	71	62	59	58	57	56	55	65	53
	1953	68	70	62	59	58	57	57	56	65	53
	0	69	71	61	59	57	56	57	57	65	53
535	5386	71	77	66	62	62	60	58	56	68	56
	3805	70	75	65	61	60	59	58	57	67	55
	2133	70	74	64	61	60	59	59	58	67	55
	0	71	75	64	61	59	58	58	59	67	55
580	5839	73	79	69	64	64	62	60	58	70	58
	4125	72	77	67	63	62	61	60	59	69	57
	2312	72	77	67	64	61	61	60	60	69	57
	0	72	78	66	63	61	60	60	61	69	57
625	6292	76	81	72	66	66	64	61	59	72	60
	4445	75	79	70	65	64	63	61	60	71	59
	2492	75	78	70	66	63	63	62	61	71	59
	0	76	79	69	65	63	62	62	62	71	59
670	6745	78	82	75	68	67	65	63	61	74	62
	4765	78	80	73	67	65	64	63	62	73	61
	2671	78	79	72	67	65	64	64	63	73	61
	0	79	80	72	67	65	63	63	64	73	61
720	7248	81	83	78	70	69	67	65	63	76	64
	5120	81	81	76	69	67	66	65	64	75	63
	2870	81	81	75	69	67	66	65	65	75	63
	0	82	82	75	69	67	65	65	65	75	63
760	7651	83	84	80	72	70	69	66	64	77	65
	5405	83	82	78	71	68	67	66	65	76	64
	3030	83	82	77	71	68	67	67	66	76	64
	0	84	83	78	71	68	66	66	66	76	64
805	8104	86	85	82	73	71	70	68	66	79	67
	5725	85	84	81	72	70	69	67	66	78	66
	3209	85	83	80	72	70	68	68	67	78	66
	0	87	84	80	72	69	68	67	68	78	66
850	8557	88	86	85	75	72	72	69	67	81	69
	6045	87	85	83	74	71	70	69	68	79	67
	3388	88	84	82	74	71	70	69	68	79	67
	0	89	85	82	74	71	69	68	69	79	67
895	9010	90	87	87	77	73	73	70	68	82	70
	6365	89	86	85	76	72	71	70	69	81	69
	3568	90	85	84	75	72	71	70	70	81	69
	0	92	86	85	75	72	70	69	70	81	69
940	9463	92	88	89	78	74	74	71	69	84	72
	6685	91	87	87	77	73	72	71	70	82	70
	3747	92	86	86	77	73	72	72	71	82	70
	0	94	87	87	76	73	71	70	71	82	70
960	9664	93	88	90	79	75	75	72	70	85	73
	6827	92	87	88	78	74	73	71	70	83	71
	3827	93	86	87	77	74	72	72	71	83	71
	0	95	87	88	77	74	72	71	71	83	71
1030	10369	96	89	93	81	76	77	74	72	87	75
	7325	95	89	91	80	75	75	73	72	85	73
	4106	96	88	90	79	76	74	74	73	85	73
	0	98	89	90	79	76	74	72	73	85	73
1075	10822	97	90	94	82	77	78	75	73	88	76
	7645	97	89	92	81	76	76	74	73	87	75
	4285	98	89	92	80	77	75	75	74	86	74
	0	100	90	92	80	77	75	73	74	87	75
1120	11275	99	90	96	83	78	79	76	74	90	78
	7965	98	90	94	82	77	77	75	74	88	76
	4465	99	90	93	81	78	76	76	75	88	76
	0	101	91	94	81	78	76	74	75	88	76
1165	11728	100	92	97	85	79	80	77	75	91	79
	8285	99	92	95	84	78	78	76	75	89	77
	4644	100	91	94	83	79	77	77	76	89	77
	0	102	92	95	83	79	77	75	75	89	77
1210	12181	101	93	98	86	80	80	78	76	92	80
	8605	100	93	95	85	79	78	77	76	90	78
	4824	101	93	95	84	80	78	77	76	90	78
	0	103	94	96	84	80	77	76	76	90	78
1255	12634	101	95	98	88	81	81	79	77	93	81
	8925	100	95	96	87	80	79	78	77	91	79
	5003	101	94	95	86	81	79	78	77	91	79
	0	104	95	96	86	81	78	77	77	91	79

Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free 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.

FläktWoods

FWRTC-675

RPM	VOLUME	SOUND POWER OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
300	4886	67	59	54	55	52	50	48	46	58	46
	3451	65	57	53	53	51	50	49	48	58	46
	1935	64	56	54	52	52	51	50	49	58	46
	0	65	56	53	52	50	51	51	51	58	46
335	5456	69	63	57	57	55	53	51	49	61	49
	3854	67	62	56	55	54	53	52	51	60	48
	2160	66	61	57	55	54	54	53	52	61	49
	0	67	61	56	55	53	53	53	54	61	49
370	6026	71	67	60	59	58	55	53	51	63	51
	4257	69	66	59	58	56	55	54	53	63	51
	2386	68	65	59	57	56	56	55	54	63	51
	0	69	65	59	57	55	55	56	56	63	51
405	6596	72	71	63	61	60	58	56	54	66	54
	4659	71	69	62	60	59	57	56	55	65	53
	2612	70	69	62	60	58	58	57	56	65	53
	0	71	69	61	59	58	57	57	58	65	53
440	7166	74	75	65	63	62	60	58	56	68	56
	5062	73	73	64	61	61	59	58	57	67	55
	2838	72	72	64	62	60	60	59	58	67	55
	0	73	72	64	61	60	59	59	60	67	55
475	7736	75	78	68	64	64	62	60	58	70	58
	5465	74	76	67	63	62	61	60	59	69	57
	3063	73	75	66	64	62	62	61	60	69	57
	0	74	76	66	63	61	60	61	61	69	57
510	8306	76	81	70	66	66	63	61	59	72	60
	5868	75	79	69	65	64	63	62	61	71	59
	3289	75	78	68	65	63	63	62	62	71	59
	0	76	79	68	65	63	62	62	63	71	59
545	8876	77	83	72	67	68	65	63	61	74	62
	6270	77	81	71	66	66	64	63	62	73	61
	3515	76	81	70	67	65	65	64	63	73	61
	0	77	81	69	67	65	63	64	64	73	61
580	9446	79	85	74	69	69	66	64	62	76	64
	6673	79	83	73	68	67	66	65	64	74	62
	3740	78	82	72	69	66	66	65	64	74	62
	0	79	83	71	68	66	65	65	65	74	62
615	10016	81	86	76	70	70	68	66	64	77	65
	7076	81	84	75	70	68	67	66	65	76	64
	3966	80	83	74	70	68	67	67	66	76	64
	0	81	84	74	70	68	66	66	67	76	64
650	10586	83	87	79	72	72	69	67	65	78	66
	7478	83	85	77	71	70	68	67	66	77	65
	4192	83	84	76	72	69	69	68	67	77	65
	0	84	86	76	71	69	67	67	68	77	65
685	11156	85	88	81	74	73	71	69	67	80	68
	7881	85	86	79	73	71	70	68	67	79	67
	4418	85	86	79	73	71	70	69	68	78	66
	0	86	87	79	73	70	69	69	69	78	66
720	11726	87	89	83	75	74	72	70	68	81	69
	8284	87	87	81	74	72	71	70	69	80	68
	4643	87	87	81	74	72	71	70	69	80	68
	0	88	88	81	74	72	70	70	70	80	68
755	12296	89	90	85	77	75	73	71	69	82	70
	8686	89	88	83	76	73	72	71	70	81	69
	4869	89	87	83	76	73	72	71	71	81	69
	0	90	88	83	75	73	71	71	71	81	69
790	12866	91	90	87	78	76	75	72	70	84	72
	9089	91	89	85	77	74	73	72	71	82	70
	5095	91	88	84	77	74	73	72	72	82	70
	0	92	89	85	77	74	72	72	72	82	70
825	13436	93	91	89	79	77	76	73	71	85	73
	9492	93	90	87	78	75	74	73	72	84	72
	5320	93	89	86	78	75	74	73	73	84	72
	0	94	90	86	78	75	73	73	73	83	71
860	14006	95	92	90	80	77	77	74	72	86	74
	9894	94	91	89	79	76	75	74	73	85	73
	5546	94	90	88	79	76	75	74	74	85	73
	0	96	91	88	79	76	74	73	74	85	73
895	14576	96	92	92	82	78	78	75	73	87	75
	10297	96	92	90	81	77	76	75	74	86	74
	5772	96	91	89	80	77	76	75	74	86	74
	0	98	92	90	80	77	75	74	75	86	74
930	15146	98	93	94	83	79	79	76	74	89	77
	10700	97	92	92	82	78	77	76	75	87	75
	5998	98	92	91	81	78	77	76	75	87	75
	0	99	93	91	81	78	76	75	75	87	75
960	15716	99	94	95	84	80	80	77	75	90	78
	11102	99	93	93	83	79	78	76	75	88	76
	6223	99	92	92	82	79	77	77	76	88	76
	0	101	93	93	82	79	77	76	76	88	76

FWRTC-750

RPM	VOLUME	SOUND POWER OCTAVE BANDS 1	2	3	4	5	6	7	8	LwiA	dB(A)
275	6143	68	58	55	56	53	51	49	47	59	47
	4340	66	57	54	54	52	52	51	50	59	47
	2433	65	56	55	53	53	52	51	51	59	47
	0	66	56	54	53	52	52	52	53	59	47
310	6925	71	63	58	59	56	54	52	50	62	50
	4892	69	62	57	57	55	54	53	52	62	50
	2742	68	61	58	56	56	55	54	53	62	50
	0	69	61	58	56	54	55	55	55	62	50
345	7707	73	68	61	61	59	57	55	53	65	53
	5445	71	66	60	59	58	57	56	55	64	52
	3052	70	65	61	59	58	57	57	56	65	53
	0	71	65	60	59	57	57	57	58	65	53
380	8489	74	72	64	63	62	59	57	55	67	55
	5997	73	70	63	61	60	59	58	57	67	55
	3362	72	69	63	61	60	60	59	58	67	55
	0	73	69	63	61	59	59	59	60	67	55
415	9271	76	75	67	65	64	61	59	57	70	58
	6549	75	74	66	63	62	61	60	59	69	57
	3671	74	73	66	63	62	62	61	60	69	57
	0	75	73	65	63	61	61	61	62	69	57
450	10053	77	79	69	66	66	63	61	59	72	60
	7102	76	77	68	65	64	63	62	61	71	59
	3981	76	76	68	65	64	63	63	62	71	59
	0	76	76	68	65	63	63	63	63	71	59
480	10723	78	81	71	68	68	65	63	61	73	61
	7575	77	79	70	67	66	64	63	62	73	61
	4246	77	79	70	67	65	65	64	63	73	61
	0	78	79	69	67	65	64	64	65	73	61
520	11617	80	85	73	69	70	67	65	63	76	64
	8207	79	83	72	68	68	66	65	64	75	63
	4600	78	82	72	69	67	67	66	65	75	63
	0	79	83	71	69	67	66	66	66	75	63
555	12399	81	87	75	71	71	69	67	65	78	66
	8759	80	85	74	70	69	68	67	66	76	64
	4910	80	85	73	71	68	68	68	67	76	64
	0	81	85	73	70	68	67	67	68	76	64
590	13181	83	89	78	72	73	70	68	66	79	67
	9311	82	87	77	72	71	69	68	67	78	66
	5219	82	86	76	72	70	70	69	68	78	66
	0	83	87	75	72	70	68	69	69	78	66
625	13962	85	90	80	74	74	72	69	67	81	69
	9864	85	88	79	73	72	71	70	69	79	67
	5529	84	87	78	74	71	71	70	69	79	67
	0	85	88	78	74	71	70	70	70	79	67
660	14744	87	91	83	76	75	73	71	69	82	70
	10416	87	89	81	75	73	72	71	70	81	69
	5839	87	88	80	75	73	72	72	71	81	69
	0	88	89	80	75	73	71	71	71	81	69
695	15526	89	91	85	77	76	74	72	70	83	71
	10968	89	90	83	76	74	73	72	71	82	70
	6148	89	89	82	77	74	73	73	72	82	70
	0	90	90	82	76	74	72	72	72	82	70
720	16085	91	92	86	78	77	75	73	71	84	72
	11363	90	90	85	77	75	74	73	72	83	71
	6369	90	90	84	78	75	74	74	73	83	71
	0	91	91	84	77	75	73	73	73	83	71
765	17090	93	93	89	80	78	77	74	72	86	74
	12073	93	92	87	79	77	76	74	73	85	73
	6767	93	91	86	79	76	75	75	74	85	73
	0	94	92	86	79	76	75	74	75	85	73
800	17872	95	94	91	81	79	78	76	74	87	75
	12625	94	92	89	81	78	77	75	74	86	74
	7077	95	92	88	80	78	76	76	75	86	74
	0	96	93	88	80	77	76	75	75	86	74
835	18654	97	95	92	83	80	79	77	75	89	77
	13178	96	93	91	82	79	78	76	75	87	75
	7387	96	93	90	82	79	77	77	76	87	75
	0	98	94	90	81	78	77	76	76	87	75
870	19436	98	95	94	84	81	80	78	76	90	78
	13730	98	94	92	83	80	79	77	76	89	77
	7696	98	93	91	83	80	78	78	77	88	76
	0	100	95	92	82	79	78	77	77	88	76
905	20218	100	96	96	85	82	81	79	77	91	79
	14283	99	95	94	84	80	80	78	77	90	78
	8006	100	94	93	84	81	79	79	78	89	77
	0	101	95	93	83	80	79	78	78	89	77
960	20999	101	96	97	86	82	82	80	78	92	80
	14835	101	96	95	85	81	80	79	78	91	79
	8316	101	95	95	85	82	80	80	79	91	79
	0	103	96	95	84	81	79	79	79	91	79

Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free 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.

FWRTC-900

RPM	VOLUME	SOUND POWER OCTAVE BANDS								LwiA	dB(A)
		1	2	3	4	5	6	7	8		
250	9651	71	62	59	59	56	54	52	50	62	50
	6818	69	61	58	57	56	55	54	53	62	50
	3822	69	60	58	57	56	56	55	54	63	51
	0	69	60	58	56	55	56	56	56	63	51
275	10616	75	65	61	62	59	57	55	53	65	53
	7500	73	64	60	60	58	57	56	55	64	52
	4204	73	63	61	59	59	58	57	56	65	53
	0	73	63	60	59	57	58	58	58	65	53
300	11581	78	68	63	64	61	59	57	55	67	55
	8181	75	67	62	62	60	59	58	57	66	54
	4586	75	66	63	61	60	60	59	58	67	55
	0	76	66	63	61	59	59	60	60	67	55
325	12546	79	72	65	65	63	61	59	57	69	57
	8863	77	70	65	63	62	61	60	59	68	56
	4968	76	69	65	63	62	62	61	60	69	57
	0	77	69	65	63	61	61	62	62	69	57
350	13511	80	75	68	67	65	63	61	59	71	59
	9545	78	73	67	65	64	63	62	61	70	58
	5350	78	72	67	65	64	63	62	62	71	59
	0	79	72	67	65	63	63	63	63	71	59
375	14476	81	78	70	68	67	64	62	60	73	61
	10227	80	76	69	67	65	64	63	62	72	60
	5732	79	75	69	66	65	65	64	63	72	60
	0	80	75	69	66	64	64	65	65	72	60
400	15441	82	80	72	70	68	66	64	62	74	62
	10908	81	79	71	68	67	66	65	64	74	62
	6115	80	78	71	68	67	66	66	65	74	62
	0	81	78	70	68	66	66	66	66	74	62
425	16406	83	83	73	71	70	68	66	64	76	64
	11590	82	81	72	70	68	67	66	65	75	63
	6497	82	80	72	70	68	68	67	66	75	63
	0	83	81	72	69	67	67	67	68	75	63
450	17371	84	85	75	72	72	69	67	65	77	65
	12272	83	83	74	71	70	68	67	66	77	65
	6879	83	83	74	71	69	69	68	67	77	65
	0	84	83	73	71	69	68	68	69	77	65
475	18337	85	87	77	73	73	70	68	66	79	67
	12954	84	85	76	72	71	70	69	68	78	66
	7261	84	85	75	72	71	70	70	69	78	66
	0	85	85	75	72	70	69	70	70	78	66
500	19302	86	90	78	74	74	72	70	68	80	68
	13635	85	88	77	73	72	71	70	69	79	67
	7643	85	87	77	74	72	72	71	70	79	67
	0	86	87	76	73	71	70	71	71	79	67
525	20267	87	92	80	75	76	73	71	69	82	70
	14317	86	90	79	74	74	72	71	70	81	69
	8025	86	89	78	75	73	73	72	71	81	69
	0	87	89	78	75	72	71	72	72	81	69
550	21232	88	94	81	76	77	74	72	70	83	71
	14999	87	91	80	75	75	73	72	71	82	70
	8408	87	91	79	76	74	74	73	72	82	70
	0	88	91	79	76	74	72	73	73	82	70
575	22197	89	95	83	77	78	75	73	71	84	72
	15681	89	93	81	77	76	74	73	72	83	71
	8790	88	92	81	77	75	75	74	73	83	71
	0	89	93	80	77	75	73	74	74	83	71
600	23162	90	96	84	79	79	76	74	72	85	73
	16363	90	93	83	78	77	75	74	73	84	72
	9172	90	93	82	78	76	76	75	74	84	72
	0	91	94	82	78	76	74	75	75	84	72
625	24127	92	96	86	80	80	77	75	73	86	74
	17044	92	94	85	79	78	76	75	74	85	73
	9554	91	93	84	79	77	77	76	75	85	73
	0	92	94	84	79	77	75	75	76	85	73
650	25092	94	97	88	81	80	78	76	74	87	75
	17726	93	95	86	80	78	77	76	75	86	74
	9936	93	94	86	81	78	77	77	76	86	74
	0	94	95	85	80	78	76	76	77	86	74
675	26057	95	97	89	82	81	79	77	75	88	76
	18408	95	96	88	81	79	78	77	76	87	75
	10318	95	95	87	82	79	78	78	77	87	75
	0	96	96	87	81	79	77	77	77	87	75
700	27022	97	98	91	83	82	80	78	76	89	77
	19090	96	96	89	82	80	79	78	77	88	76
	10700	96	96	89	82	80	79	78	78	88	76
	0	97	97	89	82	80	78	78	78	88	76
720	27987	98	99	92	84	83	81	79	77	90	78
	19771	98	97	91	83	81	80	79	78	89	77
	11083	98	96	90	83	81	80	79	78	89	77
	0	99	97	90	83	80	79	79	79	89	77

FWRTC-1000

RPM	VOLUME	SOUND POWER OCTAVE BANDS								LwiA	dB(A)
		1	2	3	4	5	6	7	8		
200	10591	66	59	57	57	54	52	50	48	60	48
	7482	64	58	56	55	54	53	52	51	60	48
	4194	63	58	56	55	54	54	53	52	61	49
	0	63	57	56	54	54	54	54	55	61	49
227	12021	71	63	60	60	57	55	53	51	63	51
	8492	69	62	59	58	57	56	55	54	63	51
	4760	68	61	59	58	57	57	56	55	64	52
	0	69	61	59	57	56	57	57	58	64	52
254	13450	76	66	62	63	60	58	56	54	66	54
	9502	74	65	61	61	59	58	57	56	66	54
	5326	73	64	62	60	60	59	58	58	66	54
	0	74	64	62	60	59	59	60	60	67	55
281	14880	80	69	64	66	62	61	59	57	69	57
	10512	78	68	64	63	62	61	60	59	68	56
	5892	77	67	64	63	62	62	61	60	69	57
	0	78	67	64	62	61	61	62	62	69	57
308	16310	82	73	67	67	65	63	61	59	71	59
	11522	80	71	66	65	64	63	62	61	70	58
	6458	79	71	67	65	64	64	63	62	71	59
	0	80	70	67	65	63	63	64	64	71	59
335	17740	83	76	70	69	67	65	63	61	73	61
	12532	81	75	69	67	66	65	64	63	72	60
	7025	80	74	69	67	66	66	65	64	73	61
	0	82	74	69	67	65	65	65	66	73	61
362	19169	84	80	72	71	69	67	65	63	75	63
	13542	83	78	71	69	68	67	66	65	74	62
	7591	82	77	71	69	68	67	66	66	75	63
	0	83	77	71	69	67	67	67	67	75	63
389	20599	86	83	74	72	71	69	67	65	77	65
	14552	84	81	73	71	70	68	67	66	76	64
	8157	83	80	73	71	69	69	68	67	76	64
	0	84	80	73	70	69	68	69	69	76	64
416	22029	87	85	76	74	73	70	68	66	79	67
	15562	85	84	75	72	71	70	69	68	78	66
	8723	85	83	75	72	71	71	70	69	78	66
	0	86	83	75	72	70	70	70	70	78	66
443	23459	88	88	78	75	74	72	70	68	80	68
	16572	87	86	77	74	73	71	70	69	79	67
	9289	86	85	77	74	72	72	71	70	80	68
	0	87	86	76	74	72	71	71	72	79	67
470	24888	89	90	80	76	76	73	71	69	82	70
	17582	88	89	79	75	74	73	72	71	81	69
	9855	87	88	78	75	74	73	72	72	81	69
	0	88	88	78	75	73	72	73	73	81	69
497	26318	90	93	81	77	77	75	73	71	84	72
	18592	89	91	80	76	75	74	73	72	82	70
	10422	88	90	80	77	75	75	74	73	83	71
	0	89	91	79	77	74	73	74	74	82	70
524	27748	91	95	83	78	79	76	74	72	85	73
	19602	90	93	82	78	77	75	74	73	84	72
	10988	89	92	81	78	76	76	75	74	84	72
	0	90	93	81	78	76	75	75	75	84	72
551	29178	91	97	84	79	80	77	75	73	87	75
	20612	91	95	83	79	78	76	75	74	85	73
	11554	90	94	82	79	77	77	76	75	85	73
	0	91	95	82	79	77	76	76	76	85	73
578	30607	93	98	86	81	81	78	76	74	88	76
	21622	92	96	85	80	79	78	76	75	87	75
	12120	92	95	84	81	78	78	77	76	86	74
	0	93	97	84	80	78	77	77	77	86	74
605	32037	95	99	88	82	82	80	77	75	89	77
	22632	94	97	87	81	80	79	78	77	88	76
	12686	94	96	86	82	79	79	78	77	88	76
	0	95	97	86	82	79	78	78	78	88	76
632	33467	96	100	90	83	83	81	79	77	90	78
	23642	96	98	89	83	81	80	79	78	89	77
	13252	96	97	88	83	80	80	79	78	89	77
	0	97	98	88	83	80	79	79	79	89	77
659	34897	98	101	92	85	84	82	80	78	91	79
	24652	98	99	90	84	82	81	80	79	90	78
	13819	97	98	89	84	82	81	80	79	90	78
	0	98	99	89	84	81	80	80	80	90	78
686	36326	100	101	93	86	85	83	81	79	92	80
	25662	99	99	92	85	83	82	80	79	91	79
	14385	99	99	91	85	83	82	81	80	91	79
	0	100	100	91	85	82	81	81	81	91	79
720	38127	102	102	95	87	86	84	82	80	93	81
	26934	101	100	94	86	84	83	82	81	92	80
	15098	101	100	93	86	84	83	82	81	92	80
	0	102	101	93	86	83	82	82	82	92	80

Values shown are for inlet LwiA sound power levels for Installation Type A: Free inlet, free 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.

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FläktWoods is a global leader in air management. We specialise in the design and manufacture of a wide range of air climate and air movement solutions. And our collective experience is unrivalled.

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