

WE CARE FOR YOUR NEEDS.

UPBLAST ROOF EXHAUSTERS

RT/RE Series

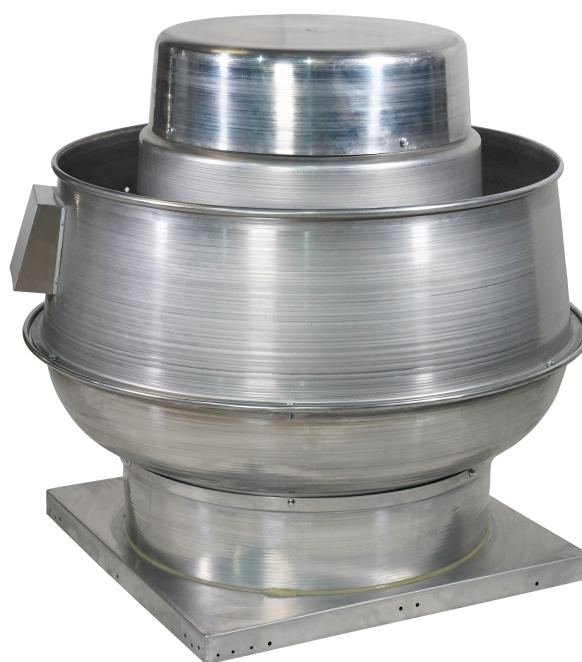


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Overview

RTxxDU | RExxDU | RTxxBU

Energy Twin City's line of quiet, efficient and economical spun aluminum centrifugal power roof and wall exhausters are designed to offer value and long-lasting service in a wide variety of commercial and industrial ventilating applications.

STRUCTURAL INTEGRITY

The spun aluminum housing provide high strength-to-weight performance, reinforced with a rolled bead and seamless, weld-free construction. Heavy-gauge motor mounts ensure rigid and stable power-train assembly.

TYPICAL APPLICATIONS INCLUDE

Agriculture, Automotive, Boilers, Brick, Car Wash, Commercial Plan & Spec, Composting, Ethanol, Food & Beverage, Foundry, General Manufacturing, Glass, HVAC, Institutional & Hospitality, Metal & Minerals, Microchip, OEM, Pharmaceutical, Power Generation, Recycling, Textile, Transportation, etc...

IMPELLER TYPE

Aluminum backward-inclined, non-overloading centrifugal wheels with precision-matched venturis, offering high efficiency, durability, and spark-resistant construction. Steel construction is available for heat and smoke extraction applications.

OPTIONAL CONSTRUCTION

Special Coatings, Spark Resistant, High temperature construction, restaurant exhaust construction.

CONFIGURATIONS

RExxDU (Direct Drive, Roof)

Available in five sizes – 9.0" to 16.0" impeller diameters
External Rotor Motor

RExxDU-W (Direct Drive, Wall)

Available in five sizes – 9.0" to 16.0" impeller diameters
External Rotor Motor

RTxxDU (Direct Drive, Roof)

Available in five sizes – 8.0" to 16.0" impeller diameters
Std. Induction Motor

RTxxDU-W (Direct Drive, Wall)

Available in five sizes – 8.0" to 16.0" impeller diameters
Std. Induction Motor

RTxxDU-K (Direct Drive, Kitchen)

Available in five sizes – 8.0" to 16.0" impeller diameters
Std. Induction Motor

RTxxBU (Belt Driven, Roof)

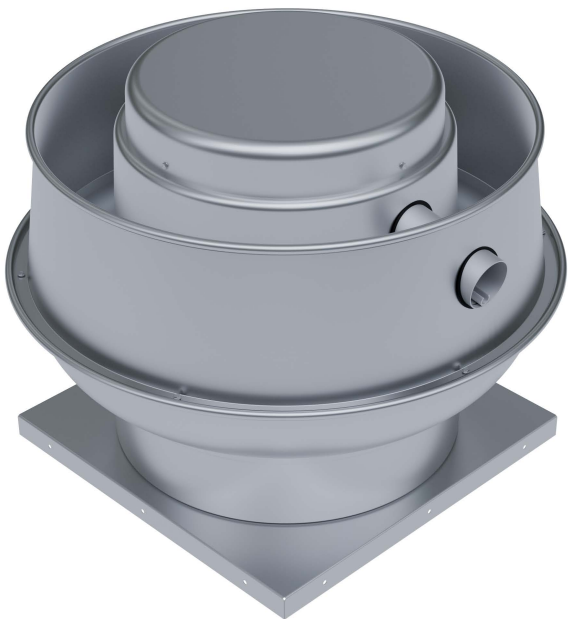
Available in eight sizes – 8.0" to 36.0" impeller diameters
Std. Induction Motor

RTxxBU-W (Belt Driven, Wall)

Available in five sizes – 8.0" to 18.0" impeller diameters
Std. Induction Motor

RTxxBU-K (Belt Driven, Kitchen)

Available in eight sizes – 8.0" to 36.0" impeller diameters
Std. Induction Motor



CERTIFICATIONS



Energy Industrial Company LLC certifies that the models RTXXDU are licensed to bear the AMCA sound and air Seal and that the models RTXXBU are licensed to bear the sound, air and FEI 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. Models RExxDU are not licensed by AMCA International.



CONSTRUCTION FEATURES

UPBLAST ROOF EXHAUSTERS

HOUSINGS

RT and RE housings feature heavy-gauge spun aluminum construction of the shroud and top cover. Shrouds feature a rolled bead edge for rigidity. All housings provide complete protection of the motor and drive assembly, while allowing quick access to these components.

EASY MAINTENANCE ACCESS

By removing the fasteners, the motor chamber and chamber cover lifts off for complete access to all of the drive train components.

CHAMBER COVER

Provides complete protection for the motor and drive assembly, while allowing quick access to these components without the need for tools.

MOTOR CHAMBER

Constructed from heavy-gauge aluminum, rolled and beaded, for durability and appearance.

MOTORS

ODP, TEFC, TEAO and explosion proof, single and three phase motors are carefully matched to the fan load.

INTERNAL WIRING

Single phase motors are factory-wired between the motor and junction box. For either direct drive or belt driven models, an electric disconnect is available.

BEARINGS

Heavy-duty re-greaseable pillow block ball bearings are specifically designed for air handling applications to provide an average life (L-50) of 500,000 hours or more at maximum cataloged operating speeds.

SHAFT

Precision ground and polished with a first critical speed of at least 125% of the fan's maximum operating speed.

DRIVE

Adjustable pitch V-belt drives with cast iron sheaves and heat resistant belts are selected at 150% of the driven motor horsepower.

VIBRATION ISOLATION

Motor and drive assembly is completely isolated from the fan supports by rubber isolators to reduce transmission of noise and vibration.

IMPELLER

Non-overloading impellers with backwardly curved blades are precisely matched to a deep spun venture. All impellers are statically and dynamically balanced to ensure smooth and quiet operation.

GALVANIZED BIRD SCREEN

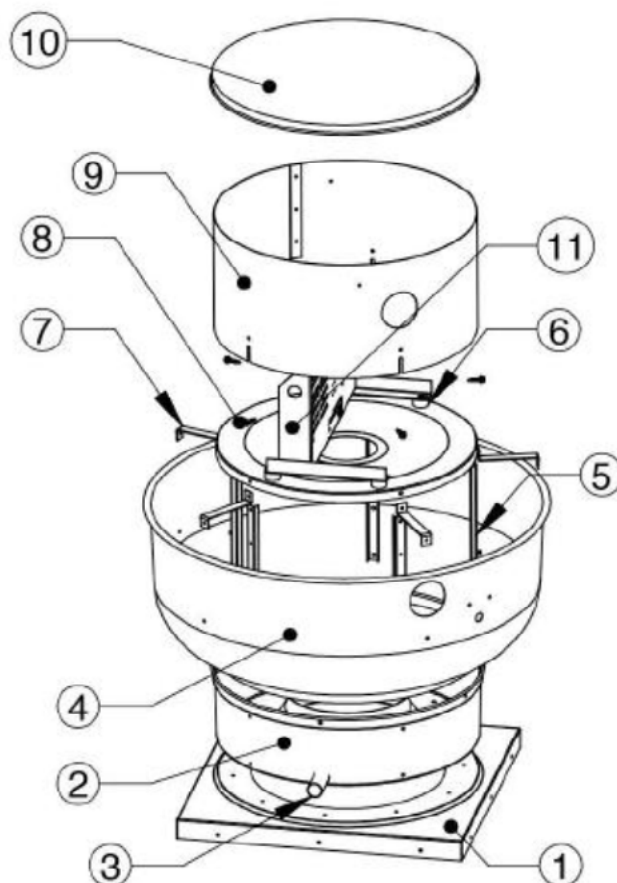
Protects the impeller, inlet and internal components from entry of birds.

CURB CAP

One-piece curb cap/inlet venture assembly provides protection from weather. Pre-punched mounting holes provide easy and accurate attachment to the roof curb.

CONDUIT TUBING

A conduit tube is furnished for running electrical wiring through the curb cap and into the motor compartment.



- | | |
|--------------------|---------------------|
| 1. Base Assembly | 7. Horizontal Brace |
| 2. Wind Band | 8. Fan Plate |
| 3. Drain | 9. Motor Chamber |
| 4. Apron | 10. Chamber Cover |
| 5. Vertical Brace | 11. Motor Plate |
| 6. Rubber Isolator | |



BACKDRAFT DAMPER

With automatic or motorized operation, features a felt seal on the edge of the damper blades for quiet operation. Damper frames are constructed of steel and blades are constructed of aluminum.



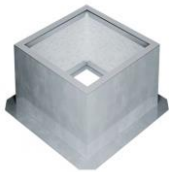
NEMA 1 DISCONNECT SWITCH

Mounted in the motor compartment when ODP or TEFC motors used. When explosion proof motors are specified, a NEMA 7/9 disconnect switch will be shipped loose for field mounting and wiring.



NEMA 4 DISCONNECT SWITCH (OPTIONAL)

Mounted externally and is water- and dust-tight. Switch is available shipped loose for field mounting and wiring or factory mounted and wired.



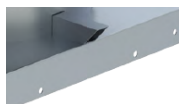
ROOF CURB

Constructed of galvanized steel with continuous, wide base plate (flashing) to ensure watertight seal to roof, wood nailer secured to top ledge, lined with fiberglass fire-resistant, sound-absorbing insulation. Optional aluminum construction is available.



GALVANIZED MESH (STANDARD)

Optional aluminum or stainless steel rigid wire is also available.



DRAIN CONNECTION (DOWNSPOUT)

Removable, for disposal of collected grease.

VARIABLE SPEED CONTROL

Allows the adjustment of airflow for system balancing. Variable speed controllers are solid state design, variable speed controls can be shipped separately.



NEMA 3R DISCONNECT SWITCH

Externally mounted when ODP or TEFC motors are used. NEMA 3R, rain proof, disconnects are available shipped loose for field mounting and wiring or factory mounted and wired.



NEMA 7/9 DISCONNECT SWITCH

Provided on fans with explosion proof motors. The NEMA 7/9 switch is designed for use with fans operating in hazardous environments. NEMA 7/9 disconnect switch will be shipped loose for field mounting and wiring.



VENTED ROOF CURB

Self-flashing style curbs with ventilation louvers allow ambient air in to cool and dilute grease- or smoke-laden airstreams.



GREASE BOX

Removable, for disposal of collected grease. Available for RTxxDK fans only.



WALL MOUNTING BRACKET

Self-flashing with prepunched mounting holes.



ADDITIONAL ACCESSORIES

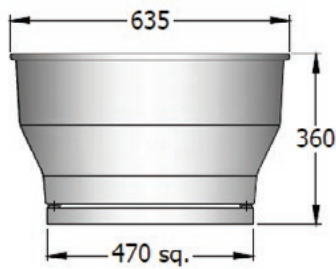
- Special coatings
- AMCA Spark B or C
- Aluminum bird screen
- Stainless steel hardware/accessories
- Insect screen

RT SERIES DIRECT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

➤ RT08DU

Dimensional Data

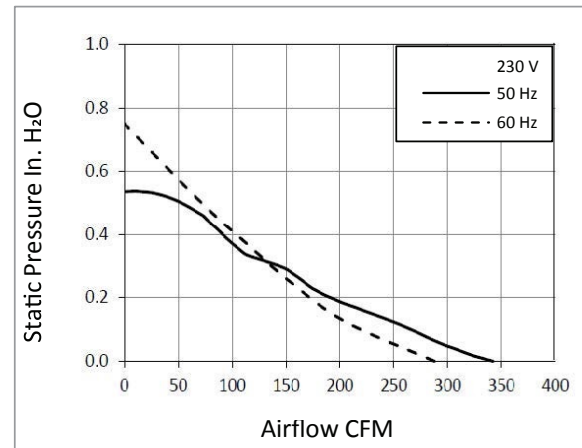


All dimensions in mm.

*Maximum Input Power

Roof Opening
225 x 225
Damper Size
215 x 215
Weight (kg)
22.5

➤ Performance Curve



➤ Performance Data

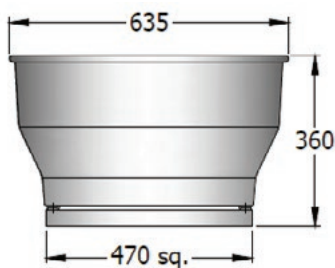
Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.080	0.27	1350	341 4.6	250 4.3	165 4.6	100 5.1	— —	— —	— —	— —
60	0.080	0.30	1550	290 2.4	200 2.8	150 3.2	115 4.2	70 5.0	— —	— —	— —

Performance certified is for installation type A: Free Inlet, Free Outlet. The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories)..

Model RT08DU 60 Hz are not certified by AMCA International.

➤ RT10DU

Dimensional Data

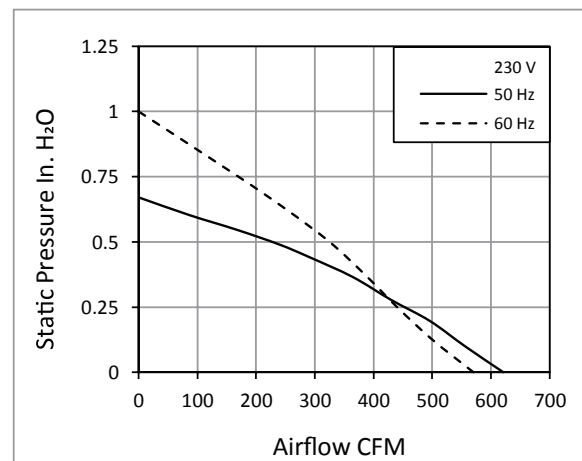


All dimensions in mm.

*Maximum Input Power

Roof Opening
300 x 300
Damper Size
290 x 290
Weight (kg)
23

➤ Performance Curve



➤ Performance Data

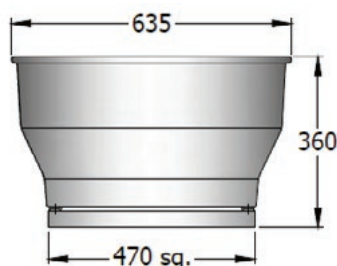
Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.123	0.81	1350	621 8.2	540 7.8	452 7.7	355 7.3	227 6.8	— —	— —	— —
60	0.123	0.90	1550	545 5.8	505 6.5	443 7.0	381 7.1	315 7.1	250 7.2	— —	— —

Performance certified is for installation type A: Free Inlet, Free Outlet. The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories)..

Model RT10DU 60 Hz are not certified by AMCA International.

➤ RT11DU

Dimensional Data

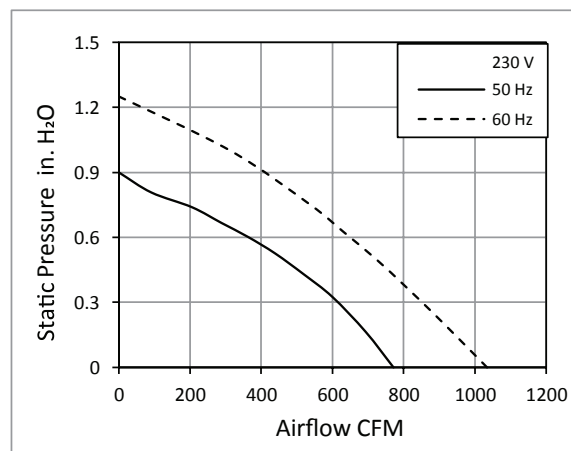


All dimensions in mm.

*Maximum Input Power

Roof Opening
300 x 300
Damper Size
290 x 290
Weight (kg)
25

➤ Performance Curve



➤ Performance Data

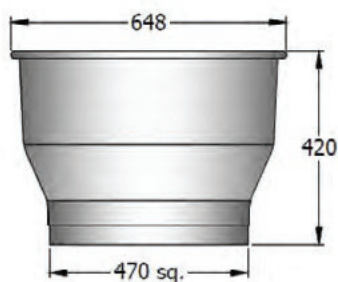
Hz	KW *	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.170	1.26	1375	771 9.0	712 8.6	643 8.3	562 7.9	461 7.5	337 7.2	—	—
60	0.170	1.40	1725	1010 10.3	949 10.1	880 10.1	795 10.1	720 10.3	625 10.4	535 10.7	—

Performance certified is for installation type A: Free Inlet, Free Outlet. The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).

Model RT11DU 60 Hz are not certified by AMCA International.

➤ RT13DU

Dimensional Data

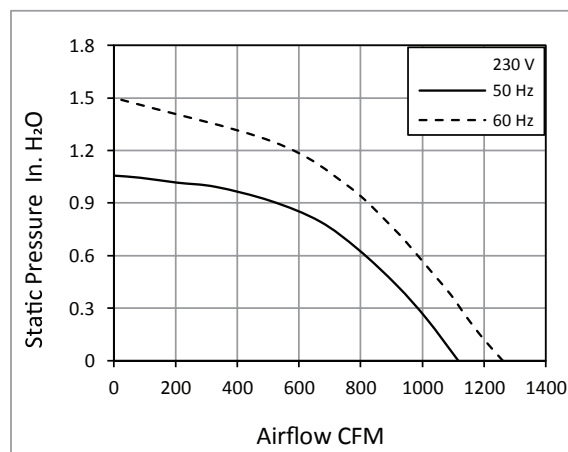


All dimensions in mm.

*Maximum Input Power

Roof Opening
300 x 300
Damper Size
290 x 290
Weight (kg)
28

➤ Performance Curve



➤ Performance Data

Hz	KW *	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.247	1.71	1375	1117 12.2	1063 11.8	1008 11.3	945 10.9	875 10.5	799 10.1	703 9.7	—
60	0.247	1.90	1725	1250 14	1190 13.0	1130 12.7	1050 12	1010 11.5	970 11.5	899 11.5	750 11.0

Performance certified is for installation type A: Free Inlet, Free Outlet. The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).

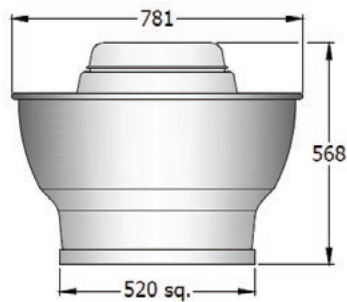
Model RT13DU 60 Hz are not certified by AMCA International.

RT SERIES DIRECT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

RT16DU

Dimensional Data

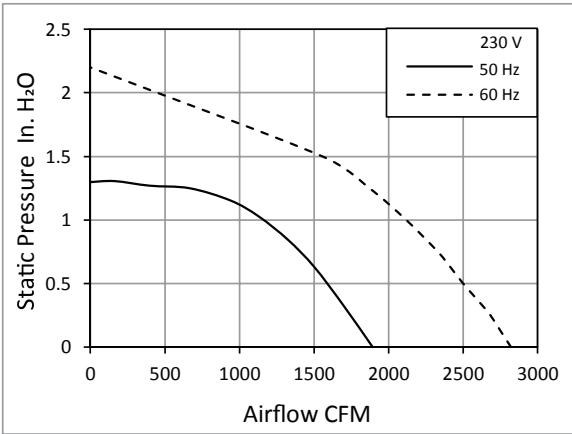


All dimensions in mm.

Roof Opening
400 x 400
Damper Size
390 x 390
Weight (kg)
33

*Maximum Input Power

Performance Curve



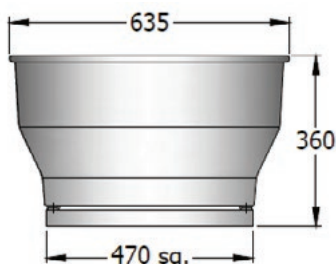
Performance Data

Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.420	3.51	1375	1894	1820	1745	1668	1587	1506	1404	1160
				15.5	15.0	14.8	14.4	14.1	13.7	13.2	12.3
60	0.420	3.90	1725	2800	2710	2650	2600	2500	2400	2310	2100
				16.9	16.9	16.5	16	16	15.7	15.5	14.3

Performance certified is for installation type A: Free Inlet, Free Outlet. The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).
Model RT16DU 60 Hz are not certified by AMCA International.

➤ RE09DU

Dimensional Data

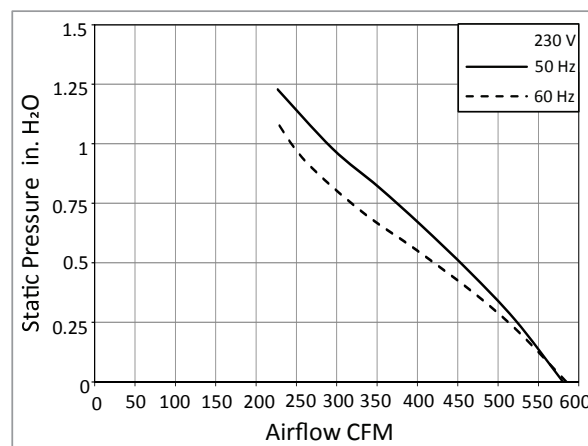


All dimensions in mm.

*Maximum Input Power

Roof Opening
225 x 225
Damper Size
215 x 215
Weight (kg)
22.5

➤ Performance Curve

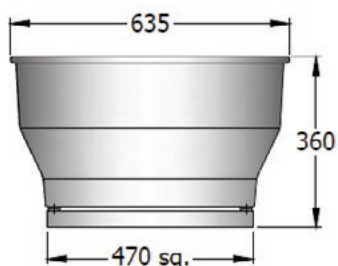


➤ Performance Data

Hz	KW *	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.13	0.55	2450	581 17.5	552 17.5	523 17.5	489 13.7	453 13.7	415 13.7	374 13.7	289 11.0
60	0.17	0.74	2700	585 17.8	549 17.8	512 16.0	469 16	420 11.8	369 11.8	320 11.8	246 9.1

➤ RE10DU

Dimensional Data

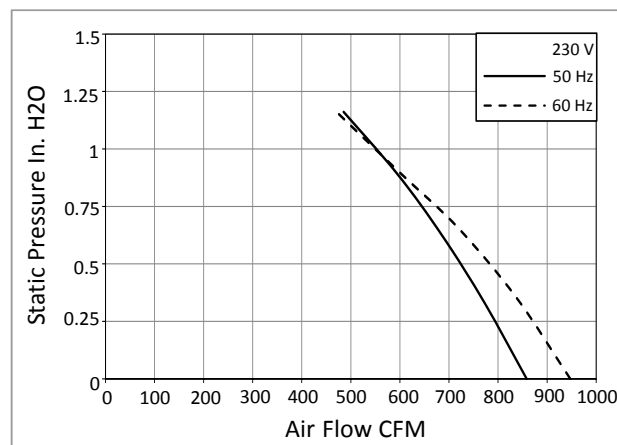


All dimensions in mm.

*Maximum Input Power

Roof Opening
300 x 300
Damper Size
290 x 290
Weight (kg)
23

➤ Performance Curve



➤ Performance Data

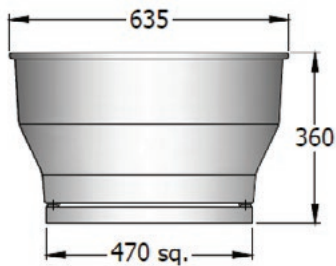
Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.18	0.78	2800	858 18.9	826 18.9	793 18.9	759 18.9	722 18.9	686 16.3	643 16.3	551 13.3
60	0.22	1.05	2850	947 23	908 23	869 23	829 23	780 23	731 17.6	673 17.6	550 17.6

RE SERIES DIRECT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

➤ RE12DU

Dimensional Data

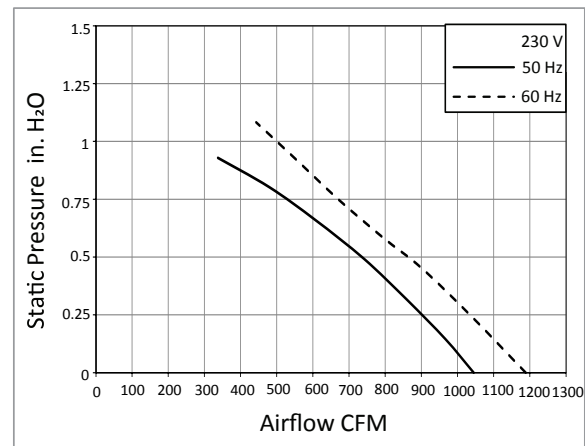


All dimensions in mm.

*Maximum Input Power

Roof Opening
300 x 300
Damper Size
290 x 290
Weight (kg)
25

➤ Performance Curve

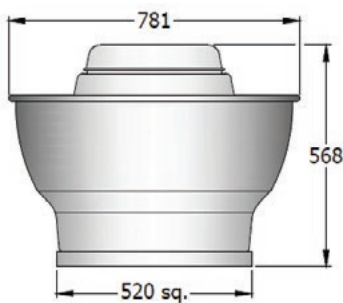


➤ Performance Data

Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.13	0.60	1400	1045 11	977 11	901 11	820 8.8	735 8.8	635 7.1	527 7.1	— —
60	0.18	0.80	1580	1189 14	1112 14	1035 14	952 11.5	862 11.5	764 9.2	670 9.2	500 8.8

➤ RE13DU

Dimensional Data

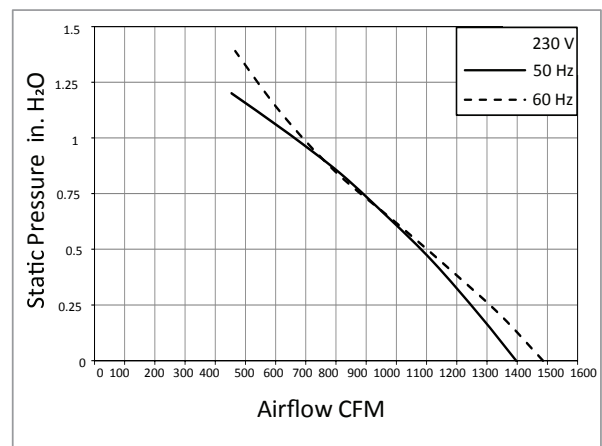


All dimensions in mm.

*Maximum Input Power

Roof Opening
400 x 400
Damper Size
390 x 390
Weight (kg)
33

➤ Performance Curve

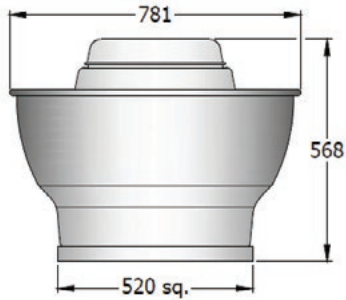


➤ Performance Data

Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.20	0.88	1340	1396 14.2	1322 14.2	1246 14.2	1166 14.2	1080 12.0	986 12.0	661 12.0	— —
60	0.28	1.25	1380	1485 15.3	1400 15.3	1308 14.2	1206 14.2	1100 14.2	994 11.9	695 11.9	542 11.9

➤ RE16DU

Dimensional Data

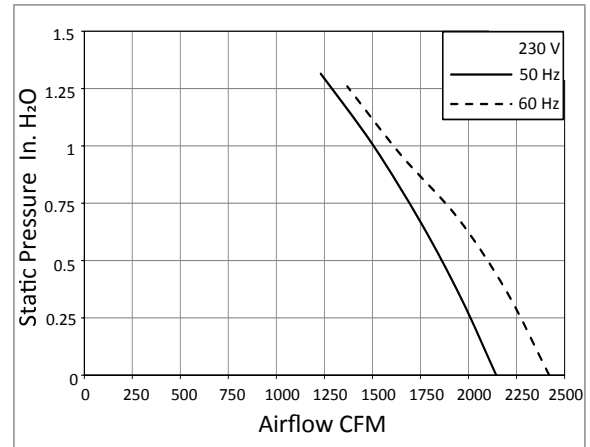


All dimensions in mm.

*Maximum Input Power

Roof Opening
400 x 400
Damper Size
390 x 390
Weight (kg)
33

➤ Performance Curve



➤ Performance Data

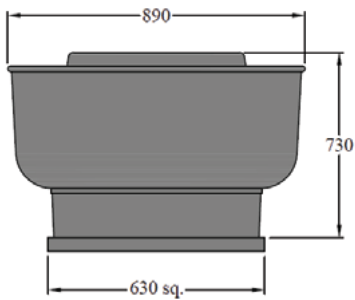
Hz	KW*	A	RPM	0.000" Pst	0.125" Pst	0.250" Pst	0.375" Pst	0.500" Pst	0.625" Pst	0.750" Pst	1.000" Pst
				CFM Sones	CFM Sones	CFM Sones	CFM Sones	CFM Sones	CFM Sones	CFM Sones	CFM Sones
50	0.43	1.50	1380	2144	2076	2008	1936	1857	1778	1505	1288
				23	23	23	23	23	19.4	19.4	19.4
60	0.61	1.80	1656	2420	2344	2268	2190	2091	1992	1612	1378
				27	27	27	25	25	25	21	21

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

➤ RT08BU

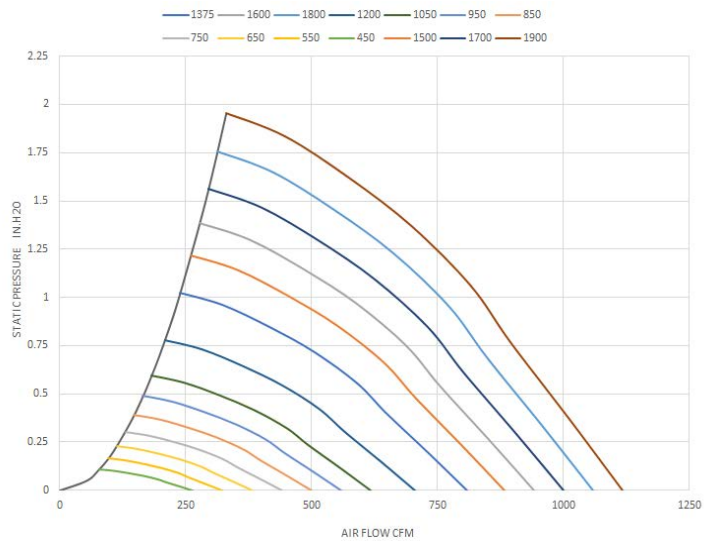
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
400 x 400	81
Damper Size	Weight (kg)
390 x 390	55

➤ Performance Curve



➤ Performance Data

HP	RPM	0.000" Pst				0.250" Pst				0.500" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/4	450	265	0.01	2.3	N/A*								
	550	324	0.01	3.6	N/A*								
	650	383	0.02	4.9	1.378								
	750	442	0.03	6.2	1.631	237	0.03	4.7	1.779				
	850	501	0.05	7.5	1.478	338	0.05	6.1	1.738				
	950	560	0.07	8.8	1.298	420	0.07	7.5	1.593	162	0.06	6.4	1.553
	1050	619	0.09	10.3	1.161	490	0.09	8.9	1.461	323	0.09	7.9	1.537
	1150	678	0.12	11.8	0.994	560	0.12	10.5	1.277	425	0.12	9.4	1.422
	1250	736	0.15	13.4	0.878	629	0.16	12.2	1.094	519	0.16	11.1	1.267
	1350	795	0.19	15.1	0.760	696	0.20	13.9	0.970	598	0.20	12.8	1.146
	1450	854	0.24	16.9	0.654	762	0.25	15.7	0.851	669	0.25	14.5	1.018
	1550	914	0.29	18.7	0.580	827	0.30	17.5	0.766	739	0.30	16.4	0.926
1/2	1650	972	0.34	20.5	0.525	891	0.36	19.4	0.686	808	0.36	18.4	0.837
	1750	1,030	0.42	22.4	0.452	954	0.43	21.4	0.613	877	0.43	20.4	0.754
	1850	1,090	0.48	24.4	0.416	1,018	0.50	23.4	0.559	944	0.51	22.4	0.680

HP	RPM	1.000" Pst				1.500" Pst				1.750" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/4	1450	403	0.23	12.7	1.181								
	1550	528	0.30	14.6	1.091								
	1650	630	0.36	16.5	1.033								
1/2	1750	720	0.43	18.6	0.959	468	0.41	16.9	1.004				
	1850	801	0.52	20.6	0.868	592	0.49	19.1	0.982	452	0.46	18.2	0.988

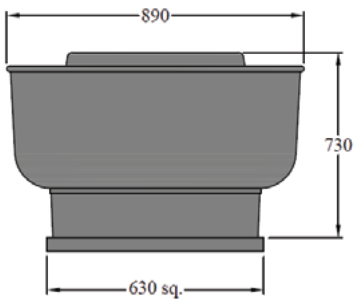
Performance certified is for Installation Type A: Free Inlet, Free Outlet with Partition. Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances.

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

➤ RT12BU

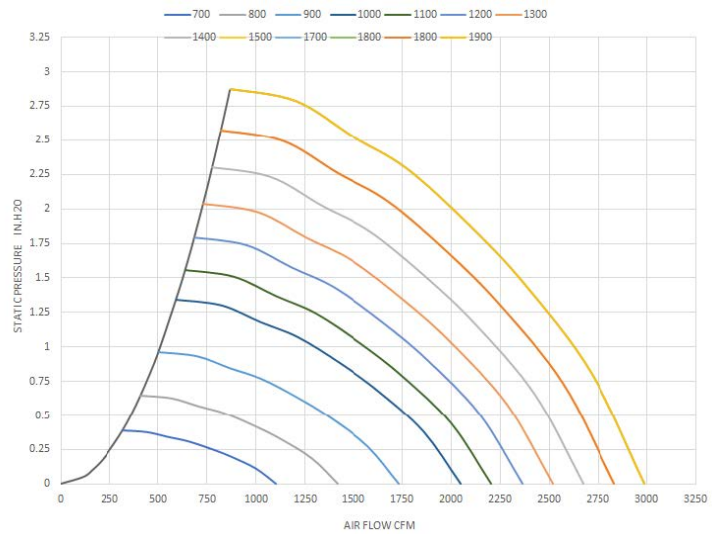
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
400 x 400	81
Damper Size	Weight (kg)
390 x 390	55

➤ Performance Curve



➤ Performance Data

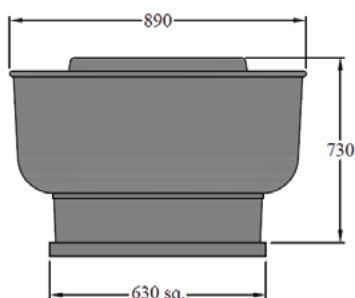
HP	RPM	0.000" Pst				0.500" Pst				1.000" Pst				1.500" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/4	700	1,102	0.05	7.9	2.233												
	750	1,180	0.06	8.7	2.125												
	800	1,259	0.07	9.5	2.028	515	0.08	7.8	2.066								
	900	1,417	0.10	11.2	1.738	878	0.13	9.3	2.010								
	1000	1,574	0.13	13.4	1.545	1,139	0.18	11.2	1.858								
	1050	1,652	0.16	14.6	1.364	1,254	0.21	12.2	1.755								
	1100	1,731	0.18	15.7	1.284	1,370	0.23	13.3	1.734	355	0.18	12.8	1.354				
	1200	1,889	0.23	18.0	1.120	1,574	0.29	15.4	1.580	993	0.31	14.4	1.569				
	1300	2,046	0.29	20.8	0.977	1,772	0.36	17.9	1.434	1,317	0.40	16.6	1.538				
	1350	2,125	0.32	22.1	0.924	1,868	0.41	19.2	1.333	1,447	0.45	17.8	1.487				
	1400	2,204	0.36	23.5	0.857	1,965	0.45	20.5	1.277	1,577	0.50	19.0	1.445	948	0.46	18.6	1.405
1 1/2	1500	2,361	0.45	25.6	0.742	2,150	0.54	22.9	1.165	1,811	0.60	21.4	1.365	1,334	0.60	20.5	1.417
	1600	2,518	0.54	27.7	0.662	2,321	0.64	25.3	1.061	2,030	0.71	23.8	1.282	1,634	0.75	22.8	1.351
	1700	2,676	0.65	30.0	0.587	2,490	0.75	27.8	0.972	2,232	0.84	26.3	1.186	1,896	0.90	25.2	1.285
	1800	2,833	0.78	32.4	0.519	2,657	0.88	30.3	0.884	2,430	0.97	28.9	1.113	2,132	1.05	27.7	1.225
	1850	2,912	0.84	33.9	0.496	2,740	0.96	31.8	0.837	2,528	1.05	30.2	1.068	2,247	1.13	29.0	1.194
	1900	2,991	0.91	35.5	0.470	2,824	1.03	33.3	0.803	2,625	1.13	31.6	1.029	2,362	1.21	30.3	1.167

HP	RPM	2.000" Pst				2.500" Pst				3.000" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
3/4	1600	1,030	0.68	22.7	1.289								
	1700	1,416	0.87	24.7	1.302								
1 1/2	1800	1,756	1.05	26.8	1.295	1,195	0.97	26.8	1.229				
	1850	1,892	1.16	28.1	1.253	1,388	1.09	27.9	1.236				
	1900	2,029	1.26	29.4	1.228	1,581	1.22	28.9	1.231	538	0.92	29.2	0.867

Performance certified is for Installation Type A: Free Inlet, Free Outlet with Partition. Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances.

➤ RT14BU

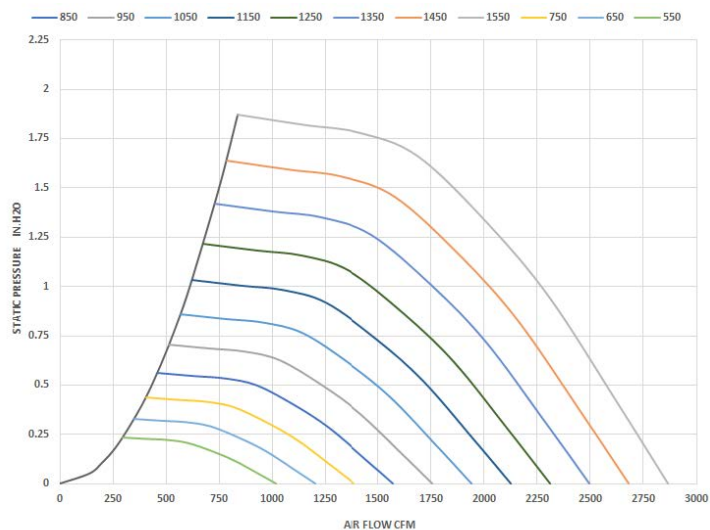
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
400 x 400	90
Damper Size	Weight (kg)
390 x 390	55

➤ Performance Curve



➤ Performance Data

HP	RPM	0.000" Pst				0.250" Pst				0.500" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/4	550	1,017	0.03	5.4	2.475	60	0.02	3.8	1.206				
	750	1,387	0.07	9.0	2.158	1,079	0.10	7.2	2.130				
	850	1,572	0.11	11.1	1.742	1,307	0.13	9.3	2.005				
	900	1,664	0.13	12.1	1.604	1,416	0.15	10.4	1.902	1,094	0.17	8.8	1.891
1/3	1000	1,850	0.17	14.2	1.407	1,626	0.21	12.5	1.609	1,372	0.23	11.0	1.736
	1050	1,942	0.20	15.3	1.279	1,731	0.24	13.6	1.509	1,499	0.26	12.1	1.671
	1100	2,034	0.24	16.4	1.140	1,833	0.28	14.8	1.384	1,618	0.30	13.3	1.567
1/2	1150	2,127	0.27	17.4	1.067	1,935	0.31	15.9	1.322	1,737	0.34	14.5	1.484
	1300	2,404	0.40	21.0	0.834	2,235	0.43	19.6	1.110	2,060	0.47	18.3	1.274
	1350	2,497	0.44	22.4	0.789	2,334	0.48	21.0	1.042	2,167	0.52	19.6	1.212
3/4	1400	2,590	0.49	23.8	0.738	2,432	0.53	22.4	0.985	2,271	0.57	21.0	1.158
	1450	2,682	0.54	25.2	0.695	2,530	0.59	23.8	0.923	2,375	0.63	22.4	1.096
1	1500	2,774	0.60	26.8	0.648	2,628	0.65	25.2	0.871	2,478	0.70	23.9	1.031
	1550	2,867	0.66	28.3	0.610	2,725	0.71	26.7	0.827	2,581	0.76	25.4	0.988

HP	RPM	1.000" Pst				1.500" Pst				1.750" Pst				2.000" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/2	1150	1,044	0.35	12.4	1.464												
	1300	1,630	0.52	15.9	1.431												
	1350	1,777	0.58	17.2	1.387	219	0.29	16.0	0.954								
	1400	1,905	0.64	18.6	1.340	1,142	0.60	16.9	1.264								
1	1450	2,033	0.70	20.0	1.300	1,540	0.73	17.9	1.323	26	0.29	18.0	0.695				
	1500	2,157	0.77	21.4	1.250	1,706	0.81	19.2	1.302	1,043	0.69	18.9	1.165				
	1550	2,281	0.84	22.8	1.207	1,873	0.89	20.5	1.286	1,564	0.88	19.8	1.260	25	0.35	20.0	0.642

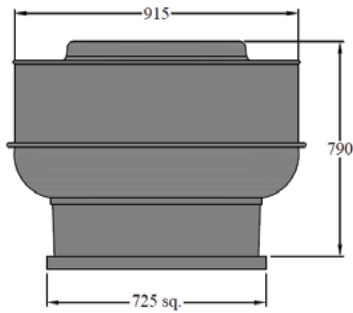
Performance certified is for Installation Type A: Free Inlet, Free Outlet with Partition. Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances.

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

➤ RT16BU

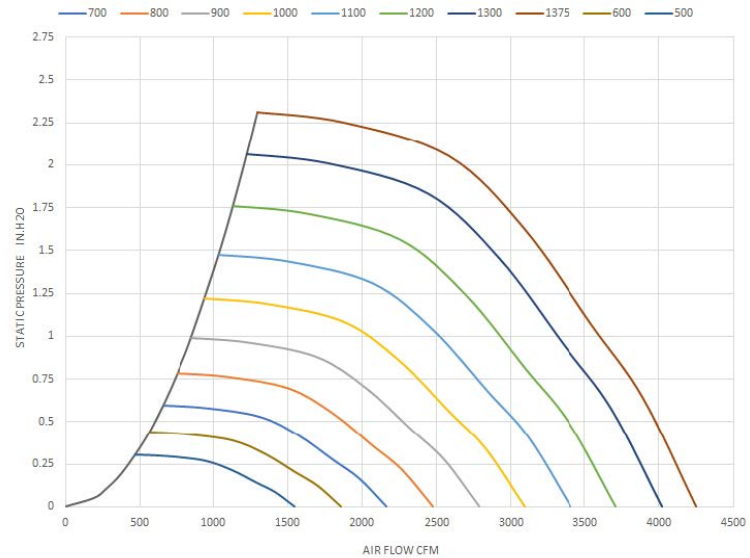
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
500 x 500	90
Damper Size	Weight (kg)
490 x 490	66

➤ Performance Curve



➤ Performance Data

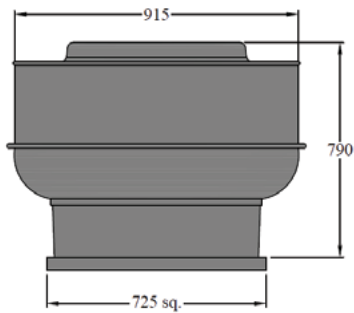
HP	RPM	0.000" Pst				0.500" Pst				1.000" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/4	500	1,547	0.08	6.9	2.137								
	600	1,856	0.14	9.5	1.637								
	650	2,010	0.18	10.9	1.426								
	700	2,165	0.22	12.4	1.280	1,412	0.24	7.8	1.711				
1/3	750	2,320	0.27	13.7	1.137	1,672	0.30	10.3	1.605				
1/2	850	2,630	0.39	16.2	0.912	2,082	0.43	12.8	1.389				
	900	2,784	0.46	17.5	0.824	2,281	0.50	14.2	1.306	976	0.38	11.6	1.302
1	1050	3,248	0.73	22.5	0.613	2,848	0.79	19.1	1.032	2,292	0.82	17.4	1.239
	1100	3,403	0.84	24.3	0.559	3,033	0.89	20.8	0.974	2,535	0.95	18.9	1.174
1 1/2	1150	3,558	0.97	26.2	0.507	3,214	1.01	22.6	0.909	2,737	1.07	20.4	1.120
	1200	3,712	1.09	28.2	0.471	3,396	1.14	24.5	0.850	2,939	1.20	22.0	1.068
	1250	3,867	1.24	30.4	0.432	3,564	1.29	26.4	0.789	3,135	1.35	23.6	1.010
	1300	4,022	1.39	32.5	0.400	3,731	1.44	28.4	0.739	3,331	1.51	25.3	0.957
2	1350	4,177	1.56	34.8	0.370	3,896	1.61	30.6	0.690	3,522	1.68	27.2	0.908
	1375	4,254	1.65	36.0	0.356	3,979	1.70	31.7	0.668	3,617	1.77	28.2	0.884

HP	RPM	1.500" Pst				2.000" Pst				2.500" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1 1/2	1100	1,120	0.67	15.7	1.129								
	1150	2,006	1.01	18.4	1.209								
	1200	2,380	1.21	21.1	1.174								
	1250	2,640	1.39	22.7	1.124								
	1300	2,901	1.57	24.3	1.085	1,961	1.36	22.0	1.112				
2	1350	3,112	1.75	26.0	1.039	2,557	1.70	24.8	1.122				
	1375	3,218	1.84	26.9	1.020	2,691	1.81	26.2	1.104	216	0.69	20.7	0.627

Performance certified is for Installation Type A: Free Inlet, Free Outlet with Partition. Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances.

RT18BU

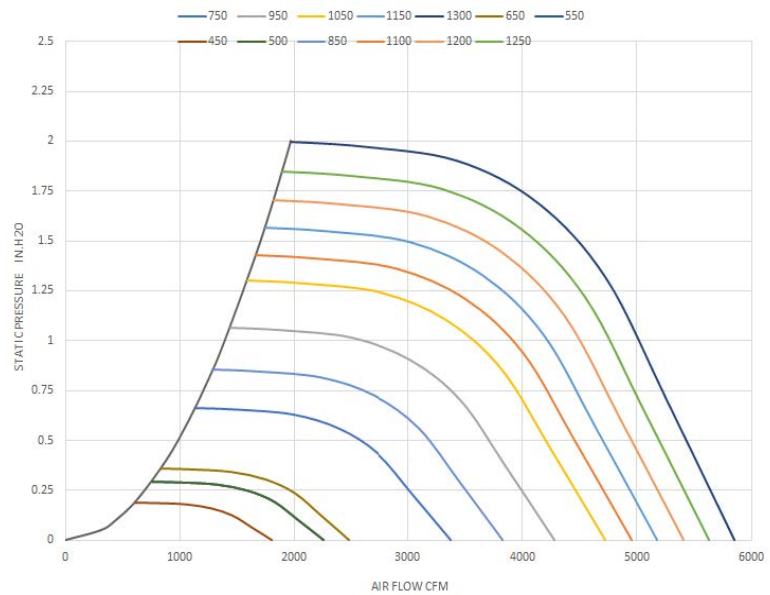
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
500 x 500	100
Damper Size	Weight (kg)
490 x 490	74

Performance Curve



Performance Data

HP	RPM	0.000" Pst				0.500" Pst				1.000" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/4	400	1,801	0.05	5.5	3.079								
	500	2,252	0.11	7.8	2.243								
	600	2,702	0.18	10.7	1.772								
1/3	700	3,152	0.29	13.8	1.349								
	750	3,378	0.36	15.2	1.184	2,576	0.44	10.6	1.610				
	800	3,603	0.43	16.7	1.067	2,923	0.53	12.3	1.511				
3/4	850	3,828	0.53	18.2	0.931	3,187	0.63	14.0	1.389				
	900	4,053	0.62	19.8	0.847	3,451	0.73	15.7	1.299	1,006	0.43	12.3	1.194
	950	4,278	0.73	21.6	0.763	3,708	0.86	17.5	1.187	2,672	0.85	14.0	1.358
1	1000	4,503	0.85	23.4	0.692	3,964	0.99	19.3	1.103	3,225	1.03	15.7	1.331
	1050	4,728	0.99	25.4	0.626	4,215	1.15	21.3	1.011	3,578	1.20	17.6	1.261
	1100	4,954	1.13	27.5	0.575	4,466	1.30	23.3	0.947	3,930	1.37	19.5	1.208
1 1/2	1150	5,179	1.30	29.6	0.524	4,712	1.48	25.4	0.878	4,214	1.56	21.6	1.135
	1200	5,404	1.47	31.8	0.483	4,957	1.65	27.4	0.828	4,499	1.76	23.6	1.073
	1250	5,629	1.66	34.3	0.446	5,200	1.85	29.7	0.775	4,762	1.97	25.7	1.013
2	1300	5,854	1.86	36.7	0.414	5,441	2.06	32.0	0.728	5,022	2.20	27.9	0.956

HP	RPM	1.500" Pst				1.750" Pst				2.250" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1 1/2	1100	1,179	0.76	16.6	1.045								
	1150	3,107	1.48	18.5	1.216								
2	1200	3,714	1.76	20.3	1.204	1,665	1.13	19.3	1.050				
	1250	4,132	2.01	22.4	1.165	3,453	1.91	21.1	1.173				
3	1300	4,486	2.26	24.5	1.120	4,057	2.24	23.1	1.160	242	0.71	21.4	0.593

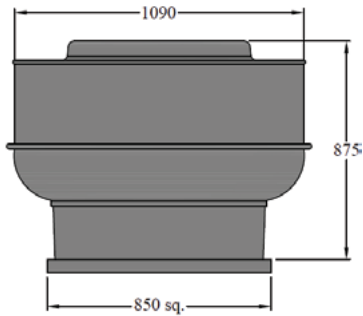
Performance certified is for Installation Type A: Free Inlet, Free Outlet with Partition. Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances.

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

➤ RT24BU

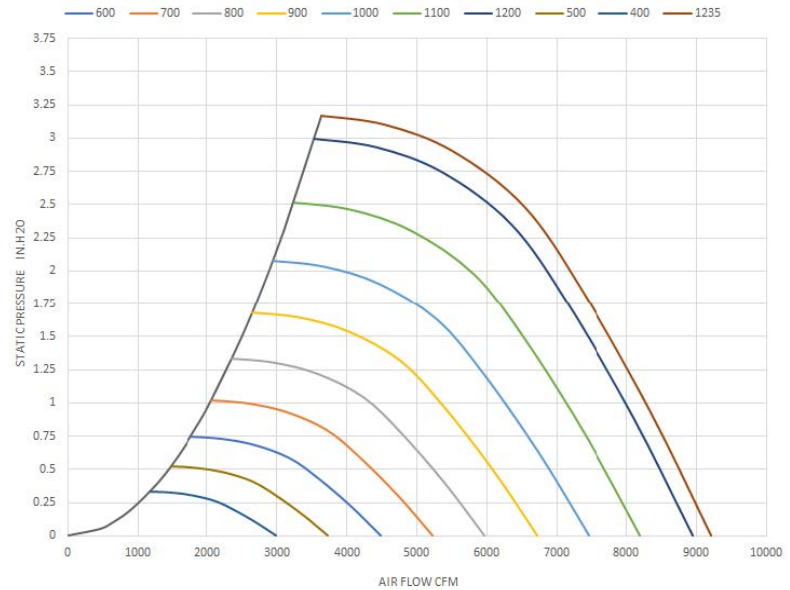
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
635 x 635	100
Damper Size	Weight (kg)
625 x 625	99

➤ Performance Curve



➤ Performance Data

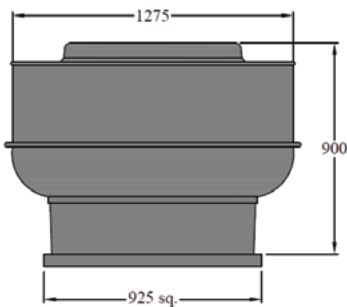
HP	RPM	0.000" Pst				0.500" Pst				1.000" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/4	400	2,983	0.14	7.6	2.321								
	500	3,729	0.28	10.8	1.586	2,058	0.31	8.4	1.827				
3/4	600	4,475	0.49	14.6	1.132	3,433	0.57	12.4	1.616				
	700	5,221	0.78	18.8	0.845	4,370	0.87	16.6	1.349	2,713	0.83	14.2	1.406
1 1/2	800	5,967	1.16	23.0	0.655	5,242	1.27	21.0	1.111	4,358	1.36	18.8	1.330
2	900	6,713	1.65	27.7	0.520	6,087	1.77	25.7	0.927	5,369	1.90	24.1	1.166
	950	7,086	1.95	30.2	0.465	6,492	2.08	28.2	0.842	5,819	2.22	26.6	1.080
3	1000	7,458	2.26	32.8	0.422	6,896	2.39	30.8	0.778	6,269	2.54	29.1	1.015
	1050	7,831	2.63	35.6	0.381	7,294	2.78	33.7	0.708	6,706	2.92	31.9	0.944
5	1075	8,018	2.82	37.1	0.364	7,494	2.97	35.1	0.681	6,924	3.12	33.2	0.912
	1100	8,204	3.01	38.5	0.349	7,693	3.16	36.6	0.657	7,143	3.31	34.6	0.886
	1125	8,390	3.23	40.0	0.332	7,890	3.39	38.1	0.628	7,357	3.54	36.1	0.853
	1150	8,577	3.46	41.6	0.317	8,087	3.62	39.7	0.603	7,570	3.77	37.7	0.824
	1175	8,764	3.69	43.2	0.304	8,284	3.84	41.2	0.582	7,784	4.00	39.2	0.798
	1200	8,950	3.91	44.7	0.292	8,481	4.07	42.7	0.562	7,998	4.23	40.8	0.775
	1235	9,211	4.26	46.9	0.276	8,756	4.42	44.9	0.534	8,293	4.59	43.0	0.741

HP	RPM	1.500" Pst				2.000" Pst				2.500" Pst				3.250" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
2	900	4,256	1.92	21.5	1.248												
	950	5,024	2.29	24.1	1.223												
3	1000	5,546	2.65	26.8	1.162	4,117	2.50	24.9	1.173								
	1050	6,050	3.06	30.0	1.095	5,082	3.05	27.7	1.170								
5	1075	6,302	3.27	31.6	1.066	5,468	3.30	29.1	1.159								
	1100	6,554	3.48	33.2	1.041	5,834	3.56	30.5	1.143	4,100	3.17	28.6	1.113				
	1125	6,780	3.71	34.8	1.009	6,092	3.81	32.2	1.113	4,795	3.62	30.2	1.127				
	1150	7,006	3.95	36.3	0.979	6,350	4.05	33.9	1.090	5,307	3.98	31.8	1.127				
	1175	7,232	4.18	37.9	0.954	6,608	4.30	35.6	1.067	5,699	4.28	33.4	1.121				
	1200	7,458	4.41	39.4	0.932	6,866	4.55	37.3	1.046	6,084	4.59	35.0	1.112	512	1.83	32.0	0.471
	1235	7,769	4.78	41.2	0.895	7,218	4.94	39.6	1.012	6,577	5.03	37.1	1.093	2,975	3.48	34.1	0.953

Performance certified is for Installation Type A: Free Inlet, Free Outlet with Partition. Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances.

RT30BU

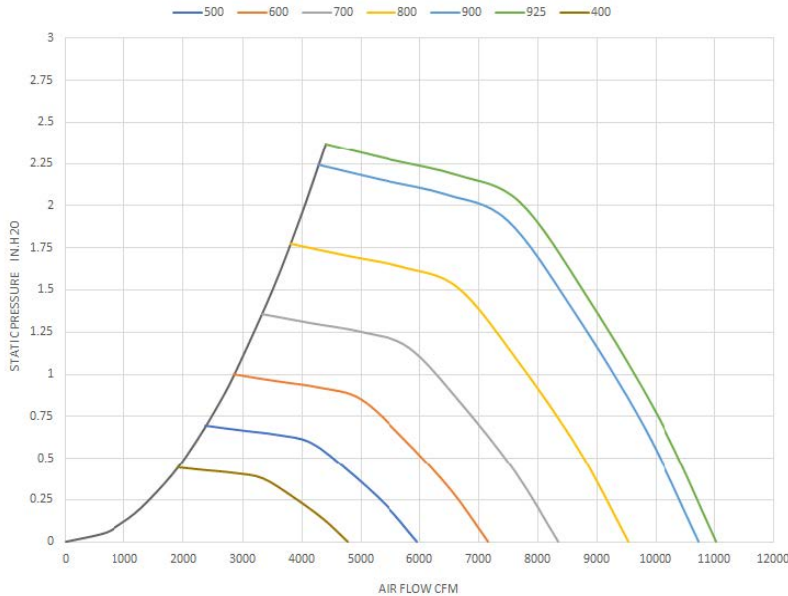
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
710 x 710	112
Damper Size	Weight (kg)
700 x 700	115

Performance Curve



Performance Data

HP	RPM	0.000" Pst				0.500" Pst				1.000" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
1/2	400	4,768	0.37	11.8	1.524	215	0.13	9.1	1.019				
	425	5,066	0.44	13.0	1.377	2,282	0.41	10.0	1.556				
3/4	450	5,364	0.53	14.3	1.225	3,585	0.58	10.9	1.650				
	475	5,662	0.62	15.6	1.113	4,121	0.69	11.8	1.586				
1	500	5,960	0.72	16.9	1.015	4,535	0.81	12.7	1.487				
	525	6,258	0.84	18.2	0.919	4,914	0.95	14.0	1.376				
	550	6,556	0.96	19.5	0.845	5,293	1.09	15.3	1.292				
1 1/2	575	6,854	1.10	20.8	0.774	5,672	1.23	16.7	1.226				
	600	7,152	1.25	22.1	0.712	6,037	1.40	18.0	1.147				
	625	7,451	1.41	23.5	0.659	6,402	1.56	19.4	1.092	4,645	1.51	17.8	1.274
2	650	7,749	1.59	24.9	0.609	6,752	1.74	20.8	1.032	5,460	1.77	18.9	1.265
	675	8,047	1.78	26.3	0.566	7,103	1.92	22.2	0.984	5,882	1.99	20.1	1.210
	700	8,345	1.99	27.8	0.525	7,454	2.11	23.6	0.939	6,297	2.23	21.2	1.154
3	725	8,643	2.21	29.3	0.490	7,788	2.36	25.2	0.878	6,686	2.50	22.7	1.092
	750	8,941	2.44	30.9	0.459	8,122	2.60	26.7	0.831	7,076	2.76	24.2	1.046
	775	9,239	2.70	32.6	0.429	8,456	2.85	28.2	0.789	7,466	3.03	25.7	1.004
5	800	9,537	2.97	34.4	0.403	8,790	3.10	29.8	0.754	7,855	3.30	27.2	0.969
	825	9,835	3.25	36.2	0.379	9,110	3.42	31.7	0.709	8,214	3.62	28.9	0.923
	850	10,133	3.56	38.0	0.357	9,430	3.74	33.6	0.671	8,572	3.94	30.6	0.885
	875	10,431	3.88	39.9	0.337	9,749	4.05	35.5	0.640	8,930	4.25	32.3	0.854
	900	10,729	4.22	41.9	0.318	10,069	4.37	37.4	0.613	9,289	4.57	34.0	0.825
	925	11,027	4.59	42.9	0.301	10,385	4.74	39.4	0.582	9,640	4.94	36.0	0.792
HP	RPM	1.500" Pst				2.000" Pst				2.500" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
3	700	815	0.88	21.6	0.707								
	725	3,140	1.80	22.5	1.020								
	750	4,849	2.46	23.3	1.107								
	775	6,046	2.93	24.1	1.141								
	800	6,753	3.31	25.0	1.122	430	1.06	26.4	0.496				
5	825	7,166	3.67	26.6	1.073	2,441	2.10	27.3	0.883				
	850	7,580	4.03	28.2	1.032	4,565	3.27	28.2	0.994				
	875	7,994	4.39	29.9	0.998	6,184	4.08	29.1	1.057				
	900	8,407	4.75	31.5	0.969	7,171	4.63	30.0	1.071	825	1.73	31.6	0.550
	925	8,808	5.17	33.3	0.932	7,819	5.11	31.4	1.054	3,026	3.11	32.5	0.868

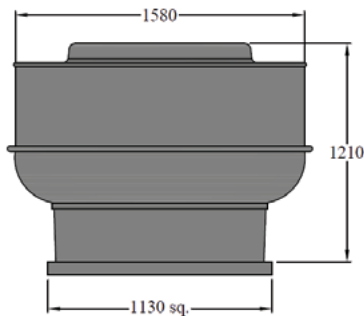
Performance certified is for Installation Type A: Free Inlet, Free Outlet with Partition. Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at a distance of 1.5 m (5 ft) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances.

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

➤ RT36BU

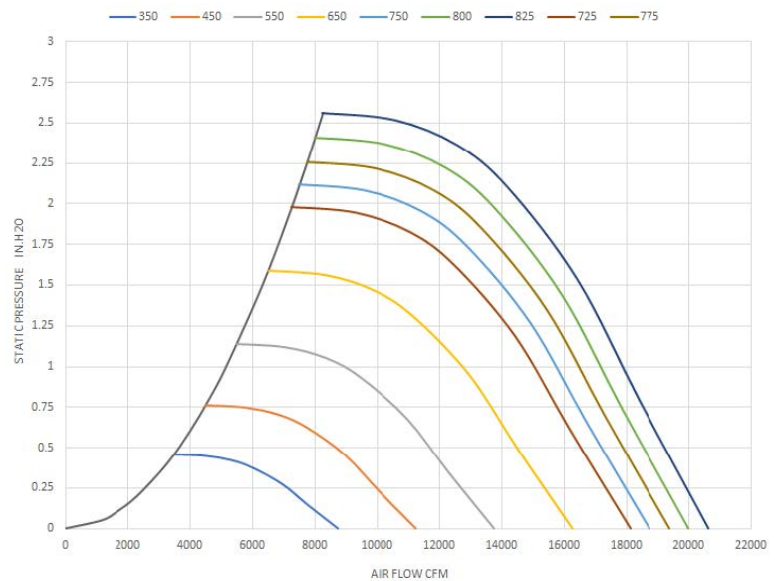
Dimensional Data



All dimensions in mm.

Roof Opening	Max Mtr. Frame
915 x 915	132
Damper Size	Weight (kg)
905 x 905	223

➤ Performance Curve



➤ Performance Data

HP	RPM	0.000" Pst				0.500" Pst				1.000" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
3/4	350	8,755	0.57	14.3	1.741	588	0.28	10.7	0.861				
	400	10,006	0.85	17.6	1.362	6,911	1.11	13.8	1.606				
1 1/2	450	11,257	1.21	21.0	1.090	8,715	1.56	16.8	1.437				
	475	11,882	1.46	22.9	0.959	9,467	1.84	18.8	1.326				
2	500	12,508	1.72	24.7	0.860	10,218	2.12	20.9	1.242				
	525	13,133	1.97	26.5	0.790	10,970	2.41	22.9	1.173				
3	550	13,758	2.22	28.4	0.736	11,722	2.69	24.9	1.123	9,027	2.89	20.7	1.250
	575	14,384	2.58	30.4	0.663	12,420	3.08	27.0	1.040	10,119	3.30	23.0	1.222
5	650	16,260	3.66	36.6	0.530	14,515	4.24	33.4	0.883	12,800	4.71	29.8	1.079
	675	16,885	4.13	38.8	0.488	15,201	4.74	35.7	0.828	13,553	5.24	32.2	1.027
7 1/2	700	17,511	4.61	41.1	0.454	15,886	5.23	37.9	0.784	14,307	5.77	34.6	0.984
	750	18,761	5.62	45.5	0.399	17,249	6.30	42.5	0.707	15,782	6.89	39.5	0.908
10	775	19,387	6.20	47.9	0.373	17,923	6.90	44.9	0.670	16,498	7.53	41.9	0.869
	825	20,637	7.48	52.6	0.329	19,263	8.23	49.7	0.604	17,912	8.92	46.8	0.796

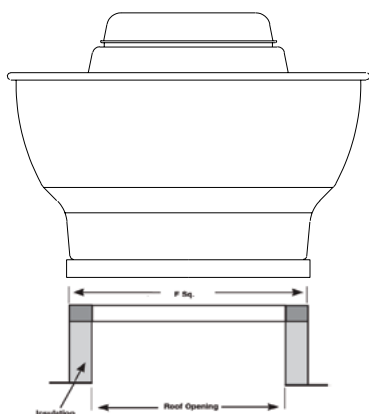
HP	RPM	1.500" Pst				2.000" Pst				2.750" Pst			
		CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI	CFM	BHP	Sones	FEI
5	650	9,834	4.71	25.9	1.129								
	675	11,125	5.34	28.3	1.122								
7 1/2	700	12,237	5.96	30.8	1.103								
	750	14,053	7.28	35.8	1.035	11,306	7.23	32.2	1.062				
10	775	14,939	8.00	38.3	1.000	12,627	8.07	34.7	1.059				
	825	16,598	9.53	43.6	0.932	14,745	9.74	40.1	1.021	2,584	4.45	39.4	0.580

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ACCESSORIES DIMENSIONS

UPBLAST ROOF EXHAUSTERS

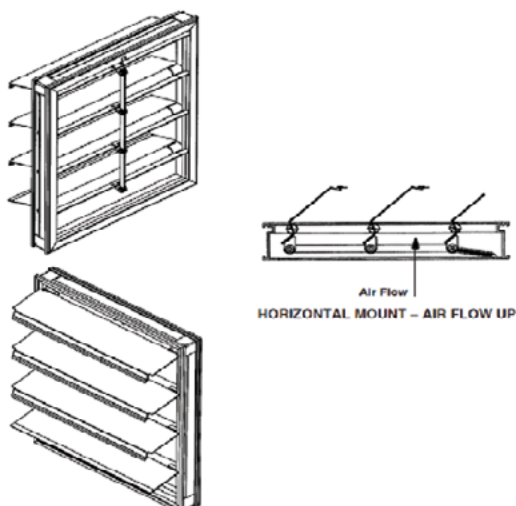
ROOF CURB



MODEL NO.	Roof Opening	Curb Size F Sq.
RE09DU	225 x 225	460 x 460
RE10DU	300 x 300	460 x 460
RE12DU	300 x 300	460 x 460
RE13DU	400 x 400	510 x 510
RE16DU	400 x 400	510 x 510
RT08DU	225 x 225	460 x 460
RT10DU	300 x 300	460 x 460
RT11DU	300 x 300	460 x 460
RT13DU	300 x 300	460 x 460
RT16DU	400 x 400	510 x 510
RT08/12BU	400 x 400	620 x 620
RT14BU	400 x 400	620 x 620
RT16BU	500 x 500	720 x 720
RT18BU	500 x 500	720 x 720
RT24BU	635 x 635	840 x 840
RT30BU	710 x 710	920 x 920
RT36BU	915 x 915	1120 x 1120

All dimensions in mm.

BACKDRAFT DAMPER



MODEL NO.	Curb Size F Sq.
RE09DU	215 x 215
RE10DU	290 x 290
RE12DU	290 x 290
RE13DU	390 x 390
RE16DU	390 x 390
RT08DU	215 x 215
RT10DU	290 x 290
RT11DU	290 x 290
RT13DU	290 x 290
RT16DU	390 x 390
RT08/12BU	390 x 390
RT14BU	390 x 390
RT16BU	490 x 490
RT18BU	490 x 490
RT24BU	625 x 625
RT30BU	700 x 700
RT36BU	905 x 905

All dimensions in mm.

Notes:

1. All dimensions are in mm unless otherwise noted.
2. Dimensions are not to be used for construction.
3. Damper sizes are nominal.

PERFORMANCE

Fans are tested in accordance with AMCA Standard 210 and AMCA Standard 300 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. Fans are licensed to bear the AMCA certified ratings seal for both sound and air performance; and FEI where applicable.

CONSTRUCTION

Fans shall be constructed of aluminum for durability and appearance. Fan spinning shall have rolled bead edge for rigidity. Units shall have a deep venture inlet to prevent snow and rain entry into the building. The curb cap shall include pre-punched mounting holes for ease of attachment.

INSTALLATION

Fans shall bear a permanently attached nameplate displaying model and serial number of the unit for future identification.

MOTOR ASSEMBLY

RT motors shall be mounted out of the exhaust airstream and RE motors shall be mounted within the exhaust airstream.

IMPELLER

Fan impellers shall be of the centrifugal backward inclined/curved type, constructed of aluminum and containing a matching inlet venturi for optimum unit performance. Impellers shall be statically and dynamically balanced.

MOTOR

Motors shall be heavy-duty ball bearing type, closely matched to the fan load. All single-phase TEAO motors shall contain thermal overload protection. Motors for use with speed control shall provide good speed controllability without any objectionable noise.

FINISH AND COATING

Fans shall be constructed of aluminum. Optional coatings shall be available.

ACCESSORIES

When specified, accessories such as backdraft damper, roof curb, variable speed controller, NEMA 4 disconnect switch, aluminum bird screen, aluminum insect screen and special coatings shall be provided by Energy Twin City.

FACTORY RUN TEST

Prior to shipment, all fans shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each impeller shall be statically and dynamically balanced in accordance with ISO1940 G 2.5 or 6.3 "Balance Quality and Vibration Levels for Fans."

GUARANTEE

The manufacturer shall guarantee the workmanship and materials for its roof and wall mounted centrifugal exhaust fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

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