WE CARE FOR YOUR NEEDS.

UPBLAST ROOF EXHAUSTERS

RT/RE Series





CATALOGUE ID: ETC-RT/RE U-2022-ED00V0 SEPTEMBER 2022

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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

Durable housings of spun aluminum have a high strengthto-weight ratio and incorporate a rolled bead for additional strength. There are no welds to break or seams to leak. The heavy-gauge motor mounting platform provides positive rigidity between all components of the 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

IMPELLER TYPE

Backward Inclined/Curved Centrifugal

OPTIONAL CONSTRUCTION

Special Coatings, IEC-ex Spark Resistant

CERTIFICATIONS

AMCA Sound and Air Performance, IEC, CE Mark for Electrical and RoHS

CERTIFICATIONS



Energy Industrial Company L.L.C certifies that the models RT08DU, RT10DU, RT11DU. RT13DU & RT16DU shown herein are licensed to bear the AMCA Seal. The rating 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.

Model RExxDU and RTxxBU are not licensed by AMCA International.



CE Conformity with Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits.



Office Building Application

CONFIGURATIONS

RExxDU (Direct Drive, Roof)

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

RExxDW (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

RTxxDW (Direct Drive, Wall)

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

RTxxDK (Direct Drive, Kitchen)

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

RTxxBU (Belt Driven, Roof)

Available in seven sizes – 12.0" to 36.0" impeller diameters Std. Induction Motor

RTxxBW (Belt Driven, Wall)

Available in seven sizes – 12.0" to 36.0" impeller diameters Std. Induction Motor

RTxxBK (Belt Driven, Kitchen)

Available in seven sizes – 12.0° to 36.0° impeller diameters Std. Induction Motor



Restriction of Hazardous Substances in Electrical and Electronic Equipment. 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

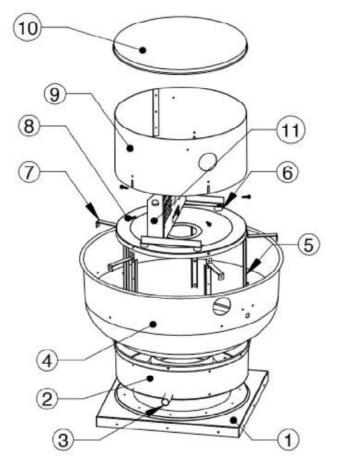
Protects the impeller, inlet and internal components from entry of birds.

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



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.

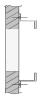
WALL MOUNTING BRACKET

Self-flashing with prepunched mounting holes.









ADDITIONAL ACCESSORIES

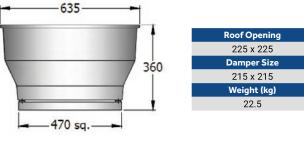
- Special coatings
- AMCA Spark B or C
- Aluminum bird screen
- Stainless steel hardware/accessories
- Insect screen

RT SERIES DIRECT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

> **RT08DU**

Dimensional Data



*Maximum Input Power

> Performance Data

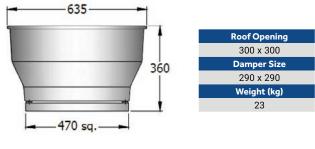
Hz KW* 50 0.080 60 0.080

Performance certifi lated 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

6

> Performance Data

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

All dimensions in mm.

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
		341	250	165	100	_	_	_	_
0.27	1350	4.6	4.3	4.6	5.1	-	-	-	_
0.70	4550	290	200	150	115	70	-	-	_
0.30	1550	2.4	2.8	3.2	4.2	5.0	_	_	-
fied 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 calcul.									

> Performance Curve

> Performance Curve

230 V 50 Hz

- - · 60 Hz

300 350 400

200 250

Airflow CFM

1.0

0.8

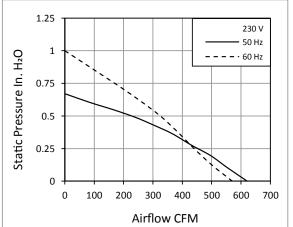
0.6

0.4

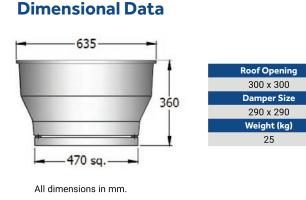
0.2

0.0 0 50 100 150

Static Pressure In. H₂O

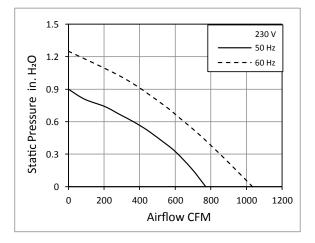


> RT11DU



*Maximum Input Power

> Performance Curve



> Performance Data

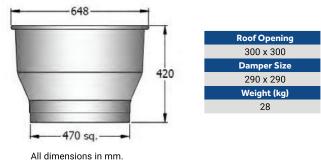
Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.170	1.26	1375	771	712	643	562	461	337	-	-
50	0.170	1.20	10/0	9.0	8.6	8.3	7.9	7.5	7.2	-	-
60	0.170	1.40	1725	1010	949	880	795	720	625	535	-
00		1.40	1,25	10.3	10.1	10.1	10.1	10.3	10.4	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



*Maximum Input Power

> Performance Data

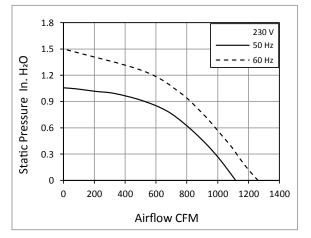
0.000" Pst 0.125" Pst 0.250" Pst 0.375" Pst 0.500" Pst 0.625" Pst 0.750" Pst 1.000" Pst Hz KW* RPM CFM CFM CFM CFM CFM CFM CFM CFM Α Sones Sones Sones Sones Sones Sones Sones Sones 703 1117 1063 1008 945 875 799 _ 1.71 1375 12.2 11.8 11.3 10.9 9.7 50 0.247 10.5 10.1 _ 1250 1190 1130 1050 1010 970 899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

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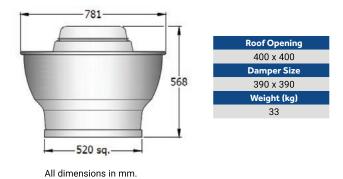


RT SERIES DIRECT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

> **RT16DU**

Dimensional Data



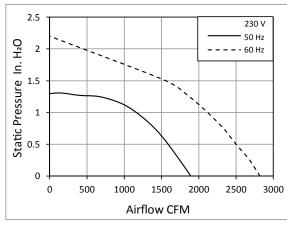
*Maximum Input Power

> Performance Data

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

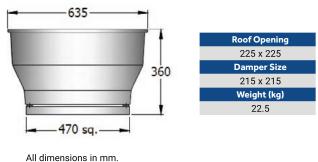
Performance certified is for installation type A: Free Inlet, Free Outlet. The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance 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.

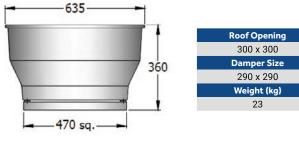
*Maximum Input Power

> 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	0.10	0.55	2450	581	552	523	489	453	415	374	289
50	0.13	0.55	2450	17.5	17.5	17.5	13.7	13.7	13.7	13.7	11.0
60	0.17	0.74	2700	585	549	512	469	420	369	320	246
00	0.17	17 0.74 2	2700	17.8	17.8	16.0	16	11.8	11.8	11.8	9.1

> RE10DU

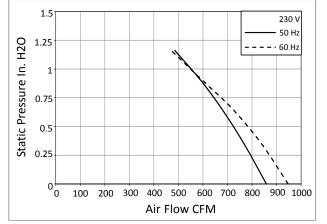
Dimensional Data



All dimensions in mm.

*Maximum Input Power

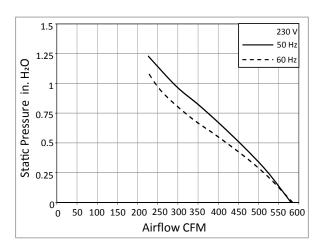
> Performance Curve



> 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	0.10	0.70	3 2800	858	826	793	759	722	686	643	551
50	0.18	0.78	2800	18.9	18.9	18.9	18.9	18.9	16.3	16.3	13.3
60	0.00	1.05	2050	947	908	869	829	780	731	673	550
60	0.22 1.05		2850	23	23	23	23	23	17.6	17.6	17.6

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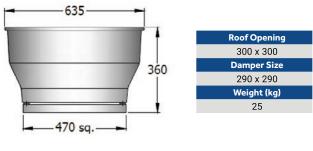


RE SERIES DIRECT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

> RE12DU

Dimensional Data



All dimensions in mm.

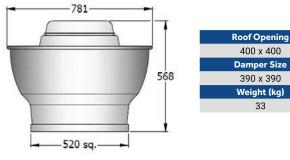
*Maximum Input Power

> Performance Data

Hz	KW*	A	RPM	0.000" Pst CFM	0.125" Pst CFM	0.250" Pst CFM	0.375" Pst CFM	0.500" Pst CFM	0.625" Pst CFM	0.750" Pst CFM	1.000" Pst CFM
				Sones							
50	0.10	0.00	1400	1045	977	901	820	735	635	527	_
50	0.13	0.60	1400	11	11	11	8.8	8.8	7.1	7.1	-
60	0.10	0.00	1580	1189	1112	1035	952	862	764	670	500
60	0.18	0.80	1280	14	14	14	11.5	11.5	9.2	9.2	8.8

> RE13DU

Dimensional Data

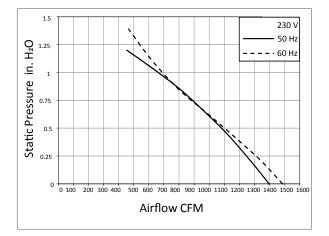




*Maximum Input Power

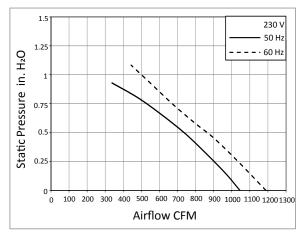
> Performance Data

Performance	Curve
renormance	CUIVE



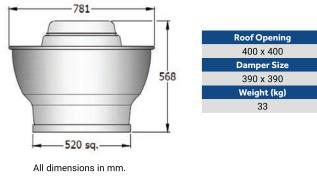
Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.20	0.88	1240	1396	1322	1246	1166	1080	986	661	-
50	0.20	0.88	1340	14.2	14.2	14.2	14.2	12.0	12.0	12.0	-
(0)	0.00	1.05	1000	1485	1400	1308	1206	1100	994	695	542
60	0.28	1.25	1380	15.3	15.3	14.2	14.2	14.2	11 9	11 9	11 9

33



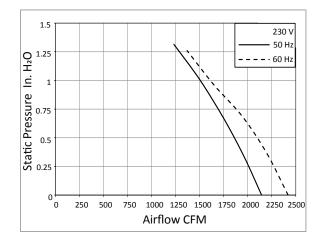
> RE16DU

Dimensional Data



*Maximum Input Power

> Performance Data



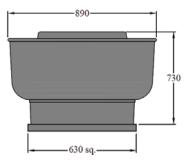
Hz	KW*	A	RPM	0.000" Pst CFM Sones	0.125" Pst CFM Sones	0.250" Pst CFM Sones	0.375" Pst CFM Sones	0.500" Pst CFM Sones	0.625" Pst CFM Sones	0.750" Pst CFM Sones	1.000" Pst CFM Sones
50	0.40	1.50	1000	2144	2076	2008	1936	1857	1778	1505	1288
50	0.43	1.50	1380	23	23	23	23	23	19.4	19.4	19.4
60	0.61	1.00	1656	2420	2344	2268	2190	2091	1992	1612	1378
60	0.61	1.80	1656	27	27	27	25	25	25	21	21

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

> RT12BU

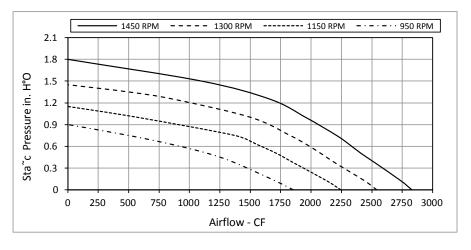
Dimensional Data



All dimensions in mm.

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

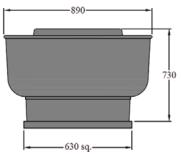
> Performance Curve



Motor HP	CEM I		0.125" Pst CFM		0.375" Pst 0.500" Pst CFM CFM			0.625 CFI		0.750 CFI	" Pst M	1.000" Pst CFM			1.250" Pst CFM		
		Sones	внр	Sones	внр	Sones	внр	Sones	внр	Sones	внр	Sones	внр	Sones	внр	Sones	внр
	700	13	68	11	51	_		_		_		_		-		_	
	700	9.4	0.06	8.7	0.07	-	-	-	-	-	-	-	-	-	-	-	-
1/4	850	16	58	148	85	108	34	76	9	-		-		-		-	
	850	11.5	0.11	10.8	0.13	10.2	0.14	9.6	0.12	-	-	-	-	-	-	-	-
	950	18	53	17(03	137	71	11	55	85	8	-		-		-	
	950	12.9	0.16	12.3	0.17	11.4	0.19	11.0	0.20	10.4	0.19	-	-	-	-	-	-
1/3	1050	20	20	189	94	159	97	14:	22	121	19	93	0	-		-	
1/3	1030	13.7	0.21	13.2	0.22	12.2	0.25	11.7	0.26	11.6	0.26	11.2	0.25	-	-	-	-
	1100	21	46	202	23	174	40	159	91	14(08	119	97	-		-	
	1100	14.5	0.24	13.9	0.26	12.9	0.29	12.5	0.30	12.3	0.31	12.2	0.31	-	-	-	-
	1150	22	44	212	28	18	54	17 [.]	19	15	56	13	73	57:	2	-	
	1150	15.3	0.28	14.7	0.29	13.7	0.33	13.3	0.34	12.9	0.35	12.9	0.36	12.0	0.28	-	-
1/2	1250	24	39	233	33	207	77	190	53	183	31	16	76	130	0	-	
	1200	17.2	0.36	16.8	0.37	15.7	0.42	15.1	0.43	14.7	0.44	14.4	0.45	14.5	0.45	-	-
	1300	25	40	243	39	219	95	208	30	196	53	18:	27	150	13	869	9
	1000	18.1	0.40	17.6	0.42	16.6	0.46	16.0	0.48	15.4	0.49	14.7	0.51	14.9	0.52	14.5	0.45
	1350	26	35	253	36	230	03	219	90	208	33	19	56	165	54	124	-8
	1000	18.9		18.4	0.47	17.4	0.51	16.8	0.53	16.3	0.54	15.7	0.56	15.1	0.58	15.6	0.56
3/4	1450	28		273	38	252	24	24	13	231	15	22	10	195	5	166	3
0, 1		21.0		20.0	0.58	19.3	0.62	18.7	0.65	18.2	0.66	17.6	0.68	16.6	0.70	16.6	0.72
	1500	29	25	283	33	262		252	20	242	21	232	27	209	0	181	1
	1000	22.0	0.61	21.0	0.63	20.0	0.68	19.7	0.71	19.2	0.72	18.7	0.74	17.5	0.77	17.3	0.79

> RT14BU

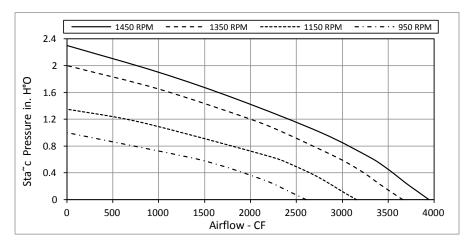
Dimensional Data



All dimensions in mm.

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

> Performance Curve



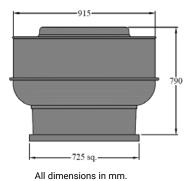
Motor HP	Fan RPM	0.000" Pst CFM		0.125" Pst CFM		0.250" Pst CFM		0.375" Pst CFM		0.500" Pst CFM		0.625" Pst CFM		1.000" Pst CFM		1.500" Pst CFM	
		Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	внр	Sones	внр
	050	22	95	20	77	18	35	15	22	11	04						
	850	9.7	0.15	9.0	0.17	8.3	0.18	7.4	0.18	6.3	0.17	-	-	-	-	-	-
1/4	950	26	06	24	15	22	26	19	77	16	99	13	55	-		-	
1/4	950	11.8	0.23	11.2	0.24	10.6 0.26 10.0		0.26	8.8 0.26		7.6 0.25		-	-	-	-	
	1000	2720		2536		23	60	21	35	18	70	15	88	-		-	
	1000	12.6	0.26	12.0	0.27	11.4	0.29	10.8	0.30	9.8	0.30	8.5	0.29	-	-	-	-
	1050	2885		2708		2549		23	2348		2106		1854		•	-	
	1030	13.4	0.31	12.8	0.32	12.4	0.34	11.7	0.35	11.0	0.36	9.8	0.35	-	-	-	-
1/2	1150	31	55	29	95	28	47	26	83	24	84	22	57	12	51	-	
172		16.0	0.40	15.5	0.42	15.1	0.44	14.5	0.46	13.8	0.47	12.9	0.47	9.8	0.40	-	-
	1200	3264		31	09	3965		28	12	26	27	24	12	16	29	-	
	1200	17.3	0.45	16.8	0.46	16.3	0.48	15.8	0.50	15.1	0.52	14.4	0.52	10.6	0.49	-	-
	1300	35	77	34	35	33	06	31	73	30	19	28	44	223	38	-	
3/4	1000	18.7	0.59	18.2	0.60	17.7	0.62	17.3	0.65	16.8	0.67	16.2	0.68	13.3	0.67	-	-
5/ 4	1350	36		35	20	33	87	32	62	31	16	29	44	23	63	-	
	1000	19.0		18.5	0.65	18.1	0.67	17.7	0.69	17.2	0.71	16.6	0.73	14.0	0.72	-	-
	1400	38		36	75	35	46	34	26	32	93	31	40	25	87	93	9
	1100	19.9	0.71	19.4	0.73	19.0	0.75	18.6	0.77	18.2	0.79	17.6	0.81	15.5	0.82	13.2	0.53
1	1450	39		38		36		35		34			09	37		184	
		21.0		21.0	0.81	20.0	0.83	19.7	0.85	19.3	0.87	18.8	0.90	16.8	0.91	14.0	0.85
	1500	40		39		38:		37		36		34		29		220	
	,000	22.0	0.87	22.0	0.89	21.0	0.91	21.0	0.93	20.0	0.96	19.8	0.98	18.1	1.01	14.6	0.97

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

> RT16BU

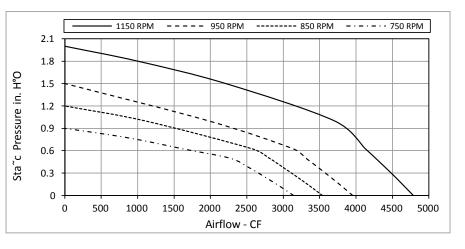
Dimensional Data



Roof Opening	Max Mtr. Frame
500 x 500	90
Domnor Sizo	Wojaht (ka)

66

> Performance Curve



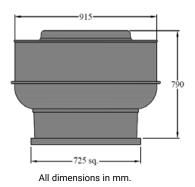
> Performance Data

490 x 490

Motor HP	Fan RPM	0.000 CF)" Pst M	0.125" Pst CFM		0.250" Pst CFM		0.375" Pst CFM		0.500" Pst CFM		0.625" Pst CFM		1.000" Pst CFM		1.500" Pst CFM		
		Sones	внр	Sones	BHP	Sones	внр	Sones	BHP	Sones	BHP	Sones	BHP	Sones	внр	Sones	внр	
	700	29	71	27	72	25	52	2323		194	48	90)7	-		-		
1/0	700	10.9	0.25	10.5	0.27	10.1	0.28	9.8	0.29	9.2	0.29	8.9	0.20	-	-	-	-	
1/3	750	3142		2950		2744		25	28	22	56	16	20	-	-	-		
	750	11.9	0.30	11.6	0.31	11.1	0.33	10.7	0.34	10.3	0.34	9.7	0.31	-	-	-	-	
	800 3330		30	31	51	2957		27	55	2546		21	83	-	-	-		
1/2	800	12.8	0.35	12.4	0.37	12.0	0.38	11.7	0.40	11.3	0.41	10.6	0.40	-	-	-	-	
1/2	850	3538		3368		3188		30	01	2808		2575		-		-		
	830	13.8	0.42	13.5	0.44	13.1	0.46	12.7	0.47	12.3	0.49	11.9	0.49	-	-	-	-	
	3850		36	94	35	31	33	62	31	87	30	09	15	63	-			
3/4	900	15.8	0.54	15.4	0.56	15.0	0.58	14.7	0.60	14.3	0.62	13.9	0.63	12.5	0.50	-	-	
3/4	950	3954		38	3803		42	34	81	33	11	31	38	19	72	-		
	950	16.5	0.59	16.1	0.61	15.8	0.63	15.4	0.65	15.0	0.66	15.0	0.68	13.1	0.60	-	-	
	1000	42	66	41	26	39	82	38	31	36	76	35	18	28	80	-		
1	1000	17.9	0.74	17.6	0.76	17.2	0.78	16.9	0.80	16.5	0.82	16.2	0.84	14.6	0.86	-	-	
	1050	45	00	43	66	42	31	40	88	39	43	37	94	32	99	-		
	1000	18.9	0.87	18.6	0.89	18.3	0.92	17.9	0.94	17.6	0.96	17.2	0.97	15.9	1.01	-	-	
	1150	47	87	46	62	45	32	44	03	42	58	41	29	37	03	220	19	
	1100	21.0	1.04	20.0	1.07	20.0	1.10	19.7	1.12	19.3	1.14	19.0	1.16	17.7	1.21	15.6	1.03	
1-1/2	1200	50	37	49	18	47	98	46	73	45	46	44	16	40	12	305	6	
1 1/2	1200	22.0	1.22	22.0	1.24	22.0	1.27	21.0	1.30	21.0	1.32	21.0	1.34	19.3	1.40	16.8	1.36	
	1250	51	66	50	5055		4933		4812		4688		4563		4170		3398	
	1200	23.0	1.31	23.0	1.34	22.0	1.37	22.0	1.39	22.0	1.42	21.0	1.44	20.0	1.50	17.8	1.51	

> RT18BU

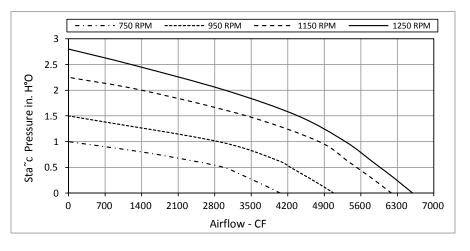
Dimensional Data



Roof Opening	Max Mtr.

Noor opening	maxmuntame
500 x 500	100
Damper Size	Weight (kg)
490 x 490	74

> Performance Curve



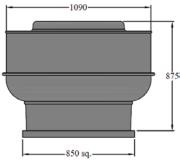
Motor HP	Fan RPM		0.000" Pst CFM		0.125" Pst CFM		0.250" Pst CFM		0.375" Pst CFM		0.500" Pst CFM		0.625" Pst CFM		1.000" Pst CFM		'Pst 1
		Sones	BHP	Sones	внр	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	внр	Sones	внр
1/2	750	40	52	3808		3542		3271		2974		2383		_		_	
1/2	/50	13.1	0.39	12.7	0.42	12.2	0.44	11.5	0.46	10.6	0.48	9.7	0.46	-	-	-	-
	800	43	45	41	15	38	68	36	18	33	57	30	10	-		-	
	800	15.2	0.48	14.8	0.51	14.2	0.53	13.7	0.56	12.6	0.58	11.6	0.58			-	-
3/4	850	4503		4281		40	42	38	04	35	55	32	78	-		-	
3/4	000	15.5	0.53	15.1	0.57	14.6	0.59	14.1	0.62	13.2	0.64	12.2	0.65	-	-	-	-
	900	4804		4595		4376		41	51	3923		3684		16	75	-	
	500	17.1	0.65	16.8	0.68	16.3	0.71	15.8	0.74	15.1	0.76	14.3	0.78	12.3	0.59	-	-
1	950	50	5081 4886		46	82	44	69	42	55	40	34	28	75	-		
'	930	18.9	0.77	18.7	0.81	18.3	0.84	17.8	0.86	17.3	0.89	16.5	0.92	13.8	0.90	-	-
	1000	5425		52	41	50	53	48	53	46	53	44	51	36	71	-	
	1000	21.0	0.93	21.0	0.97	20.0	1.01	19.9	1.04	19.5	1.07	18.9	1.10	16.5	1.12	-	-
1-1/2	1050	5610		5431		5251		5058		4865		4671		4006		-	
1 1/2	1050	22.0	1.03	21.0	1.07	21.0	1.12	21.0	1.14	20.0	1.17	19.5	1.20	17.3	1.25	-	-
	1100	57	92	56	21	54	48	52	62	50	75	48	87	42	90	-	
	1100	22.0	1.13	22.0	1.18	22.0	1.23	21.0	1.25	21.0	1.28	20.0	1.31	18.1	1.39	-	-
	1150	61	89	60	27	58	60	56	94	55	20	53	45	48	02	341	4
	1100	24.0	1.38	24.0	1.43	24.0	1.48	23.0	1.51	23.0	1.54	22.0	1.57	20.0	1.67	17.6	1.60
2	1200	63	21	61	62	60	04	58	38	56	67	54	95	49	67	378	36
2	1200	25.0	1.47	25.0	1.52	24.0	1.57	24.0	1.61	23.0	1.64	23.0	1.67	21.0	1.77	18.3	1.77
	1250	65	94	64	43	62	91	61	34	59	70	58	06	53	07	439	99
	1200	26.0	1.67	26.0	1.73	26.0	1.78	26.0	1.82	25.0	1.85	25.0	1.88	23.0	1.99	21.0	2.00

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

> RT24BU

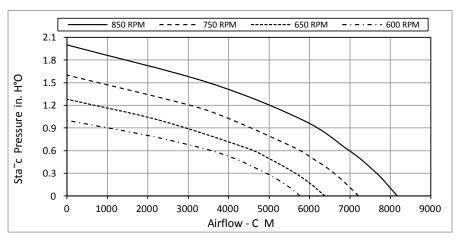
Dimensional Data



All dimensions in mm.

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

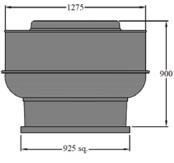
> Performance Curve



Motor HP	Fan RPM	0.000" Pst CFM		0.125" Pst CFM		0.250" Pst CFM		0.375" Pst CFM		0.500" Pst CFM		0.625" Pst CFM		1.000" Pst CFM		1.500" Pst CFM	
		Sones	BHP														
	(00	57	62	54	73	51	00	46	42	412	22	33	99	-	-	_	
2/4	600	13.1	0.52	12.6	0.57	11.9	0.59	11.2	0.62	10.3	0.62	8.2	0.59	-	-	-	-
3/4	605	6003		5726		53	82	49	55	448	34	38	90	-	-	-	
	625	14.3	0.59	13.7	0.64	13.0	0.67	12.3	0.70	11.6	0.71	9.9	0.69	-	-	-	-
	650		6365		6107		93	54	11	498	30	4493		-	-	_	
1	650	14.7	0.71	14.2	0.76	13.7	0.79	13.0	0.82	12.3	0.85	11.4	0.84	-	-	-	-
1	700	67:	20	64	6477		6191		5847		50	50	31	-	-	-	
	700	15.5	0.83	15.0	0.89	14.5	0.93	13.9	0.96	13.3	0.99	12.6	1.00	-	-	-	-
	750	7200		6974		6720		6425		6063		5680		4113		-	
	750	17.0	1.02	16.6	1.09	16.1	1.14	15.5	1.16	14.9	1.20	14.3	1.22	11.1	1.15	-	-
1-1/2	775	74	39	72	22	6984		6697		6360		5992		4619		-	
1-1/2	775	17.9	1.13	17.5	1.19	17.1	1.25	16.5	1.27	16.0	1.31	15.4	1.34	12.4	1.30	-	-
	800	77:	25	75	19	72	96	70	22	671	13	63	74	51	82	-	
	800	19.1	1.27	18.6	1.33	18.1	1.40	17.6	1.42	17.0	1.45	16.5	1.50	14.1	1.48	-	-
	950	81	55	79	63	77	50	75	05	723	35	69	12	58	51	-	
2	850	19.6	1.49	19.2	1.56	18.8	1.63	18.3	1.66	17.8	1.69	17.2	1.74	15.5	1.77	-	-
2	875	85	29	83	27	81	29	78	98	764	18	73	52	63	84	431	7
	0/5	21.0	1.69	21.0	1.77	20.0	1.84	19.7	1.89	19.2	1.91	18.6	1.95	17.0	2.04	13.9	1.83

> RT30BU

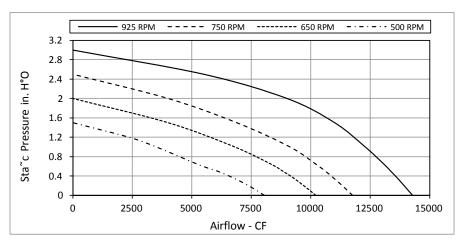
Dimensional Data



All dimensions in mm.

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

> Performance Curve



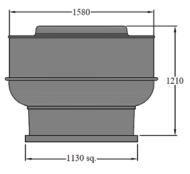
Motor HP	Fan RPM	0.000" Pst CFM		0.125" Pst CFM		0.250" Pst CFM		0.375" Pst CFM		0.500" Pst CFM		0.625" Pst CFM		1.000" Pst CFM		1.500" Pst CFM	
		Sones	BHP	Sones	внр	Sones	внр	Sones	BHP	Sones	BHP	Sones	внр	Sones	внр	Sones	внр
1	500	80	40	76	42	71	95	6674		60	71	53	24	_		-	
1	500	14.1	0.73	13.3	0.79	12.4	0.83	11.6	0.87	10.8	0.91	9.9	0.92	-	-	-	-
	550	86	61	82	95	78	90	74	27	69	27	63	03	-		-	
1 1 /0	550	15.4	0.91	14.8	0.98	14.2	1.02	13.4	1.06	12.7	1.12	11.8	1.14	-	-	-	-
1-1/2	600	9280		8938		85	66	81	53	76	98	71	92	484	17	-	
	000	16.8	1.12	16.2	1.19	15.6	1.24	15.0	1.29	14.3	1.34	13.5	1.39	10.4	1.33	-	-
	650	102	200	98	97	95	67	92	20	88	20	84	00	679	98	-	
2	030	19.1	1.49	18.6	1.57	18.1	1.63	17.6	1.68	17.0	1.73	16.2	1.80	13.4	1.88	-	-
2	675	104	471	101	68	98	42	95	13	91:	29	87	24	723	35	-	
	075	19.5	1.61	19.0	1.69	18.6	1.75	18.2	1.80	17.7	1.86	16.9	1.92	14.2	2.03	-	-
	700	10981 10692		92	10392		100)73	97	23	93	46	801	11	-		
	100	20.0	1.86	19.9	1.94	19.5	2.01	19.1	2.06	18.7	2.12	18.1	2.18	15.6	2.32	-	-
3	750	11755		11480		11210		10910		10611		10263		912	20	6886	
5	750	22.0	2.28	22.0	2.37	21.0	2.45	21.0	2.51	21.0	2.56	20.0	2.63	17.9	2.83	14.8	2.79
	725	120	018	117	'54	114	88	111	96	109	905	105	563	948	35	742	:6
	725	23.0	2.44	22.0	2.53	22.0	2.61	22.0	2.67	21.0	2.73	21.0	2.79	18.7	3.01	15.5	3.01
	800	126	502	123	54	121	02	118	327	115	549	112	249	102	44	851	3
	000	24.0	2.81	24.0	2.91	23.0	3.00	23.0	3.06	23.0	3.12	23.0	3.19	21.0	3.42	17.2	3.55
5	900	139	991	137	71	135	544	133	308	130)58	128	308	119	52	106	10
0	200	28.0	3.85	28.0	3.96	28.0	4.06	27.0	4.15	27.0	4.22	27.0	4.28	26.0	4.50	22.0	4.79
	925	142	275	140	54	138	331	136	503	133	355	131	112	122	84	110	01
	520	29.0	4.09	29.0	4.19	29.0	4.30	28.0	4.39	28.0	4.46	28.0	4.53	27.0	4.75	23.0	5.07

RT SERIES BELT DRIVE FAN DATA

UPBLAST ROOF EXHAUSTERS

> RT36BU

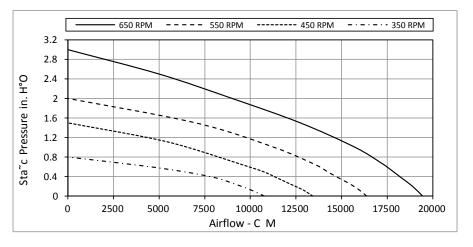
Dimensional Data



All dimensions in mm.

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

> Performance Curve

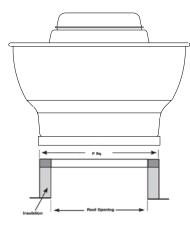


Motor HP	Fan RPM	0.000 CF)" Pst M	0.125" Pst CFM		0.250" Pst CFM		0.375" Pst CFM		0.500" Pst CFM		0.625" Pst CFM		1.000" Pst CFM		1.500" Pst CFM	
		Sones	внр	Sones	внр	Sones	BHP	Sones	BHP	Sones	внр	Sones	внр	Sones	внр	Sones	внр
	350	107	766	10037		9130		8086		6338		-		-		-	
1	350	11.4	0.65	11.1	0.72	10.2	0.82	9.7	0.87	9.3	0.85	-	-	-	-	-	-
1	375	110	065	103	862	94	69	85	23	70	27	-	-	-		-	
	3/5	12.0	0.71	11.6	0.78	10.8	0.88	10.1	0.94	9.6	0.93	-	-	-	-	-	-
	400 11800		300	111	69	103	10314		03	8351		-	-	-		-	
1-1/2	400	13.5	0.86	13.3	0.93	12.5	1.04	11.7	1.11	10.9	1.16	-	-	-	-	-	-
1-1/2	425	12680		12115		113	11324		586	9711		8478		-		-	
	425	15.5	1.06	15.4	1.15	14.8	1.26	14.0	1.35	13.2	1.42	12.3	1.42	-	-	-	-
	450	134	425	128	96	121	65	114	153	107	'19	97	06	-		-	
2	450	17.0	1.26	17.0	1.36	16.5	1.46	15.7	1.57	15.0	1.65	14.3	1.71	-	-	-	-
2	475	14270		137	'98	13136		124	132	117	78	109	998	-		-	
	475	18.8	1.52	18.8	1.63	18.6	1.71	18.0	1.85	17.2	1.95	16.5	2.02	-	-	-	-
	500	14890		14449		13832		13143		12523		11839		-		-	
3	500	21.0	1.72	21.0	1.85	21.0	1.92	20.0	2.07	19.4	2.18	18.6	2.26	-	-	-	-
3	550	163	376	159	69	154	55	148	326	142	23	136	62	112	92	-	
	550	23.0	2.29	23.0	2.43	23.0	2.50	22.0	2.65	22.0	2.80	21.0	2.91	18.9	3.09	-	-
	575	169	965	165	573	160	191	154	198	149	02	143	364	122	52	-	
	575	24.0	2.55	24.0	2.69	24.0	2.77	23.0	2.90	23.0	3.07	22.0	3.20	20.0	3.45	-	-
5	600	181	143	177	79	173	45	168	324	162	45	157	715	140	33	-	
5	000	27.0	3.12	27.0	3.27	27.0	3.37	26.0	3.48	26.0	3.66	25.0	3.82	23.0	4.13	-	-
	650	194	441	191	01	187	22	182	255	177	'30	172	205	157	32	127	37
	000	29.0	3.83	29.0	4.00	29.0	4.13	29.0	4.22	28.0	4.38	28.0	4.57	26.0	4.97	23.0	5.10

ACCESSORIES DIMENSIONS

UPBLAST ROOF EXHAUSTERS

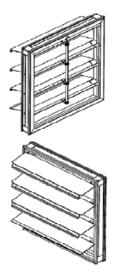
ROOF CURB

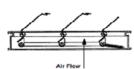


MODEL NO.	Roof Opening	Curb Size F Sq.
RE09DU	225 x 225	460 x 460
RE10DU	300 x 300	460 x 460
RE12DU	300 x 300	460 x 460
RE13DU	400 x 400	510 x 510
RE16DU	400 x 400	510 x 510
RT08DU	225 x 225	460 x 460
RT10DU	300 x 300	460 x 460
RT11DU	300 x 300	460 x 460
RT13DU	300 x 300	460 x 460
RT16DU	400 x 400	510 x 510
RT12BU	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





HORIZONTAL MOUNT - AIR FLOW UP

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
RT12BU	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 shall be 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 shall be licensed to bear the AMCA certified ratings seal for both sound and air performance.

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.

Energy Twin City reserves the right to make changes at any time, without notice, to models, construction, specifications, options, availability, etc. This catalogue illustrates the appearance of Energy Twin City products at the time of publication.

THE RECOGNIZED LEADER IN MANUFACTURING AND DISTRIBUTION OF HVAC AND INDUSTRIAL PRODUCTS IN THE MIDDLE EAST.



A TWIN CITY FAN COMPANY

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