



Fantech

TurboFlo Fans



- Roof Ventilators
- Side Wall Propeller Fans
- Wall Exhausters
- Exhaust and Supply Roof Mounts
- Centrifugal Supply Ventilators
- Ceiling Mounted Exhaust Fans
- Gravity Ventilators
- Intake Louvers

Look for us at: www.fantech.net

November 2003 • TF-1003

Table of Contents

Terms and Warranty

Terms and Warranty	3
--------------------------	---

Ventilators

TBD Belt-Drive Downblast Roof Ventilator	4-5
TDD Direct-Drive Downblast Roof Ventilator	6-7
FDD Direct-Drive Downblast Centrifugal Roof Ventilator	8-9
TDU Direct-Drive Upblast Centrifugal Roof Ventilators	10-11
TBU Belt-Drive Upblast Centrifugal Roof Ventilators	12-13
TDW Direct-Drive Centrifugal Wall Exhausters	14-15
TARE Exhaust and Supply Roof Mounts	16-17
TBDA Belt-Drive Downblast Axial Roof Ventilators	18-19
TBUA Belt-Drive Upblast Axial Roof Ventilators	20-21
TBS Belt-Drive Centrifugal Supply Ventilators	22-24
NFPA96 Installation Accessories	25

Fans

FADE Direct-Drive Sidewall Propeller Fans	26-27
TABE Belt-Drive Sidewall Propeller Fans	28-29
THDAB Belt-Drive Heavy Duty Wall Fans	30-31
TCF Ceiling Mounted Centrifugal Exhaust Fans	32-33
TCFT and TCFJR Ceiling Mounted Centrifugal Exhaust Fans	33

Ventilators

TRGV Round Gravity Ventilators	34-35
TGV Gravity-Relief/Intake Ventilators	36-41

Additional Accessories

TCF Accessories	42
Prefabricated Roof Curbs - Model CID	43
Backdraft Dampers for Roof Ventilators	44
CBDA Price Matrix	45
GDV Exterior Mount Louvered Dampers	46
RSK and GDH Round and Square Backdraft Dampers	46
FLV and MLV Intake Louvers	47-48
AWC and AWH Assembled Wall Collar/Guards	49
TWHE and TWHI Wall Hood Exhaust/Intake	50

Fan Submittal Data

TDD	51
FDD	52
TDU	53
TBU	54
TDW	55
TARE/TARS	56
TBDA	57
TBUA	58
TBS	59
FADE	60
TABE	61
THDAB	63
TCF	64
TRGV	65
TGV	66
TBD	67

TurboFlo Order Form

TurboFlo Order Form	68
---------------------------	----

Terms and Warranty

(a) **AGREEMENT** - The contract of sale (or purchase order) together with these terms and conditions constitute the entire agreement between the parties hereto, except as modified in writing signed by both Fantech and the Buyer as identified in the contract (or purchase order). Any terms in a purchase order, irrespective of their materiality which are either different from or additional to Fantech's condition of sale, are objected to and are excluded unless the Fantech expressly agrees in writing to such terms. Acceptance of Fantech's quotation or Fantech's acknowledgment of Buyer's order the goods shipped or Fantech's invoice shall constitute assent to Fantech's condition of sale. This contract shall be binding upon Buyer and Fantech, and on their successors and assigns.

(b) **ACCEPTANCE AND APPROVAL OF ORDER** - Fantech shall not consider a proposal or quotation an offer, but the basis for an order from the Buyer that is subject to acceptance. An order will become binding on Fantech only when accepted and approved by Fantech's sales and credit department.

(c) **CREDIT & PAYMENT** - Terms and payment on all orders are subject to the approval of Fantech's credit department and, unless otherwise stated, are NET 30 days from the date of invoice without regard to the date of delivery of the Products. All orders will be COD prior to credit approval. No proxy billing. 1½% charge on all invoices over 30 days.

(d) **TAXES** - Buyer shall pay Fantech the amount of any sales, use or any other local, state or federal taxes that arise from the sale or delivery of the Products.

(e) **FORCE MAJEURE** - Fantech shall make delivery in accordance with contract documents or within a reasonable time in the absence of any commitment, but Fantech shall not be liable for delays or defaults in delivery caused by floods, fires, storm, or other acts of Nature, by war or act of public enemy (or civil disturbance), strikes, lockouts, shortages or labor or raw materials and equipment (shortages or failures), action of any governmental authority or other conditions beyond Fantech's reasonable control.

(f) **CANCELLATION** - If Buyer desires to cancel or change any portion of the Contract, he must make such request in writing to Fantech. Fantech may, in its sole discretion, accept or reject any such request. If accepted, the Buyer nonetheless must take delivery and make payment to Fantech for all material manufactured and in stock or in process of manufacture at time of notice, and all special materials ordered at time of notice and for which Fantech must take delivery, unless otherwise agreed by Fantech in writing. All such materials must be removed from Fantech's premises within 10 days after Fantech's acceptance of the request. Payment will be due within 30 days after date of invoice. Materials will be invoiced at the time of Fantech's acceptance of the request. Fantech shall also have the right to assess charges in the event of cancellation or change by the Buyer of any order accepted by Fantech.

(g) **INSPECTION & TESTING** - Fantech's standard specification and tests apply to all orders. All charges for inspections or tests not regularly furnished are for Buyer's account and subject to prior negotiation. All inspections shall be conducted at Fantech's plant, and failure of Buyer to avail himself of inspection privileges

shall be deemed a waiver of such privileges.

(h) **PRICES** - Prices are subject to change without notice. Orders based on published prices and accepted for scheduled shipment will be invoiced at Fantech's applicable price in effect on the scheduled date of shipment, unless other terms are specifically noted on the order acknowledgments. All prices will be in accordance with applicable government regulation.

(i) **DELAYS** - All orders are accepted subject to Fantech's ability to make delivery at the time and in the quantities specified, and Fantech shall not be liable for damages for failure to make partial or complete shipment or for any delay in making shipments. Buyer shall be liable for any added expenses incurred by Fantech because of Buyer's delay in furnishing requested information to Fantech, delay resulting from order changes by Buyer, or delay in unloading shipments at delivery point.

(j) **SHIPMENT** - Fantech will prepay freight on all qualifying orders (contact Fantech Customer Service for current terms). Fantech will select method of shipment and routing when transportation charges are to be paid by Fantech. When the Buyer specifies shipping instructions, all costs in excess of the standard freight rates will be charged to the Buyer. The foregoing includes, but is not limited to, carrier's charges for notification prior to delivery, demurrage, delay in unloading, diversion or reconsignment.

(k) **TITLE** - Title to product transfers to Buyer at the F.O.B. point of manufacture. Upon receipt of title, Buyer is then responsible for proper protection of products, lighting, placement, compliance with all regulations and ordinances, and will indemnify Fantech against all claims for personal injuries or property damage arising from the storage, use or handling of such products.

(l) **IN TRANSIT CLAIMS** - The owner of the shipment, according to the F.O.B. terms of the Purchase order, must make claims for damage or storage in transit against the carrier. Buyer has the responsibility to inspect shipments before or during unloading to identify any such damage or shortage and see that appropriate notation is made on the delivery tickets or an inspection report furnished by the local agent of the carrier in order to support a claim.

(m) **CLAIMS** - Notice of Claims against Fantech hereunder for any reason, including breach of warranty, must be made to Fantech in writing within 48 hours of discovery to afford Fantech an opportunity to make a prompt investigation of surrounding facts and mitigate any damages which might ensue, should it be determined to be Fantech's responsibility. Failure to give such notice to Fantech shall constitute a waiver by Buyer of any right later to assert such a claim.

(n) **RETURNS** - Stock products, as defined by Fantech, shall be accepted for credit only in saleable condition and only with evidence of Fantech's prior written authorization. Goods must be returned within 25 days after receipt of authorization. Fantech will assess charges for freight both ways and a restocking charge to restore such goods to the regular plant inventory. If Fantech receives goods, which are not, in Fantech's opinion, in acceptable condition, credit allowance will not be made. Credit will be issued on the basis of purchase or current price, whichever is lower. Non-stock

products are made specifically to order and are not subject to return for credit.

(o) **WARRANTY: LIMITATION OF LIABILITY**. Fantech warrants fans to be free from defects in design, materials and workmanship (exclusive of abrasion, corrosion or erosion) for two (2)* years from the date of shipment to the original Buyer of a product from Fantech or Fantech's authorized distributor or the date of notification of readiness to ship. Motor warranty is one (1) year. In order to claim the benefit of this warranty, buyer must notify Fantech in writing of the claimed defect within ten (10) days after discovering it and return this equipment or parts to the factory with transportation prepaid. In the event of on-site repair, no service technician will be dispatched until manufacturer receives your written purchase order. If any of the following conditions exist, the warranty will be null and void: (1) Buyer has permitted other persons not approved or authorized by manufacturer to alter, adjust, replace or repair the equipment or any part thereof. (2) Buyer has not followed instructions or other directions given in the contract documents or our maintenance manual. (3) When breakage or other loss or damage is the result of any negligence, misuse or fault on the part of any operator or other person not under our supervision or control. (4) The defect is the result of designs or drawings made, furnished or specified by other. (5) In the case of goods not manufactured or supplied by the manufacturer as part of a contract, manufacturer shall only be liable to the same extent that our supplier is to manufacturer, not to exceed any liability manufacturer would have for warranty on our own equipment. (6) Buyer has not paid in full any invoices submitted to Buyer, which are due for payment. (7) Unusual wear and tear of the equipment.

* (3) years on FDD and FADE series

* (1) year on TBU/TDU with UL762

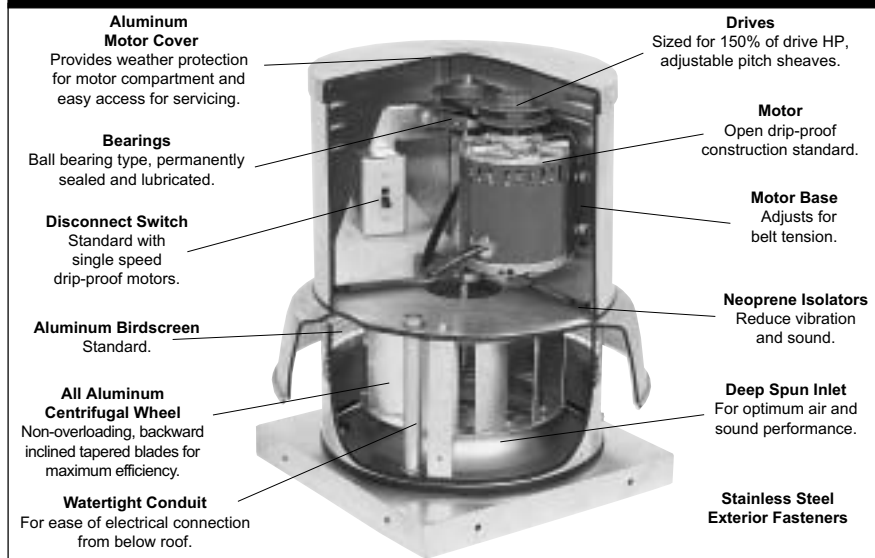
Statements relating to the product, its use or installation made prior to the execution of the agreement, are not warranties except to the extent that the contrary is expressly set forth herein. It is understood that such statements were not intended to, and did not, form a part of the agreement; they were merely made in the course of negotiations of the parties.

THIS WARRANTY IS IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. OUR SOLE AND EXCLUSIVE OBLIGATION UNDER THIS WARRANTY IS TO REPAIR OR REPLACE DEFECTIVE EQUIPMENT OR PARTS OR, AT OUR OPTION, TO PAY THE REASONABLE COST OF REPAIR OR REPLACEMENT. BUYER AGREES THAT NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES, FOR LOST PROFITS OR SALES, OR DAMAGES FOR INJURIES TO PERSON OR PROPERTY) SHALL BE AVAILABLE. NOTWITHSTANDING THE ABOVE, THE TOTAL AMOUNT THAT MAY IN ANY EVENT BE PAYABLE IN SETTLEMENT OF LIABILITY, HOWEVER INCURRED, SHALL NOT EXCEED THE CONTRACT PRICE.

(p) **WARRANTY VALIDATION** - The user must keep a copy of the bill of sale to verify purchase date. These warranties give you specific legal rights and are subject to any applicable consumer protection legislation. You may have additional rights that vary from state to state.

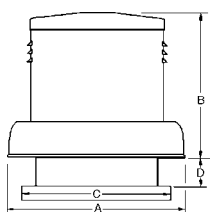
Belt-Drive Downblast Centrifugal Roof Ventilators

MODEL TBD



Description

Model TBD belt drive units are roof mounted centrifugal exhausters rated from 450 to over 28,000 CFM, with static pressure capabilities to 1-1/4". They are used for the exhaust of relatively clean air from a wide range of commercial, industrial and institutional environments such as manufacturing and assembly plants, office buildings, schools, hospitals, restaurants, athletic facilities and many others.



Model	A	B	C	D	Curb OD	Damper OD	Roof Opening	Fan Weight	Shipping Weight
TBD 6	20 1/2	21	16 1/2	3 1/2	15	11	11 1/2	43	80
TBD 8	20 1/2	21	16 1/2	3 1/2	15	11	11 1/2	42	80
TBD 9	20 1/2	21	16 1/2	3 1/2	15	11	11 1/2	44	80
TBD 11	28 3/8	26 1/2	24	3	22 1/2	18	19 1/2	64	130
TBD 12	28 3/8	26 1/2	24	3 1/4	22 1/2	18	19 1/2	65	130
TBD 14	28 3/8	26 1/2	24	3 1/4	22 1/2	18	19 1/2	71	140
TBD 16	32 1/4	29 1/2	24	6	22 1/2	18	19 1/2	79	145
TBD 18	32 1/4	29 1/2	29 1/2	4 3/8	27 3/4	24	24 3/4	96	160
TBD 20	36 3/4	28 3/8	29 1/2	4 1/8	27 3/4	24	24 3/4	98	215
TBD 24	41 1/4	35	35 3/4	8	33 3/4	30	30 3/4	155	290
TBD 30	58 3/8	42 1/2	42 1/2	5 3/8	40 3/4	36	37 3/4	265	465
TBD 36	58 3/8	47 1/4	42 1/2	10	40 3/4	36	37 3/4	275	475
TBD 42	73	49 1/4	55	9 3/4	53 1/4	48	50 1/4	425	700
TBD 48	73	51 1/2	55	11 3/4	53 1/4	48	50 1/4	550	830

Dimensional data given in inches.



Model TBD is listed for electrical compliance - UL705 and cUL705 Canada.



Fantech certifies that the TBD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Construction Features

Housing

- Curb cap with integral deep spun inlet for efficient performance.
- Heavy gauge aluminum for extra strength.
- Designed for maximum weather protection and attractive appearance.
- Heavy gauge motor support for rigidity and strength.
- Neoprene isolators for reduction of vibration and sound.
- Cover easily removed for quick access to motor compartment.
- Water tight conduit tube for easy electrical connection from below roof.
- Aluminum birdscreen and disconnect are included on standard models.
- Stainless steel fasteners on exterior.

Centrifugal Wheel

- All aluminum wheel.
- Close running tolerance between inlet cone and wheel inlet for maximum efficiency.
- Backward inclined for efficiency at higher static pressure.
- Non overloading for safe operation in ducted systems.
- Tapered blades for efficient and quiet operation.
- Heavy aluminum hub for extra strength.
- Statically and dynamically balanced for smooth operation.

Bearings

- Heavy duty ball bearing type.
- Pre-lubricated and permanently sealed.

Drives

- Sized for minimum 150% of drive horse power.
- Machined cast iron adjustable motor pulleys
- Adjustable base for belt tensioning.
- Non-static oil resistant V-Belts.

AMCA Seal

- Assures accuracy of Air and Sound Performance.

UL Label

- UL 705 Listing assures electrical safety and reliability.
- UL 705 Canada.

Fans Less Motor and Drive			Recommended Mounting Curbs			Recommended Dampers		
Model	Stock No	Weight	Model	Size	Stock No	Model	Size	Stock No
TBD 6	A0600	20	CID1508	15 x 15	W1508	GDH11	11" x 11"	82G11
TBD 8	A0800	20	CID1508	15 x 15	W1508	GDH11	11" x 11"	82G11
TBD 9	A0900	25	CID1508	15 x 15	W1508	GDH11	11" x 11"	82G11
TBD 11	A1100	40	CID22Q08	22 1/2 x 22 1/2	W2208	GDH18	18" x 18"	82G18
TBD 12	A1200	40	CID22Q08	22 1/2 x 22 1/2	W2208	GDH18	18" x 18"	82G18
TBD 14	A1400	45	CID22Q08	22 1/2 x 22 1/2	W2208	GDH18	18" x 18"	82G18
TBD 16	A1600	50	CID22Q08	22 1/2 x 22 1/2	W2208	GDH18	18" x 18"	82G18
TBD 18	A1800	55	CID27O08	27 3/4 x 27 3/4	W2708	GDH24	24" x 24"	82G24
TBD 20	A2000	60	CID27O08	27 3/4 x 27 3/4	W2708	GDH24	24" x 24"	82G24
TBD 24	A2400	110	CID33O08	33 3/4 x 33 3/4	W3308	GDH30	30" x 30"	82G30
TBD 30	A3000	210	CID40O08	40 3/4 x 40 3/4	W4008	GDH36	36" x 36"	82G36
TBD 36	A3600	215	CID40O08	40 3/4 x 40 3/4	W4008	GDH36	36" x 36"	82G36
TBD 42	A4200	325	CID53H08	53 1/4 x 53 1/4	W5308	GDH48	48" x 48"	82G48
TBD 48	A4800	395	CID53H08	53 1/4 x 53 1/4	W5308	GDH48	48" x 48"	82G48

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

For a complete list of available accessories, please refer to accessories list.

TBD Series Belt-Drive Downblast Ventilators															Ventilator with Open Dripproof Motor and Drive Assembly		
Model	Motor Hp	Max. BHp	RPM	Tip Speed	Sones @ ¼" SP	CFM at Static Pressure, in. WG										115/1/60*	208-230-460/3/60
						0.0"	⅛"	¼"	⅜"	½"	⅝"	¾"	1.0"	1 ¼"	Stock No.	Stock No.	
TBD 6	¼	0.10	1400	4117	6.2	459	412	358	295	217	-	-	-	-	A06M1		
	¼	0.18	1700	4999	9.4	558	521	478	432	380	325	255	-	-	A06M2		
TBD 8	¼	0.08	1170	3441	5.1	861	747	604	391	-	-	-	-	-	A08M1		
	¼	0.14	1410	4146	7.7	1037	945	839	715	553	249	-	-	-	A08M2		
	¼	0.25	1700	4999	11.2	1250	1176	1095	1002	900	785	634	-	-	A08M3		
TBD 9	¼	0.20	1310	4128	6.6	1339	1238	1112	941	720	390	-	-	-	A09M1		
	⅓	0.33	1550	4884	9.3	1584	1501	1406	1290	1145	973	760	-	-	A09N1		
TBD 11	¼	0.26	1535	5061	11.4	1634	1535	1430	1315	1187	1059	918	527	-	A11M1	A11M3	
	⅓	0.34	1685	5555	13.5	1793	1704	1609	1510	1400	1281	1165	894	485	A11N1	A11N3	
TBD12	¼	0.27	1280	4742	12.1	1919	1801	1676	1536	1383	1215	992	-	-	A12M1	A12M3	
	⅓	0.35	1390	5150	13.9	2084	1976	1862	1740	1603	1461	1301	839	-	A12N1	A12N3	
	½	0.53	1600	5928	17.8	2399	2306	2209	2108	2001	1882	1760	1489	1109	A12P1	A12P3	
TBD 14	¼	0.18	875	3483	8.2	2004	1857	1680	1439	1065	-	-	-	-	A14M1	A14M3	
	⅓	0.34	1075	4279	12	2462	2346	2215	2067	1885	1642	1328	-	-	A14N1	A14N1	
	½	0.50	1225	4876	15.2	2806	2705	2595	2474	2340	2183	1988	1408	-	A14P1	A14P3	
	¾	0.75	1400	5573	19.2	3207	3119	3026	2926	2819	2703	2572	2240	1782	A14Q1	A14Q3	
TBD 16	¼	0.26	800	3822	8.3	2970	2674	2320	1905	1205	-	-	-	-	A16M1	A16M3	
	⅓	0.38	900	4300	10.4	3341	3079	2786	2448	2054	1417	-	-	-	A16N1	A16N3	
	½	0.52	1000	4778	12.7	3712	3476	3228	2939	2623	2256	1712	-	-	A16P1	A16P3	
	¾	0.79	1155	5518	16.7	4288	4082	3878	3648	3395	3125	2831	1980	-	A16Q1	A16Q3	
TBD 18	⅓	0.33	805	3846	10.8	3056	2838	2579	2274	1873	-	-	-	-	A18N1	A18N3	
	½	0.52	940	4491	14	3568	3385	3183	2944	2681	2358	1965	-	-	A18P1	A18P3	
	¾	0.78	1075	5136	17.8	4080	3922	3752	3563	3351	3123	2863	2167	-	A18Q1	A18Q3	
	1	0.99	1165	5566	21	4422	4276	4123	3957	3770	3570	3356	2824	-	A18R1	A18R3	
	1 ½	1.52	1345	6426	26	5105	4979	4849	4713	4569	4408	4237	3873	3434	A18S1	A18S3	
	2	2.02	1480	7071	31	5618	5504	5386	5265	5139	5005	4859	4546	4206		A18T3	
TBD 20	⅓	0.35	665	3717	8.7	3562	3318	3021	2658	2145	1281	-	-	-	A20N1	A20N3	
	½	0.52	760	4248	10.7	4071	3861	3625	3338	3007	2567	1963	-	-	A20P1	A20P3	
	¾	0.79	875	4891	13.9	4687	4506	4312	4091	3838	3560	3210	2229	-	A20Q1	A20Q3	
	1	1.12	985	5506	17.5	5276	5117	4949	4768	4562	4336	4098	3476	2589	A20R1	A20R3	
	1 ½	1.56	1100	6149	22	5892	5750	5602	5447	5280	5092	4889	4451	3874	A20S1	A20S3	
	2	2.08	1210	6764	26	6482	6353	6220	6082	5937	5782	5610	5241	4821		A20T3	
TBD 24	⅓	0.33	490	3121	8.6	4879	4400	3751	2388	-	-	-	-	-	A24N1	A24N3	
	½	0.49	560	3567	11.5	5576	5169	4688	3972	2614	-	-	-	-	A24P1	A24P3	
	¾	0.75	645	4109	14.3	6422	6078	5683	5219	4557	3374	1906	-	-	A24Q1	A24Q3	
	1	1.00	710	4523	17.2	7069	6761	6412	6033	5549	4848	3773	-	-	A24R1	A24R3	
	1 ½	1.54	820	5223	22	8164	7902	7613	7299	6968	6567	6073	4360	-	A24S1	A24S3	
	2	2.04	900	5733	26	8961	8723	8467	8190	7899	7590	7218	6180	4490		A24T3	
TBD 30	½	0.52	410	3265	6.6	7098	6406	5512	4350	2246	-	-	-	-	A30P1	A30P3	
	¾	0.76	465	3703	7.7	8050	7456	6735	5866	4743	2961	-	-	-	A30Q1	A30Q3	
	1	1.03	515	4101	8.7	8916	8388	7775	7047	6215	5132	3571	-	-	A30R1	A30R3	
	1 ½	1.55	590	4698	10.6	10214	9761	9257	8683	8030	7315	6472	3860	-	A30S1	A30S3	
	2	2.13	655	5215	13.1	11339	10936	10496	10010	9469	8871	8231	6617	4024		A30T3	
	3	3.13	745	5932	16.7	12897	12546	12171	11768	11332	10857	10343	9220	7827		A30U3	
TBD 36	¾	0.80	355	3288	9.1	10134	9166	7936	5730	-	-	-	-	-	A36Q1	A36Q3	
	1	1.02	385	3566	10.3	10990	10122	9075	7268	5137	-	-	-	-	A36R1	A36R3	
	1 ½	1.58	445	4122	13	12703	11985	11118	10124	8417	6731	-	-	-	A36S1	A36S3	
	2	2.11	490	4539	15.7	13987	13351	12574	11770	10712	8982	7516	-	-		A36T3	
	3	3.15	560	5187	20	15986	15445	14803	14106	13387	12494	11151	8338	-		A36U3	
	5	5.16	660	6113	27	18840	18393	17884	17315	16722	16130	15470	13586	11030		A36V3	
TBD 42	1 ½	1.56	340	3713	12.9	16051	14909	13323	11079	7073	-	-	-	-	A42S1	A42S3	
	2	2.18	380	4150	15.8	17940	16925	15681	14051	11690	7879	-	-	-	A42T1	A42T3	
	3	3.05	425	4641	19.1	20064	19158	18187	16827	15279	13084	10122	-	-		A42U3	
	5	5.11	505	5515	26	23841	23076	22309	21432	20267	19070	17584	13399	-		A42V3	
TBD 48	3	2.96	345	4261	15.3	21003	19243	17628	15033	12358	9228	5498	-	-		A48U3	
	5	5.16	415	5310	21	25041	23683	22249	20797	19140	17240	14643	8394	-		A48V3	
	7 ½	7.48	470	5990	27	28613	27435	26008	24815	23616	21714	19592	15532	10826		A48W3	

Power Ratings (BHP) does not include drive losses.

Performance shown is for installation type A-free inlet, free outlet. Performance ratings include the effects of birdscreen in the airstream.

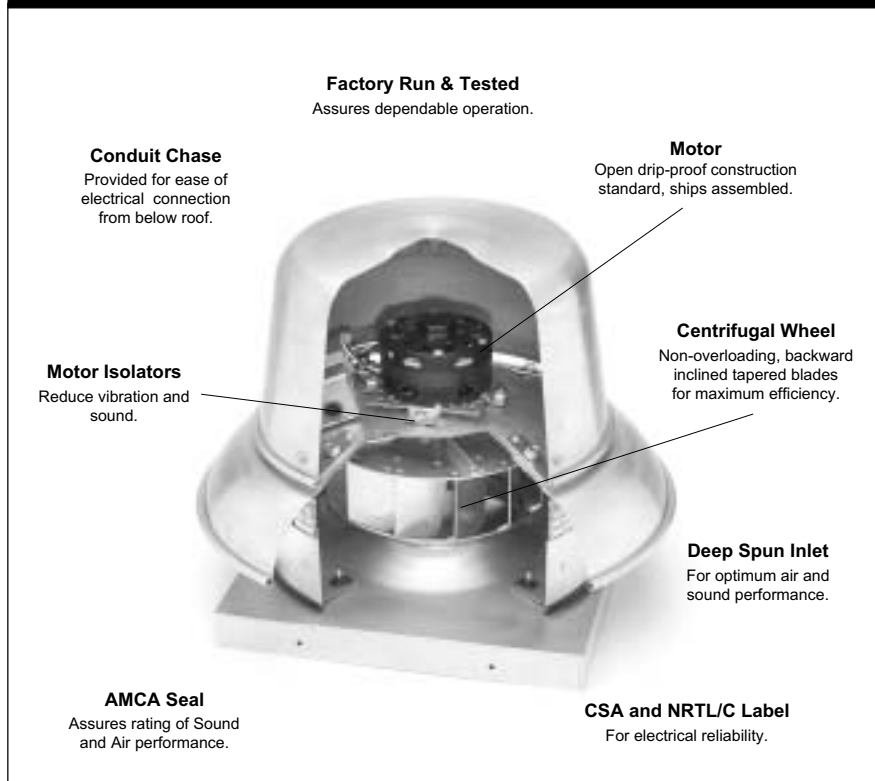
The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for Installation Type A - Free inlet fan sone levels.

See price list for motor options available.

Direct-Drive Downblast Centrifugal Roof Ventilators

MODEL TDD



Description

Model TDD direct drive units are roof mounted centrifugal exhausters rated from 220 to over 3000 CFM, with static pressure capabilities to 1 inch. They are used to exhaust air from all types of commercial and institutional buildings such as hospitals and health care facilities, schools, recreational buildings, machinery and equipment rooms, offices, retail stores and similar applications.

Direct drive units use smaller diameter wheels, resulting in low sound levels and quiet operation. They have no belts or fan bearings to maintain or adjust and consequently require very little maintenance. The non overloading backward inclined wheel with its higher static pressure capability makes this unit suitable for either ducted or nonducted applications. Its roof mounting permits location near the area to be ventilated, allowing short duct runs and more efficient operation.

Options/Accessories

Solid State Speed Control: Available with direct drive models. Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments of airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Exhauster performance can be controlled from the ventilated area.

Roof Curb: Prefabricated heavy gauge galvanized steel welded construction, 8" high with 1½" wood nailer. Assures perfect fit of exhauster to roof curb. Options include burglar bars, single and double pitch construction, and additional curb heights.

Automatic Damper: Automatic aluminum damper for ease in installation and effective backdraft protection.

Motor Operated Damper: Motor operated for positive closure against backdraft.

Construction Features

Housing

- Curb cap has integral deep spun inlet for efficient performance and prepunched mounting holes for ease of installation.
- Fan plate isolates motor compartment from contaminated exhaust air.
- Spun aluminum hood and skirt for weather protection and attractive appearance.
- Heavy gauge motor support for rigidity and strength.
- Neoprene isolators for reduction of vibration and sound.
- Quick access to motor compartment for ease of maintenance.
- Conduit passage for easy electrical connection from below roof.
- Aluminum birdscreen and safety disconnect are included as standard on all models.

Centrifugal Wheel

- Backward inclined for efficiency at higher static pressure.
- Non overloading for safe operation in ducted systems.
- Tapered blades for efficiency and quiet operation.
- Wheels constructed of non-corrosive aluminum.
- Close running tolerance between inlet cone and wheel inlet for maximum efficiency.
- Statically and dynamically balanced for smooth operation.

Speed Controllable Motors

- Brands are nationally recognized and locally serviced.
- Standard motors are single speed, speed controllable and drip-proof.
- All motors are rated for continuous duty.
- Disconnect is standard with single speed drip-proof motors.
- Motors ship mounted as standard.

AMCA Seal

- Assures rating of Air and Sound performance.

UL Label

- UL 705 Listed Power Roof Ventilator label assures electrical reliability.

CSA Label

- CSA and NRTL/C Listing assures electrical reliability.

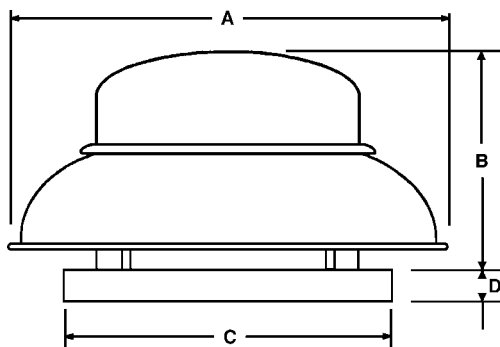


Fantech certifies that the TDD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



NRTL/C

These fans are listed by the Canadian Standards Association Testing Laboratories as approved.



Model	A	B	C	D	Curb OD	Damper OD	Roof Opening	UPS Weight	Truck Weight
TDD 6	21 3/4	16 3/4	16 1/2	2	15	11	11 3/4	-	48
TDD 8	21 3/4	16 3/4	16 1/2	2	15	11	11 3/4	-	48
TDD 10	21 3/4	16 3/4	16 1/2	2	15	11	11 3/4	-	67
TDD 12	33 1/2	23 1/2	24	2 1/2	22 1/2	18	19 1/4	-	102
TDD 15	33 1/2	23 1/2	24	2 1/2	22 1/2	18	19 1/4	-	125

Dimensional data given in inches.

TDD Series Direct-Drive Downblast Ventilators

Ventilator with Open Dripproof Motor and Drive Assembly

Model	Motor Hp	Max. BHp	RPM	Tip Speed	Sones @ 1/8" SP	CFM at Static Pressure, in. WG										115/1/60	208-230/1/60
						0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1.0"	Stock No.	Stock No.	
TDD 6	1/10	0.05	1650	3515	8.0	390	347	295	232	134	-	-	-	-	F06J1	F06J2	
TDD 8	1/25	0.04	1050	2793	4.5	573	468	326	-	-	-	-	-	-	F08H1		
	1/10	0.12	1550	4123	9.5	845	781	705	622	523	398	251	-	-	F08J1	F08J2	
TDD 10	1/4	0.27	1600	5136	12.4	1436	1348	1256	1155	1041	910	766	604	412	F10M1	F10M2	
TDD 12	1/4	0.15	1150	4336	8.9	1545	1356	1144	952	769	558	-	-	-	F12M1	F12M2	
	1/2	0.52	1750	6598	18.3	2352	2226	2104	1973	1832	1689	1562	1443	1324	F12P1	F12P2	
TDD 15	1/2	0.46	1150	5014	13.7	3003	2779	2540	2285	2038	1774	1480	1180	840	F15P1	F15P2	

Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance shown is for installation type A-free inlet, free outlet. Performance ratings include the effects of birdscreens in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A - Free inlet fan sone levels.



Fantech certifies that the TDD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Model	Recommended Mounting Curbs			Recommended Dampers		
	Model	O.D. Size	Stock No	Model	Size	Stock No
TDD 6	CID1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
TDD 8	CID1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
TDD 10	CID1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
TDD 12	CID22Q08	22 1/2" x 22 1/2"	W2208	GDH18	18" x 18"	82G18
TDD 15	CID22Q08	22 1/2" x 22 1/2"	W2208	GDH18	18" x 18"	82G18

Performance Data at Reduced Speed

TDD Model	Motor Hp	Max. BHP	RPM	Tip Speed	Sones @ 1/8" SP	CFM at Static Pressure, in. WG									
						0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1.0"	
6-1650	1/10	0.02	950	2024	2.4	224	133	-	-	-	-	-	-	-	
	1/10	0.02	1100	2343	3.5	260	187	-	-	-	-	-	-	-	
	1/10	0.03	1250	2663	4.6	295	234	146	-	-	-	-	-	-	
	1/10	0.04	1450	3089	6.2	343	293	229	131	-	-	-	-	-	
8-1050	1/25	0.02	750	1995	1.8	409	238	-	-	-	-	-	-	-	
8-1550	1/10	0.05	1150	3059	5.5	627	535	417	249	-	-	-	-	-	
	1/10	0.10	1450	3857	8.4	791	721	638	545	425	276	-	-	-	
10-1600	1/4	0.06	900	2889	4.2	808	640	403	-	-	-	-	-	-	
	1/4	0.09	1100	3531	6.3	987	856	696	489	-	-	-	-	-	
	1/4	0.15	1300	4173	8.5	1167	1058	936	790	615	405	-	-	-	
	1/4	0.22	1500	4815	11.0	1346	1253	1152	1042	910	762	594	393	-	
12-1150	1/4	0.08	900	3393	5.8	1209	959	708	456	-	-	-	-	-	
	1/4	0.12	1050	3959	7.6	1411	1202	970	771	553	-	-	-	-	
12-1750	1/2	0.17	1200	4524	9.6	1613	1432	1231	1040	866	678	442	-	-	
	1/2	0.24	1350	5090	11.8	1814	1653	1484	1299	1139	984	821	633	376	
	1/2	0.36	1550	5844	14.9	2083	1942	1801	1645	1484	1344	1210	1073	929	
15-1150	1/2	0.14	750	3270	6.3	1958	1599	1212	759	-	-	-	-	-	
	1/2	0.19	850	3706	7.9	2219	1907	1567	1203	795	-	-	-	-	
	1/2	0.27	950	4142	9.7	2481	2202	1902	1602	1256	887	-	-	-	
	1/2	0.36	1050	4578	11.5	2742	2493	2228	1950	1672	1352	1019	621	-	

TDD model noted in supplemental performance data is given as base model size and motor rpm. Refer to certified performance data chart corresponding base model rpm for stock number.

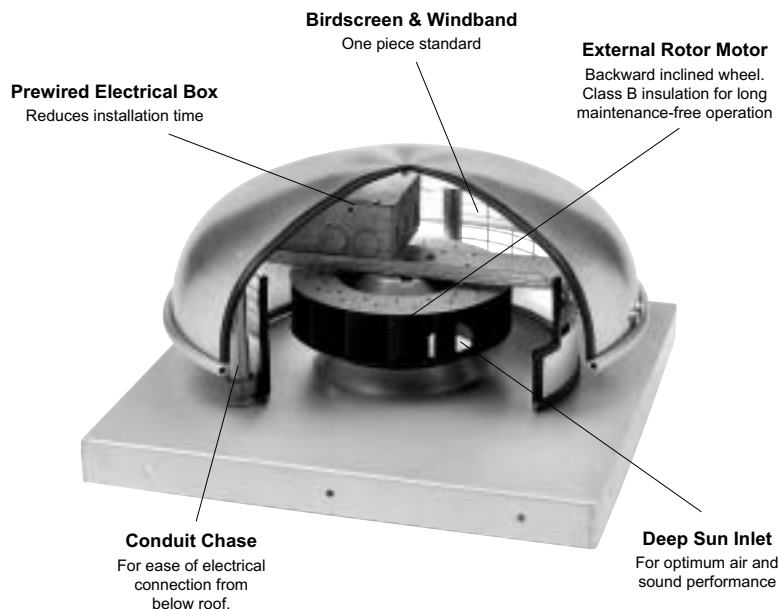


Fantech certifies that the TDD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to air performance only.

Direct-Drive Downblast Centrifugal Roof Ventilators

MODEL FDD



Description

Model FDD direct drive units are roof mounted centrifugal exhausters rated from 102 to 488 CFM, with static pressure capabilities to 1-1/2". They are used to exhaust air from all types of commercial buildings such as hospitals and health care facilities, schools, recreational buildings, machinery and equipment rooms, offices, retail stores and similar applications. Their low silhouette is ideally suited for those applications where aesthetics is a consideration.

FDD direct drive units use the Fantech external rotor motor impeller, resulting in low sound levels, quiet operation and 100% speed controllability. The backward inclined wheel makes this unit suitable for either ducted or non-ducted applications. Its roof mounting permits location near the area to be ventilated, allowing for short duct runs and more efficient operation.

Options/Accessories

Solid State Speed Control: Allows for continuous reduction in airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Exhauster performance can be controlled from the ventilated area.

Roof Curb: Prefabricated heavy gauge galvanized steel welded construction, 8" high with 1-1/2" wood nailer. Assures perfect fit of exhauster to roof curb. Options include burglar bars; single and double pitch construction and additional curb heights.

Automatic Damper: Automatic aluminum damper for ease of installation and effective back draft protection.

Motor Operated Damper: Motor operated for positive closure.

230v Single phase 50/60 Hz Motors

Construction Features

Housing

- Curb cap has deep spun inlet for efficient performance and pre-punched mounting holes for ease of installation.
- Spun aluminum hood for weather protection and attractive appearance.
- Heavy gauge motor support for rigidity and strength.
- One-piece aluminum wind band and bird screen.
- Safety disconnect standard on all models.
- Conduit passage for easy electrical connection from below roof.

Motor/Impeller

- Unique external rotor motor design.
- Totally enclosed motor operates in high moisture, lint and dust laden air.
- The motors are a permanent split capacitor (PSC) type, with automatic thermal overload protection and sealed ball bearings.
- Designed as one integral unit, allowing for excellent heat dissipation
- Motor/Impeller in the air stream for efficient cooling even at low RPM.
- Backward curved impeller design means no unstable areas of operation at any point of operation or at any voltage/rpm.
- 100% speed controllable

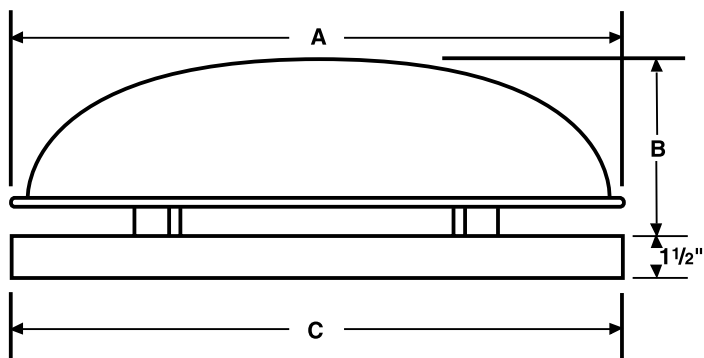
Certifications

- AMCA Air and Sound Licensed
- UL 705 Listed Power Roof Ventilator label assures electrical reliability.
- CUL listed assures electrical reliability for Canadian use.



Fantech certifies that the FDD series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA certified ratings system.





Model	A	B	C	Curb OD	Damper OD	Roof Opening	UPS Wt	Truck Wt
FDD 6	16 1/2	7	16 1/2	15	11	11 3/4	13	13
FDD 8	16 1/2	7	16 1/2	15	11	11 3/4	13	13

Dimensional data given in inches.

FDD Series Direct - Drive Downblast Ventilators

Model	Max Watts	Max. Amps	RPM (Nom)	Sones @ 1/8" SP	CFM at Static Pressure, in. WG										115/160	230/160
					0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1.0"	1 1/4"	1 1/2"	Stock No.	Stock No.
FDD 6	90	0.78	2700	7.6	300	280	260	238	218	198	176	135	92	53	42506	42507
FDD 8	140	1.28	2700	9.9	488	450	433	388	343	289	243	189	147	100	42508	42509

Speed (RPM) is nominal. Performance is based on actual speed of test. Performance shown is for installation type A – free inlet, free outlet. Performance ratings include the effects of birdscreen in the air stream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A – Free inlet fan sone levels.



Fantech certifies that the FDD series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA certified ratings system.

Model	Recommended Mounting Curbs			Recommended Dampers		
	Model	O.D. Size	Stock No	Model	Size	Stock No
FDD 6	CID 1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
FDD 8	CID 1508	15" x 15"	W1508	GDH11	11" x 11"	82G11

Performance Data at Reduced Speed

FDD Model	Max Amps	RPM	Tip Speed	Sones @ 1/8" SP	CFM at Static Pressure, in. WG									
					0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1.0"	1 1/4"
FDD6	0.78	1500	2920	2.5	166	137	102	-	-	-	-	-	-	-
		2000	3894	4.6	221	199	177	152	122	70	-	-	-	-
		2500	4867	7.4	276	258	241	224	204	183	160	128	75	-
FDD8	1.28	1500	3400	3.6	270	232	190	140	-	-	-	-	-	-
		2000	4534	5.8	360	330	302	271	239	201	147	-	-	-
		2500	5667	9.6	449	424	403	381	356	331	305	277	254	123

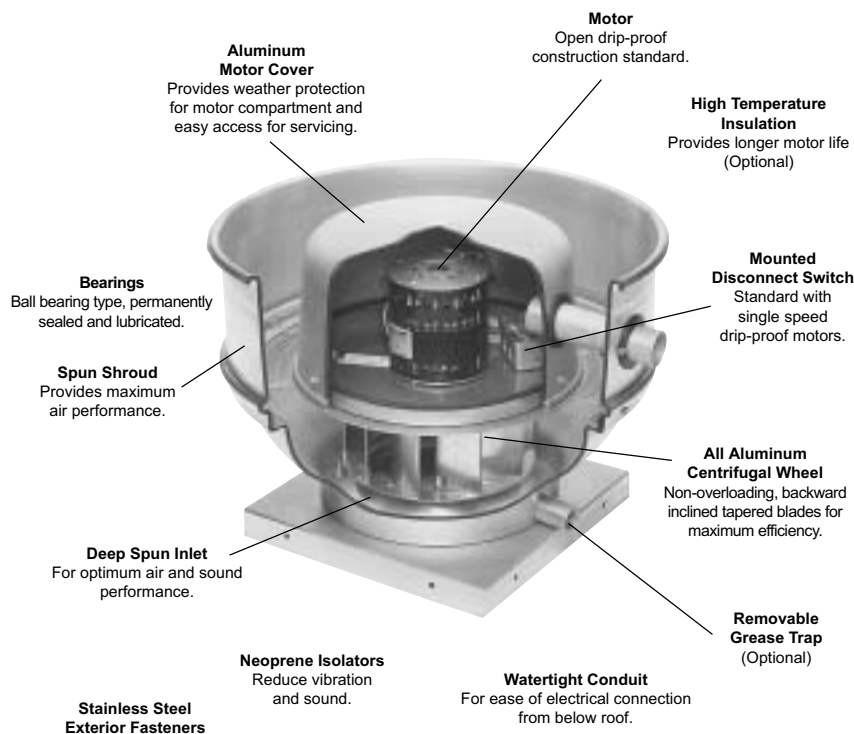
The reduced speed Models are not licensed to bear the AMCA Seal.

For a complete list of available accessories, please refer to accessories list.

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Direct Drive Upblast Centrifugal Roof Ventilators

MODEL TDU



Description

Model TDU direct drive fans are roof mounted centrifugal upblast exhausters rated from 250 to 2,780 CFM with static pressure capabilities to over 1 inch. All fans are factory test run for quality assurance. The non overloading backward inclined wheel with its higher static pressure capability makes this unit suitable for either ducted or nonducted applications. Direct drive units use smaller diameter wheels, resulting in low sound levels and quiet operation. They have no belts or fan bearings to maintain or adjust and consequently require very little maintenance.

All TDU fans are designed and manufactured for high performance and long life. Heavy gauge materials are used throughout each unit. The spun inlet and shroud design provide excellent air moving efficiencies.

Options/Accessories

Wall Mount Adapters: Available as factory installed accessory.

Solid State Speed Control: Available with direct drive models. Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments of airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Exhauster performance can be controlled from the ventilated area.

Roof Curb: Prefabricated heavy gauge galvanized steel welded construction, 8" high with 1-1/2" wood nailer. Assures perfect fit of exhauster to roof curb. Options include burglar bars, single and double pitch construction, and additional curb heights.

Automatic Damper: Automatic aluminum damper for ease in installation and effective backdraft protection.

Motor Operated Damper: Motor operated for positive closure against back draft.

UL762: (TDU10-15 only) Max. temperature 150°.

Construction Features

Housing

- Curb cap with integral deep single piece spun inlet for efficient performance and prevention of leakage into ductwork.
- Heavy gauge aluminum housing and curb cap for strength and rigidity.
- Stainless steel exterior fasteners.
- Enclosed, ventilated motor compartment isolates motor from exhaust air.
- Neoprene isolators for reduction of vibration and sound.
- The motor compartment housing easily removes for complete maintenance access.
- Water-tight conduit tube for easy electrical connection without having to wire through the breather tube.
- Mounted disconnect is included on standard models.

Centrifugal Wheel

- Backward inclined for efficiency at higher static pressure.
- Non-overloading for safe operation in ducted systems.
- Heavy aluminum hub for extra strength.
- Close running tolerance between inlet cone and wheel inlet for maximum efficiency.
- Statically and dynamically balanced for smooth, quiet operation.

Motors

- Brands are nationally recognized and locally serviced.
- Single speed drip-proof motors are provided on standard models.
- All motors are rated for continuous duty.
- Disconnect switch is standard with single speed drip-proof motor.
- Heavy gauge steel motor brackets designed for maximum strength.

Certifications

- AMCA Air and Sound Licensed.
- UL 705 Listed Power Roof Ventilator label assures electrical reliability.
- CUL listed assures electrical reliability for Canadian use.



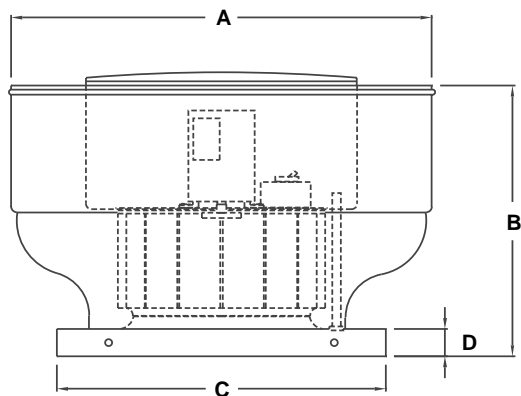
Fantech certifies that the TDU Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Hinged Curb Assembly	
Fan Model	Stock No
TDU 10-15	BHCAD



Model TDU is listed for electrical compliance - UL705, UL762 and c/UL705, c/UL762 Canada.



Model	A	B	C	D	Curb OD	Damper OD	Roof Opening	Fan Weight	Shipping Weight
TDU 6	25 ¼	18	16 ½	2	15	11	11 ¼	37	70
TDU 8	25 ¼	18	16 ½	2	15	11	11 ¼	37	70
TDU 10	28 ¾	21	16 ½	2	15	11	11 ¼	40	73
TDU 12	32 ¾	26	24	2	22 ½	18	19 ½	70	115
TDU 14	32 ¾	26	24	2	22 ½	18	19 ½	75	120
TDU 15	32 ¾	26	24	2	22 ½	18	19 ½	75	120

Dimensional data given in inches.

TDU Series Direct Drive Upblast Ventilators

Ventilator with Open Dripproof Motor and Drive Assembly

Model	Motor Hp	Max. BHp	RPM	Tip Speed	Sones @ 1/8" SP	CFM at Static Pressure, in. WG										115/1/60	208-230/1/60
						0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1.0"	Stock No.	Stock No.	
TDU 6	1/10	0.09	1795	3792	7.7	410	370	328	276	203	-	-	-	-	G06J1	G06J2	
TDU 8	1/4	0.07	1130	3305	6.2	886	783	644	441	-	-	-	-	-	G08M1	G08M2	
	1/4	0.24	1740	5090	13.8	1364	1300	1232	1158	1072	960	851	698	510	G08M3	G08M4	
TDU10	1/4	0.27	1650	5148	14.7	1527	1460	1398	1325	1236	1129	1011	883	747	G10M1	G10M2	
TDU 12	1/4	0.16	1140	4224	9.6	1616	1487	1338	1161	983	760	462	-	-	G12M1	G12M2	
	1/2	0.55	1730	6410	21.0	2453	2364	2281	2196	2097	1985	1867	1751	1638	G12P1	G12P2	
TDU 14	1/4	0.25	1130	4370	10.4	2060	1939	1798	1638	1439	1177	856	-	-	G14M1	G14M2	
TDU 15	1/2	0.41	1155	4880	13.2	2786	2653	2491	2313	2104	1863	1623	1362	969	G15P1	G15P2	

Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance shown is for installation type A-free inlet, free outlet. Performance ratings include the effects of birdscreen in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A - Free inlet fan sone levels.



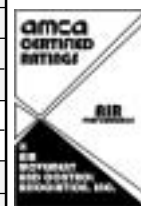
Fantech certifies that the TDU Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Model	Recommended Mounting Curbs			Recommended Dampers		
	Model	O.D. Size	Stock No	Model	Size	Stock No
TDU 6	CID1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
TDU 8	CID1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
TDU 10	CID1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
TDU 12	CID22Q08	22 ½" x 22 ½"	W2208	GDH18	18" x 18"	82G18
TDU 14	CID22Q08	22 ½" x 22 ½"	W2208	GDH18	18" x 18"	82G18
TDU 15	CID22Q08	22 ½" x 22 ½"	W2208	GDH18	18" x 18"	82G18

Performance Data at Reduced Speed

TDU Model	Motor Hp	Max. BHp		Tip Speed	Sones @ 1/8" SP	CFM at Static Pressure, in. WG									
						0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1.0"	
6-1795	1/10	0.02	1150	2345	2.4	253	185	-	-	-	-	-	-	-	
	1/10	0.05	1470	3105	5.1	335	286	227	115	-	-	-	-	-	
8-1130	1/4	0.01	680	1989	1.2	533	302	-	-	-	-	-	-	-	
	1/4	0.03	860	2516	3.2	674	525	-	-	-	-	-	-	-	
	1/4	0.05	1040	3042	5.2	815	701	536	-	-	-	-	-	-	
8-1740	1/4	0.10	1405	4109	9.3	1101	1021	930	814	673	468	-	-	-	
10-1650	1/4	0.10	1185	3697	7.8	1097	1007	896	742	561	318	-	-	-	
	1/4	0.20	1500	4680	12.3	1388	1316	1245	1155	1043	914	771	615	407	
12-1140	1/4	0.03	680	2519	3.3	964	712	352	-	-	-	-	-	-	
	1/4	0.08	905	3353	6.5	1283	1116	897	649	-	-	-	-	-	
12-1730	1/2	0.17	1175	4353	10.2	1666	1540	1399	1228	1060	855	599	-	-	
	1/2	0.32	1445	5354	14.9	2049	1945	1844	1724	1586	1446	1310	1152	969	
14-1130	1/4	0.05	680	2630	3.6	1240	1011	609	-	-	-	-	-	-	
	1/4	0.13	905	3500	6.8	1650	1491	1294	1020	617	-	-	-	-	
15-1155	1/2	0.05	570	2408	3.1	1375	1027	422	-	-	-	-	-	-	
	1/2	0.18	885	3739	8.2	2135	1948	1710	1406	1087	-	-	-	-	

TDU model noted in supplemental performance data is given as base model size and motor rpm. Refer to certified performance data chart corresponding base model RPM for stock number and pricing.



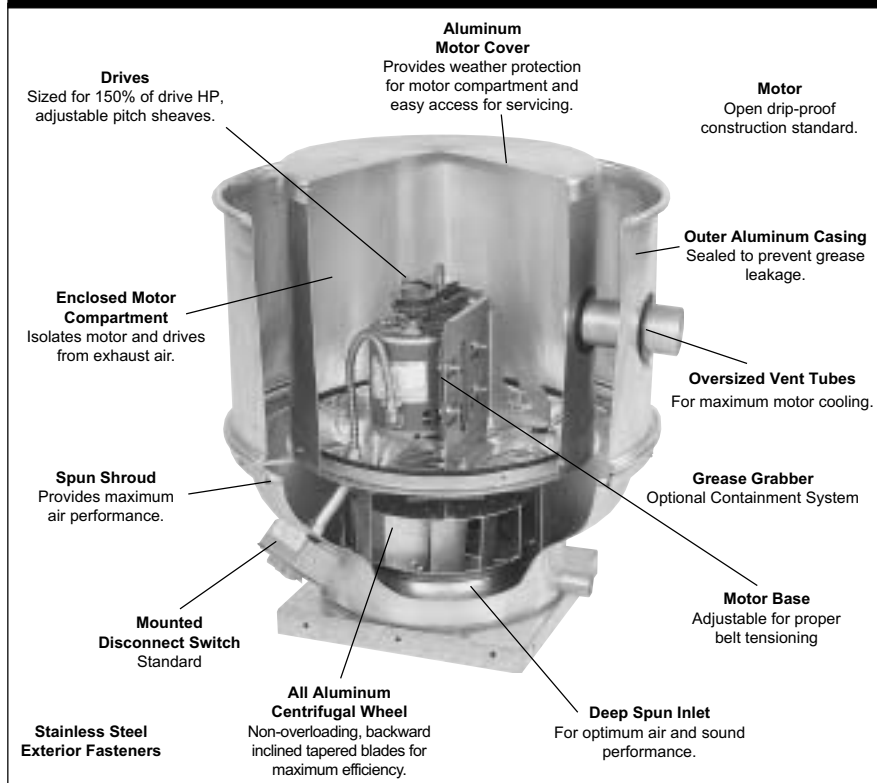
Fantech certifies that the TDU Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to air performance only.

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Belt-Drive Upblast Centrifugal Roof Ventilators

MODEL TBU UL762 Restaurant Exhaust



Description

Model TBU belt drive fans are roof mounted centrifugal upblast exhausters rated from 1000 to 16,000 CFM with static pressure capabilities to 1-1/4 inches. Isolation of motor and drive components from the air stream and the high velocity vertical air discharge make the Model TBU ideally suited for the removal of dirty contaminated and/or high temperature air from processes and buildings. Typical applications include restaurant hoods and similar kitchen exhaust ventilation, fume and smoke removal, and a wide range of commercial, industrial and institutional environments such as manufacturing and assembly plants, office buildings, schools, hospitals, athletic facilities and many others.

Options/Accessories

Optional Models:

High pressure units for use with wash-down or scrubber type hoods available. Contact factory for performance specifications, pricing and delivery. Wall mount adaptors are available as a factory installed accessory.

Roof Curb: Prefabricated heavy-gauge galvanized steel welded construction 8" high (other heights are also available) with 1-1/2" wood nailer. Assures perfect fit of exhauster to roof opening. Options include burglar bars single or double pitch construction and hinged curbs for easy duct access.

Grease Grabber: Trap designed for fast and inexpensive replacement. Grease collects in a container for safe and sanitary disposal. Keeps roof clean with proper use.

Automatic Damper: Automatic aluminum damper for ease in installation and effective backdraft protection. (Not for UL762 or NFPA96 use).

Motor Operated Damper: Motor operated aluminum damper for positive closure against backdraft. (Not for UL762 or NFPA96 use).



Model GT Grease Containment System
Canister for the capture and containment of grease exhausted from grilling and deep frying. Prevents build-up of grease in the blower casing and on the roof of the building.



Grease Trap Containment System

Model	Fan Model	Stock No
GT001	TBU Series	B0055

Hinged Curb Assembly

Fan Model	Stock No
TBU 10-24	BHCAD

Construction Features

Housing

- Curb cap with integral deep single piece spun inlet for efficient performance and prevention of leakage into ductwork.
- Heavy gauge aluminum housing. Curb cap is galvanized steel on all UL 762 units.
- Adjustable motor base for proper belt tension and ease of adjustment.
- Enclosed ventilated motor/drive compartment isolates motor and drives from exhaust air.
- Neoprene isolators for reduction of vibration and sound.
- The motor compartment housing easily removes for complete maintenance access.
- Water-tight conduit tube for easy electrical connection without having to wire through the breather tube.
- Disconnect is included on standard models.

Centrifugal Wheel

- Backward inclined for efficiency at higher static pressure.
- Non-overloading for safe operation in ducted systems.
- Heavy aluminum hub for extra strength.
- Close running tolerance between inlet cone and wheel inlet for maximum efficiency.
- Statically and dynamically balanced for smooth quiet operation.

Motors

- Brands are nationally recognized and locally serviced.
- Single speed drip-proof motors are provided on standard models.
- All motors are rated for continuous duty.
- Disconnect switch is standard with single speed drip-proof motor.
- Heavy gauge motor brackets designed for maximum strength.

Drives

- Sized for minimum 150% of drive horse power.
- Machined cast iron adjustable motor pulleys.
- Adjustable base for belt tensioning.
- Non-static oil resistant V-Belts.

Bearings

- Heavy duty ball bearing type.
- Pre-lubricated and permanently sealed.
- Sized for 200,000 hour life.

Certifications

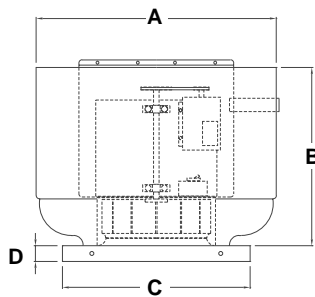
- AMCA Air and Sound Licensed.
- UL 762 Listed for Restaurant Exhaust
- UL 762 Canada assures electrical reliability for Canadian use.
- NFPA - Model TBU is suitable for National Fire Protection Association installations. Contact factory for required accessories.



Fantech certifies that the TBU Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model TBU is listed for electrical compliance - UL705, UL762 and c/UL705, c/UL762 Canada.



Model	A	B	C	D	Curb OD	Damper OD	Roof Opening	Shipping Weight
TBU 10	27 1/2	26	16 1/2	2	15	11	11 3/4	70
TBU 12	31 1/2	26	24	2 1/2	22 1/2	18	19 1/4	90
TBU 15	31 1/2	26	24	2 1/2	22 1/2	18	19 1/4	95
TBU 16	31 1/2	26	24	2 1/2	22 1/2	18	19 1/4	100
TBU 18	37 3/4	28	29 1/2	2 1/2	27 3/4	24	24 3/4	120
TBU 20	37 3/4	28	29 1/2	2 1/2	27 3/4	24	24 3/4	120
TBU 24	47 1/4	40	35 1/2	2 1/2	33 3/4	30	30 3/4	245
TBU 30	56 3/4	49	42 1/2	2 1/2	40 3/4	36	37 3/4	365
TBU 36	66	52	42 1/2	2 1/2	40 3/4	36	37 3/4	365

Fans Less Motor and Drive			Recommended Mounting Curbs			Recommended Dampers		
Model	Stock No	Weight	Model	O.D. Size	Stock No	Model	Size	Stock No
TBU 10	B1000	25	CID1508	15" x 15"	W1508	GDH11	11" x 11"	82G11
TBU 12	B1200	40	CID22Q08	22 1/2" x 22 1/2"	W2208	GDH18	18" x 18"	82G18
TBU 15	B1500	45	CID22Q08	22 1/2" x 22 1/2"	W2208	GDH18	18" x 18"	82G18
TBU 16	B1600	50	CID22Q08	22 1/2" x 22 1/2"	W2208	GDH18	18" x 18"	82G18
TBU 18	B1800	55	CID27O08	27 3/4" x 27 3/4"	W2708	GDH24	24" x 24"	82G24
TBU 20	B2000	60	CID27O08	27 3/4" x 27 3/4"	W2708	GDH24	24" x 24"	82G24
TBU 24	B2400	110	CID33O08	33 3/4" x 33 3/4"	W3308	GDH30	30" x 30"	82G30
TBU 30	B3000	215	CID40O08	40 3/4" x 40 3/4"	W4008	GDH36	36" x 36"	82G36
TBU 36	B3600	220	CID40O08	40 3/4" x 40 3/4"	W4008	GDH36	36" x 36"	82G36

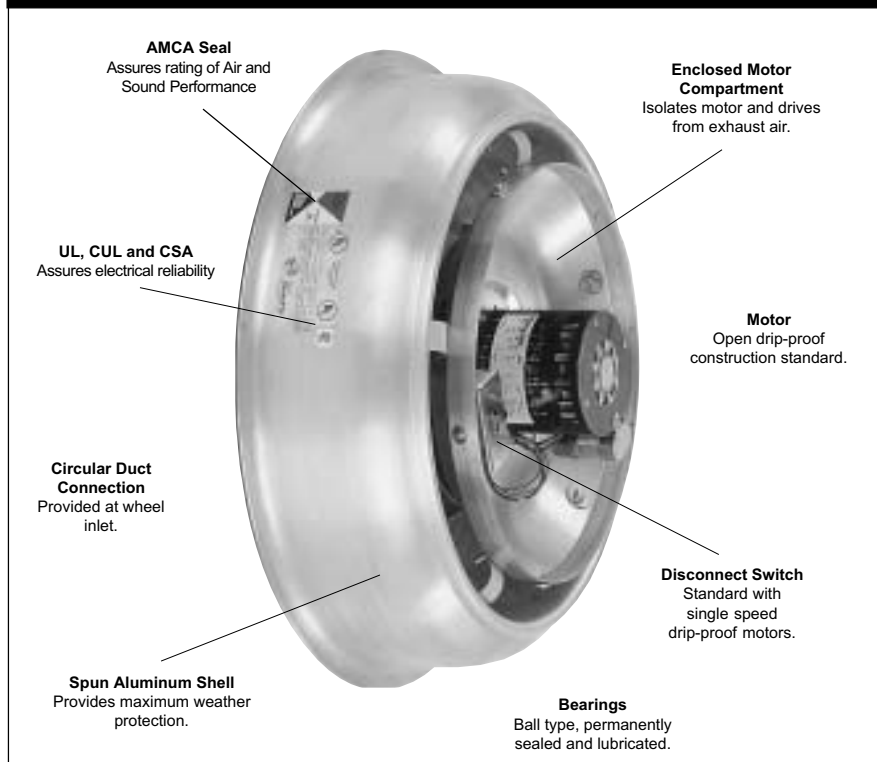
TBU Series Belt-Drive Upblast Ventilators															Ventilator with Open Dripproof Motor and Drive Assembly	
Model	Motor Hp	Max. BHp	RPM	Tip Speed	Sones @ 1/4" SP	CFM at Static Pressure, in. WG									115/1/60*	208-230-460/3/60
						0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1.0"	1 1/4"	Stock No.	Stock No.
TBU 10	1/4	0.09	1150	3688	6.8	999	888	753	593	394	-	-	-	-	B10M1	B10M3
	1/4	0.22	1570	5035	11.8	1364	1287	1199	1101	1001	891	752	439	-	B10M2	B10M5
	1/2	0.50	2050	6574	19	1781	1724	1662	1595	1523	1446	1369	1212	1006	B10P1	B10P3
TBU 12	1/4	0.27	1500	4810	4.8	1507	1423	1353	1281	1201	1107	996	703	-	B12M1	B12M3
	1/3	0.35	1645	5275	5.8	1652	1574	1509	1446	1378	1302	1215	1006	687	B12N1	B12M3
	1/2	0.54	1890	6061	7.7	1898	1828	1769	1715	1659	1600	1537	1390	1211	B12P1	B12P3
TBU 15	1/4	0.25	995	3972	9.5	2208	2055	1899	1747	1553	1286	-	-	-	B15M1	B15M3
	1/3	0.33	1095	4372	11.3	2430	2290	2146	2015	1864	1677	1431	-	-	B15N1	B15N3
	1/2	0.50	1255	5010	14.5	2785	2660	2541	2416	2302	2172	2021	1609	-	B15P1	B15P3
	3/4	0.75	1435	5729	18.3	3184	3073	2972	2862	2755	2656	2548	2288	1941	B15Q1	B15Q3
	1	1.02	1590	6348	22	3528	3427	3334	3241	3139	3044	2955	2755	2511	B15R1	B15R3
TBU 16	1/4	0.27	800	3768	9.8	2616	2432	2235	1993	1676	1052	-	-	-	B16M1	B16M3
	1/3	0.35	880	4145	11.9	2877	2705	2553	2333	2087	1789	1208	-	-	B16N1	B16N3
	1/2	0.55	1020	4808	16.1	3335	3179	3058	2901	2709	2512	2264	1448	-	B16P1	B16P3
	3/4	0.77	1140	5369	19.9	3728	3582	3469	3358	3197	3028	2858	2417	1613	B16Q1	B16Q3
	1	1.12	1290	6067	25	4218	4084	3980	3884	3783	3637	3482	3176	2784	B16R1	B16R3
TBU 18	1/3	0.33	820	3945	9.9	2950	2764	2576	2362	2120	1807	-	-	-	B18N1	B18N3
	1/2	0.50	940	4522	12.5	3382	3219	3058	2886	2696	2488	2243	-	-	B18P1	B18P3
	3/4	0.74	1075	5171	16	3868	3725	3584	3442	3288	3123	2950	2786	-	B18Q1	B18Q3
	1	1.04	1200	5773	19.4	4318	4189	4063	3937	3808	3668	3521	3201	2816	B18R1	B18R3
	1 1/2	1.49	1350	6494	24	4857	4742	4630	4518	4406	4291	4169	3906	3621	B18S1	B18S3
TBU 20	1/2	0.54	775	4332	12.5	4152	3919	3666	3392	3054	2554	1910	-	-	B20P1	B20P3
	3/4	0.77	875	4891	15.7	4688	4483	4264	4034	3784	3482	3067	1902	-	B20Q1	B20Q3
	1	1.07	975	5450	19.1	5224	5041	4848	4646	4436	4208	3944	3175	2072	B20R1	B20R3
	1 1/2	1.60	1115	6233	24	5974	5815	5649	5477	5300	5116	4923	4470	3808	B20S1	B20S3
TBU 24	1/3	0.33	495	3175	8	4555	4188	3731	3018	-	-	-	-	-	B24N1	B24N3
	1/2	0.50	565	3624	10.3	5199	4884	4519	4063	3346	-	-	-	-	B24P1	B24P3
	3/4	0.75	650	4169	13.6	5981	5712	5413	5072	4661	4099	2979	-	-	B24Q1	B24Q3
	1	1.03	720	4618	16.6	6626	6384	6123	5835	5509	5124	4623	-	-	B24R1	B24R3
	1 1/2	1.51	820	5259	22	7546	7336	7113	6874	6616	6332	6010	5146	2245	B24S1	B24S3
	2	2.00	900	5773	26	8282	8091	7892	7681	7457	7216	6956	6339	5433		B24T3
TBU 30	1 1/2	1.51	585	4671	14.8	-	9525	9055	8555	8001	7334	6495	-	-	B30S1	B30S3
	3	3.00	735	5869	22	-	12177	11812	11437	11047	10637	10199	9152	7730		B30U3
TBU 36	2	2.04	495	4625	14.2	14295	13770	13165	12449	11560	10483	8988	-	-		B36T3
	3	3.03	565	5279	17.7	16317	15863	15361	14795	14146	13377	12455	9936	-		B36U3

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Power Ratings (BHP) does not include drive losses. Performance shown is for installation type A-free inlet, free outlet. Performance ratings include the effects of birdscreen in the airstream. The sound ratings shown are loudness values in fan sonos @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A - Free inlet fan sonos levels.

Direct Drive Centrifugal Wall Exhausters

MODEL TDW



Description

Models TDW are high capacity wall mounted centrifugal exhaust fans rated from 150 to over 3300 CFM, with static pressure capabilities to 1 inch. They are used to exhaust relatively clean air from a variety of industrial, commercial and institutional buildings such as machinery and equipment rooms, storage areas, office buildings, restaurants, retail stores, schools and similar buildings.

Direct drive units use smaller diameter wheels, resulting in low sound levels and quiet operation. They have no belts or fan bearings to maintain or adjust and consequently require very little maintenance. The non-overloading backward inclined centrifugal wheel with its high static pressure capability, makes it suitable for either ducted or non-ducted applications. It should be used where a wall mounted location is preferred to roof mounting.

The spun aluminum exterior provides a pleasing appearance, weatherproof construction and resistance to corrosion. The low silhouette design is less noticeable on the building exterior and the removable dome provides easy access to the fan interior for service and cleaning.

Options/Accessories

Solid State Speed Control: Available with 115 volt single phase direct drive models. Control is matched to the motor and blower wheel to allow reduction in performance from full motor speed to 60% of full speed. CFM is reduced in direct proportion to motor speed reduction. Exhauster performance can be controlled from the ventilated area.

Automatic Dampers: Automatic spring return circular or gravity operated square dampers for ease in circular, square or non-ducted installations and effective backdraft protection.

Epoxy Finish: Epoxy forms an excellent hard, heavy film barrier against chemical attack as well as physical damage from direct impact and abrasion.

Construction Features

Housing

- Integral spun inlet for efficient performance.
- Spun aluminum dome for weather protection and attractive appearance.
- Motor support of heavy gauge aluminum for rigidity and strength.
- Ventilated motor compartment with motor out of air stream for long trouble-free service.
- Dome easily removes for access to motor compartment.
- Water-tight construction.
- Duct connection provided at wheel inlet.

Centrifugal Wheel

- Backward inclined for efficiency at higher static pressure.
- Close running tolerance between inlet cone and wheel inlet for maximum efficiency.
- Non-overloading for safe operation in ducted systems.
- Statically and dynamically balanced for smooth, quiet operation.
- Heavy aluminum hub for extra strength.
- All aluminum construction.

Motors

- Speed controllable motors available on most models.
- Brands are nationally recognized and locally serviced.
- Single speed open drip-proof are standard.
- Disconnect switch standard with single speed drip-proof motors.

AMCA Seal

- Models TDW are licensed for Air and Sound Performance.

UL Label/CSA Label

- UL 705, UL Canada, NRTL/C and CSA.



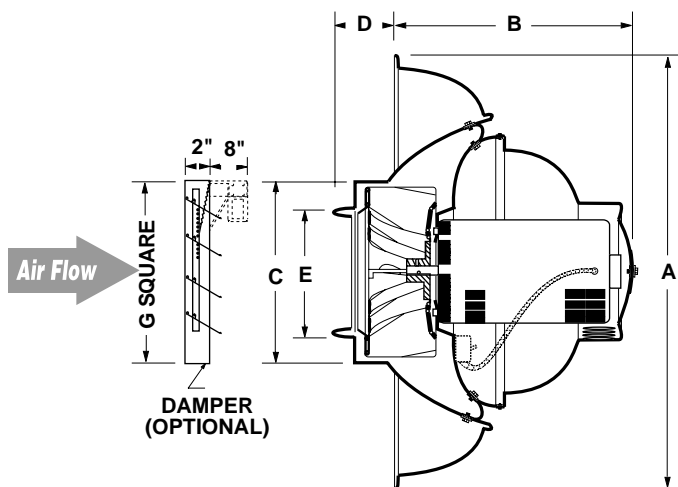
Fantech certifies that the TDW Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model TDW is listed for electrical compliance - UL705 and c/UL705 Canada.



These fans are listed by the Canadian Standards Association Testing Laboratories as approved.



Model	A	B	C	D	E	G	≠ Wall Opening	Shipping Weight
TDW 7	15	8	8	1 ½	5 15/16	8	9 ¼	15
TDW 8	20	9	12	2	9 15/16	11	12 ¼	25
TDW 9	26	13 ½	15	3	11 15/16	11	15 ¼	40
TDW 10	26	15 ½	17 ½	3	11 15/16	11	15 ¼	40
TDW 12	30	15 ½	17 ½	3	13 15/16	14	18 ¼	55
TDW 14	36	16 ½	22	4	17 15/16	18	22 ¼	90
TDW 16	36	16 ½	22	4	17 15/16	18	22 ¼	90

Dimensional data given in inches.

* NOTE: For round duct connection to unit with circular damper, cut a circular hole in the wall to dimension "C".

TDW Series Direct-Drive Wall Exhausters

Ventilator with Open Dripproof Motor and Drive Assembly

Model	Motor Hp	Max. BHp	RPM	Tip Speed	Sones @ 1/8" SP	CFM at Static Pressure, in. WG										115/1/60	208-230/1/60
						0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1.0"	Stock No.	Stock No.	
TDW 7	1/25	0.04	1550	2871	5.9	254	220	179	127	66	-	-	-	-	M07H1		
TDW 8	1/25	0.07	1550	3778	11.4	524	463	390	320	249	186	132	-	-	M08K1		
TDW 9	1/4	0.12	1140	3335	6.4	898	755	564	390	221	-	-	-	-	M09M1	M09M2	
	1/4	0.26	1550	4534	11.4	1221	1126	1009	894	771	645	545	-	-	M09M3	M09M4	
TDW 10	1/3	0.33	1575	4812	15.4	1453	1355	1252	1118	921	785	663	548	433	M10N1	M10N2	
TDW 12	1/4	0.26	1100	3968	10.6	1583	1393	1195	995	813	618	410	193	-	M12M1	M12M2	
TDW 14	1/2	0.50	1080	4633	15.7	2585	2454	2281	2040	1722	1433	1170	906	670	M14P1	M14P2	
TDW 16	3/4	0.75	1140	4835	18.3	3360	3158	2937	2669	2349	2005	1692	1364	1032	M16Q1	M16Q1	

Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance shown is for installation type A-free inlet, free outlet. Performance ratings include the effects of birdscreen in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A - Free inlet fan sone levels.

TDW16 is not speed controllable.



Fantech certifies that the TDW Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Model	Recommended Circular Dampers			Recommended Square Dampers		
	Model	Size	Stock No	Model	Size	Stock No
TDW 7	RSK 6	6" Circular	69060	GDH8	8" x 8"	82G08
TDW 8	RSK 10	10" Circular	69100	GDH11	11" x 11"	82G11
TDW 9	RSK 12	12" Circular	69120	GDH11	11" x 11"	82G11
TDW 10	RSK 12	12" Circular	69120	GDH14	14" x 14"	82G14
TDW 12	RSK 14	14" Circular	69140	GDH14	14" x 14"	82G14
TDW 14	Not Available at Present			GDH18	18" x 18"	82G18
TDW 16	Not Available at Present			GDH18	18" x 18"	82G18

Performance Data at Reduced Speed

TDW Model	Motor Hp	Max. BHp	RPM	Tip Speed	Sones @ 1/8" SP	CFM at Static Pressure, in. WG									
						0.0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1.0"	
7-1550	1/25	0.02	930	1723	1.5	152	84	-	-	-	-	-	-	-	
	1/25	0.02	1230	2279	3.4	202	156	93	-	-	-	-	-	-	
8-1550	1/15	0.02	930	2267	3.5	320	209	98	-	-	-	-	-	-	
	1/15	0.05	1225	2986	6.4	421	339	251	167	-	-	-	-	-	
9-1140	1/4	0.03	685	2004	1.9	540	258	-	-	-	-	-	-	-	
	1/4	0.08	940	2750	4.3	741	554	330	-	-	-	-	-	-	
9-1550	1/4	0.09	1030	3012	5.6	811	651	467	313	-	-	-	-	-	
10-1575	1/3	0.10	1030	3147	7.2	950	794	540	357	173	-	-	-	-	
12-1100	1/4	0.07	685	2471	3.6	986	670	365	-	-	-	-	-	-	
	1/4	0.15	900	3247	7.0	1296	1058	816	589	340	-	-	-	-	
14-1080	1/2	0.14	685	2939	6.7	1640	1382	913	498	-	-	-	-	-	
	1/2	0.30	900	3861	11.0	2154	1987	1730	1346	1028	711	390	-	-	

TDW model noted in supplemental performance data is given as base model size and motor rpm. Refer to certified performance data chart corresponding base model rpm for stock number and pricing.



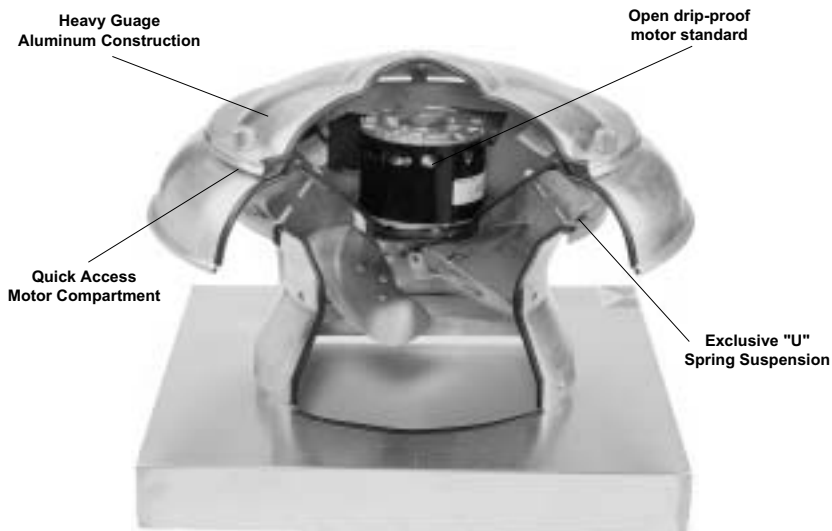
Fantech certifies that the TDW Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to air performance only.

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Exhaust and Supply Roof Mounts

MODEL TARE



Description

The TARE (Exhaust) and TARS (Supply) are roof mounted axial exhaust or supply fans rated from 495 to over 2900 CFM, with static capabilities to $\frac{3}{4}$ inch. They are used in offices, factories, hospitals, restaurants, retail stores, bathrooms, schools and other similar applications where light to moderate static pressures are present. Their lightweight and compact design make them easy to install.

Direct Drive units have no belts, so require very little maintenance. The low contour all aluminum housing provides a clean appearance with durability and performance.

Options/Accessories

Solid State Speed Control: Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments in airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Fan performance can be controlled from the ventilated area.

Roof Curb: Prefabricated heavy gauge galvanized steel welded construction, 8" high with 1-1/2" wood nailer. Assures perfect fit of fan to curb. Options include, burglar bars, single and double pitch construction and additional curb heights.

Automatic Damper: Automatic aluminum damper for ease in installation and effective back draft protection.

Motor Operated Damper: Motor operated for positive closure against back draft.

Bird Screen: Galvanized mesh.

Insect Screen: Aluminum insect screen over bird screen.

Transformer: 208/230/460v step down to 115v.

Construction Features

Housing

- Heavy gauge all aluminum housing.
- Exclusive U-Spring suspension compensates for both lateral and radial movement and provides 44% better vibration isolation than rubber isolators.
- External wiring chase for ease of connection.
- High point of discharge with low silhouette design.
- Quick access to motor compartment for easy maintenance.

Propellers

- Attaches directly to fan shaft for maximum efficiency.
- Precision pitched. Heavy gauge aluminum blades with steel hub. Blades are designed for specific exhaust or supply requirements.
- Statically and dynamically balanced and keyed to motor shaft.

Motors

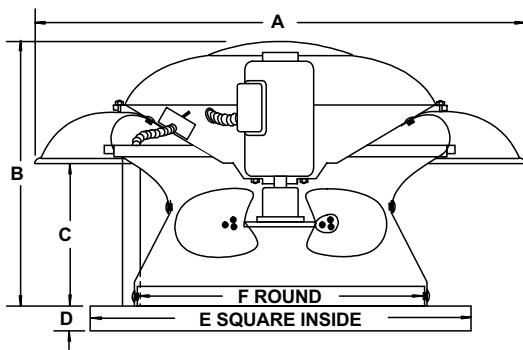
- Standard motors are single speed, speed controllable and open drip proof.
- All motors are rated for continuous duty.
- Disconnect is standard on open drip proof motors.
- Nationally recognized manufacturers, permanently lubricated bearings.

Certifications

- UL 705 Listed Power Roof Ventilator label assures electrical reliability.
- cUL listed assures electrical reliability for Canadian use.
- Tested for air and sound in accordance with AMCA Publication 211 and AMCA 311.



Model	Recommended Mounting Curb		Recommended Gravity Dampers	
	Model	Stock No	Model	Stock No
TARE 10	CID18Q08	W1808	GDH14	82G14
TARS 10	CID18Q08	W1808	GDS12	84G12
TARE 12	CID22Q08	W2208	GDH18	82G18
TARS 12	CID22Q08	W2208	GDS16	84G16
TARE 16	CID26Q08	W2608	GDH22	82G22
TARS 16	CID26Q08	W2608	GDS20	84G20
TARE 20	CID30Q08	W3008	GDH26	84G26
TARS 20	CID30Q08	W3008	GDS24	84G26



Model	A	B	C	D	E	F	G	Shipping Weight
TAR-10	21	13	7	2	20	12 ¾	14	25
TAR-12	28	16	8	3	24	15 ¾	18	42
TAR-16	32	18	8 ½	3	28	19 ¾	22	55
TAR-20	36	20	9 ¾	3	32	23 ¾	26	75

Dimensional data given in inches.

TARE Exhaust Roof Mounts

Ventilator with Open Dripproof Motor and Drive Assembly

Model	Motor Hp	Max. BHp	RPM	Sones @ 0" SP	CFM at Static Pressure, in. WG								115/1/60	115/208/230/1/60
					0.0"	1/10"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	Stock No.	Stock No.
TARE 10	1/15	0.067	1550	4.2	825	730	570	405					R10I1	N/A
TARE 12	1/4	0.125	1075	4.1	1320	1224	1190	730	570	320			R12M1	N/A
TARE 12	1/4	0.250	1725	6.1	2000	1857	1840	1760	1570	1160	1060	970	R12M2	R12M3
TARE 16	1/6	0.167	1140	4.5	2040	1796	1730	1400	1110	930			R16O1	N/A
TARE 16	1/3	0.333	1725	9.5	3060	2863	2810	2650	2580	2410	2020	1800	R16N1	R16N2
TARE 20	1/4	0.250	1140	6.9	3180	2963	2900	2530	2140	1980			R20M1	R20M2

TARS Supply Roof Mounts

Ventilator with Open Dripproof Motor and Drive Assembly

Model	Motor Hp	Max. BHp	RPM	Sones @ 0" SP	CFM at Static Pressure, in. WG								115/1/60	115/208/230/1/60
					0.0"	1/10"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	Stock No.	Stock No.
TARS 10	1/15	0.067	1550	4	775	644	610	325					T10I1	N/A
TARS 12	1/4	0.125	1075	4.1	1070	833	770	440					T12M1	N/A
TARS 12	1/4	0.250	1725	6.1	1580	1433	1400	1230	920	700	470		T12M2	T12M3
TARS 16	1/6	0.167	1140	4.5	1820	1360	1130	920	450				T16O1	N/A
TARS 16	1/3	0.333	1725	9.5	2520	2383	2340	2040	1735	1500	1070		T16N1	T16N2
TARS 20	1/4	0.250	1140	6.9	2940	2692	2630	2310	1950	1580			T20M1	T20M2

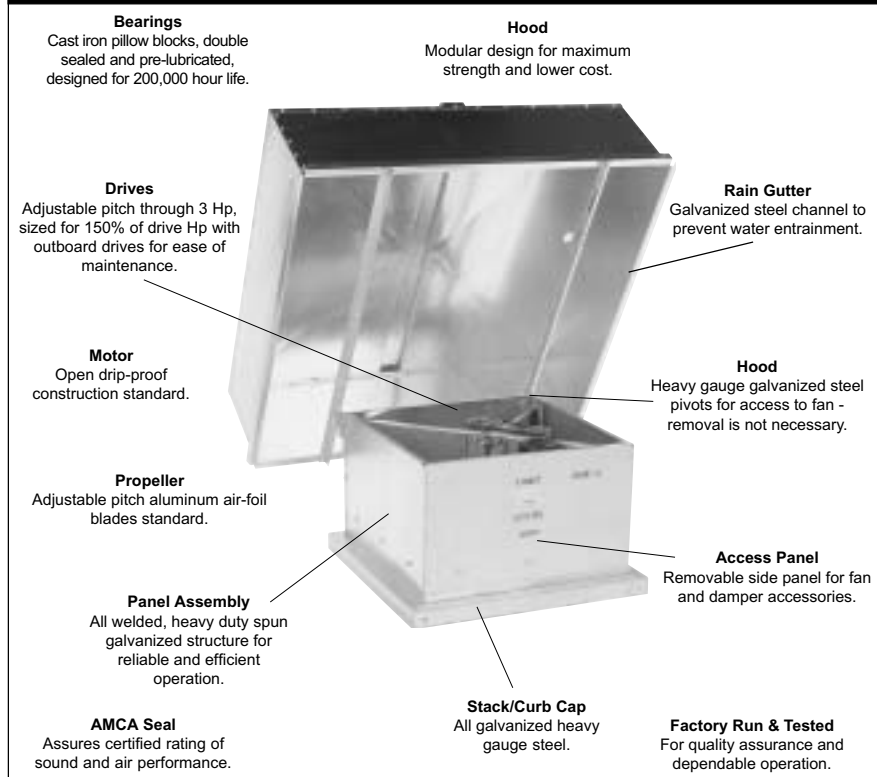
Model	Motor Hp	Max. BHp	RPM	Sones @ 0" SP	CFM at Static Pressure, in. WG							
					0.0"	1/10"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"
TARE 10	1/15	0.140	930	4.2	495	322	268					
	1/15	0.033	1230	4.2	655	532	498	316				
TARE 12	1/4	0.027	685	4.1	793	417	365					
	1/4	0.070	940	4.1	1088	914	818	478	375			
	1/4	0.053	1030	6.1	1173	1035	975	600				
TARE 16	1/6	0.036	685	4.5	1226	796	700					
	1/6	0.94	1682	4.5	1682	1378	1297	926				
	1/3	0.071	1030	9.5	1827	1572	1549	1114				
	1/3	0.169	1375	9.5	2439	2187	2149	2045	1704			
TARE 20	1/4	0.054	685	6.9	1911	1442	1318					
	1/4	0.14	940	6.9	2622	2343	2256	1776				

Model	Motor Hp	Max. BHp	RPM	Sones @ 0" SP	CFM at Static Pressure, in. WG							
					0.0"	1/10"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"
TARS 10	1/15	0.033	1230	4	615	423	351					
	1/15	0.042	1390	4	694	576	547	231				
TARS 12	1/4	0.046	820	4.1	769	512						
	1/4	0.070	940	4.1	882	588	509					
	1/4	0.053	1030	6.1	943	697	588					
	1/4	0.127	1375	6.1	1259	1082	1040	706	429			
TARS 16	1/6	0.062	820	4.5	1309	781						
	1/6	0.94	940	4.5	1501	895	842	394				
	1/3	0.071	1030	9.5	1505	1171	1069	691				
	1/3	0.169	1375	9.5	2009	1815	1742	1355	1028			
TARS 20	1/4	0.054	685	6.9	1767	1343	1223					
	1/4	0.14	940	6.9	2424	2123	2047	1626				

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Belt-Drive Downblast Axial Roof Ventilators

MODEL TBDA



Description

Models TBDA are high capacity roof mounted axial exhaust fans rated to 25,000 CFM, with static pressure capabilities to 3/4" inch. They are general ventilation units designed to economically remove large volumes of air from commercial and industrial buildings such as warehouses, manufacturing and assembly plants, foundries and mills.

The TBDA series is designed to operate efficiently and afford easy performance adjustments. Greater hood strength and weather resistance is achieved from the modular design. Heavy gauge galvanized sections are cross broken and connected by a standing seam for extra strength over conventional hood designs. For damper maintenance, an entire side panel of the fan stack easily removes for access. The hood hinges for motor access. All units have outboard drives and adjustable motor bases for easy maintenance.

Options/Accessories

Roof Curb: Prefabricated heavy-gauge galvanized steel, welded construction, 8" standard height with 1 1/2" wood nailer. Options include burglar bars, single and double pitch construction and additional curb heights.

Backdraft Damper: Gravity operated or Motor operated for positive closure against backdraft.

Disconnect Switch: Non-fused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Extended Grease Lines: Extended copper grease lines allow motor and/or fan bearings to be relubricated from the exterior.

Outlet Guard: 1" x 1/2" wire mesh guard to prevent wildlife and other objects from entering the fan.

Construction Features

Panel Assembly

- Heavy-gauge galvanized steel panel.
- One piece spun venturi for maximum efficiency.
- All welded support structure of schedule 40 galvanized pipe.
- Motor/bearing plates minimum of 10 gauge galvanized steel.
- All welds coated with cold galvanized paint.

Hood

- Heavy gauge galvanized steel.
- Low silhouette modular design
- Unique design rain gutters to minimize water entrainment.
- Gutters provide additional hood strength.
- Modular design for extra strength and cost savings.

Propeller

- Three air-foil aluminum blades.
- Steel hub plate with steel taper lock bushing.
- Adjustable pitch for optimum efficiency.
- Die formed steel blades optional where required.

Drives

- Sized for minimum 150% of drive Hp.
- Single belt adjustment pitch sheaves
- Adjustable tension rods for belt adjustment.
- Non-static oil resistant V Belts.
- Keyed, turned, ground and polished shafts with an anti-rust coating.

Bearings

- Bearings designed for minimum 200,000 hour life.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, pre-lubricated with relube fittings.

Motors

- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- High efficiency or totally enclosed fan cooled motors can be supplied where required.

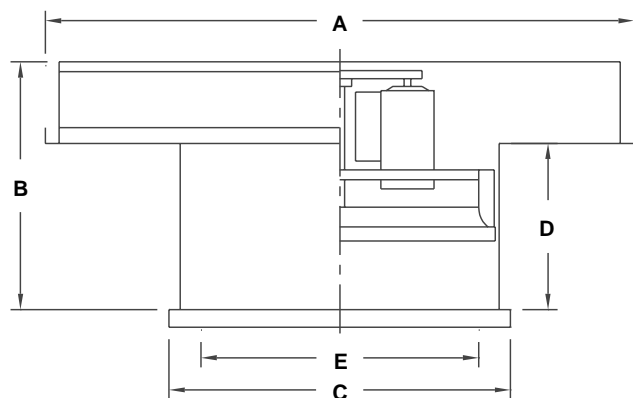
Certifications

- AMCA Air and Sound Licensed.



Fantech certifies that the TBDA Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Fans are manufactured from UL Recognized Components.



Model	A	B	C	D	E	Curb OD	Roof Opening	Fan Weight	Shipping Weight
TBDA 24	58	44	35	23	24	33 3/4"	27 1/2"	300	425
TBDA 30	66	44	41	23	30	39 1/2"	33 1/2"	360	550
TBDA 36	78	44	47	23	36	45 1/2"	39 1/2"	440	700
TBDA 42	87	51	53	30	42	51 1/2"	45 1/2"	540	800
TBDA 48	99	51	59	30	48	57 1/2"	51 1/2"	690	1100

Dimensional data given in inches.

Fans Less Motor and Drive			Recommended Mounting Curbs			Recommended Dampers		
Model	Stock No	Weight	Model	Size	Stock No	Model	Size	Stock No
TBDA 24	K2400	300	CID33Q08	33 3/4" x 33 3/4"	W3308	GDV26	26" x 26"	83G26
TBDA 30	K3000	360	CID39Q08	39 1/2" x 39 1/2"	W3908	GDV32	32" x 32"	83G32
TBDA 36	K3600	440	CID45Q08	45 1/2" x 45 1/2"	W4508	GDV38	38" x 38"	83G38
TBDA 42	K4200	540	CID51Q08	51 1/2" x 51 1/2"	W5108	GDV44	44" x 44"	83G44
TBDA 48	K4800	690	CID57Q08	57 1/2" x 57 1/2"	W5708	GDV50	50" x 50"	83G50

TBDA Series Belt-Drive Downblast Ventilators											Ventilator with Open Dripproof Motor and Drive Assembly		
Model	Motor Hp	Max. BHp	RPM	*Sones@ 5 Feet	Blades/ Pitch	CFM at Static Pressure, in. WG						115/1/60	208-230-460/3
						0.0"	1⁄8"	1⁄4"	3⁄8"	1⁄2"	3⁄4"	Stock No.	Stock No.
TBDA 24	1⁄3	0.42	970	14.9	3/25°	5702	4678	3661	2480	1159	-	K24N1	K24N3
	1⁄2	0.62	1110	18.3	3/25°	6525	5613	4764	3792	2730	-	K24P1	K24P3
	3⁄4	0.90	1270	23	3/25°	7466	6653	5915	5153	4271	2240	K24Q1	K24Q3
	1	1.20	1400	26	3/25°	8230	7482	6806	6134	5417	3809	K24R1	K24R3
TBDA 30	1⁄3	0.40	680	13.2	3/27°	7209	5018	3176	-	-	-	K30N1	K30N3
	1⁄2	0.61	780	16.3	3/27°	8269	6517	4594	3076	-	-	K30P1	K30P3
	3⁄4	0.91	890	20	3/27°	9435	7802	6092	4715	3378	-	K30Q1	K30Q3
	1	1.21	980	24	3/27°	10389	8811	7407	5693	4761	-	K30R1	K30R3
	1 1⁄2	1.81	1120	29	3/27°	11874	10351	9420	7876	6728	4619	K30S1	K30S3
TBDA 36	1⁄3	0.39	580	13.3	3/22°	8786	6104	2134	-	-	-	K36N1	K36N3
	1⁄2	0.59	665	16.5	3/22°	10073	7683	5107	-	-	-	K36P1	K36P3
	3⁄4	0.90	765	20	3/22°	11588	9473	7492	4732	-	-	K36Q1	K36Q3
	1	1.20	840	23	3/22°	12724	10811	9014	6896	3781	-	K36R1	K36R3
	1 1⁄2	1.79	960	29	3/22°	14542	12808	11215	9677	7717	-	K36S1	K36S3
	2	2.37	1055	33	3/22°	15981	14338	12909	11537	9985	5673		K36T3
TBDA 42	1⁄2	0.66	500	14.9	3/26.5°	12466	8498	3210	-	-	-	K42P1	K42P3
	3⁄4	0.89	570	18.1	3/26.5°	14211	10756	7172	-	-	-	K42Q1	K42Q3
	1	1.20	630	21	3/26.5°	15707	12613	9405	5533	-	-	K42R1	K42R3
	1 1⁄2	1.79	720	26	3/26.5°	17951	15283	12444	9640	5864	-	K42S1	K42S3
	2	2.41	795	30	3/26.5°	19821	17431	14861	12333	9694	-		K42T3
	3	3.37	910	37	3/26.5°	22688	20267	18414	16163	13965	8937		K42U3
TBDA 48	3⁄4	0.91	450	16.3	6/20°	15781	12968	9524	-	-	-	K48Q1	K48Q3
	1	1.20	495	18.9	6/20°	17360	14879	11860	8269	-	-	K48R1	K48R3
	1 1⁄2	1.76	565	23	6/20°	19814	17669	15126	12415	-	-	K48S1	K48S3
	2	2.43	625	27	6/20°	21919	19977	17838	15433	12834	-	K48T1	K48T3
	3	3.59	715	32	6/20°	25075	23364	21654	19566	17502	12688		K48U3

See price list for available motor options.

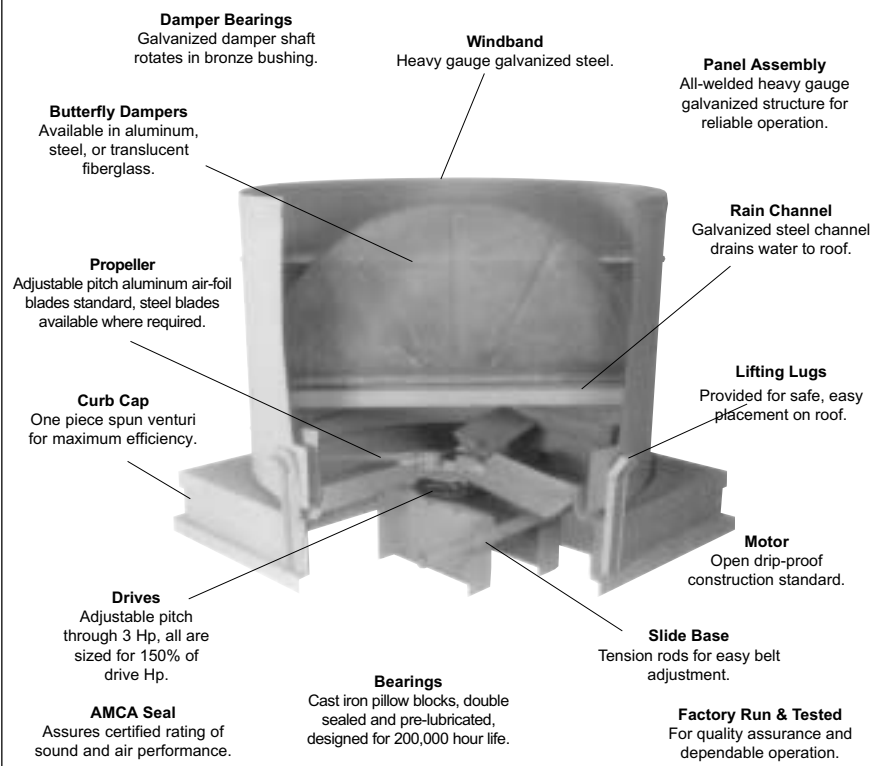
Power Ratings (BHP) does not include drive losses. Performance shown is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream.

* Sone values given at free air.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A - Free inlet fan sone levels.

Belt-Drive Upblast Axial Roof Ventilators

MODEL TBUA



Description

Models TBUA are high capacity roof mounted axial exhaust fans rated from 7,000 to over 44,000 CFM, with static pressure capabilities to 1/2 inch. They are general ventilation units designed to economically remove large volumes of air from commercial and industrial buildings such as warehouses, manufacturing and assembly plants, foundries and mills.

The TBUA series is designed to operate quietly and afford easy performance adjustments. Straight-through air flow design results in maximum exhaust efficiency. During operation, high air flow velocity opens butterfly dampers and prevents rain or snow from entering. Dampers close and cover the venturi opening when the unit is not in operation. The roof mounted location eliminates interference with processes and equipment inside the building. It also permits locating the exhauster over a source of heated or contaminated air, allowing direct upward venting to the outside.

Options/Accessories

Roof Curb: Prefabricated heavy-gauge galvanized steel, welded construction, 8" standard height with 1 1/2" wood nailer. Options include burglar bars, single and double pitch construction and additional curb heights.

Disconnect Switch: Non-fused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Extended Grease Lines: Extended copper grease lines allow motor and/or fan bearings to be relubricated from the exterior.

Outlet Guard: 1" x 1/2" wire mesh guard to prevent wildlife and other objects from entering the fan.

Magnetic Latches: Help reduce damper chatter when fans are not in use.

Construction Features

Panel Assembly

- Heavy-gauge galvanized steel panel.
- One piece spun venturi for maximum efficiency.
- All welded support structure of schedule 40 galvanized pipe.
- Motor/bearing plates minimum of 10 gauge galvanized steel.

Windband/Butterfly Dampers

- Heavy gauge galvanized steel windband.
- Steel dampers standard on sizes 24 - 42.
- Translucent fiberglass dampers standard on size 48.
- Galvanized rain channel drains water from damper area to roof.
- Galvanized damper shaft rotates in bronze bushing.

Propeller

- Three air-foil aluminum blades.
- Steel hub plate with steel taper lock bushing.
- Adjustable pitch for optimum efficiency.
- Die formed steel blades optional where required.

Drives

- Sized for minimum 150% of drive Hp.
- Single belt adjustment pitch sheaves through 3 Hp.
- Two belt fixed pitch sheaves through 10 Hp.
- Adjustable tension rods for belt adjustment.
- Non-static oil resistant V Belts.
- Keyed, turned, ground and polished shafts with an anti-rust coating.

Bearings

- Bearings designed for minimum 200,000 hour life.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, pre-lubricated with zirk fittings.

Motors

- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- High efficiency or totally enclosed fan cooled motors can be supplied where required.

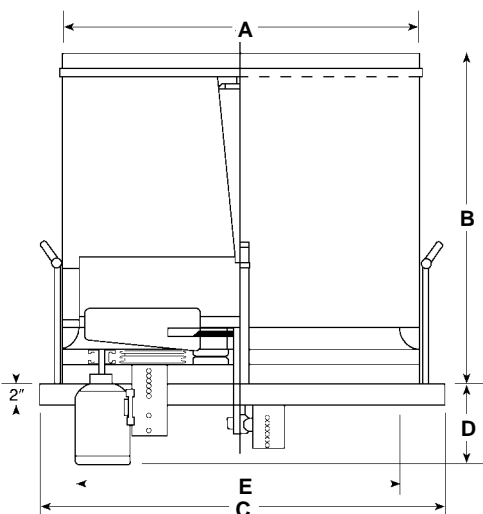
Certifications

- AMCA Air and Sound Licensed.
- UL705 Listed Power Roof Ventilator label assures electrical reliability.
- UL705 Canada assures electrical reliability for Canadian use.



Fantech certifies that the TBUA Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Fans are manufactured from UL Recognized Components.



Model	A	B	C	D	E	Curb OD	Roof Opening	Fan Weight	Shipping Weight
TBUA 24	30	33	32	16	24	30	27	310	350
TBUA 30	36	36	38	17	30	36	33	340	400
TBUA 36	42	37	44	17	36	42	39	430	490
TBUA 42	48	41	50	18	42	48	45	490	550
TBUA 48	54	44	56	22	48	54	51	640	700

Dimensional data given in inches.

Fans Less Motor and Drive			Recommended Mounting Curbs		
Model	Stock No	Weight	Model	Size	Stock No
TBUA 24	J2400	265	CID3008	30" x 30"	W3008
TBUA 30	J3000	285	CID3608	36" x 36"	W3608
TBUA 36	J3600	375	CID4208	42" x 42"	W4208
TBUA 42	J4200	405	CID4808	48" x 48"	W4808
TBUA 48	J4800	485	CID5408	54" x 54"	W5408

Note: Recommended curbs do not include damper tray.

TBUA Series Belt-Drive Upblast Ventilators

Ventilator with Open Dripproof Motor and Drive Assembly

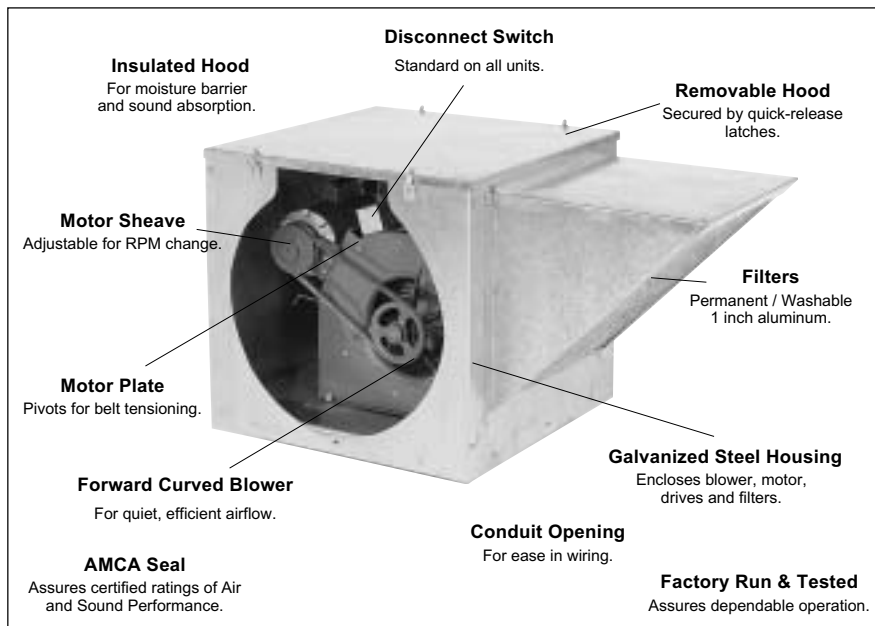
Model	Motor Hp	Max. BHP	RPM	Sones @ 5 Feet	No. of Blades	CFM at Static Pressure, in. WG					115-208-230/1	208-230-460/3
						0.0"	1/8"	1/4"	3/8"	1/2"	Stock No.	Stock No.
TBUA 24	3/4	0.82	1210	22	3	7180	6500	5720	4800	-	J24Q1	J24Q3
	1	1.11	1335	25	3	7920	7300	6610	5880	-	J24R1	J24R3
	1 1/2	1.65	1525	32	3	9080	8550	7960	7340	6600	J24S1	J24S3
	2	2.21	1680	37	3	10000	9500	9000	8450	7900	J24T1	J24T3
TBUA 30	1	1.15	960	25	3	11000	9800	8400	-	-	J30R1	J30R3
	1 1/2	1.69	1090	33	3	12500	11400	10300	9000	-	J30S1	J30S3
	2	2.25	1200	39	3	13700	12800	11700	10600	9400	J30T1	J30T3
	3	3.35	1370	46	3	15600	14800	13900	13000	12000		J30U3
TBUA 36	1	1.26	700	21	3	13279	11086	-	-	-	J36R1	J36R3
	1 1/2	1.85	795	27	3	15081	13170	11062	-	-	J36S1	J36S3
	2	2.64	895	32	3	16978	15289	13502	11351	-	J36T1	J36T3
	3	3.91	1020	37	3	19349	17872	16345	14714	12675		J36U3
TBUA 42	1 1/2	1.68	640	25	3	19800	16800	-	-	-	J42S1	J42S3
	2	2.30	710	30	3	22100	19300	16000	-	-	J42T1	J42T3
	3	3.35	805	37	3	25000	22600	19800	16800	-		J42U3
	5	5.51	950	45	3	29700	27600	25300	23000	20300		J42V3
TBUA 48	2	2.31	575	25	3	26300	22500	17600	-	-	J48T1	J48T3
	3	3.41	655	34	3	30200	26700	22700	17800	-		J48U3
	5	5.54	770	45	3	35500	32500	29400	25800	21500		J48V3
	7 1/2	8.27	880	54	3	40600	38000	35300	32600	29300		J48W3
	10	11.07	970	60	3	44800	42500	40100	37500	34800		J48X3

Power Ratings (BHP) does not include drive losses. Performance shown is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Sones are given at free air. Values shown are for Installation Type A - Free inlet fan sone levels. The AMCA ratings sound seal applies to sone ratings only.

Belt-Drive Centrifugal Supply Ventilators

MODEL TBS



Description

Model TBS fans are roof curb or curb cap mounted filtered supply fans rated from 1475 to over 7,000 CFM, with static pressure capabilities to 1 1/2 inches. The primary use of these fans is for filtered make-up air in kitchen hood applications but may also be specified for make-up air in commercial and industrial applications such as manufacturing and assembly areas. Filters are washable and are reusable to reduce maintenance costs. Quick release hood latches make routine cleaning and maintenance fast and easy.

Model TBS's rugged design with heavy-gauge galvanized construction provides maximum weather protection, long life and the utmost in performance efficiency. The forward curved centrifugal blower provides efficient air flow at low sound levels with static pressure capabilities to handle ducted air systems or hoods within a building.

Options/Accessories

Intake Extension: Extensions are available for all size TBS fans to provide NFPA required clearance from the exhaust fan on factory supplied curbs. Extensions are made from heavy-gauge galvanized steel.

Roof Curb: Prefabricated heavy-gauge galvanized steel, welded construction, 8" high with 1-1/2" wood nailer. Options include single and double pitch construction and additional curb heights.

Dampers: Motor operated for positive closure against backdraft or automatic (counter balanced).

Duct Adapter: For ease in connecting discharge duct to fan outlet.

Common Curb: Designed to allow both the supply fan and exhaust fan to be mounted on the same curb. This curb requires only one roof opening and speeds installation time.

Model	A	B	C	D	Curb OD	Damper OD	Roof Opening	Avg. Weight	Shipping Weight
TBS 9	17 1/2	23 1/4	24 1/2	18	22 1/2	16	19 1/2	215	265
TBS 10	21	27 1/4	28 1/4	21	26 1/2	20	23 1/2	245	300
TBS 12	26 3/8	32 1/2	32 1/2	26 3/8	31	24	28	255	310
TBS 15	31 1/2	37 1/4	32 1/2	31 1/2	31	24	28	310	375
TBS 18	35 1/2	41 1/4	36 1/2	35 1/2	35	27	32	350	400

Dimensional data given in inches.

Fans Less Motor and Drive			Recommended Mounting Curbs			Recommended Dampers		
Model	Stock No	Weight	Model	O.D. Size	Stock No	Model	Size	Stock No
TBS 9	H0900	185	CID22Q08	22 1/2" x 22 1/2"	W2208	GDS16	16" x 16"	84G16
TBS 10	H1000	210	CID26Q08	26 1/2" x 26 1/2"	W2608	GDS20	20" x 20"	84G20
TBS 12	H1200	225	CID3108	31" x 31"	W3108	GDS24	24" x 24"	84G24
TBS 15	H1500	270	CID3108	31" x 31"	W3108	GDS24	24" x 24"	84G24
TBS 18	H1800	295	CID3508	35" x 35"	W3508	GDS27	27" x 27"	84G27

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Construction Features

Hood

- Heavy-gauge galvanized steel hood.
- Quick-release latches for removal from housing.
- Insulated for sound absorption and moisture barrier.
- 1 inch washable aluminum mesh filters.

Blower

- Statically and dynamically balanced forward curved wheel.
- Close running tolerance between inlet cone and wheel inlet for maximum efficiency.
- 12-gauge galvanized steel blower plate/discharge opening.
- 18-gauge galvanized steel housing.
- Prepunched mounting holes.
- Conduit opening for wiring from below unit.
- Disconnect switch is standard equipment.

Drives

- Adjustable motor pulleys are standard.
- Sized for minimum 150% of drive horsepower.
- Machined cast iron adjustable motor pulleys standard through 5 horsepower.
- Pivoting motor plate for belt tensioning.
- Non-static oil resistant V-belts.

Motors

- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.

AMCA Seal

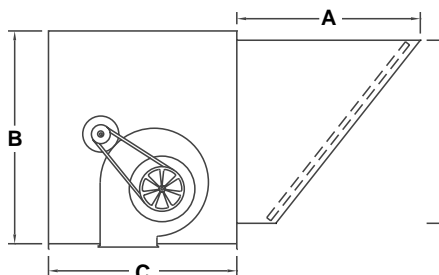
- AMCA Air and Sound Licensed.
- UL705 Listed Power Roof Ventilator label assures electrical reliability. - UL705 Canada assures electrical reliability for Canadian use.



Fantech certifies that the TBS Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model TBS is listed for electrical compliance - UL705 and c/UL705 Canada.



HOW TO USE THIS PERFORMANCE TABLE:

Step 1. Locate the required air flow.

Step 2. Locate the system Static Pressure requirements.

Step 3. Follow the shading to the appropriate blower model and required motor horsepower.

TBS Belt-Drive Centrifugal Supply Ventilators														Ventilator with Open Dripproof Motor and Drive Assembly	
Model	Motor Hp	Max. BHp	Single Phase 115/208/230	Three Phase 208/230/460	Air Flow CFM	Outlet Velocity FPM	Static Pressure, in. WG								HP
			Stock No.	Stock No.			1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1.0"	1 1/4"	
TBS 9	1/2	0.50	H09P1	H09P3	1075	1313				940	1016	1092			1/2
					1175	1435				973	1043	1113			
					1275	1558			862	939	1010	1075	1139	1267	
					1375	1680	839	906	979	1047	1110	1170	1289	1407	
					1475	1802	891	953	1020	1086	1147	1205	1316		
					1575	1924	943	1002	1062	1126	1185	1242			
					1675	2046	995	1051	1106	1166	1224				
					1775	2168	1048	1101	1152	1207					
	3/4	0.75	H09Q1	H09Q3	1875	2290	1100	1152							
TBS 10	1/2	0.50	H10P1	H10P3	1350	1300				832	897				1/2
					1450	1397				855	918	977			
					1550	1493			738	810	877	939	997		
					1650	1589	689	766	836	901	962	1019	1124		
					1750	1686	721	794	863	926	985	1041	1143		3/4
					1850	1782	753	824	891	954	1009	1063	1164	1257	
					1950	1878	786	854	918	978	1033	1087	1186		
					2050	1975	819	885	946	1005	1059	1111	1208		
	3/4	0.75	H10Q1	H10Q3	2150	2071	852	916	975	1032	1085	1135			
					2250	2167	886	948	1004	1060	1112				
					2350	2264	921	980	1034	1088					
	1	1.00	H10R1	H10R3	2450	2360	955	1012	1065						
					2550	2456	990								
TBS 12	1/2	0.50	H12P1	H12P3	1800	1262			625	688	748				1/2
					2000	1402			591	653	712	768	822		
					2200	1543	559	624	683	738	791	842			3/4
					2400	1683	598	658	715	767	817	866	957		
					2600	1823	637	693	749	798	845	892	979	1062	1.0
	3/4	0.76	H12Q1	H12Q3	2700	1893	657	712	765	814	860	905	991	1072	
					2800	1963	677	731	782	831	876	919	1003	1082	
					2900	2033	697	750	799	847	891	934	1016	1094	
					3000	2103	717	769	816	864	907	949	1029	1105	
					3100	2174	737	789	834	881	924	964	1043		
	1	1.03	H12R1	H12R3	3200	2244	758	808	852	897	940	980	1057		
					3400	2384	799	847	890	931	974	1013			
					3600	2524	840	886	928	967					
	1 1/2	1.52	H12S1	H12S3	3800	2664	882	926							
TBS15	1	1.03	H15R1	H15R3	3230	1618	557	607	652	695	737	777			1
					3640	1824	615	661	703	743	781	817	889	959	1 1/2
					3840	1924	644	688	728	767	803	839	907	974	
					4045	2026	673	716	755	792	827	862	928	992	
	1 1/2	1.60	H15S1	H15S3	4245	2127	702	743	781	817	851	885	948		
					4445	2227	731	771	808	842	876	908			
					4645	2327	760	799	834	868	901				
	2	2.09	H15T1	H15T3	4850	2430	790	828	862	895					
					5050	2530	820	856							
					5200	2605	842	877							
TBS 18	1 1/2	1.52	H18S1	H18S3	4600	1624			594	633	670				1 1/2
					4850	1713			574	613	651	687	722		2
					5110	1804	559	597	634	670	705	739	802		
					5360	1893	583	619	655	689	723	756	818		
					5625	1986	608	643	677	710	743	774	835	891	
	2	2.10	H18T1	H18T3	5875	2075	632	665	698	730	762	792	852	907	
					6130	2165	656	688	720	751	781	811	869		
					6380	2253	680	711	742	772	801	830			
	3	3.10		H18U3	6645	2646	706	736	765	794	822				
					7150	2525	755	783							

See price list for available motor options.

Power Ratings (BHP) does not include drive losses.

Performance shown is for installation type B - free inlet, ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.

TBS Sound Power Data

Model	RPM	SP	Sound Power re 10 ⁻¹² Watts Octave Bands, Hz								L _{wo} dB(A)	Sones*
			63	125	250	500	1000	2000	4000	8000		
TBS 9	800	0.125	80	85	77	69	66	63	62	56	75	14
	800	0.250	81	83	76	68	64	61	60	53	73	12.6
	900	0.125	82	87	81	73	69	67	66	61	78	16.8
	900	0.250	83	86	81	72	68	65	64	58	77	15.8
	1000	0.125	85	88	85	77	72	70	68	65	81	19.3
	1000	0.250	84	88	85	76	71	68	67	63	80	18.6
	1000	0.500	85	88	84	75	69	66	64	60	79	17.6
	1100	0.250	85	89	88	79	74	71	69	66	83	22
	1100	0.500	87	89	87	78	72	69	67	63	82	20
	1200	0.125	88	92	92	83	77	75	73	71	87	27
	1200	0.500	88	91	90	82	75	72	70	67	85	24
	1300	0.250	89	92	95	85	79	76	74	73	89	31
TBS 10	700	0.125	80	82	71	70	68	66	66	60	75	13.4
	700	0.250	79	81	69	68	66	64	64	57	73	12.1
	800	0.125	82	85	76	74	72	70	69	65	78	16.8
	800	0.250	82	84	75	72	70	68	68	63	77	15.5
	900	0.125	85	87	81	77	75	73	72	68	81	19.9
	900	0.250	84	87	80	76	74	72	71	68	81	19.5
	900	0.500	84	85	78	73	71	69	68	64	78	16.6
	1000	0.125	86	89	85	79	78	76	75	72	84	24
	1000	0.250	86	89	84	79	77	75	74	71	84	23
	1000	0.500	86	88	83	76	75	73	72	68	82	21
	1100	0.250	88	91	88	81	80	78	76	74	86	26
	1100	0.500	88	90	87	79	78	76	75	72	85	24
TBS 12	600	0.125	73	68	71	70	69	67	64	58	74	11.3
	600	0.250	72	67	68	68	66	65	61	55	71	9.9
	700	0.125	79	72	74	75	73	72	70	64	78	15.7
	700	0.250	79	70	73	73	71	70	68	62	77	14
	700	0.500	76	68	69	68	67	66	63	55	72	10.6
	800	0.125	84	74	77	79	76	75	74	68	82	19.5
	800	0.250	84	73	76	77	75	74	72	67	81	18
	800	0.500	83	71	74	74	72	72	69	62	78	15.1
	900	0.125	96	78	80	81	79	78	77	72	85	25
	900	0.250	86	78	79	80	78	77	76	71	84	22
	900	0.500	86	76	77	78	76	75	74	68	82	19.8
	1000	0.250	88	82	81	83	81	80	79	75	87	27
TBS 15	550	0.125	79	71	71	71	69	69	65	58	75	12.5
	550	0.250	78	70	69	69	67	66	62	55	73	10.8
	650	0.125	85	74	75	76	74	74	72	64	80	17.5
	750	0.125	88	80	78	79	78	77	76	70	84	22
	750	0.250	88	80	77	78	76	76	74	68	82	20
	750	0.500	87	79	75	76	74	74	71	64	80	17.7
	850	0.125	90	85	80	82	81	80	79	74	87	27
	850	0.250	90	84	80	81	80	79	78	73	86	26
	850	0.500	89	84	79	80	78	78	76	70	84	23
	950	0.125	92	89	83	84	84	83	82	78	90	32
	950	0.250	92	89	83	83	83	82	81	77	89	31
	950	0.500	92	88	82	82	82	81	79	75	86	28
TBS 18	500	0.125	77	72	73	73	72	70	65	60	77	13.5
	500	0.250	75	70	71	71	70	68	62	56	75	11.7
	600	0.125	84	77	77	78	77	76	71	66	82	18.9
	600	0.250	82	75	76	77	75	74	69	64	81	17
	700	0.125	89	80	80	82	81	81	76	71	86	25
	700	0.250	88	79	79	81	80	79	75	70	85	23
	700	0.500	86	77	78	80	77	77	72	66	83	20
	800	0.125	91	85	83	85	84	84	81	75	90	31
	800	0.250	91	84	82	84	83	83	79	74	89	29
	800	0.500	89	83	81	83	82	81	77	72	87	26
	900	0.125	94	90	86	87	87	87	84	79	93	37
	900	0.250	93	89	85	87	87	86	83	78	92	35
	900	0.500	92	88	84	86	85	84	82	76	91	33
TBS 18	900	1.000	89	85	82	84	83	82	78	73	88	28



Fantech certifies that the TBS Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

The sound power level ratings shown are in decibels, referred to 10⁻¹² Watts calculated per AMCA Standard 301. The values shown are for total outlet L_{wo}A sound power levels for installation type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

*The sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: Ducted outlet fan sone levels.

The AMCA Certified Ratings Seal applies to sound power data only.

NFPA96 INSTALLATION ACCESSORIES

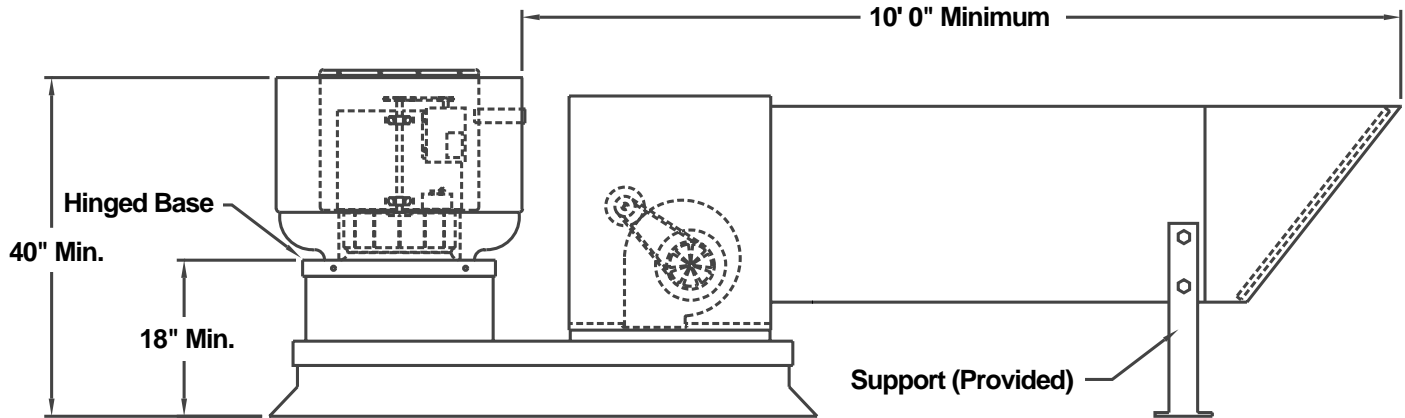
Typical Installation

NFPA96 requires a 10 foot minimum distance between the exhaust fan and supply fan intake. The intake extension (optional) provides this clearance. Also required are hinged curb caps on the exhaust fan and some areas require a vented curb extension.

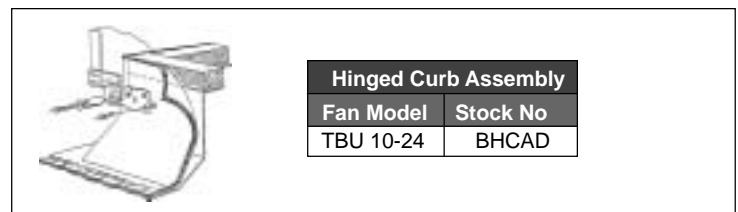
NFPA96 Alternate Installation

Where space limitations absolutely prevent a 10 foot separation from the air intake, a vertical separation may be permitted with the exhaust outlet being a minimum of 3 feet above any air intake located within 10 feet horizontally.

IMPORTANT: Always check with the authority having jurisdiction to verify local codes and requirements.

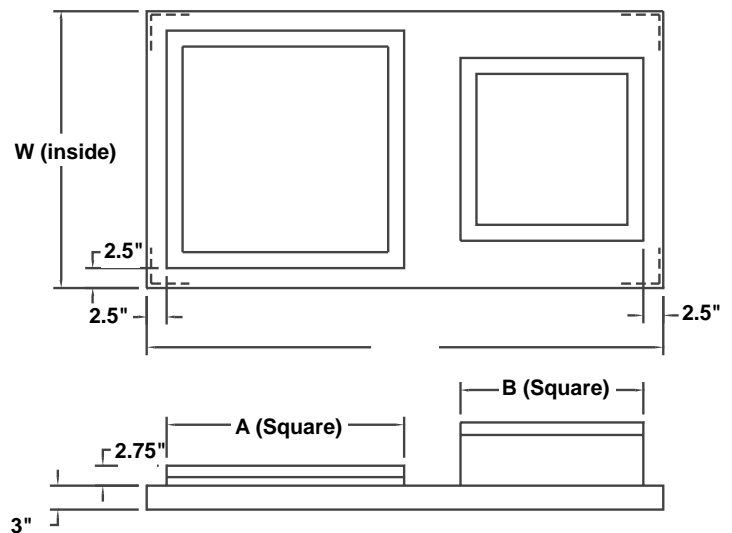


Supply Fan Extension		
Model	Fan Model	Stock No
IDE09	TBS 9	H0905
IDE10	TBS 10	H1005
IDE12	TBS 12	H1205
IDE15	TBS 15	H1505
IDE18	TBS 18	H1805



Common Curb and Curb Cap Adapter

The common curb and adapter, used in conjunction with the hinged exhaust fan adapter and the supply fan intake extension, allows for mounting both the exhaust fan and supply fans onto one roof opening. Follow the chart below for sizing and ordering common curbs and adapters.



Fan Series/ Model		Common Mounting Curb			Common Curb Cap Adapter			Curb Cap Opening	
								Supply Fan A (Square)	Exhaust Fan B (Square)
TBS	TBU	Model	Size (L x W)	Stock No	Model	Size (L x W)	Stock No		
9	10	C0910	55 3/4 x 27 1/2	X5527	A0910	56 3/4 x 29	Z5629	23 3/4	16
9	12	C0912	59 1/4 x 27 1/2	X5927	A0912	60 3/4 x 29	Z6029	23 3/4	23 1/2
10	15	C1015	65 x 31 1/4	X6531	A1015	66 1/2 x 32 3/4	Z6632	27 3/4	23 1/2
12/15	15	C1215	69 x 35 1/4	X6935	A1215	70 1/4 x 36 3/4	Z7036	31 3/4	23 1/2
12/15	18	C1218	74 1/2 x 35 1/4	X7435	A1218	76 x 36 3/4	Z7636	31 3/4	29
15	24	C1524	82 1/2 x 38 1/2	X8238	A1524	80 x 40	Z8040	31 3/4	35
18	24	C1824	86 1/2 x 39 1/4	X8639	A1824	88 x 40 3/4	Z8840	35 3/4	35
18	30	C1830	94 1/2 x 45 3/4	X9445	A1830	96 x 47 1/4	Z9647	35 3/4	42

Direct-Drive Sidewall Propeller Fans

MODEL FADE

Propeller

Formed steel blades on "S" design, die cast aluminum on "A" blade design. All integrally mounted to motor.

Bearings

Permanently sealed and self lubricating.

Motor

Direct drive totally enclosed fan cooled, external rotor type.

Terminal Box

Junction box mounted and prewired as standard.

Panel Assembly

Galvanized steel with baked powder coat finish.

Wire Guard

Standard on intake side of all models.



"S" Blade Design Shown

Construction Features

- 100% Speed Controllable
- Air Flows up to 8000 cfm
- Integral Blades and External Rotor allowing precision balancing
- Formed steel wall panel with Venturi
- Shallow profile with no protruding motor
- External rotor motor, class B insulation. Sufficient service factor provided to ensure long and maintenance free operation over maximum load conditions.
- Automatic Reset Thermal Overload Protection
- Electrostatically applied polyester/epoxy urethane powder coat finish
- Self lubricating/sealed for life precision ball bearings
- Terminal box with prewired electrical strip



Fantech certifies that the FADE Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Fans are manufactured from UL Recognized Components.

Description

A series of sidewall propeller fans designed for structural stability with a slim profile for conservation of space and safety. All FADE Series fans have aerodynamically designed propeller blades and motor rotor assembled as one integral unit. All fans are statically and dynamically balanced for vibration free operation. Fans arrive fully assembled and are ready for immediate installation. All FADE fans include motor-side guards as standard. FADE Series motors are a totally enclosed Class B, direct drive external rotor type with sealed self lubricating bearings and automatic reset thermal overload protection. Motors are capable of operating in ambient air or air stream temperatures of up to 100°F. FADE Series fans are 100% speed controllable through a decrease in voltage by using either a solid state or transformer type control.

Options/Accessories

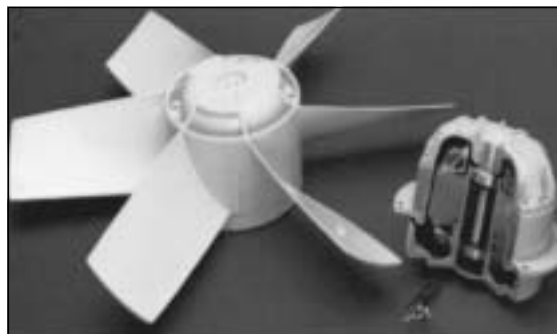
Solid State Speed Control: Available with direct drive models. Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments of airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Speed control options available for all models. Exhauster performance can be controlled from the ventilated area.

Gravity Shutter: Helps provide weather protection and helps prevent backdraft with wall mounted fans. Open in direction of air flow only, automatically closes by gravity when fan is not in operation.

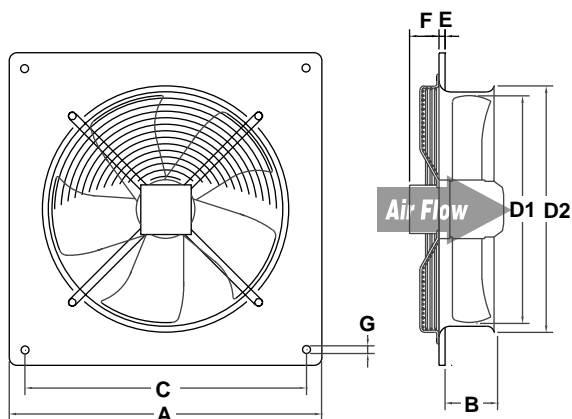
Motorized Shutter: Provides positive opening/closing action.

Disconnect Switch: Non-fused safety disconnects are available for all motor sizes in watertight or non-watertight enclosures.

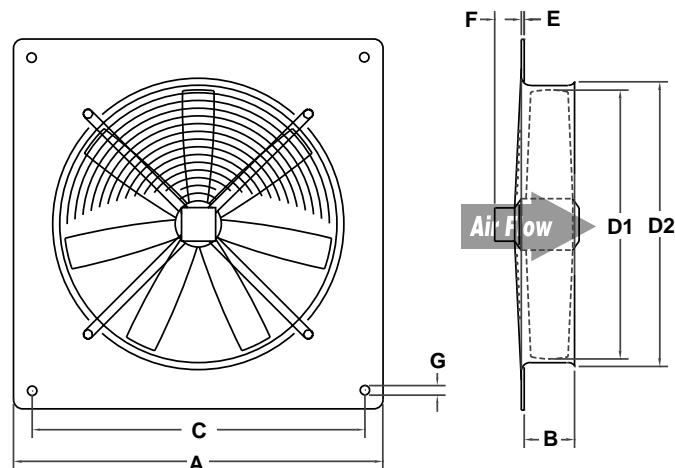
Wall housing: All galvanized steel housing provides a simple solution to installing a fan in a rough wall opening. Unit can be mounted flush or off-center in the wall opening. Wire guards or shutters may be attached to the pre-punched flange. Available for sizes 12 and larger. Shipped assembled or knocked down.



External Rotor Motor and Integral Propeller, "A" Blade Design shown



"S" (Sickle) Blade Design



"A" (Airfoil) Blade Design

Model	A	B	C	D1	D2	E	F	G	Blade Design	Shipping Weight
FADE 8	12 1/4	2	10 1/4	8	8 1/2	1/4	1 1/2	1/4	S	15
FADE 10	14 1/2	2	12 1/2	10	10 1/2	1/4	1 1/2	1/4	S	15
FADE 12	17	2 1/2	15	12	13	1/2	1 1/2	5/16	S	20
FADE 14	19	2 3/4	17	14	15 1/4	1/2	2	5/16	S	20
FADE 16	22 3/4	3 1/4	21	16 1/2	17 1/4	1/2	2	7/16	S	25
FADE 18	22 1/2	4 1/4	21	18	18 3/4	1/2	2	1/2	A	30
FADE 20	25 3/4	6	24	20	20 3/4	1/2	2	3/4	A	45
FADE 22	28 1/2	5 1/4	26 3/4	22	22 3/4	3/4	2	3/4	A	55
FADE 25	31 1/2	7 3/4	29 1/2	25	26	3/4	2	3/4	A	65

Dimensional data given in inches.

Model	Recommended Loose Gravity Dampers			115V Speed Controls		Assembled Wall Collar		
	Model	Size	Stock No.	SCR*	Stock No.	Model	Size (L x W x D)	Stock No.
FADE 8-4	GDV9	9" x 9"	83G09	WC 15	56005			
FADE 10-4	GDV12	12" x 12"	83G12	WC 15	56005			
FADE 12-4	GDV12	12" x 12"	83G12	WC 15	56005	AWC14	21" x 21" x 13"	N1412
FADE 14-4	GDV18	18" x 18"	83G18	WC 15	56005	AWC14	21" x 21" x 13"	N1412
FADE 16-4	GDV18	18" x 18"	83G18	WC 15	56005	AWC18	24" x 24" x 14"	N1816
FADE 18-4	GDV21	21" x 21"	83G21	RPE 10	56010	AWC18	24" x 24" x 14"	N1816
FADE 20-6	GDV21	21" x 21"	83G21	RPE 10	56010	AWC20	26" x 26" x 15"	N2000
FADE 20-4	GDV21	21" x 21"	83G21	RPE 10	56010	AWC20	26" x 26" x 15"	N2000
FADE 22-6	GDV26	26" x 26"	83G26	RPE 10	56010	AWC25	32" x 32" x 16"	N2522
FADE 25-6	GDV26	26" x 26"	83G26	RPE 15	56015	AWC25	32" x 32" x 16"	N2522

Damper used for assembled wall collar may not be the same as the recommended loose gravity damper. Refer to Accessories price list for correct damper selection for assembled wall collar.

FADE Series Direct-Drive Propeller Fans

Model	Motor Hp	RPM	Sones @ 1/10" SP	CFM at Static Pressure, in. WG						Ventilator with TEFC Motor and Integral Propeller	
										115/1/60	208-230-460/3/60
				0.0"	1/10"	1/8"	1/4"	3/8"	1/2"	Stock No.	Stock No.
FADE 8-4	1/25	1530	4.1	304	246	224	74	-	-	N08H1	
FADE 10-4	1/15	1500	7.9	624	558	533	377	132	-	N10K1	
FADE 12-4	1/8	1410	9.4	1208	1069	1030	797	-	-	N12I1	
FADE 14-4	1/4	1185	9.6	1839	1654	1599	1295	-	-	N14M1	
FADE 16-4	1/3	1410	12.0	3054	2882	2839	2570	2198	1699	N16N1	
FADE 18-4	3/4	1525	14.3	4115	3895	3840	3459	3239	2908	N18Q1	
FADE 20-6	1/2	1080	10.7	3693	3368	3279	2775	1429	-	N20P1	
FADE 20-4	1	1450	16.4	4949	4682	4615	4274	3917	3445	N20R1	N20R2
FADE 22-6	3/4	990	12.0	5629	5248	5153	4432	-	-	N22Q1	N22Q2
FADE 25-6	1 1/2	975	14.8	7858	7355	7230	6557	-	-	N25R1	N25R2

Single Phase models available as standard with 115 Volt motor only.

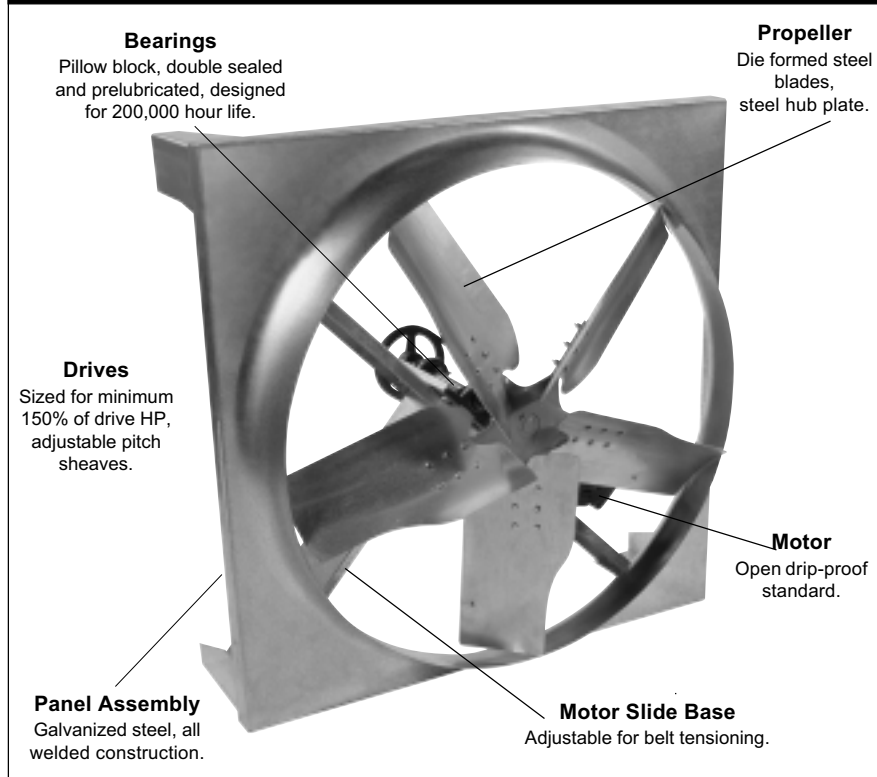
Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance shown is for installation type A-free inlet, free outlet. Performance ratings include the effects of intake guard in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A - Free inlet fan sone levels.

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Belt-Drive Sidewall Propeller Fans - Level 1 Construction

MODEL TABE



Description

Models TABE exhaust and supply fans are high capacity wall mounted belt driven propeller fans rated from 3800 to over 39,000 CFM and to 1/2 inch static pressure. Their primary application is the exhaust of large volumes of air at relatively low static pressure from commercial, industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, poultry and greenhouses. Wall mounting provides easy, economical installation. Belt driven fans provide large volumes of air at low fan speed and low noise levels and afford quick, easy performance adjustments.

Options/Accessories

Gravity Shutter: Helps provide weather protection and helps prevent backdraft with wall mounted fans. Open in direction of air flow only, automatically closes by gravity when fan is not in operation.

Motorized Shutter: Provides positive opening/closing action.

Disconnect Switch: Non-fused safety disconnects are available for all motor sizes in watertight or non-watertight enclosures.

Mounting Collar: Allows for fan to be mounted flush with the exterior wall with the housing extending into the interior of the building. Pre-punched collar provides front mounting flange for wire guards or shutters. Available for all sizes. Shipped assembled or knocked down.

Wall Housing: All galvanized steel housing provides a simple solution to installing a fan in a rough wall opening. Unit can be mounted flush or off-center in the wall opening. Wire guards or shutters may be attached to the pre-punched flange. Available for all sizes. Shipped assembled or knocked down.

Guards: OSHA approved guards are required when fan is within 7 feet of floor or work area. Guards are available for motor side (rear) or propeller side (front). Guard options are given below.

Flat Wire Guards: 1" x 1/2" 16 gauge galvanized welded wire guard. Guard attaches to the wall housing flanges on the motor side or propeller side when no shutter is used. Available for all sizes.

Sheet Metal Guards: Heavy duty galvanized steel housing available in front or rear configuration. Includes 1" x 1/2" 16 gauge galvanized welded wire screen. Guard attaches to the fan panel. Units are shipped knocked down only.

Supply Fan: This model can be delivered as a supply fan.

Construction Features

Panel Assembly

- One piece spun venturi 12 gauge min. G90 galvanized steel. 16 gauge on size 20.
- Motor/Bearing plate support structure of 12 gauge min. G90 galvanized steel. 16 gauge on size 20
- Complete panel assembly of all welded construction.
- Cold galvanized coating applied to all welds.
- Pre-punched mounting holes for easy installation.
- Adjustable slide base for 56, 182T motor frames.

Propeller

- 5 die formed min. 16 gauge galvanized blades.
- Blades bolted to steel hub plate.
- Propeller hub chemically cleaned and acrylic epoxy coated.
- Statically and dynamically tested for balance.

Drives

- Sized for minimum 150% of drive horsepower.
- Adjustable slide base for belt tensioning.
- Non-static oil resistant V-belts.
- Machined cast iron adjustable pitch sheaves.

Bearings

- Bearings designed for minimum L50, 200,000-hour life.
- Self-aligning pillow block ball bearings.
- Re-lube fittings of the air handlers type.

Motors

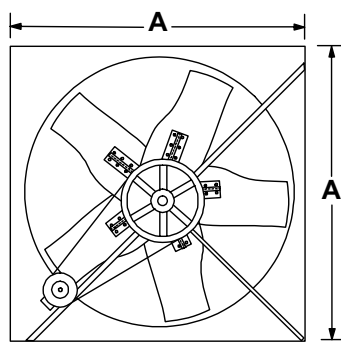
- Brands are nationally recognized and locally serviced.
- Permanently lubricated sealed ball bearing type.
- Open drip-proof construction is standard, frames 56, 145T and 182T.



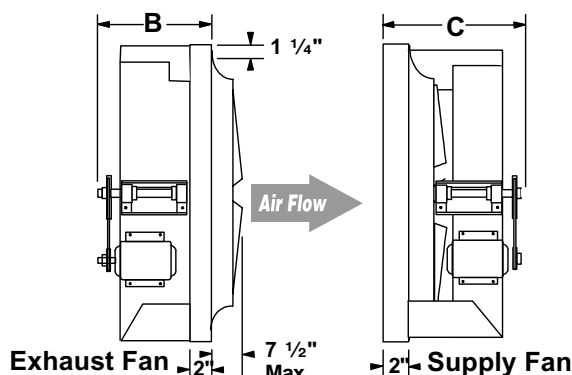
Fantech certifies that the TABE Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model TABE is listed for electrical compliance - UL705 and c/UL705 Canada.



Rear View



Exhaust Fan

Supply Fan

Model	A	B	C	D	E	Shipping Weight
TABE 20	25	15	2	1 1/4	7 1/2	85
TABE 24	30	15	2	1 1/4	7 1/2	90
TABE 30	36	15	2	1 1/4	7 1/2	100
TABE 36	42	15	2	1 1/4	7 1/2	105
TABE 42	48	16	2	1 1/4	7 1/2	140
TABE 48	54	16	2	1 1/4	7 1/2	165
TABE 54	60	20	2	1 1/4	7 1/2	280
TABE 60	66	20	2	1 1/4	7 1/2	365



Fantech certifies that the TABE Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Dimensional data given in inches.

Fans Less Motor and Drive			Recommended Gravity Shutters			Wall Housing			Motor Guard		
Model	Stock No	Weight	Model	Size	Stock No	Model	Size (L x W x D)	Stock No	Model	Size	Stock No
TABE 20	P2000	42	GDV20	20" x 20"	83G20	AWH20	25 x 25 x 32	P2005	SMG20	24 x 24	P2006
TABE 24	P2400	55	GDV26	26" x 26"	83G26	AWH24	31 x 31 x 32	P2405	SMG24	30 x 30	P2406
TABE 30	P3000	75	GDV32	32" x 32"	83G32	AWH30	37 x 37 x 32	P3005	SMG30	36 x 36	P3006
TABE 36	P3600	90	GDV38	38" x 38"	83G38	AWH36	43 x 43 x 32	P3605	SMG36	42 x 42	P3606
TABE 42	P4200	100	GDV44	44" x 44"	83G44	AWH42	49 x 49 x 32	P4205	SMG42	48 x 48	P4206
TABE 48	P4800	125	GDV50	50" x 50"	83G50	AWH48	55 x 55 x 32	P4805	SMG48	54 x 54	P4806
TABE 54	P5400	160	GDV56	56" x 56"	83G56	AWH54	61 x 61 x 44	P5405	SMG54	59 x 59	P5406
TABE 60	P6000	205	GDV62	62" x 62"	83G62	AWH54	67 x 67 x 44	P6005	SMG60	64 x 64	P6006

TABE Series Belt-Drive Propeller Fans

Ventilator with Open Drip-proof Motor and Drive Assembly

Model	Motor Hp	Max. BHp	RPM	Sones @	CFM at Static Pressure, in. WG						115/1/60*	208-230-460/3
					0.00"	1/10"	1/8"	1/4"	3/8"	1/2"	Stock No.	Stock No.
				0.00"								
TABE 20	1/4	0.28	930	11.0	3879	3482	3370	-	-	-	P20M1	P20M3
	1/3	0.36	1015	12.0	4233	3878	3776	-	-	-	P20N1	P20N3
	1/2	0.55	1145	15.5	4775	4468	4383	3890	-	-	P20P1	P20P3
	3/4	0.79	1320	19.7	5505	5245	5174	4788	4278	-	P20Q1	P20Q3
TABE 24	1/4	0.27	570	9.4	5065	4332	4085	-	-	-	P24M1	P24M3
	1/3	0.36	645	11.6	5731	5117	4926	-	-	-	P24N1	P24N3
	1/2	0.58	750	15.3	6664	6157	6012	5081	-	-	P24P1	P24P3
	3/4	0.85	855	19.1	7597	7163	7044	6340	5316	-	P24Q1	P24Q3
	1	1.1	935	22	8308	7916	7810	7211	6437	-	P24R1	P24R3
	1 1/2	1.65	1070	27	9507	9081	9081	8595	8019	7308	P24S1	P24S3
TABE 30	1/4	0.27	435	8.6	7119	5735	5212	-	-	-	P30M1	P30M3
	1/3	0.36	480	9.9	7856	6665	6270	-	-	-	P30N1	P30N3
	1/2	0.55	550	12.7	9001	7988	7709	5511	-	-	P30P1	P30P3
	3/4	0.82	630	16.2	10311	9487	9216	7728	-	-	P30Q1	P30Q3
	1	1.11	695	19.3	11375	10665	10434	9228	7501	-	P30R1	P30R3
	1 1/2	1.63	790	23	12929	12339	12156	11135	9899	8281	P30S1	P30S3
TABE 36	1/3	0.35	370	8.9	10203	7973	7153	-	-	-	P36N1	P36N3
	1/2	0.55	430	11.5	11858	10126	9550	-	-	-	P36P1	P36P3
	3/4	0.82	490	14.5	13512	12022	11620	8675	-	-	P36Q1	P36Q3
	1	1.09	540	17.3	14891	13562	13199	10809	-	-	P36R1	P36R3
	1 1/2	1.58	610	21	16821	15671	15353	13577	11076	-	P36S1	P36S3
	2	2.22	680	24	18751	17737	17461	16014	13996	11612	P36T1	P36T3
				0.10"								
TABE 42	1/3	0.37	295	8.3	12741	8967	7579	-	-	-	P42N1	P42N3
	1/2	0.54	335	9.3	14469	11549	10380	-	-	-	P42P1	P42P3
	3/4	0.83	385	12.0	16629	14218	13498	-	-	-	P42Q1	P42Q3
	1	1.11	425	14.3	18356	16214	15618	11433	-	-	P42R1	P42R3
	1 1/2	1.65	485	17.9	20948	19119	18609	15460	9198	-	P42S1	P42S3
	2	2.22	535	21	23107	21482	21029	18561	15068	-	P42T1	P42T3
TABE 48	1/2	0.56	280	9.7	17359	12936	11133	-	-	-	P48P1	P48P3
	3/4	0.83	320	11.6	19839	16210	15101	-	-	-	P48Q1	P48Q3
	1	1.09	350	13.4	21699	18411	17542	-	-	-	P48R1	P48R3
	1 1/2	1.63	400	16.7	24799	22004	21219	16187	-	-	P48S1	P48S3
	2	2.16	440	19.6	27279	24779	24091	20194	-	-	P48T1	P48T3
				0.15"								
TABE 54	3/4	0.82	260	10.4	22518	-	16507	-	-	-	P54Q1	P54Q3
	1	1.09	285	12.3	24683	-	19720	-	-	-	P54R1	P54R3
	1 1/2	1.61	325	15.5	28148	-	23950	15785	-	-	P54S1	P54S3
	2	2.19	360	18.5	31179	-	27408	22133	-	-	P54T1	P54T3
	3	3.35	415	23	35943	-	32648	29213	23274	-	-	P54U3
				0.00"								
TABE 60	1	1.08	255	10.7	27416	-	20835	-	-	-	P60R1	P60R3
	1 1/2	1.69	295	13.9	31717	-	26369	-	-	-	P60S1	P60S3
	2	2.23	325	16.3	34942	-	30222	23361	-	-	P60T1	P60T3
	3	3.29	370	20	39780	-	35672	30822	27531	-	-	P60U3

Performance shown is for installation type A: Free inlet, Free outlet.

Performance ratings do not include the effects of appurtenances in the airstream.

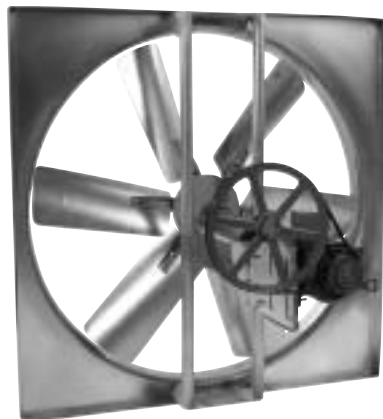
The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Power rating (BHP) does not include drive losses.

Belt Drive Sidewall Propeller Fans - Construction Level 2 & 3

MODEL THDAB



Construction Level 2

Description

THDAB Construction Level 2 & 3 are high capacity wall mounted belt driven propeller fans rated from 5000 to over 85,000 CFM and to 1 inch static pressure. Their primary application is the exhaust of large volumes of air at relatively low static pressure from commercial, industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, poultry and greenhouses. Wall mounting provides easy, economical installation. Belt drive fans provide large volumes of air at low fan speed and noise levels and afford quick easy performance adjustments.

THDAB – Construction Level 2 are rated from 5,000 to 47,000 cfm and to 1 inch static pressure.

THDAB – Construction Level 3 are rated from 35,000 to 85,000 cfm and to 1 inch static pressure.

Options/Accessories

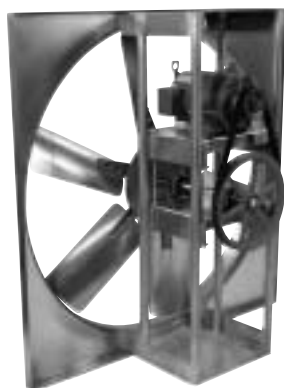
Gravity Shutter: Helps provide weather protection and helps prevent back draft with wall fans. Opens in direction of air flow only, automatically closes by gravity when fan is not in operation.

Motorized Shutter: Provides positive opening/closing action

Disconnect Switch: Non-fused safety disconnects are available for all motor sizes in watertight or non-watertight enclosures.

Wall Housing: Used to facilitate mounting fans with their accessories in a wall. Typically, the wall housing for exhaust applications incorporates a damper on the exterior of the building and a guard on the interior.

Guards: Standard is ½" x 1" galvanized wire. HD uses expanded aluminum metal. Both are O.S.H.A. approved.



Construction Level 3

Construction Features

Panel Assembly

- Construction Level 2.
- Minimum 10 gauge G90 galvanized steel panel, with spun one piece venturi.
- End support frame welded not bolted,
- Pre-punched mounting holes for ease of installation.
- Construction Level 3.
- Minimum 10 gauge G90 galvanized steel panel, with one piece spun venturi.
- End support frame welded not bolted.
- Motor/Bearing plate of minimum 10 gauge galvanized steel, secured to minimum 1.25" schedule 40 galvanized steel pipe by means of 12 gauge galvanized steel pipe brackets.

Propeller

- Construction Level 2.
- 6 die formed minimum 16 gauge galvanized blades, laminated for 3 Hp and above.
- Blades bolted to a welded steel hub plate and keyed to fan shaft.
- Statically and dynamically tested for balance.
- Construction Level 3.
- 6 die formed minimum 16 gauge galvanized double laminated blades.
- Blades bolted to a welded steel hub plate and keyed to fan shaft.
- Statically and dynamically tested for balance.

Drives

- Sized for minimum 150% of drive horsepower.
- Machined cast adjustable pitch sheaves through 3 HP.
- Non-static oil resistant V-belts.
- Keyed, turned, ground and polished shafts with an anti rust coating.
- Bearings self-aligning cast iron pillow block type with re-lube fitting of the air handling type, L-50 200,000 hour average life.

Motors

- Brands are nationally recognized and locally serviced.
- Permanently lubricated sealed ball bearing type.
- Open drip-proof construction high efficiency motors are standard.

Entire Fan Unit

- Completely assembled and factory tested prior to shipment.



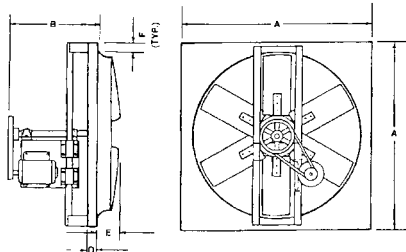
Fantech certifies that the THDAB Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model THDAB is listed for electrical compliance - UL705 and cUL705 Canada.



Fantech certifies that the THDAB Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model	A	B	D	E	F	Shipping Weight
THDAB 24	30	21	2	4 1/2	3/4	130
THDAB 30	36	21	2	4 3/4	1	185
THDAB 36	42	25	2	4 1/2	1	220
THDAB 42	48	25	2	4 3/4	1 1/4	325
THDAB 48	54	25	2	5 3/4	1 1/2	450
THDAB 54	60	25	2	6	1 1/4	490
THDAB 60	66	25	2	6 1/2	1	600
THDAB 72	80	25	2	7	1 1/4	800

Dimensional data given in inches.

THDAB Series Heavy Duty Wall Fan Performance Specifications Level 2 & 3

Model/Level	Motor Hp	Max. BHP	RPM	Sones @	CFM at Static Pressure, in. WG								115/1/60*	208-230-460/3
					0.0"	1⁄8"	1⁄4"	3⁄8"	1⁄2"	5⁄8"	3⁄4"	1.0"	Stock No.	Stock No.
				0.00"										
THDAB 24 L2	1⁄2	0.27	555	10.9	5464	3707							Q24M1	Q24M3
L2	1⁄3	0.36	605	14.3	5957	4574							Q24N1	Q24N3
L2	1⁄2	0.57	685	18.5	6744	5634	3364						Q24P1	Q24P3
L2	3⁄4	0.8	765	22	7532	6605	4786	3186					Q24Q1	Q24Q3
L2	1	1.05	870	27	8566	7779	6677	4551					Q24R1	Q24R3
L2	1 1⁄2	1.66	1015	35	9994	9308	8542	7416	5409				Q24S1	Q24S3
L2	2	2.2	1115	46	10978	10343	9724	8848	7521	5700			Q24T1	Q24T3
THDAB 30 L2	1⁄3	0.36	495	10.3	7915	6243							Q30N1	Q30N3
L2	1⁄2	0.56	570	13.6	9114	7809							Q30P1	Q30P3
L2	3⁄4	0.83	650	18.4	10393	9258	7609						Q30Q1	Q30Q3
L2	1	1.1	710	21	11352	10325	9068	6802					Q30R1	Q30R3
L2	1 1⁄2	1.65	820	26	13111	12433	11302	9908					Q30S1	Q30S3
L2	2	2.22	905	31	14470	13696	12840	11907	10399				Q30T1	Q30T3
L2	3	3.3	1040	41	16629	15967	15235	14495	13600					Q30U3
THDAB 36 L2	1⁄2	0.55	380	10.6	10689	8242							Q36P1	Q36P3
L2	3⁄4	0.83	435	13.5	12236	10462	7183						Q36Q1	Q36Q3
L2	1	1.1	480	16	13501	11992	9221						Q36R1	Q36R3
L2	1 1⁄2	1.62	545	19.8	15330	14030	11969	9345					Q36S1	Q36S3
L2	2	2.2	605	23	17017	15845	14427	12063	9600				Q36T1	Q36T3
L2	3	3.3	690	28	19408	18369	17323	15642	13547	11457				Q36U3
L2	5	5.56	825	38	23206	22320	21488	20562	19235	17413				Q36V3
				0.10"										
THDAB 42 L2	1⁄3	0.36	290	8	10694	6342							Q42N1	Q42N3
L2	1⁄2	0.55	335	9.4	12353	9347							Q42P1	Q42P3
L2	3⁄4	0.84	385	12.4	14197	11841	6112						Q42Q1	Q42Q3
L2	1	1.1	420	14.6	15487	13516	9898						Q42R1	Q42R3
L2	1 1⁄2	1.66	485	19	17884	16339	13846	8858					Q42S1	Q42S3
L2	2	2.24	535	22	19728	18369	16299	13458					Q42T1	Q42T3
L2	3	3.33	610	27	22494	21333	19855	17781	15060	9786	6188			Q42U3
L2	5	5.52	720	36	26550	25586	24503	23060	21299	19163	16540			Q42V3
L3	7 1⁄2	8.17	825	46	30422	29589	28692	27676	26325	24788	23147			Q42W3
THDAB 48 L2	1⁄2	0.55	270	9.1	15178	10050							Q48P1	Q48P3
L2	3⁄4	0.82	310	11.2	17427	13485							Q48Q1	Q48Q3
L2	1	1.13	345	13.8	19394	16183	9825						Q48R1	Q49R3
L2	1 1⁄2	1.68	395	17.5	22205	19664	15342						Q48S1	Q48S3
L2	2	2.2	430	20	24173	21926	18365	13276					Q48T1	Q48T3
L2	3	3.36	495	25	27827	25932	23402	19734	15092					Q48U3
L2	5	5.44	585	33	32886	31311	29535	27105	23969	20741				Q48V3
L3	7 1⁄2	8.11	670	42	37664	36300	34844	33113	30886	28190	25367			Q48W3
L3	10	10.88	740	50	41600	40369	39083	37674	35937	33846	31401			Q48X3
				0.15"										
THDAB 54 L2	1	1.08	290	12.8	23490	18298							Q54R1	Q54R3
L2	1 1⁄2	1.66	335	15.3	27135	23051	16645						Q54S1	Q54S3
L2	2	2.14	370	17.4	29970	26337	20904						Q54T1	Q54T3
L2	3	3.26	420	21	34020	30816	27006	21705						Q54U3
L2	5	5.35	495	28	40095	37284	34624	30803	26276	19008				Q54V3
L3	7 1⁄2	7.5	555	33	44955	42378	40126	37436	33508	29564	24604			Q54W3
L3	10	11.06	630	40	51030	48690	46713	44619	42105	38653	34954			Q54X3
L3	15	16.45	720	51	58320	56207	54430	52721	50830	48684	45923			Q54Y3
				0.00"										
THDAB 60 L2	1	1.08	260	10.6	26656	19351							Q60R1	Q60R3
L2	1 1⁄2	1.67	300	13.4	30757	25033	16501						Q60S1	Q60S3
L2	2	2.11	325	15.4	33320	28131	20803						Q60T1	Q60T3
L2	3	3.38	380	20	38959	34674	29390	22561						Q60U3
L2	5	5.6	450	26	46136	42519	38594	33461	27901					Q60V3
L3	7 1⁄2	7.91	505	31	51774	48527	45252	41497	36241	31497				Q60W3
L3	10	10.78	560	37	57413	54459	51617	48365	44872	39824	35577			Q60X3
L3	15	16.48	645	47	66128	63532	61078	58529	55646	52673	48763	40825		Q60Y3
THDAB 72 L3	1 1⁄2	1.5	235	23	36690	23490							Q72S1	Q72S3
L3	2	2.23	270	28	42154	33105	15591						Q72T1	Q72T3
L3	3	3.22	305	36	47619	40624	26224							Q72U3
L3	5	5	350	48	54645	48505	39490	25385						Q72V3
L3	7 1⁄2	7.5	405	64	63232	57793	52395	39949	29577	17215				Q72W3
L3	10	11.04	460	71	71819	66908	62555	55471	44092	35242	24397			Q72X3
L3	15	16.41	525	81	81967	77547	73700	69767	62695	52353	44585	26079		Q72Y3

Performance shown is for installation type A: Free inlet, Free outlet.

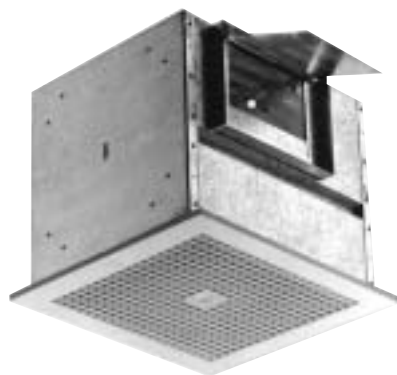
Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

Power rating (BHP) does not include drive losses.

Ceiling Mounted Centrifugal Exhaust Fans

MODEL TCF



Economical • Excellent Value

Adjustable Air Flow

Low Sound Level

Easy to Install and Maintain



Decorator Deluxe Grill is Standard

Description

Model TCF direct drive units are ceiling mounted centrifugal exhausters rated to over 1,000 CFM, with static pressure capabilities to 3/4". While suitable for general exhaust ventilation, these fans are especially well suited to commercial or institutional bathroom exhaust applications.



Fantech certifies that the TCF Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Construction Features

Motors

- All units have permanently lubricated motors manufactured to Fantech's exacting specifications.

Grilles

- Constructed of attractive molded white plastic, aerodynamically designed grilles feature an 85% free area. To make for easy removal and cleaning, the grilles are held in place with quick attach springs. An optional metal face grille with a white finish is available.

Centrifugal Wheels

- Wheels are dynamically balanced and performance matched with the motor. On models TCF5H and larger, dual inlet blowers are employed to minimize sound levels.

Housings

- Housings are fabricated of galvanized steel. Acoustical insulation is used to minimize sound.

AMCA Seal

- Assures accuracy of Air and Sound Performance.

UL & CSA Labels

- UL and CSA labels ensure electrical reliability

Performance Data²

Model No.	Max. Watt	Amps	RPM ¹	Fan Capacity - Cubic Feet per Minute								Stock No.	Wt. Lbs
				SP	0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"		
TCF5H	79	1.0	1550	CFM	192	163	128	93				TC005	13
				SONES ³	2.5	2.7	2.8	2.8					
TCF6S*4	47	0.6	1050	CFM	123	101	82					TC006	14
				SONES ³	0.9	1.4	1.8						
TCF6H ⁴	108	1.4	1550	CFM	230	196	166	122				TC008	20
				SONES ³	3.3	3.0	3.0	3.1					
TCF8S ⁴	77	1.0	1050	CFM	272	247	231	217	199			TC010	29
				SONES ³	2.1	2.4	2.9	3.3	3.6				
TCF8H ⁴	130	1.6	1550	CFM	426	401	377	357	341	328	304	TC011	45
				SONES ³	4.5	4.7	4.7	5.1	5.6	5.8	5.8		
TCF10S ⁴	243	2.5	1050	CFM	469	441	423	403	387	367	347	TC012	51
				SONES ³	4.5	4.8	5.1	5.4	5.6	5.8	6.0		
TCF10H ⁴	390	3.6	1550	CFM	727	694	664	638	613	591	565	TC013	52
				SONES ³	8.6	8.6	8.6	8.7	8.6	8.8	8.8		
TCF101S	153	1.6	1050	CFM	612	537	467	405	222	116		TC014	45
				SONES ³	3.9	3.6	3.9	4.6	5.5	6.0			
TCF12S	260	2.9	1050	CFM	901	855	812	755	683	552		TC015	51
				SONES ³	5.8	5.9	6.3	6.5	6.5	6.0			
TCF121S	370	3.6	1050	CFM	1083	1062	1024	949	838	686	270	TC016	52
				SONES ³	7.0	6.9	6.6	6.1	5.7	5.3	4.6		

*TCF6S is not speed controllable.

1. Speed (RPM) shown is nominal. Performance is based on actual speed of test.
2. Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper in the air stream.
3. The sound rating shown are loudness values in fan sones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type B: free inlet fan sone levels.
4. Models TCF6, 8 & 10 are shipped with EASYTAP dual speed motors. These units can be field wired to either low speed (S) or high speed (H).

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

Ceiling Mounted Centrifugal Exhaust Fans

MODELS TCFT and TCFJR



Economical • Excellent Value

Adjustable Air Flow

Low Sound Level

Easy to Install and Maintain



Decorator Deluxe Grill is Standard

Construction Features

Motors

- All units have permanently lubricated, speed controllable motors manufactured to Fantech's specifications.

Grilles

- Constructed of attractive molded white plastic, aerodynamically designed grilles feature an 85% free area. To make for easy removal and cleaning, the grilles are held in place with quick attach springs. Grilles are compliant with OSHA regulations.

Centrifugal Wheels

- Wheels are dynamically balanced and performance matched with the motor.

Housings

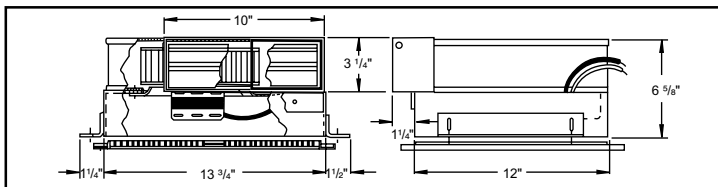
- Housings are fabricated of galvanized steel. Motor and wheel assembly shall be removeable without disturbing housing.

AMCA Seal

- Assures accuracy of Air Performance.

UL & CSA Labels

- UL and CSA label ensure electrical reliability



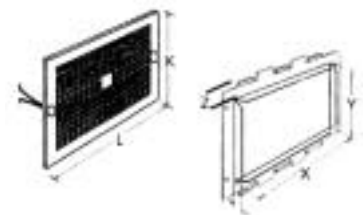
Fantech certifies that the TCFT and TCFJR Models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Model No.	Max Watts	Motor Data	Motor RPM	Fan Capacity -- Cubic Feet Per Minute									Stock No.	Wt Lbs
				SP	0.0"	0.10"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"		
TCFT	48	115/1/60	1200	CFM	91	88	88	85	75	49			TC000	13
				Sones	1.8	2.2	2.3	2.8	3.0	3.2				
				RPM	840	930	970	1110	1280	1460				
TCFJR	125	115/1/60	1200	CFM	149	156	157	158	160	153	138	117	TC001	14
				Sones	2.0	2.3	2.4	3.0	3.4	3.4	3.6	3.5		
				RPM	760	1000	1020	1150	1240	1360	1450	1520		

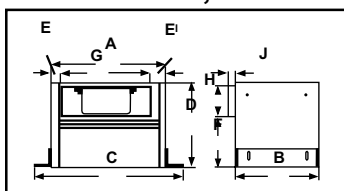
Performance shown is for installation type A - Free inlet, Free outlet. Performance ratings include the effects of inlet grill and backdraft damper in the air stream. Speed (RPM) shown is nominal. Performance is based on the actual speed of test. The sound ratings shown are the loudness values in fan sones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation type A: free inlet fan sone levels. The AMCA certified Ratings Seal applies to air performance ratings only.

TCF Series Dimensions

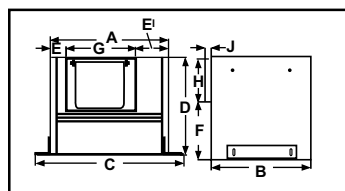
Model	Housing								Outlet Duct			Grill		Adapter Panel			
	A	B	C	D	E	E'	F	G	H	J	K	L	X	Y	Z		
TCF 5,6	12 1/2	9 1/8	16	9 1/8	1 1/4	1 1/4	5 3/8	10	3 1/4	3/4	11	13 3/4	10	6	1 5/8		
TCF 8	13 7/8	11 3/8	17 3/8	11 3/8	1 7/8	4	5 1/4	8	6	3/4	13 1/4	14 7/8	10	8	1 9/16		
TCF 10	18	14 1/8	21 1/2	14 1/8	3 5/8	6 3/8	8	8	6	3/4	15 1/2	19 3/8	14	10	2		
TCF 12,101,121	24	14 1/8	27 1/2	14 1/8	1	1	8	22	6	3/4	15 1/2	25	20	10	2		



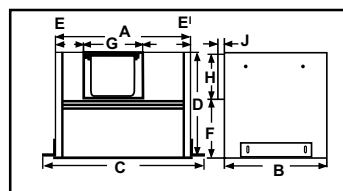
TCF 5, 6



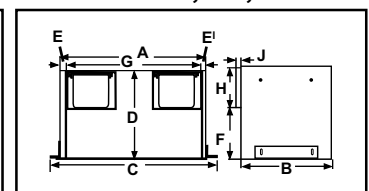
TCF 8



TCF 10



TCF 101, 12, 121



Round Gravity Ventilator

MODEL TRGV

Low Contour Design

Birdscreen Standard



Heavy Gauge Aluminum
Construction

Five Year Warranty

Construction Features

- Five-year warranty.
- Low contour spun aluminum hood for attractive appearance.
- All heavy gauge aluminum construction.
- Weather resistant design for long life and maintenance free operation.
- Galvanized bird screen is standard.
- Available in 11 sizes for a wide range of performance capabilities.
- One-piece curb with spun inlet for maximum efficiency.
- Shipped completely assembled for ease of installation.

Description

Model TRGV are used to exhaust (relief) or supply (intake) air to an enclosed area without the need for a powered fan. They rely on the difference in static pressure between inside and outside the area to create an air flow through the ventilator from the area of high pressure to the area of lower pressure.

These units can also operate as gravity ventilators, allowing air to flow from an enclosed area using the "Stack Effect". The amount of air flow will depend upon the temperature difference inside and outside the area and the height difference between the ventilator and the outside air intake to the area.

Options/Accessories

Roof Curb: Prefabricated heavy-gauge galvanized steel, welded construction, 8" standard height with 1-1/2" wood nailer. Options include burglar bars, single and double pitch construction and additional curb heights.

Automatic Damper: Automatic aluminum damper for ease in installation and effective back draft protection.

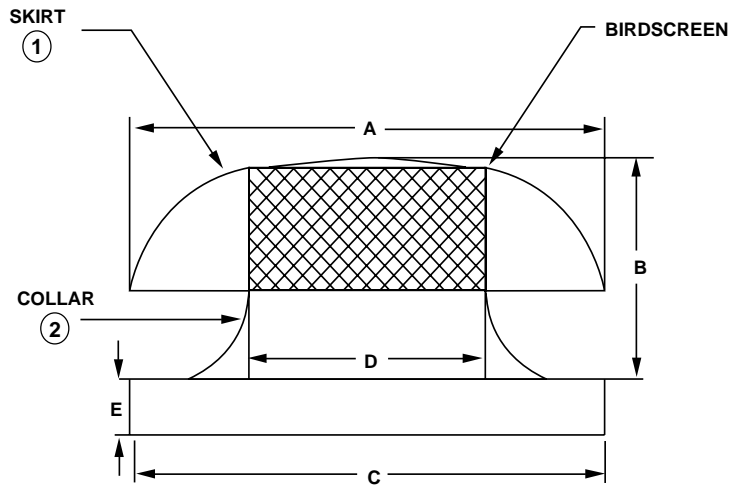
Motor Operated Damper: Motor operated aluminum damper for positive closure against back draft.

Insect/Weather screen: Helps prevent insects, snow, airborne mist or water droplets from entering on supply applications exceeding 650 FPM velocity.

Epoxy: For use in alkaline type atmosphere, (not for use in acetic and nitric acids). Epoxy forms an excellent hard, heavy film barrier against chemical attack as well as physical damage from direct impact and abrasion. Heat up to 250°F. Includes inside and outside coverage.

Heresite: Protection against salt atmosphere, humidity and mildly corrosive conditions up to 150°F.

Eisenheiss: A two-coat air dry finish, effective preventing corrosion by acids, alkalis, fumes, steam and condensation. Eisenheiss is a synthetic resin.



Size	Net Area Sq Ft	A	B	C	D	E	Metal Gauge	
							1	2
8	0.39	22	8	16.5	8.5	2	0.063	0.05
10	0.59	22	8	16.5	10.5	2	0.063	0.05
12	0.85	22	8 3/8	24	12.5	2	0.063	0.05
15	1.23	22	8 3/8	24	15	2	0.063	0.05
18	1.89	32 3/4	12 1/2	29 1/2	18.75	2	0.063	0.063
20	2.18	32 3/4	12 1/2	29 1/2	20.25	2	0.063	0.063
24	3.3	43 3/4	12 1/2	35 1/2	24.625	2	0.063	0.063
26	3.69	43 3/4	17 3/8	35 1/2	26	2	0.063	0.063
30	5.16	43 3/4	17 3/8	42 1/2	30.75	2	0.063	0.063
33	5.94	54 3/4	17 3/8	42 1/2	33	2	0.1	0.08
36	7.06	54 3/4	17 3/8	42 1/2	36	2	0.1	0.08

Dimensional data given in inches.

		Recommended Mounting Curbs			Recommended Dampers		
Model	Stock No	Model	Size	Stock No	Model	Size	Stock No
TRGV 8	97R08	CID1508	15 x 15	W1508	GDS 8	8 x 8	84G08
TRGV 10	97R10	CID1508	15 x 15	W1508	GDS 8	8 x 8	84G08
TRGV 12	97R12	CID22Q08	22 1/2 x 22 1/2	W2208	GDS 16	16 x 16	84G16
TRGV 15	97R15	CID22Q08	22 1/2 x 22 1/2	W2208	GDS 16	16 x 16	84G16
TRGV 18	97R18	CID27O08	27 3/4 x 27 3/4	W2708	GDS 21	21 x 21	84G21
TRGV 20	97R20	CID27O08	27 3/4 x 27 3/4	W2708	GDS 21	21 x 21	84G21
TRGV 24	97R24	CID33O08	33 3/4 x 33 3/4	W3308	GDS 27	27 x 27	84G27
TRGV 26	97R26	CID33O08	33 3/4 x 33 3/4	W3308	GDS 27	27 x 27	84G27
TRGV 30	97R30	CID40O08	40 3/4 x 40 3/4	W4008	GDS 34	34 x 34	84G34
TRGV 33	97R33	CID40O08	40 3/4 x 40 3/4	W4008	GDS 34	34 x 34	84G34
TRGV 36	97R36	CID40O08	40 3/4 x 40 3/4	W4008	GDS 34	34 x 34	84G34

TRGV Series Gravity Ventilator Intake

TRGV INTAKE	Throat Area Sq Ft	CFM at Static Pressure, in. WG							
		0.03	0.06	0.09	0.125	0.15	0.2	0.25	0.3
8	0.39	163	229	282	332	364	420	469	514
10	0.59	246	347	426	502	549	634	710	777
12	0.85	354	501	614	723	792	915	1023	1119
15	1.23	513	724	888	1047	1146	1323	1479	1620
18	1.89	788	1113	1365	1608	1761	2033	2274	2489
20	2.18	909	1284	1574	1855	2032	2346	2623	2871
24	3.3	1376	1994	2383	2808	3076	3551	3969	4346
26	3.69	1539	2173	2664	3140	3439	3970	4439	4860
30	5.16	2152	3039	3726	4391	4809	5552	6207	6796
33	5.94	2476	3499	4289	5055	5536	6391	7146	7823
36	7.06	2944	4158	5097	6008	6580	7597	8493	9298

TRGV Series Gravity Ventilator Relief

TRGV RELIEF	Throat Area Sq Ft	CFM at Static Pressure, in. WG							
		0.03	0.06	0.09	0.125	0.15	0.2	0.25	0.3
8	0.39	163	229	282	332	364	420	469	514
10	0.59	246	347	426	502	549	634	710	777
12	0.85	354	501	614	723	792	915	1023	1119
15	1.23	513	724	888	1047	1146	1323	1479	1620
18	1.89	788	1113	1365	1608	1761	2033	2274	2489
20	2.18	909	1284	1574	1855	2032	2346	2623	2871
24	3.3	1376	1994	2383	2808	3076	3551	3969	4346
26	3.69	1539	2173	2664	3140	3439	3970	4439	4860
30	5.16	2152	3039	3726	4391	4809	5552	6207	6796
33	5.94	2476	3499	4289	5055	5536	6391	7146	7823
36	7.06	2944	4158	5097	6008	6580	7597	8493	9298

Gravity-Relief/Intake Ventilators

MODEL TGV

Low Silhouette Design

Birdscreen Standard



Fully Welded Curb Cap
For Weather Protection

Deflector Flange On
Hood For Added
Weather Protection

Construction Features

- **Base:** Constructed of .080" Aluminum.
- **Hood:** Constructed of .050" Aluminum. Reinforced and braced for extra rigidity and resistance to wind damage. Hoods have a special deflector flange on the edge of the perimeter for added protection against rain and snow.
- **Bird Screen:** 1/2" x 1/2" galvanized wire mesh, (omitted when filters fitted). Screens are attached to full perimeter opening with stainless or zinc plated fasteners.
- **Curb Base:** Constructed of .050" Aluminum. All corners miter cut. All seams are continuously welded for strength and water tightness.
- **Perimeter:** Hood opening full 360 degrees for more reliable air flow.

Description

Model TGV hooded Gravity Intake & Relief ventilator offers a low silhouette that blends with modern roof lines and other equipment. With a full 360 degree perimeter hood opening for a more reliable air flow. Exhaust models have a 1:1 ratio of hood perimeter to throat area and Intake models have a 2:1 ratio for low resistance and more efficient air flow.

Options/Accessories

Hinged Hood: Offers easy access to back draft dampers, and for servicing filters and screens.

Aluminum Bird Screen: .050" thick x .5" x 1" diamond shaped expanded aluminum attached to the full perimeter of hood opening by spot welds or stainless steel fasteners.

Insect Screen: 18 mesh aluminum screen attached to full perimeter of hood opening. Add .10" to static pressure for TGVR and .05" to static pressure for TGV.

Insulated Hood: Reduces condensate drip. Rubberized anti-condensate, or 1" fiberglass insulation.

Filters: 1" or 2" thick permanent aluminum mesh mounted for easy cleaning. Add .13" to static pressure in the listed tables when using filters with TGV.

Protective Coatings:

- **Epoxy:** A tough gray coating that is one of the best heavy-duty multi purpose finishes, resistant to most chemicals and corrosives.
- **Eisenheiss:** A synthetic resin that forms a tough coating offering better protection against most acids and corrosive agents.
- **Heresite:** A black phenolic coating that has good resistance to heat, solvents and concentrates of most acids except strong oxidizing agents. Resistant to weak alkalis but not recommended for hydrofluoric acid or hypochlorite salts.

Decorative Coatings: A variety of industrial grade enamels. (Paint chip required).

Galvanized Steel Construction:

100 MPH Construction: Extra heavy internal reinforcement and bracing.

Special Sizes & Options: Consult the factory for sizes and options not listed

Optional Features

	Adder
Hood only of 080 Aluminum (Add 20% for weight)	17%
Hood only of 063 Aluminum (Add 10% for weight)	15%
Galvanized Steel - hoods equal to or smaller than 36x36 throat	No Charge
Galvanized Steel - hoods larger than 36x36 throat	15%
Hinged Hood	10%
Additional Throat Height* - each additional 1" (Add 5% for weight)	3%
100 MPH rating	25%
Change Base Dimensions	15%
Splitters for individual ducts	15%
Damper shelf in throat (requires hinged hood also)	15%
1 1/2" Foam Rubber Gasket on underside of base	8%
Aluminum Insect Screen	15%
Aluminum Bird Screen	15%

*Standard Throat Height is 5 1/4". Maximum Throat Height is 36"

Optional Features

	Adder
Snow Screen (Bird Screen over Insect Screen)	20%
1" Aluminum Filters (Add 5% for weight)	60%
2" Aluminum Filters (Add 10% for weight)	70%
Filter Rack only 1" Filters	20%
Filter Rack only 2" Filters	30%
Mastic Anticondensate - Top of hood only	8%
1" Fiberglass insulation (Top of hood only-add 10% for weight)	15%
Paint setup charge per order, per color	\$138.00
Decorative Enamel on exterior only	15%
Primer coating on exterior only	15%
Epoxy coating (Gray) inside & Outside	20%
Eisenheiss or Heresite Finish	35%
Epoxy Coating on Bird Screen Only	10%

TGV Relief Vent with Birdscreen - 1:1 Ratio - List Prices

THROAT WIDTH (A)

	12		14		16		18		20		22		24		30		36		42		48		54		60	
	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT
	12	201	23																							
14	218	25	241	26																						
16	221	28	244	30	250	32																				
18	327	31	254	32	157	36	283	38																		
20	241	33	243	35	160	39	289	43	291	46																
22	254	36	283	38	186	42	307	45	312	48	343	51														
24	276	39	286	43	291	46	312	49	317	53	351	56	357	61												
30	296	43	315	47	337	51	354	55	364	62	377	70	387	77	433	94										
36	343	48	361	52	380	57	398	61	408	67	419	74	430	80	475	104	663	114								
40	364	51	382	57	400	62	419	67	429	78	439	88	451	99	497	118	692	135								
42	387	53	406	59	424	64	439	70	450	83	460	95	473	108	520	125	720	146	744	179						
48	433	59	448	67	464	74	482	82	494	97	504	113	517	128	563	150	775	176	793	203	915	228				
54	494	67	506	79	523	90	530	98	543	116	550	135	558	153	604	177	831	203	848	231	975	258	1033	289		
60	533	77	560	87	563	100	567	116	581	137	595	158	611	179	658	204	893	231	910	259	1040	286	1095	315	1594	340
66	575	85	617	96	624	110	640	130	643	146	655	171	668	197	715	223	966	246	978	278	1115	305	1170	334	1703	363
72	603	89	674	105	628	120	679	137	662	160	689	187	536	206	744	232	1005	253	1014	287	1153	315	1209	344	1353	374
76	637	95	686	111	692	127	702	145	712	169	552	197	725	215	772	241	1037	264	1098	296	1191	326	1248	353	1812	384
84	702	105	728	123	744	140	754	160	764	180	767	218	783	233	829	260	1105	287	1166	315	1266	349	1326	371	1919	405
96	754	120	780	140	816	160	840	184	845	213	864	249	871	262	926	290	1235	287	1313	351	1388	386	1448	428	2085	485
108	845	135	890	158	910	180	931	211	936	240	946	281	959	292	1183	323	1344	356	1423	392	1505	432	1560	478	2244	527
120	910	150	957	175	972	199	994	225	1014	276	1040	311	1066	326	1313	360	1495	397	1527	438	1672	484	1735	535	2493	691

TGV Intake Vent with Birdscreen - 2:1 Ratio - List Prices

THROAT WIDTH (A)

	12		14		16		18		20		22		24		30		36		42		48		54		60	
	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT	LIST	WT
	12	213	27																							
14	238	29	266	31																						
16	242	33	270	35	294	38																				
18	266	36	294	38	296	42	325	45																		
20	270	39	299	41	302	46	328	50	330	54																
22	294	38	322	45	325	49	355	53	749	57	382	60														
24	299	46	325	50	330	54	364	58	367	62	349	66	390	72												
30	338	51	359	55	380	60	403	65	412	74	421	83	429	91	507	110										
36	382	55	406	60	429	66	452	72	460	83	469	94	478	106	556	122	747	134								
40	412	58	432	65	452	72	472	79	481	92	491	106	500	120	588	139	780	159								
42	443	62	461	68	481	75	502	82	510	97	520	112	525	127	617	147	809	172	914	210						
48	507	69	520	78	533	87	549	96	556	114	565	132	572	151	658	176	870	206	980	239	1213	268				
54	554	79	567	89	575	102	598	115	606	137	627	158	621	180	708	208	933	239	1045	282	1274	304	1293	340		
60	601	91	616	99	628	113	645	136	655	161	666	185	676	210	767	240	1005	272	1118	305	1373	337	1488	370	2188	400
66	669	99	688	109	699	125	707	153	725	174	731	202	741	231	835	262	1069	294	1196	327	1474	360	1592	394	2337	427
72	680	105	712	119	727	136	741	161	751	190	762	220	773	242	868	273	1125	305	1245	338	1525	371	1644	405	2369	440
76	731	113	741	126	757	143	772	170	783	201	796	232	805	253	902	284	1169	316	1287	349	1574	382	1696	417	2484	450
84	783	126	803	139	819	159	835	188	845	222	857	257	867	274	970	306	1252	338	1379	371	1676	404	1800	437	2631	470
96	876	144	887	159	907	181	932	217	944	253	955	293	963	308	1076	341	1384	376	1518	413	1834	454	1963	504	2856	570
108	999	162	1027	179	1040	204	1078	248	1087	285	1102	330	1114	344	1277	380	1509	418	1648	461	1986	508	2120	562	3074	620
120	1017	180	1037	198	1050	227	1196	270	1213	317	1230	367	1237	384	1418	424	1676	467	1833	515	2207	569	2357	629	3227	695

Rectangular Curb Pricing

GALV = Length + Width x 2.90 = List price total.

ALUM = Length + Width x 6.65 = List price total.

Example

30"

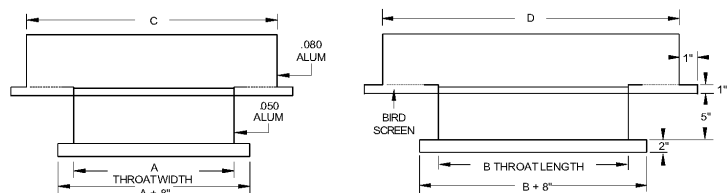
54"

30" + 54" = 84" x 2.90 = \$243.60
list price galvanized
with damper shelf

Notes: Size curb OD 7" larger than throat size.

Size CBDA dampers same size as vent throat or 6.5" less than curb OD, (page 45)

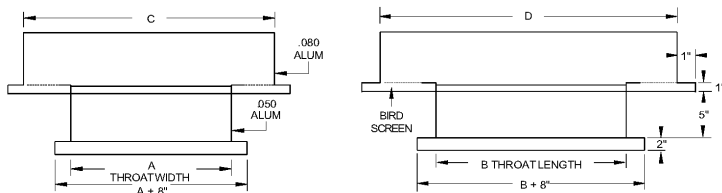
TGV-I Performance Data - Intake Supply



Throat Size A X B	Width	Length	Height	CFM @ Static Pressure		
	C	D	E	0.05	0.1	0.2
12						
12 x 12	21	21	7	685	969	1307
12 x 14	22	24	7	801	1133	1602
12 x 16	22	26	7	912	1289	1824
12 x 18	23	29	7	1058	1496	2115
12 x 20	24	32	7	1177	1664	2354
12 x 22	24	34	7	1254	1774	2509
12 x 24	25	37	7	1402	1983	2804
12 x 28	26	42	7	1634	2311	3268
12 x 30	26	44	7	1790	2531	3579
12 x 36	27	51	7	2124	3004	4248
12 x 40	28	56	7	2282	3227	4564
12 x 42	29	59	7	2435	3444	4870
12 x 48	28	64	7	2783	3935	5566
12 x 54	28	70	7	3120	4413	6240
12 x 60	29	77	7	3468	4904	6936
12 x 66	29	83	7	3811	5389	7621
12 x 72	30	90	7	4158	5881	8317
12 x 80	30	98	7	4601	6507	9202
12 x 84	31	103	7	4844	6850	9687
12 x 96	31	115	7	5523	7811	11047
12 x 108	31	127	8	6399	9050	12799
12 x 120	32	140	8	6931	9801	13861
14						
14 x 14	25	25	8	933	1319	1866
14 x 16	25	27	8	1095	1549	2191
14 x 18	26	30	8	1196	1692	2393
14 x 20	27	33	8	1333	1886	2667
14 x 22	28	36	8	1508	2132	3015
14 x 24	28	38	8	1550	2192	3100
14 x 28	29	43	8	1897	2683	3795
14 x 30	29	45	8	1998	2825	3995
14 x 36	30	52	8	2129	3011	4259
14 x 40	30	56	8	2667	3772	5334
14 x 42	30	59	8	2830	4003	5660
14 x 48	31	66	8	3330	4709	6660
14 x 54	32	72	8	3637	5143	7273
14 x 60	33	79	8	4032	5702	8064
14 x 66	33	85	8	4427	6261	8854
14 x 72	34	92	8	4849	6857	9698
14 x 80	34	100	8	5227	7393	10455
14 x 84	35	105	8	5597	7916	11194
14 x 96	35	117	8	6393	9041	12786
14 x 108	36	130	9	7221	10211	14441
14 x 120	36	142	9	8249	11666	16498
16						
16 x 16	28	28	9	1217	1722	2435
16 x 18	28	30	9	1370	1938	2741
16 x 20	29	33	9	1567	2217	3135
16 x 22	30	36	9	1725	2439	3449
16 x 24	31	39	9	1790	2531	3580
16 x 28	32	44	9	2070	2927	4140
16 x 30	32	46	9	2287	3235	4575
16 x 36	33	53	9	2814	3980	5629
16 x 40	33	57	9	3046	4308	6093
16 x 42	33	60	9	3236	4576	6472
16 x 48	35	67	9	3684	5210	7368
16 x 54	36	74	9	3945	5579	7890
16 x 60	36	80	9	4390	6208	8780
16 x 66	37	87	9	5065	7163	10130
16 x 72	38	94	9	5545	7841	11089
16 x 80	38	102	9	5976	8452	11953
16 x 84	39	107	9	6393	9041	12786
16 x 96	39	119	9	7336	10375	14673
16 x 108	40	132	10	8054	11390	16108
16 x 120	40	144	10	9171	12969	18341

Throat Size A X B	Width	Length	Height	CFM @ Static Pressure		
	C	D	E	0.05	0.1	0.2
18						
18 x 18	32	32	10	1539	2176	3078
18 x 20	33	35	10	1763	2493	3525
18 x 22	33	37	10	1882	2661	3763
18 x 24	34	40	10	2000	2828	4000
18 x 28	35	45	10	2330	3295	4660
18 x 30	36	48	10	2567	3630	5133
18 x 36	37	55	10	3104	4390	6209
18 x 40	38	60	10	3426	4845	6852
18 x 42	38	62	10	3637	5143	7273
18 x 48	39	69	10	3950	5586	7900
18 x 54	40	76	10	4440	6279	8880
18 x 60	40	82	10	4811	6804	9622
18 x 66	41	89	10	5718	8087	11437
18 x 72	41	95	10	6074	8590	12148
18 x 80	42	104	10	6720	9504	13440
18 x 84	43	109	10	7084	10019	14169
18 x 96	43	121	10	8003	11317	16005
18 x 108	44	134	11	9250	13081	18499
18 x 120	45	147	11	10277	14534	20555
20						
20 x 20	35	35	11	1942	2761	3905
20 x 22	36	38	11	2092	2959	4185
20 x 24	37	41	11	2220	3140	4440
20 x 28	37	45	11	2730	3861	5460
20 x 30	38	48	11	2857	4040	5713
20 x 36	40	56	11	3484	4927	6968
20 x 40	40	60	11	3704	5238	7408
20 x 42	41	63	11	3835	5424	7670
20 x 48	42	70	11	4260	6024	8520
20 x 54	43	77	11	4930	6972	9860
20 x 60	44	84	11	5348	7563	10696
20 x 66	45	91	11	6025	8521	12050
20 x 72	45	97	11	6720	9504	13440
20 x 80	46	106	11	7669	10845	15337
20 x 84	46	110	11	7838	11085	15677
20 x 96	47	123	11	9171	12969	18341
20 x 108	48	136	11	10034	14190	20068
20 x 120	49	149	11	11463	16211	22927
22						
22 x 22	39	39	11	2303	3257	4606
22 x 24	40	42	11	2440	3451	4880
22 x 28	40	46	11	2978	4211	5956
22 x 30	42	50	11	3141	4442	6282
22 x 36	43	57	11	3640	5148	7280
22 x 40	44	62	11	4078	5768	8157
22 x 42	45	65	11	4220	5968	8440
22 x 48	46	72	11	4805	6795	9610
22 x 54	46	78	11	5275	7460	10549
22 x 60	47	85	11	6025	8521	12050
22 x 66	48	92	11	6446	9116	12892
22 x 72	49	99	11	7200	10182	14400
22 x 80	50	108	11	8000	11314	16000
22 x 84	50	112	11	8623	12195	17247
22 x 96	51	125	11	10067	14236	20133
22 x 108	52	138	11	11004	15561	22007
22 x 120	53	151	11	12607	17829	25214
24						
24 x 24	42	42	11	2650	3748	5300
24 x 28	43	47	11	3262	4614	6525
24 x 30	44	50	11	3457	4890	6915
24 x 36	46	58	11	3945	5579	7890
24 x 40	47	63	11	4335	6131	8670
24 x 42	48	66	11	4600	6505	9200
24 x 48	49	73	11	5275	7460	10550
24 x 54	50	80	11	5915	8365	11830
24 x 60	52	88	11	6580	9306	13160
24 x 66	52	94	11	7205	10189	14410
24 x 72	52	100	11	7855	11109	15710
24 x 80	53	109	11	8700	12304	17400
24 x 84	54	114	11	8949	12656	17898
24 x 96	55	127	11	10400	14708	20800
24 x 108	56	140	11	11750	16617	23500
24 x 120	57	154	11	13440	19007	26881

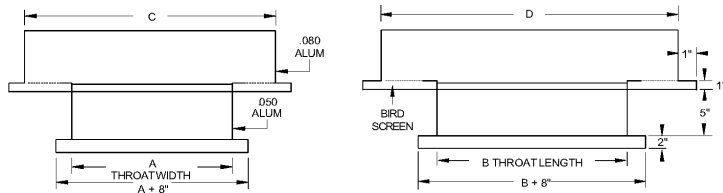
TGV-I Performance Data - Intake Supply



Throat Size A X B	Width C	Length D	Height E	CFM @ Static Pressure		
				0.05	0.1	0.2
28						
28 x 28	51	51	13	3789	5359	7579
28 x 30	51	53	13	4058	5739	8117
28 x 36	52	60	13	4600	6505	9200
28 x 40	53	65	13	5055	7149	10110
28 x 42	53	67	13	5370	7594	10740
28 x 48	54	74	13	6065	8577	12130
28 x 54	56	82	13	6900	9758	13800
28 x 60	57	89	13	7650	10819	15300
28 x 66	58	96	13	8189	11593	16395
28 x 72	59	103	13	9135	12919	18270
28 x 80	60	112	13	9630	13619	19260
28 x 84	61	117	13	10655	15068	21310
28 x 96	63	131	13	12150	17183	24300
28 x 108	64	144	13	13650	19304	27300
28 x 120	65	157	13	16049	22696	32097
30						
30 x 30	53	53	13	4207	5949	8413
30 x 36	55	61	13	4792	6776	9583
30 x 40	55	65	13	5455	7715	10910
30 x 42	57	69	13	5616	7943	11233
30 x 48	57	76	13	6343	8971	12687
30 x 54	60	84	13	7350	10394	14700
30 x 60	61	91	13	8175	11561	16350
30 x 66	62	98	13	8788	12428	17576
30 x 72	63	105	13	9840	13916	19680
30 x 80	64	114	13	10613	15009	21226
30 x 84	65	119	13	11420	16150	22840
30 x 96	66	132	13	13050	18455	26100
30 x 108	67	145	13	14550	20577	29100
30 x 120	69	159	13	16570	23433	33139
36						
36 x 36	63	63	15	5425	7672	10850
36 x 40	64	68	15	6392	9040	12784
36 x 42	66	72	15	6900	9758	13800
36 x 48	67	79	15	7437	10518	14874
36 x 54	69	87	15	8750	12374	17500
36 x 60	70	94	15	9875	13965	19750
36 x 66	71	101	15	10805	15281	21610
36 x 72	72	108	15	11750	16617	23500
36 x 80	74	117	15	12443	17597	24885
36 x 84	75	123	15	12775	18067	25551
36 x 96	77	137	15	14874	21035	29748
36 x 108	78	150	15	16690	23604	33381
36 x 120	79	165	15	19400	27436	38800
40						
40 x 40	70	70	17	7051	9971	14102
40 x 42	71	73	17	7640	10805	15280
40 x 48	73	81	17	8267	11691	16533
40 x 54	74	88	17	9588	13560	19176
40 x 60	76	96	17	10407	14718	20814
40 x 66	77	103	17	11451	16194	22902
40 x 72	79	111	17	12687	17942	25373
40 x 80	81	121	17	13773	19478	27546
40 x 84	83	127	17	14459	20448	28919
40 x 96	83	139	17	16524	23368	33047
40 x 108	85	153	17	18593	26294	37185
40 x 120	87	167	17	21585	30526	43170

Throat Size A X B	Width C	Length D	Height E	CFM @ Static Pressure		
				0.05	0.1	0.2
42						
42 x 42	74	74	18	7832	11076	15663
42 x 48	76	82	18	8229	11637	16457
42 x 54	78	90	18	9835	13909	19670
42 x 60	80	98	18	10965	15507	21930
42 x 66	82	106	18	12023	17003	24046
42 x 72	83	113	18	13209	18680	26418
42 x 80	84	122	18	13844	19578	27687
42 x 84	84	126	18	14537	20559	29075
42 x 96	87	141	18	16972	24001	33943
42 x 108	89	155	18	19451	27507	38901
42 x 120	91	169	18	21605	30555	43211
48						
48 x 48	84	84	20	9347	13218	18694
48 x 54	87	93	20	10545	14913	21091
48 x 60	88	100	20	11717	16570	23434
48 x 66	89	107	20	13386	18931	26772
48 x 72	92	116	20	13908	19669	27817
48 x 80	94	126	20	15505	21927	31010
48 x 84	95	131	20	16614	23496	33229
48 x 96	96	144	20	19321	27325	38643
48 x 108	95	165	20	21279	30093	42558
48 x 120	97	178	20	23735	33566	47469
54						
54 x 54	95	95	23	11865	16779	23729
54 x 60	97	103	23	13197	18664	26395
54 x 66	98	110	23	14391	20352	28783
54 x 72	98	121	23	15697	22199	31394
54 x 80	98	133	23	17397	24603	34793
54 x 84	98	140	23	18833	26633	37665
54 x 96	98	160	23	21737	30740	43473
54 x 108	98	179	23	23456	33172	46913
54 x 120	111	177	23	25858	36569	51716
60						
60 x 60	95	115	25	14534	20555	29069
60 x 66	96	124	25	16001	22629	32003
60 x 72	109	121	25	17397	24603	34793
60 x 80	111	131	25	19306	27303	38612
60 x 84	113	137	25	20268	28663	40535
60 x 96	115	151	25	23166	32761	46331
60 x 108	118	166	25	25961	36714	51921
60 x 120	118	184	25	28175	39846	56351
66						
66 x 66	98	134	25	17468	24704	34936
66 x 72	117	123	25	18681	26419	37363
66 x 80	117	135	25	21234	30029	42467
66 x 84	117	142	25	22298	31534	44596
66 x 96	117	162	25	25482	36037	50964
66 x 108	127	169	25	27890	39443	55781
66 x 120	130	184	25	30872	43660	61745
72						
72 x 72	117	137	25	20370	28807	40739
72 x 80	128	135	28	22716	32125	45432
72 x 84	130	142	29	24324	34399	48648
72 x 96	133	157	29	27259	38550	54518
72 x 108	136	172	29	30311	42866	60622
72 x 120	139	187	29	33679	47629	67358

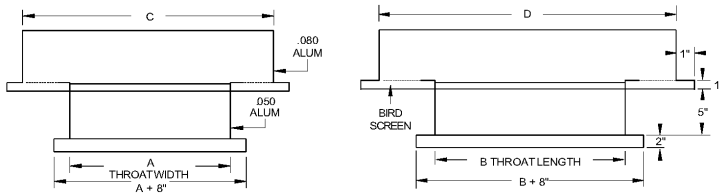
TGVR Performance Data - Exhaust Relief



Throat Size A X B	Width C	Length D	Height E	CFM @ Static Pressure		
				0.05	0.1	0.2
12						
12 x 12	18	18	7	667	1054	1490
12 x 14	18	20	7	772	1220	1726
12 x 16	18	22	7	881	1394	1971
12 x 18	19	25	7	993	1570	2221
12 x 20	19	27	7	1059	1675	2368
12 x 22	19	29	7	1185	1874	2650
12 x 24	20	32	7	1252	1980	2800
12 x 28	20	36	7	1462	2312	3270
12 x 30	20	38	7	1565	2475	3500
12 x 36	21	45	7	1775	2807	3970
12 x 40	21	48	7	1954	3090	4370
12 x 42	22	52	7	2048	3239	4580
12 x 48	21	57	7	2392	3782	5348
12 x 54	22	64	7	2567	4059	5741
12 x 60	22	70	7	2798	4423	6255
12 x 66	22	76	7	2998	4740	6704
12 x 72	22	82	7	3204	5066	7165
12 x 80	22	90	7	3437	5434	7685
12 x 84	22	94	7	3719	5879	8315
12 x 96	22	106	7	4119	6513	9210
12 x 108	22	120	7	4448	7033	9946
12 x 120	22	132	7	4896	7741	10947
14						
14 x 14	20	20	7	919	1453	2055
14 x 16	20	22	7	1051	1662	2350
14 x 18	22	26	7	1181	1867	2640
14 x 20	22	28	7	1237	1955	2765
14 x 22	22	30	7	1386	2192	3100
14 x 24	22	32	7	1425	2253	3187
14 x 28	22	36	7	1671	2642	3736
14 x 30	23	39	7	1825	2885	4080
14 x 36	23	45	7	2075	3281	4640
14 x 40	23	49	7	2323	3673	5195
14 x 42	24	52	7	2393	3783	5350
14 x 48	24	58	7	2789	4410	6236
14 x 54	24	64	7	3059	4836	6839
14 x 60	24	70	7	3264	5160	7298
14 x 66	24	77	7	3502	5536	7830
14 x 72	24	84	7	3738	5911	8359
14 x 80	25	92	7	4012	6344	8971
14 x 84	25	95	7	4243	6709	9487
14 x 96	26	108	7	4805	7598	10745
14 x 108	26	120	7	5189	8205	11604
14 x 120	26	132	7	5712	9031	12772
16						
16 x 16	23	23	7	1199	1895	2680
16 x 18	24	26	7	1342	2121	3000
16 x 20	24	28	7	1470	2324	3286
16 x 22	24	30	7	1616	2555	3613
16 x 24	25	33	7	1668	2638	3730
16 x 28	26	38	7	1950	3083	4360
16 x 30	26	40	7	2088	3302	4670
16 x 36	26	46	7	2370	3748	5300
16 x 40	26	50	7	2656	4200	5940
16 x 42	26	52	7	2789	4410	6236
16 x 48	27	59	7	3190	5045	7134
16 x 54	27	65	7	3354	5303	7500
16 x 60	27	71	7	3578	5657	8000
16 x 66	28	78	7	3763	5949	8413
16 x 72	28	84	7	4105	6490	9178
16 x 80	28	92	7	4387	6937	9810
16 x 84	28	96	7	4655	7361	10410
16 x 96	28	108	7	5152	8146	11520
16 x 108	29	121	7	5578	8820	12473
16 x 120	29	133	7	6261	9899	14000

Throat Size A X B	Width	Length	Height	CFM @ Static Pressure		
	C	D	E	0.05	0.1	0.2
18						
18 x 18	26	26	8	1543	2439	3450
18 x 20	27	29	8	1690	2672	3779
18 x 22	27	31	8	1856	2934	4149
18 x 24	27	33	8	1917	3031	4287
18 x 28	28	38	8	2191	3465	4900
18 x 30	28	40	8	2348	3712	5250
18 x 36	29	47	8	2614	4133	5844
18 x 40	29	51	8	2929	4632	6550
18 x 42	29	53	8	3077	4865	6880
18 x 48	30	60	8	3515	5558	7860
18 x 54	30	66	8	3852	6091	8614
18 x 60	30	72	8	4025	6364	9000
18 x 66	31	79	8	4232	6691	9463
18 x 72	31	85	8	4618	7301	10326
18 x 80	31	92	8	4955	7835	11081
18 x 84	31	97	8	5135	8119	11483
18 x 96	32	110	8	5577	8818	12471
18 x 108	32	122	8	6400	10119	14310
18 x 120	33	135	8	6907	10921	15444
20						
20 x 20	29	29	9	1802	2850	4030
20 x 22	29	31	9	1981	3132	4430
20 x 24	30	34	9	2177	3443	4869
20 x 28	31	39	9	2536	4010	5672
20 x 30	31	41	9	2661	4207	5950
20 x 36	31	47	9	2961	4681	6620
20 x 40	32	52	9	3256	5148	7280
20 x 42	32	54	9	3417	5402	7640
20 x 48	33	61	9	3985	6300	8910
20 x 54	33	67	9	4277	6762	9563
20 x 60	33	73	9	4472	7071	10000
20 x 66	34	80	9	4893	7736	10941
20 x 72	34	86	9	5340	8444	11941
20 x 80	34	94	9	5728	9057	12809
20 x 84	35	98	9	5818	9199	13010
20 x 96	35	111	9	6440	10182	14400
20 x 108	35	123	9	7413	11722	16577
20 x 120	36	136	9	8343	13191	18655
22						
22 x 22	32	32	9	2223	3515	4970
22 x 24	32	34	9	2342	3702	5236
22 x 28	33	39	9	2679	4236	5990
22 x 30	33	41	9	2871	4540	6420
22 x 36	34	48	9	3260	5155	7290
22 x 40	34	52	9	3508	5547	7845
22 x 42	36	56	9	3757	5940	8400
22 x 48	35	61	9	4214	6663	9423
22 x 54	36	68	9	4521	7149	10110
22 x 60	37	75	9	4919	7778	11000
22 x 66	37	81	9	5277	8344	11800
22 x 72	37	87	9	5756	9100	12870
22 x 80	38	96	9	6176	9765	13810
22 x 84	38	100	9	6532	10327	14605
22 x 96	38	112	9	7084	11201	15840
22 x 108	39	125	9	8155	12894	18235
22 x 120	39	137	9	8975	14191	20070

TGVR Performance Data - Exhaust Relief



Throat Size A X B	Width C	Length D	Height E	CFM @ Static Pressure		
				0.05	0.1	0.2
24						
24 x 24	34	34	11	2456	3883	5491
24 x 28	35	39	11	2864	4528	6403
24 x 30	36	42	11	3070	4854	6864
24 x 36	37	49	11	3486	5512	7796
24 x 40	38	54	11	3904	6173	8730
24 x 42	38	56	11	4101	6484	9170
24 x 48	38	62	11	4687	7410	10480
24 x 54	39	69	11	5031	7955	11250
24 x 60	39	75	11	5367	8485	12000
24 x 66	40	82	11	5756	9100	12870
24 x 72	40	88	11	6279	9928	14040
24 x 80	40	96	11	6878	10876	15381
24 x 84	40	100	11	6891	11038	15610
24 x 96	41	113	11	7887	12471	17636
24 x 108	42	126	11	8709	13770	19473
24 x 120	42	138	11	9197	15481	21894
28						
28 x 28	40	40	13	3478	5499	7777
28 x 30	41	43	13	3654	5777	8170
28 x 36	41	49	13	4146	6555	9270
28 x 40	43	55	13	4651	7354	10400
28 x 42	43	59	13	4785	7566	10700
28 x 48	43	63	13	5469	8648	12230
28 x 54	45	70	13	5867	9277	13120
28 x 60	44	76	13	6139	9707	13728
28 x 66	45	83	13	6582	10408	14719
28 x 72	45	89	13	7476	11821	16718
28 x 80	46	98	13	7862	12431	17580
28 x 84	46	102	13	8490	13425	18985
28 x 96	47	115	13	9202	14549	20576
28 x 108	48	128	13	10160	16065	22719
28 x 120	48	140	13	11423	18062	25543
30						
30 x 30	43	43	13	3893	6156	8706
30 x 36	44	50	13	4537	7174	10145
30 x 40	45	55	13	4884	7722	10920
30 x 42	45	57	13	5125	8103	11460
30 x 48	46	64	13	5745	9083	12846
30 x 54	47	71	13	6166	9749	13787
30 x 60	48	78	13	6708	10607	15000
30 x 66	48	84	13	7196	11377	16090
30 x 72	49	91	13	7696	12169	17209
30 x 80	49	99	13	8258	13056	18464
30 x 84	50	104	13	8725	13796	19510
30 x 96	50	116	13	9859	15588	22045
30 x 108	51	129	13	10886	17212	24342
30 x 120	52	142	13	12239	19352	27368
36						
36 x 36	52	52	15	5558	8788	12427
36 x 40	53	57	15	5979	9454	13370
36 x 42	53	59	15	6276	9923	14034
36 x 48	54	66	15	7175	11345	16044
36 x 54	55	73	15	7549	11936	16880
36 x 60	56	80	15	8050	12728	18000
36 x 66	56	86	15	8809	13929	19698
36 x 72	57	93	15	9613	15199	21494
36 x 80	58	102	15	10107	15981	22600
36 x 84	58	106	15	10469	16553	23410
36 x 96	59	119	15	11367	17972	25417
36 x 108	60	132	15	13063	20655	29210
36 x 120	60	144	15	14378	22733	32150

Throat Size A X B	Width C	Length D	Height E	CFM @ Static Pressure		
				0.05	0.1	0.2
40						
40 x 40	57	57	15	6641	10501	14850
40 x 42	57	59	15	6974	11027	15595
40 x 48	59	67	15	7813	12353	17470
40 x 54	59	73	15	8385	13258	18750
40 x 60	60	80	15	8944	14142	20000
40 x 66	61	87	15	9593	15167	21450
40 x 72	62	94	15	10465	16546	23400
40 x 80	63	103	15	11230	17755	25110
40 x 84	64	108	15	11411	18042	25515
40 x 96	64	120	15	12880	20365	28800
40 x 108	65	133	15	14515	22950	32456
40 x 120	66	146	15	16319	25802	36490
42						
42 x 42	59	59	15	7178	11349	16050
42 x 48	61	67	15	8202	12968	18340
42 x 54	62	74	15	8806	13923	19690
42 x 60	64	82	15	9585	15155	21433
42 x 66	65	89	15	10071	15924	22520
42 x 72	65	95	15	10988	17374	24570
42 x 80	66	104	15	11793	18646	26370
42 x 84	66	108	15	12470	19717	27883
42 x 96	67	121	15	13803	21824	30864
42 x 108	68	134	15	14932	23610	33390
42 x 120	69	147	15	16435	25986	36750
48						
48 x 48	68	68	17	9192	14533	20553
48 x 54	70	76	17	10062	15910	22500
48 x 60	71	83	17	10733	16971	24000
48 x 66	72	90	17	11511	18201	25740
48 x 72	73	97	17	12558	19856	28080
48 x 80	74	106	17	13475	21305	30130
48 x 84	75	111	17	13962	22076	31220
48 x 96	75	123	17	15456	24438	34560
48 x 108	77	137	17	17418	27540	38947
48 x 120	78	150	17	19170	30311	42866
54						
54 x 54	77	77	19	11319	17897	25310
54 x 60	79	85	19	12075	19092	27000
54 x 66	79	91	19	12951	20478	28960
54 x 72	80	98	19	13853	21904	30977
54 x 80	81	107	19	14866	23505	33242
54 x 84	82	112	19	15706	24834	35120
54 x 96	83	125	19	17388	27492	38880
54 x 108	85	139	19	19154	30285	42830
54 x 120	86	152	19	21131	33411	47250
60						
60 x 60	86	86	21	13156	20801	29417
60 x 66	87	93	21	14387	22748	32170
60 x 72	88	100	21	15392	24337	34418
60 x 80	89	109	21	16847	26637	37670
60 x 84	90	114	21	17450	27591	39020
60 x 96	91	127	21	19320	30547	43200
60 x 108	93	141	21	20918	33074	46774
60 x 120	94	154	21	23023	36402	51480
66						
66 x 66	94	94	21	15831	25032	35400
66 x 72	94	102	21	17267	27301	38610
66 x 80	94	113	21	18168	28727	40625
66 x 84	97	115	21	19199	30356	42930
66 x 96	97	131	21	21252	33602	47520
66 x 108	97	147	21	23465	37102	52470
66 x 120	96	165	21	26359	41677	58941
72						
72 x 72	96	110	21	19731	31198	44120
72 x 80	96	120	21	20631	32620	46132
72 x 84	96	126	21	20943	33114	46830
72 x 96	96	143	21	22733	35945	50833
72 x 108	96	163	21	25599	40475	57240
72 x 120	96	180	21	28174	44548	63000

TCF Accessories

Vibration Isolator Kit

Model	Stock No.
TVIK	VIK01

Inline Adapters

Fan	Model	Stock No.
TCF 5,6	TICK 1006	C1006
TCF 8	TICK 1008	C1008
TCF 10	TICK 1410	C1410
TCF 101S	TICK 2010	C2010

Brick Vent

Model	A	B	C	Stock No.
BV 68	16 1/2	5	4 1/2	BV068
BV 120	23 3/4	23 3/4	2	BV120

Square to Round Transitions

Fan	Model	Duct Dia.	Stock No.
TCFT, JR, 5,6	SRT 6	6	SRT6
TCF 8,10	SRT 8	8	SRT8

Metal Faced Grill

Fan	Model	Stock No.
TCF 5,6	MFG 6	CMG06
TCF 8	MFG 8	CMG08
TCF 10	MFG 10	CMG10
TCF 101S	MFG 12	CMG12

Sloped Roof Cap

Model	Stock No.
SL20	71200

Wall Cap

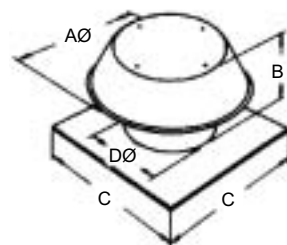
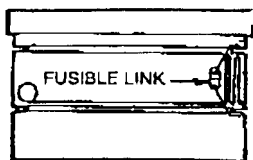
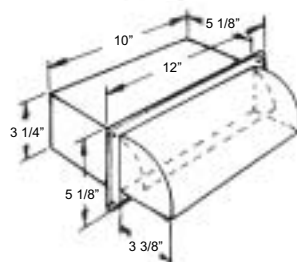
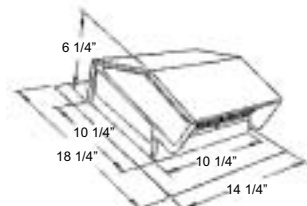
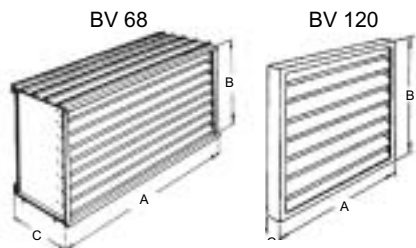
Model	Stock No.
WC10	71310

Radiation Dampers

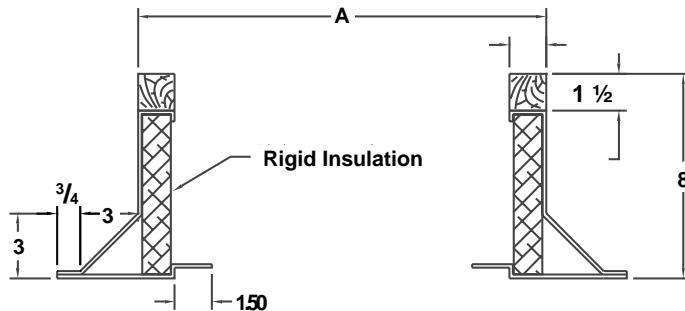
Fan	Model	Length	Height	Width	Stock No.	Ship Wt
TCFT, JR	TFD 06	12 5/8	7	9 5/8	TFD06	6
TCF 5,6	TFD 03	13 7/8	7	12 1/4	TFD03	7
TCF 8	TFD 08	12 5/8	7	9 3/8	TFD08	6
TCF 10	TFD 10	18 1/4	7	14 1/4	TFD10	10
TCF 101, 12, 121	TFD 12	24 1/2	7	14 3/4	TFD12	11

Flat Roof Cap

Model	AØ	B	C	DØ	Stock No.
FRC 08	11	10 1/8	15 sq	8	FRC08
FRC 12	18 1/2	15 5/8	20	12	FRC12
FRC 16	26	18 1/2	24	16	FRC16



Prefabricated Roof Curbs - Model CID



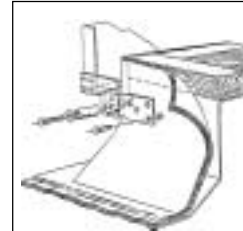
Construction Features

- 1 1/2 x 1 1/2 wood nailer, factory installed
- Fully mitered 3" cant
- 3 lb. density rigid insulation, 1 1/2" thick
- Damper Tray
- Continuously welded 18 gage galvanized steel with integral base plate

18" Curbs for Commercial Kitchen Ventilation Systems

TBU Model	Curb Model	Stock No.
10	CID1518	W1518
12, 15	CID22Q18	W2218
18, 20	CID27Q18	W2718
24	CID33O18	W3318
30,36"	CID40O18	W4018

* Although available, hinged curb adapter assembly not normally recommended for TBU 30/36 model due to size and weight of fan.



Hinged Curb Assembly

Stock No
BHCAD

Description

Prefabricated roof curbs reduce installation time by ensuring compatibility of the fan and the curb. Standard curbs are constructed of 18 gage galvanized steel and are insulated. All curbs have a fully mitered 3" cant unless specified otherwise. Standard height is 8 inches.

Optional Features

- 16 and 14 gage construction
- Aluminum construction
- Extended Heights
- Raised Cant
- Sound Attenuation
- Burglar Bars
 - (1/2" bars 8" on center... add 40%)
 - (3/4" bars 6" on center... add 60%)

Pitched/Peaked Roof Curbs Price Adder

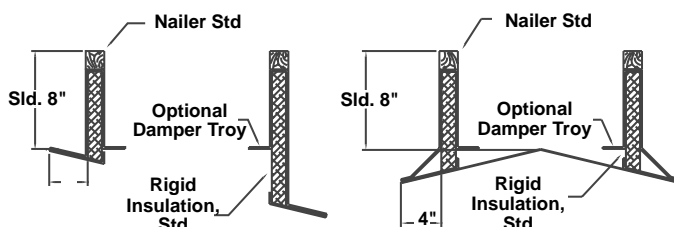
Roof Pitch	Pitched Curb	Peaked Curb
<3/12	70%	140%
3/12-6/12	80%	160%
6/12-9/12	110%	N/A

Rectangular Curb Pricing

GALV = Length + Width x 2.90 = List price total.

ALUM = Length + Width x 6.65 = List price total.

Example
 30" + 54" = 84" x 2.90 = \$243.60
 list price galvanized
 with damper shelf

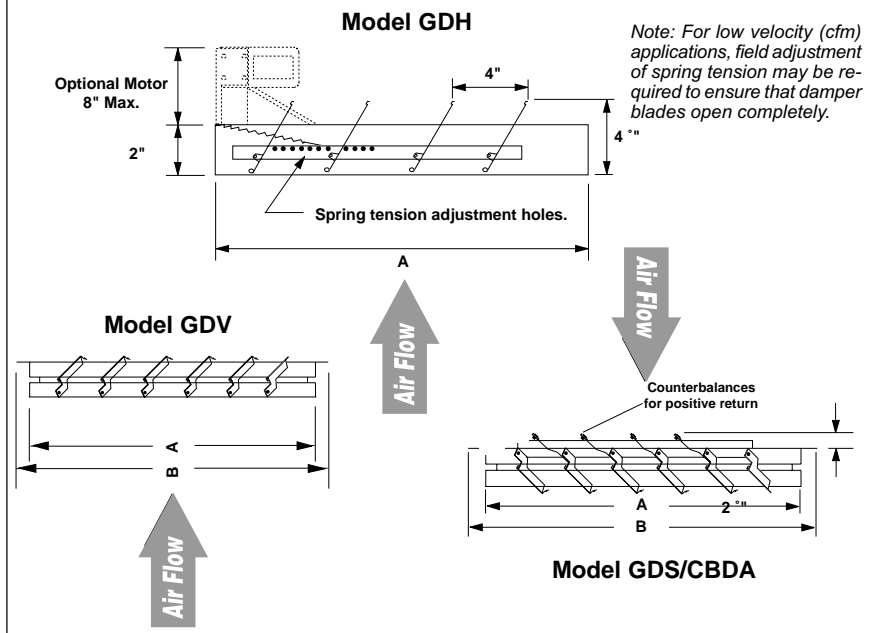


8" Height* Standard Curbs

Model	A Sq.	Curb Opening	Roof Opening	Stock No.
CID1508	15"	10"	11 1/2"	W1508
CID18Q08	18 3/4"	13"	15 3/4"	W1808
CID22Q08	22 1/2"	16 1/2"	19 1/2"	W2208
CID26Q08	26 1/2"	20 1/2"	23 1/2"	W2608
CID27O08	27 3/4"	21 3/4"	24 3/4"	W2708
CID3008	30"	24"	27"	W3008
CID3108	31"	25"	28"	W3108
CID33O08	33 3/4"	27 3/4"	30 3/4"	W3308
CID3508	35"	29"	32"	W3508
CID3608	36"	30"	33"	W3608
CID39Q08	39 1/2"	33 1/2"	36 1/2"	W3908
CID40O08	40 3/4"	34 3/4"	37 3/4"	W4008
CID4208	42"	36"	39"	W4208
CID45Q08	45 1/2"	39 1/2"	42 1/2"	W4508
CID4808	48"	42"	45"	W4808
CID51Q08	51 1/2"	45 1/2"	48 1/2"	W5108
CID53H08	53 1/4"	47 1/4"	50 1/4"	W5308
CID5408	54"	48"	51"	W5408
CID57Q08	57 1/2"	51 1/2"	54 1/2"	W5708

1. To allow adequate clearance, 12" curbs should be used with all motorized dampers for centrifugal fans.
2. Pitched and peaked curbs are self flashing style base unless specified otherwise. Consult factory for delivery.
3. Last two digits in both curb model and stock numbers indicate height. When ordering curbs of non-standard height, indicate required height in model and stock number. For example, Model CID22Q12, Stock Number W2212 indicates 12" curb height.
4. Dampers are not permitted for use in conjunction with 18 inch high curbs to be used for commercial kitchen ventilation exhaust systems. Vented curb may also be required. Please consult factory for price and delivery.

Backdraft Dampers for Roof Ventilators



Damper Model/Size			A	B
GDH	GDV	GDS	Sq.	Sq.
11		8	8"	10 1/2"
		12	12"	14 1/2"
14		16	16"	18 1/2"
18		20	20"	22 1/2"
	21		21"	23 1/2"
22			22"	
24			24"	
		24	24"	26 1/2"
26			26"	
	26		26"	28 1/2"
		27	27"	29 1/2"
	32		32"	32 1/2"
		34	34"	36 1/2"
36			36"	
	38		38"	40 1/2"
	44		44"	46 1/2"
48			48"	
	50		50"	52 1/2"

Notes:

- (1) Fan should be mounted no closer to shutter than 1/3 fan diameter or 4 inches for wheels/props less than 12 inches in diameter.
- (2) Standard motors are supplied as 120V or 230V single phase.
- (3) Dampers are shipped in individual cartons. Motors and mounting hardware shipped separately.
- (4) Multiple section dampers may require bracing to support the weight of the assembly and to hold against system pressure. **BRACING SUPPLIED BY OTHERS.**

Model GDH Standard Specifications

Maximum Face Velocity: 1000 fpm

Temperature Limits:

Damper: -40°F to 250°F (-40°C to 120°C)

Motor: -40°F to 130°F (-40°C to 54°C)

Frame: 19 gauge galvanized steel

Blades: 26 gauge aluminum

Blade Pivots: Stainless steel rivet at all pivot points

Seals: Felt between adjacent blades

Finish: Mill

Models GDS and GDV Standard Specifications

Maximum Face Velocity: 3000 fpm

Temperature Limits:

Damper: -40°F to 200°F (-40°C to 94°C)

Motor: -40°F to 130°F (-40°C to 54°C)

Frame: 20 gauge galvanized steel

Blades: 0.025 inch thick aluminum

HD 28 gauge galvanized steel

Seals: Extruded vinyl, mechanically locked into blades

Axles: Stainless steel

Linkage: Stainless steel pins, galvanized steel tie bar

Finish: Mill

Fan Series/Size								Recommended Curb		Recommended Gravity Dampers	
TDD	TBD	TDU	TBU	TBDA	TBS	FDD	TARE/S	Model	Stock No.	Model	Stock No.
6-10	6-9	6-10	10			6-8		CID1508	W1508	GDH11	82G11
							10	CID18Q08	W1808	GDH14	82614
12,15	11-16	12-15	12,15				12	CID22Q08	W2208	GDH18	82G18
					9			CID22Q08	W2208	GDS16	84G16
					10		16	CID26Q08	W2608	GDS20	84G20
	18,20		18,20					CID27Q08	W2708	GDH24	82G24
					12,15			CID3108	W3108	GDS24	84G24
	24		24	24				CID33Q08	W3308	GDH30	82G30
					18			CID3508	W3508	GDS27	84G27
				30				CID39Q08	W3908	GDV32	83G32
	30,36		30,36					CID40Q08	W4008	GDH36	82G36
				36				CID45Q08	W4508	GDV38	83G38
				42				CID51Q08	W5108	GDV44	83G44
	42,48							CID53H08	W5308	GDH48	82G48
				48				CID57Q08	W5708	GDV50	83G50

Note: To allow adequate clearance, 12" curbs should be used with all motorized dampers for centrifugal fans.

* **CAUTION:** Motor kits are not suitable for use in potentially explosive or flammable applications or areas.

CBDA - For Model TGV Gravity Ventilator Price Matrix

Optional 1 MOTOR															Optional 2 MOTOR								
Damper Length	12	14	16	18	20	22	24	26	28	Damper Width				38	40	42	44	48	50	52	54	56	60
12	103									30	32	36											
14	121	124																					
16	129	132	135																				
18	150	157	160	165																			
20	160	165	168	171	174																		
22	168	171	178	186	189	193																	
24	175	178	181	189	193	196	199																
26	186	196	204	193	210	217	222	228															
28	193	207	210	214	217	222	225	232	250														
30	222	228	232	240	243	246	250	253	261	268													
32	234	243	246	250	253	256	261	264	268	274	282												
36	243	246	250	253	256	261	264	268	282	285	289	292											
38	250	253	256	261	264	268	274	279	285	289	297	303	307										
40	261	264	268	271	274	279	282	289	297	303	310	318	321	325									
42	268	271	274	279	285	289	292	300	303	315	321	328	336	343	636								
44	274	279	282	285	289	292	300	307	315	321	328	336	343	357	672	678							
48	321	325	328	331	336	339	343	346	349	354	357	384	365	372	714	732	750						
50	328	333	336	339	343	349	357	364	372	378	385	393	400	411	750	768	786	804					
52	382	394	406	419	421	424	429	432	435	439	447	453	465	475	768	786	804	822	828				
54	390	400	411	421	424	429	432	439	447	453	465	468	478	486	786	804	822	840	856	900			
56	421	432	442	453	457	460	465	468	471	475	478	481	493	499	712	840	856	874	892	910	931		
60	447	454	460	468	471	475	478	481	486	498	496	504	510	514	874	882	892	900	910	928	946	1024	
62	453	462	469	478	481	486	489	493	496	499	504	510	517	522	900	921	928	936	954	964	982	1035	
64	460	468	474	481	486	489	493	496	499	510	514	517	522	528	943	960	964	972	978	985	1000	1053	
66	471	475	481	486	489	493	496	499	510	514	517	525	535	540	964	982	990	1000	1006	1011	1018	1065	
68	475	480	484	489	493	496	499	510	514	517	525	550	553	556	993	1000	1011	1018	1024	1035	1042	1071	
70	478	483	489	493	498	502	507	510	517	525	535	553	556	564	1018	1024	1035	1042	1053	1060	1071	1089	
72	486	490	495	499	502	507	510	517	525	535	543	556	564	571	695	1050	1057	1065	1071	1089	1107	1125	
74	493	498	502	507	510	514	517	525	535	543	550	564	571	589	1057	1071	1057	1089	1096	1120	1125	1143	
76	507	510	514	517	525	531	535	538	543	568	579	592	600	607	1068	1078	1096	1104	1114	1125	1135	1150	
78	510	514	517	525	531	537	543	556	568	574	589	600	607	615	1075	1089	1107	1114	1125	1135	1143	1161	
80	522	529	535	543	547	552	556	568	574	582	597	607	615	621	1096	1104	1114	1125	1135	1143	1161	1179	
82	543	547	552	556	561	564	568	582	589	597	607	615	621	636	1125	1132	1143	1150	1161	1171	1179	1197	
84	556	561	567	571	577	583	589	607	615	625	631	636	639	646	1197	1207	1215	1225	1243	1249	1260	1278	
86	571	577	583	589	595	601	607	628	636	639	643	646	654	667	1236	1243	1249	1260	1267	1278	1285	1303	
96	589	595	601	607	615	621	628	649	657	664	678	693	695	700	1275	1285	1293	1303	1314	1321	1332	1339	
98	618	627	634	643	649	654	660	678	690	696	703	724	732	804	1321	1329	1339	1350	1357	1368	1375	1393	
108	649	682	717	750	756	762	768	778	786	793	799	807	822	832	1492	1500	1518	1536	1554	1572	1582	1600	
110	714	730	748	765	769	774	778	786	799	807	814	822	856	871	1543	1554	1564	1572	1582	1590	1600	1606	
120	750	762	774	786	798	810	822	835	850	868	882	897	903	910	1614	1624	1636	1642	1653	1660	1678	1732	
122	786	798	810	822	834	844	856	874	892	907	918	928	946	964	1642	1660	1668	1678	1689	1696	1714	1750	

Optional 2 MOTOR Optional 4 MOTOR

CONTACT FACTORY FOR SIZES NOT SHOWN

Construction

- 1 Frame of 20 gauge galvanized steel with .020 aluminum blades. Frame has 1.5" front flange unless otherwise specified. Flanges add 3" to overall size of damper. Rear flange or channel frame available at no extra cost.
- 2 Dampers weigh 2.5 lbs per square foot.
- 3 Maximum single section is 42"x64".

Ordering

- 1 When ordering dampers with TGV gravity vents, size damper SAME as A and B dimensions of VENT or 6.5" less than CURB O.D.
- 2 Order must specify INTAKE or RELIEF. For pricing unlisted sizes use next larger listed size.
- 3 Normal delivery is 10-13 working days.

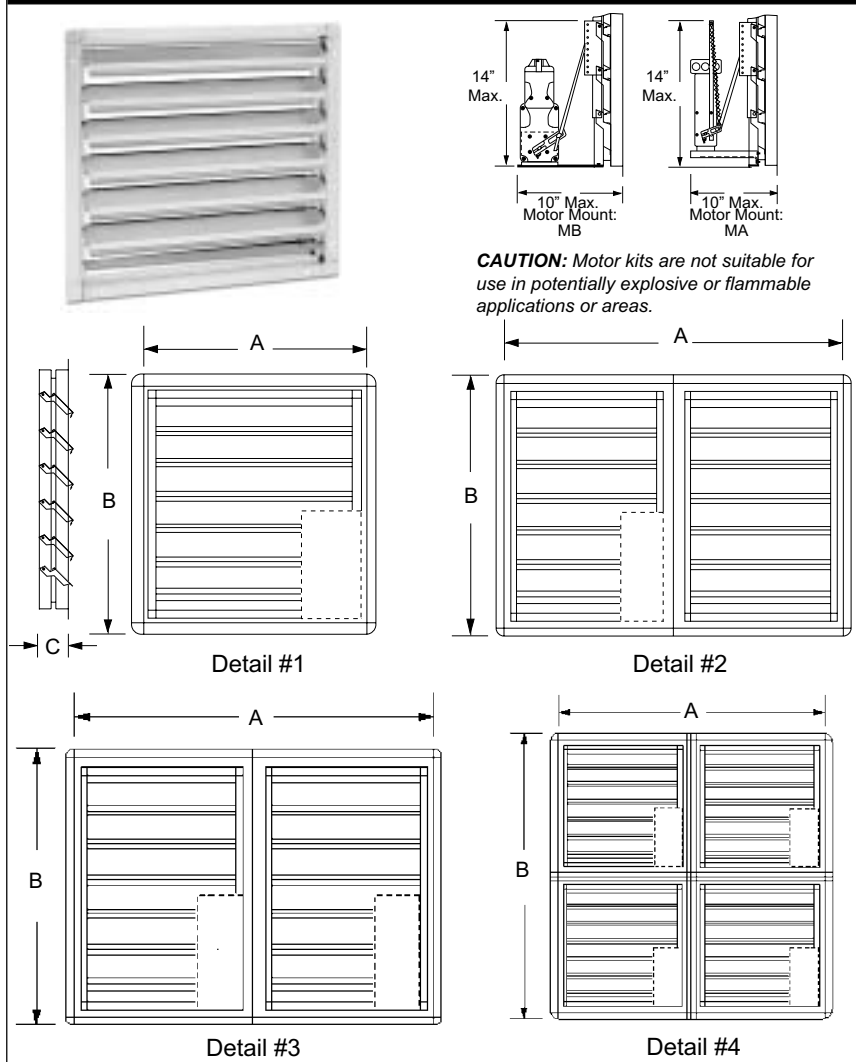
MOTOR OPERATORS (Optional for CBDA)

- 1 The following motor operators are available:

M1: 120volt - MA-230	\$247.00 List.
M2: 220volt - MA-321	\$315.00 List
M3: 440volt - MA-230 with transformer	\$390.00 List

- 2 When motor operation is required, order ONE OR MORE MOTORS FOR EACH SECTION as specified above.

Exterior Mount Louvered Dampers - Models GDV



Standard Specifications

Maximum Face Velocity: 3000 fpm
 Temperature Limits: -40°F to 200°F (-40°C to 94°C)
 Minimum Size: 8" x 8"
 Size: Single Section: 42" x 64" Max W/H
 Multiple Sections: Unlimited
 Frame: 20 gauge galvanized steel
 Blades: 0.025 inch thick aluminum
 HD 28 gauge galvanized steel
 Seals: Extruded vinyl, mechanically locked into blades
 Axles: Stainless steel
 Linkage: Stainless steel pins, galvanized steel tie bar
 Finish: Mill

Multiple section dampers are factory assembled.

Fan Model			Damper Dim.				Grvty Dmpr.	Stock No.
FADE	TABE	THDAB	A	B	C	Detail		
8			9	11 1/2	3	1	GDV9	83G09
8			9	11 1/2	3	1	GDV9	83G09
10			12	14 1/2	3	1	GDV12	83G12
12			12	14 1/2	3	1	GDV12	83G12
14			18	20 1/2	3	1	GDV18	83G18
16			18	20 1/2	3	1	GDV18	83G18
18			21	23 1/2	3	1	GDV21	83G21
20			21	23 1/2	3	1	GDV21	83G21
22			26	28 1/2	3	1	GDV26	83G26
25			26	28 1/2	3	1	GDV26	83G26
	20		20	22 1/2	3	1	GDV20	83G20
	24	24	26	28 1/2	3	1	GDV26	83G26
	30	30	32	34 1/2	3	1	GDV32	83G32
	36	36	38	40 1/2	3	2	GDV38	83G38
	42	42	44	46 1/2	3	2	GDV44	83G44
	48	48	50	52 1/2	3	2	GDV50	83G50
	54	54	56	58 1/2	3	3	GDV56	83G56
	60	60	62	64 1/2	3	3	GDV62	83G62
		72	76	78 1/2	3	4	GDV76	83G76

Notes

- (1) Fan should be mounted no closer to shutter than 1/3 propeller diameter or 4 inches for propellers less than 12 inches in diameter.
- (2) Standard motors are supplied as 120V or 230V single phase.
- (3) Dampers are shipped in individual cartons. Motors and mounting hardware shipped separately.
- (4) Multiple section dampers may require bracing to support the weight of the assembly and to hold against system pressure. *BRACING SUPPLIED BY OTHERS.*

Round and Square Backdraft Dampers - Model RSK and GDH



Model RSK

Standard Specifications - Model RSK

Maximum Face Velocity: 1500 fpm
 Casing: 24 gauge galvanized steel
 Blades: 0.020" thick aluminum with ss spring return
 Pivots: Bronze hinge pin, self lubricating
 Seal: Neoprene gasket around interior circumference
 Finish: Mill

All units undersized 1/8" to fit in circular duct.



Model GDH

Standard Specifications - Model GDH

Frame: 19 gauge galvanized steel
 Blades: 26 gauge aluminum
 Blade Pivots: Stainless steel pivot at all pivot points
 Seals: Felt between adjacent blades
 Finish: Mill

All units undersized 1/4" to fit in square duct.

Model RSK Circular Dampers			Model GDH Square Dampers		
Model	Size	Stock No	Model	Size	Stock No
RSK 6	6" Circular	69060	GDH8	8" x 8"	82G08
RSK 8	8" Circular	69080	GDH11	11" x 11"	82G11
RSK 10	10" Circular	69010	GDH14	14" x 14"	82G14
RSK 12	12" Circular	69012	GDH18	18" x 18"	82G18
RSK 14	14" Circular	69014	GDH24	24" x 24"	82G24
RSK 16	16" Circular	69016	GDH30	30" x 30"	82G30

Intake Louvers - Models FLV and MLV



**Model FLV -
Fixed Blade
Louver**
(shown with optional flange)

Extruded Aluminum Stationary Non-Drainable Louvers

Model FLV louvers are designed to combine outstanding performance with improved aesthetic appearance.

Standard Features

Blade Angle: 45 Degrees
Frame Depth: 4 inches
Frame Type: Channel
Frame Thickness: 0.081 inches

Contact Factory for Optional Features
Add 10% for Angle (flanged) frames.

Fixed Blade Louvers - Model FLV List Pricing

*Louvers are slightly undersized to fit in an opening of listed dimensions

HEIGHT*	WIDTH*														
	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"
12"	104	120	138	154	170	199	217	240	258	300	316	335	352	371	387
18"	123	143	164	198	224	243	266	295	318	373	392	415	434	455	475
24"	143	165	204	232	259	284	313	345	371	433	457	481	509	533	557
30"	167	207	240	272	303	332	363	402	436	505	533	562	593	620	650
36"	188	240	277	318	355	389	428	480	517	601	637	672	710	745	779
42"	224	267	311	353	392	433	480	533	577	667	708	745	787	826	873
48"	241	287	337	381	426	471	520	582	627	729	773	816	860	902	954
54"	269	319	371	418	470	515	570	654	706	802	851	899	949	996	1045
60"	285	340	395	449	502	552	612	705	760	863	915	969	1024	1074	1128
66"	309	371	433	494	556	612	677	781	844	959	1017	1079	1140	1199	1262
72"	329	394	458	523	590	650	721	831	897	1017	1084	1147	1212	1273	1338
78"	353	420	492	559	629	693	771	888	957	1082	1150	1220	1291	1361	1429
84"	376	447	525	595	669	739	821	943	1017	1149	1218	1288	1379	1453	1524
90"	394	468	548	622	701	778	862	988	1068	1205	1281	1356	1456	1529	1605
96"	420	501	588	669	755	836	930	1068	1153	1301	1383	1464	1575	1654	1738

When ordering, specify as Model FLV (Width) x (Height)



**Model MLV -
Adjustable Blade**
(Shown with optional motor & flange)

Extruded Aluminum Adjustable Non-Drainable Louvers

Model MLV louvers are available with motorized operators. Multiple panels are joined by a substantial jackshaft assembly which is driven by one or more actuators. Contact factory for details.

Standard Features

Blade Angle: Adjustable
Frame Depth: 4 inches
Frame Type: Channel
Frame Thickness: 0.081 inches

Contact Factory for Optional Features
Add 10% for Angle (flanged) frames.

Adjustable Blade Louvers - List Pricing

HEIGHT*	WIDTH*										No. of Blades
	12"	18"	24"	30"	36"	42"	48"	54"	60"		
	12"	141	157	175	193	211	241	261	303	321	1
	18"	177	198	222	258	287	309	332	392	416	2
	24"	209	233	277	306	337	365	395	460	488	3
	30"	246	290	326	361	397	428	462	535	570	4
	36"	277	330	371	411	454	489	530	616	654	5
	42"	329	373	420	462	507	548	596	689	732	6
	48"	376	423	478	525	578	625	677	784	834	8
	54"	416	468	525	577	637	685	744	876	930	9
60"	444	504	564	620	684	737	800	944	1003	10	
66"	478	539	603	664	732	789	857	1011	1074	11	
72"	509	573	642	708	781	842	914	1077	1145	12	
78"	549	617	697	766	846	912	993	1166	1241	13	
84"	586	659	742	816	901	972	1058	1239	1319	14	
90"	633	711	799	876	969	1050	1139	1335	1419	16	
96"	666	748	839	923	1019	1102	1197	1403	1492	17	

When ordering, specify as Model MLV (Width) x (Height).

*Louvers slightly undersize to fit in an opening of listed dimension.

Actuators			
Model	Control	Stock No	List EA
	Manual	CHNALTMW	\$152.00
MA405	120V	88M01	\$518.00

Factory provided motorized actuator. Shipped loose.

Louver models available from stock are listed below. Contact factory regarding delivery for all other models.

FLV3636 36" x 36" Fixed Louver
FLV4860 48" x 60" Fixed Louver
MLV3636 36" x 36" Motorized Louver
MLV4860 48" x 60" Motorized Louver

Intake Louvers - Models FLV and MLV

Model FLV and MLV Louver Selection Data

Water Penetration: 0.01 oz. at 677 fpm recommended free area velocity
Pressure Drop: 0.10 in. WG at 677 fpm and 5518 SCFM
Free Area: 8.15 square feet = 51% for 48" x 48" test size

Both maximum recommended free area velocity and the beginning of water penetration are 677 fpm at standard air - 0.075lbs. per ft³. The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511, effective November, 1990.

Model FLV - Free Area, ft²

		WIDTH							
		12"	24"	36"	48"	60"	72"	84"	96"
HEIGHT	12"	0.26	0.61	0.96	1.31	1.62	1.97	2.32	2.67
	24"	0.73	1.72	2.72	3.71	4.58	5.58	6.58	7.57
	36"	1.12	2.66	4.21	5.75	7.09	8.64	10.18	11.72
	48"	1.59	3.78	5.96	8.15	10.06	12.25	14.43	16.62
	60"	2.01	4.78	7.54	10.30	12.72	15.48	18.24	21.01
	72"	2.46	5.84	9.22	12.60	15.56	18.94	22.32	25.70
	84"	2.93	6.96	10.98	15.01	18.53	22.56	26.58	30.61
	96"	3.33	7.90	12.47	17.04	21.04	25.61	30.18	34.75

To convert free area in square feet to free area in square meters, multiply free area by 0.0929.

Model MLV - Free Area, ft²

		WIDTH				
		12"	24"	36"	48"	60"
HEIGHT	12"	0.18	0.42	0.67	1.91	1.15
	24"	0.56	1.32	2.09	2.85	2.62
	36"	0.91	2.17	3.42	4.68	5.93
	48"	1.40	3.31	5.23	7.15	9.06
	60"	1.83	4.33	6.84	9.34	11.85
	72"	2.19	5.20	8.20	11.21	14.21
	84"	2.62	6.20	9.79	13.38	16.97
	96"	3.09	7.32	11.56	15.79	20.02

To determine the proper size FLV or MLV louver, follow the procedure given below.

1. Divide the required cfm by the maximum recommended free area velocity of 677 fpm.
2. Reference the appropriate free area table shown above and select the size louver that meets the minimum free area requirement.

Example:

Step #1.

$$\begin{aligned} \text{Minimum Free Area} &= \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} \\ &= \frac{5,000}{677} = 7.39 \text{ ft}^2 \end{aligned}$$

Step #2.

From the free area tables, the appropriate selections are:

FLV3660 36" x 60" Fixed Louver

MLV4848 48" x 48" Motorized Louver

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies. **Structural supports and mounting accessories are not supplied as standard by Fantech.**

Assembled Wall Collar/Guards

Models AWC and AWH



*AWH shown with fan, motor guard & damper installed.

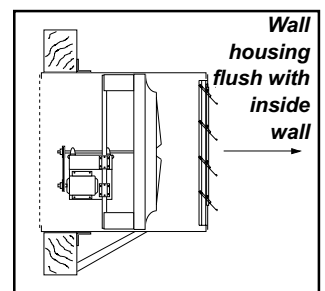
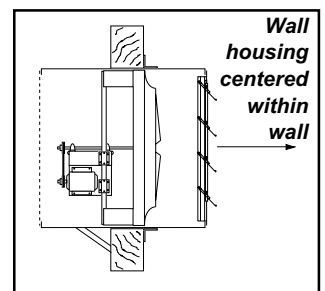
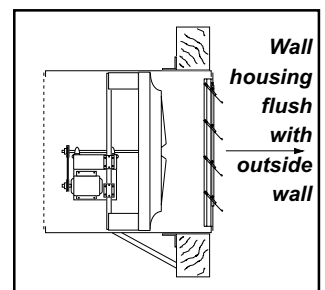
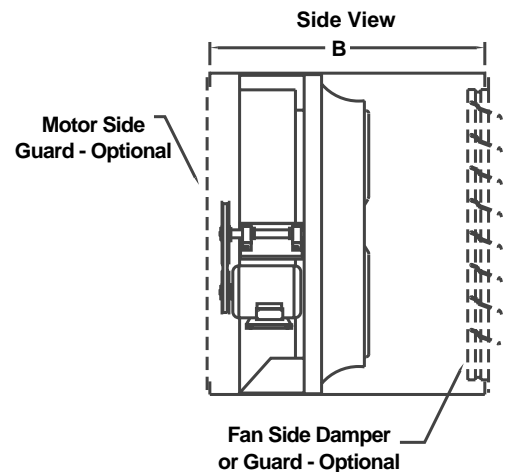
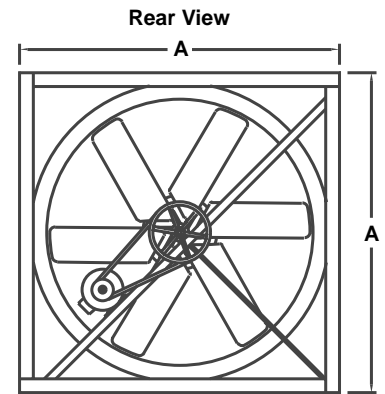
Description

Assembled wall collars and housings are used to facilitate mounting fans and accessories in a wall. AWC collars are used to mount FADE Series fans and AWH housings are used to mount TABE and THDAB Series fans. The housing may be positioned per the application or user's preference. Normally the housing incorporates a guard on the intake (motor) side of the housing. In applications where the fan is used for supply air, a rainhood is highly recommended to help prevent moisture from being introduced into the building.

Notes:

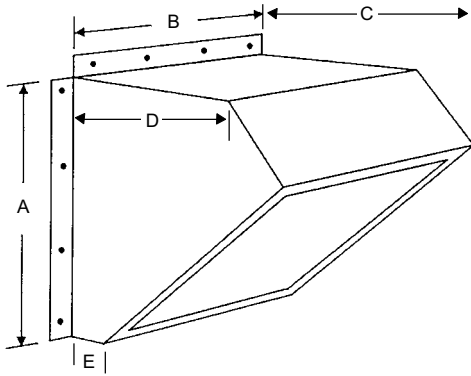
- (1) Housings shipped assembled with fan unless ordered knocked down.
- (2) Standard material is G90 galvanized.
- (3) Wire Guards (*Models AWH Only*):
Standard OSHA is 1/2" x 1", 16 gauge galv. wire
OSHA H.D. is 1/2" x 1/2" expanded metal alum finish
Non-OSHA is 3/4" x 3/4" expanded metal alum finish
- (4) Dimensions below include fastener heads.
- (5) CAUTION: Housing may require additional support when mounted. Supports are supplied by others.

Fan Model	Size	Housing Model	A	B	Min. Wall Opening	Stock No.	Gravity Damper	Stock No.
FADE	12", 14"	AWC14	21"	13"	21 1/2"	N1412	GDV18	83G18
FADE	16", 18"	AWC18	24"	14"	24 1/2"	N1816	GDV21	83G21
FADE	20"	AWC20	26"	15"	26 1/2"	N2000	GDV21	83G21
FADE	22", 25"	AWC25	32"	16"	32 1/2"	N2522	GDV26	83G26
TABE	20"	AWH20	25"	32"	25 1/2"	P2005	GDV20	83G20
TABE	24"	AWH24	31"	32"	31 1/2"	P2405	GDV26	83G26
TABE	30"	AWH30	37"	32"	37 1/2"	P3005	GDV32	83G32
TABE	36"	AWH36	43"	32"	43 1/2"	P3605	GDV38	83G38
TABE	42"	AWH42	49"	32"	49 1/2"	P4205	GDV44	83G44
TABE	48"	AWH48	55"	32"	55 1/2"	P4805	GDV50	83G50
TABE	54"	AWH54	61"	44"	61 1/2"	P5405	GDV56	83G56
TABE	60"	AWH60	67"	44"	67 1/2"	P6005	GDV62	83G62
THDAB	24"	TMDWH24	31"	44"	31 1/2"	Q2405	GDV26	83G26
THDAB	30"	TMDWH30	37"	44"	37 1/2"	Q3005	GDV32	83G32
THDAB	36"	TMDWH36	43"	44"	43 1/2"	Q3605	GDV38	83G38
THDAB	42"	TMDWH42	49"	44"	49 1/2"	Q4205	GDV44	83G44
THDAB	48"	TMDWH48	55"	44"	55 1/2"	Q4805	GDV50	83G50
THDAB	54"	TMDWH54	61"	44"	61 1/2"	Q5405	GDV56	83G56
THDAB	60"	TMDWH60	67"	44"	67 1/2"	Q6005	GDV62	83G62
THDAB	72"	TMDWH72	81"	44"	81 1/2"	Q7205	GDV76	83G76



Wall Hoods Exhaust/Intake

Models TWHE and TWHI



Standard Features

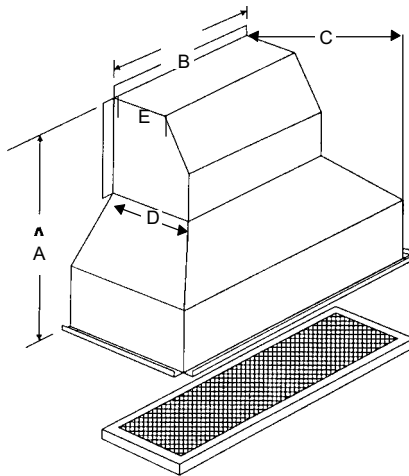
Constructed of galvanized steel.
1/2" galvanized mesh birdscreen.
Over 24" ships knocked-down
for field assembly.

Optional Features

Adder

Construction of .050
or .063 Aluminum 43%
Aluminum Insect Screen 10%
Decorative Enamel
(Plus setup charge \$172.00) 35%

Wall Hood - Exhaust Fan								
Fan Model	Model	Stock#	Wall Opening		C	D	E	Intake/Exhaust Area Length x Width
			A	B				
FADE 8-4	TWHE12	12W08	12	12	11.49	8.49	3	10.5 x 10.5
FADE 10-4	TWHE14	14W10	14	14	13.40	9.90	3.5	12.5 x 12.5
FADE 12-4	TWHE22	22W12	22	22	21.06	15.56	5.5	20.5 x 20.5
FADE 14-4	TWHE22	22W12	22	22	21.06	15.56	5.5	20.5 x 20.5
FADE 16-4	TWHE26	26W16	26	26	24.88	18.38	6.5	24.5 x 24.5
FADE 18-4	TWHE26	26W16	26	26	24.88	18.38	6.5	24.5 x 24.5
FADE 20-4,6	TWHE28	28W20	28	28	26.80	19.80	7	26.5 x 26.5
FADE 22-4	TWHE34	34W22	34	34	32.54	24.04	8.5	32.5 x 32.5
FADE 25-4	TWHE34	34W22	34	34	32.54	24.04	8.5	32.5 x 32.5
TABE 20	TWHE28	28W20	28	28	26.80	19.80	7	26.5 x 26.5
TABE/THDAB 24	TWHE32	32W24	32	32	30.63	22.63	8	30.5 x 30.5
TABE/THDAB 30	TWHE38	38W30	38	38	36.37	26.87	9.5	36.5 x 36.5
TABE/THDAB 36	TWHE44	44W36	44	44	42.11	31.11	11	42.5 x 42.5
TABE/THDAB 42	TWHE50	50W42	50	50	47.86	35.36	12.5	48.5 x 48.5
TABE/THDAB 48	TWHE56	56W48	56	56	53.60	39.60	14	54.5 x 54.5
TABE/THDAB 54	TWHE63	63W54	63	63	60.30	44.55	15.75	61.5 x 61.5
TABE/THDAB 60	TWHE69	69W60	69	69	66.04	48.79	17.25	67.5 x 67.5
THDAB 72	TWHE83	83W72	83	83	79.44	58.69	20.75	81.5 x 81.5



Standard Features

Constructed of galvanized steel.
Oversized horizontal intake area with perimeter
gutter to reduce intake velocities and possible
moisture intake.
Supplied with galvanized bird screen to cover
intake area.
Over 24" ships knocked-down for field assembly.

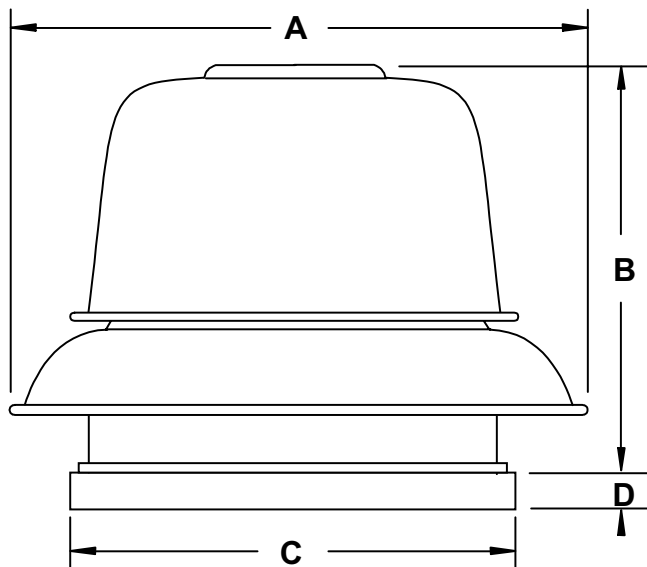
Optional Features

Adder

Construction of .050
or .063 Aluminum 43%
Aluminum Insect Screen 10%
Decorative Enamel
(Plus setup charge \$172.00) 35%
1" or 2" washable aluminium filter 70%

Wall Hood - Intake/Supply Fan								
Fan Model	Model	Stock#	Wall Opening		C	D	E	Intake/Exhaust Area Length x Width
			A	B				
FADE 8-4	TWHI12	12X08	12	12	15.5	12	6	15.5 x 19
FADE 10-4	TWHI14	14X10	14	14	18	14	7	18 x 22
FADE 12-4	TWHI22	22X12	22	22	28.3	22	11	28.3 x 34.6
FADE 14-4	TWHI22	22X12	22	22	28.3	22	11	28.3 x 34.6
FADE 16-4	TWHI26	26X16	26	26	33.5	26	13	33.5 x 41
FADE 18-4	TWHI26	26X16	26	26	33.5	26	13	33.5 x 41
FADE 20-4,6	TWHI28	28X20	28	28	36	28	14	36 x 44
FADE 22-4	TWHI34	34X22	34	34	43.8	34	17	43.8 x 53.6
FADE 25-4	TWHI34	34X22	34	34	43.8	34	17	43.8 x 53.6
TABE 20	TWHI28	28X20	28	28	36	28	14	36 x 44
TABE/THDAB 24	TWHI32	32X24	32	32	41.2	32	16	41.2 x 50.4
TABE/THDAB 30	TWHI38	38X30	38	38	48.9	38	19	48.9 x 59.8
TABE/THDAB 36	TWHI44	44X36	44	44	56.6	44	22	56.6 x 69.2
TABE/THDAB 42	TWHI50	50X42	50	50	64.3	50	25	64.3 x 78.6
TABE/THDAB 48	TWHI56	56X48	56	56	72	56	28	72 x 88
TABE/THDAB 54	TWHI63	63X54	63	63	81	63	31.5	81 x 99
TABE/THDAB 60	TWHI69	69X60	69	69	88.8	69	34.5	88.8 x 108.6
THDAB 72	TWHI83	83X72	83	83	106.8	83	41.5	106.8 x 130.6

TDD - Direct-Drive Downblast Centrifugal Roof Ventilator



Standard Features

- Aluminum Construction
- Speed Controllable
- Birdscreen
- Electrical Conduit Connectors
- Disconnect Standard
- AMCA Licensed Sound and Air performance
- CSA/NRTL-C Certified for electrical safety



Fantech certifies that the TDD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 6-7 of Booklet TF-1003, October 2003, for complete fan performance specifications.

Size	Dimensions							Avg Wt
	A	B	C	D	E	F	G	
6	21 3/4	16 3/4	16 1/2	2	11	14 3/4	11 3/4	48
8	21 3/4	16 3/4	16 1/2	2	11	14 3/4	11 3/4	48
10	21 3/4	16 3/4	16 1/2	2	11	14 3/4	11 3/4	67
12	33 1/2	23 1/2	24	2 1/2	18	22 1/4	19 1/4	102
15	33 1/2	23 1/2	24	2 1/2	18	22 1/4	19 1/4	125

A - Outside diameter of unit.

B - Height of unit above top of curb.

C - Inside dimension of square curb cap.

D - Depth of curb mounting flange.

E - O.D. backdraft damper (box frame type).

F - Outside dimension of factory built prefab curb.

G - Recommended roof opening.

(Inside dimension of factory built prefab curb.)

H - Shipping Weight (lbs.)



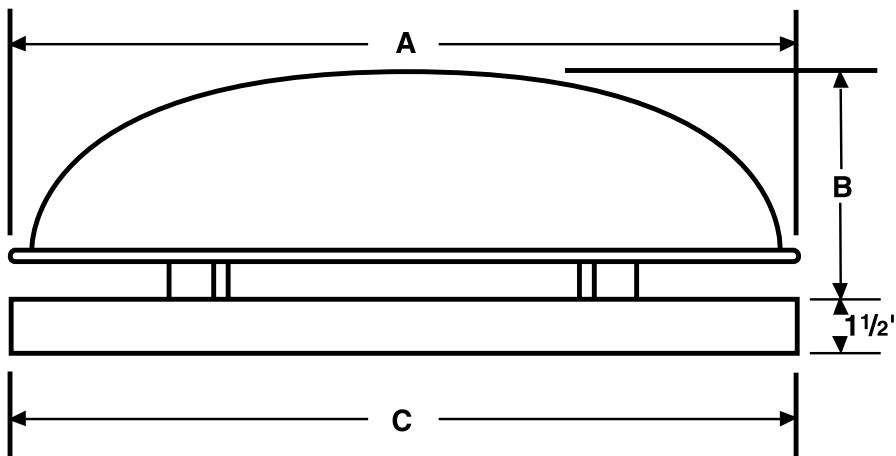
These fans are listed by the Canadian Standards Association Testing Laboratories as approved.

Fan Specifications									Motor Specifications				
Line	Quan.	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items						Accessory Items					
	1	2	3	4	5		1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

FDD - Direct-Drive Downblast Centrifugal Roof Ventilator



Standard Features

- All aluminum exterior construction
- Stainless steel exterior fasteners
- External rotor motor design
- Backward curved centrifugal wheel
- Permanently lubricated bearings
- 100% speed controllable
- Aluminum birdscreen and windband
- Prewired electrical box
- Deep spun inlet
- UL 705 Listed and CUL Listed for electrical safety
- AMCA Licensed Sound and Air performance
- Three year Fantech warranty



Fantech certifies that the FDD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



See pages 8-9 of Booklet TF-1003, October 2003, for complete fan performance specifications.

Model	Dimensions			Curb OD	Damper OD	Roof Opening	UPS Wt	Truck Wt
	A	B	C					
FDD 6	16 1/2	7	16 1/2	15	11	11 3/4	13	13
FDD 8	16 1/2	7	16 1/2	15	11	11 3/4	13	13

A - Outside diameter of unit.

B - Height of unit above top of curb.

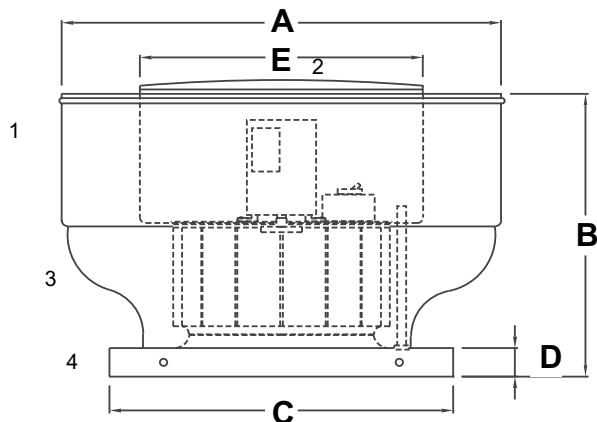
C - Inside dimension of square curb cap.

Fan Specifications									Motor Specifications				
Line	Quan.	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
Customer: _____ Approved: _____
Location: _____

TDU - Direct-Drive Upblast Centrifugal Roof Ventilator



Model TDU is listed for electrical compliance - UL705 and cUL705 Canada.

Standard Features

- Aluminum Housing.
- Stainless Steel Exterior Fasteners.
- Aluminum Backward Inclined Wheel.
- Prepunched Aluminum Curb Cap with Welded Corners.
- Single Piece Aluminum Birdscreen & Windband.
- Neoprene Vibration Mounts.
- Conduit Wiring chase.
- Factory Disconnect Switch or Plug Type (EXCEPT XP & 2 Speed).
- AMCA Licensed Sound and Air Performance



Fantech certifies that the TDU Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 10-11 of Booklet TF-1003, October 2003, for complete fan performance specifications.

Fan Size	Dimensions (Inches)				
	A	B	C	D	E
6 / 8	25 ¼	18	16 ½	2	16
10	28 ¾	21	16 ½	2	19 ⅞
12	32 ¾	26	24	2	24 ⅞
14 / 15	32 ¾	26	24	2	24 ⅞

- A. Outside diameter of unit.
 B. Height of unit.
 C. Inside dimension of square curb cap.
 D. Depth of curb mounting flange.
 E. Motor compartment diameter.

Size	Dimensions (Inches)			Aluminum Metal Gauges				Fan Wt (lbs.)	Ship Wt (lbs.)
	Damper OD	Roof Opening	Curb OD	Wind Band ①	Motor Cover ②	Shroud ③	Base ④		
6 & 8	11	11 ¼	15	.050	.080	.063	.05	37	70
10	11	11 ¼	15	.050	.050	.063	.063	40	73
12	18	19 ½	22 ¼	.050	.050	.063	.063	70	115
14 & 15	18	19 ½	22 ¼	.050	.050	.063	.063	75	120

Fan Specifications									Motor Specifications				
Line	Quan.	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

TBU - Belt-Drive Upblast Centrifugal Roof Ventilator

Size	Dimensions							Avg Wt
	A	B	C	D	E	F	G	
6	27 1/2	24	16 1/2	2	24	11 3/4	15	66
8/10	27 1/2	26	16 1/2	2	26	11 3/4	15	69
12/15/16	31 1/2	26	24	2 1/2	26	19 1/4	22 1/2	93
18/20	37 3/4	28	29 1/2	2 1/2	28	24 3/4	27 3/4	120
24	47 1/4	33 1/2	35 1/2	2 1/2	37 1/2	30 3/4	33 3/4	245
30	56 3/4	49	42 1/2	2 1/2	49	37 3/4	40 3/4	365
36	66	52	42 1/2	2 1/2	52	37 3/4	40 3/4	365
42	72 1/2	56	55	2 1/2	56	50 1/4	53 1/4	385
48	78 3/4	60	55	2 1/2	60	50 1/4	53 1/4	490

A. Inside dimension of square curb cap.

B. Outside diameter of unit.

C. Height of exhaust opening above curb cap.

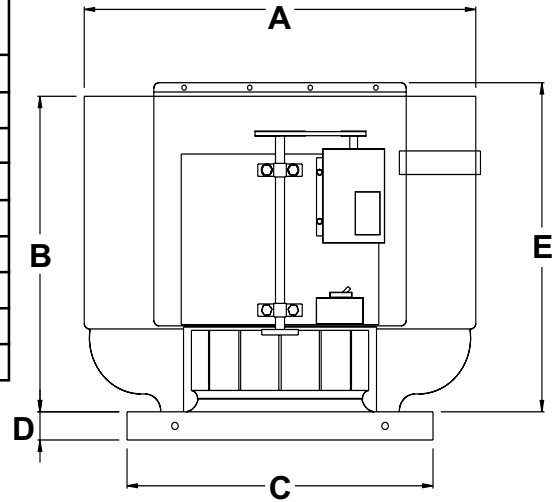
D. Height of unit above top of curb.

E. Depth of curb mounting flange.

F. Recommended roof opening.

(Inside dimension of factory built prefab curb.)

G. Outside dimension of factory built prefab curb.



Size	METAL GAUGES					
	Wind Band	Motor Cover	L	Base		Curb Cap Flange
				STD/UL	UL762	
6	.050	.050	.063	.063	16GA	.050
8/10	.050	.050	.063	.063	16GA	.050
12/15/16	.050	.050	.063	.063	16GA	.050
18/20	.050	.050	.063	.063	16GA	.063
24	.050	.050	.080	.080	16GA	.080
30	.050	.050	.100	.090	16GA	.080
36	.050	.050	.100	.090	16GA	.090
42	.050	.050	.090	.090	NA	.100
48	.050	.050	.090	.090	NA	.100



Fantech certifies that the TBU Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 12-13 of Booklet TF-1003, October 2003, for complete fan performance specifications.



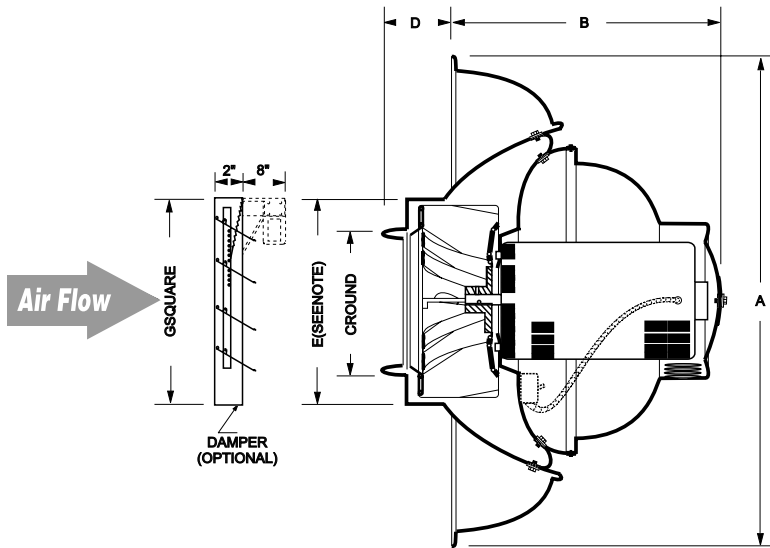
Model TBU is listed for electrical compliance - UL705, UL762 and c/UL705, c/UL762 Canada.

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____	Submitted: _____
Customer: _____	Approved: _____
Location: _____	

TDW - Direct-Drive Centrifugal Wall Exhauster



NOTE:

- 1) Disconnect switch ships loose for field installation and wiring.
- 2) For round duct connection to unit without damper, cut a circular hole in the wall to dimension E.

Model No.	Dimensions						Avg Ship Wt.
	A	B	C	D	E	G	
7	15	8	5 ¹⁵ / ₁₆	1 ½	8	8	10
8	20	9	9 ¹⁵ / ₁₆	2	12	11	18
9	26	13 ½	11 ¹⁵ / ₁₆	3	15	11	37
10 - 12	30	15 ½	13 ¹⁵ / ₁₆	3	17 ½	14	50
14	36	16 ½	17 ¹⁵ / ₁₆	4	22	18	84

Standard Features

- Heavy-gauge, corrosion free, spun aluminum housing and all stainless steel fastenings.
- Permanently lubricated motor, mounted in compartment sealed from exhaust airstream.
- Exclusive steel U-spring suspension for permanent maximum vibration isolation.
- Non-overloading all aluminum wheel and hub dynamically and statically balanced.
- Internal, watertight, aluminum wiring post provided for electrical conduit.



Fantech certifies that the TDW Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 14-15 of Booklet TF-1003, October 2003, for complete fan performance specifications.



Model TDW is listed for electrical compliance - UL705 and c/UL705 Canada.



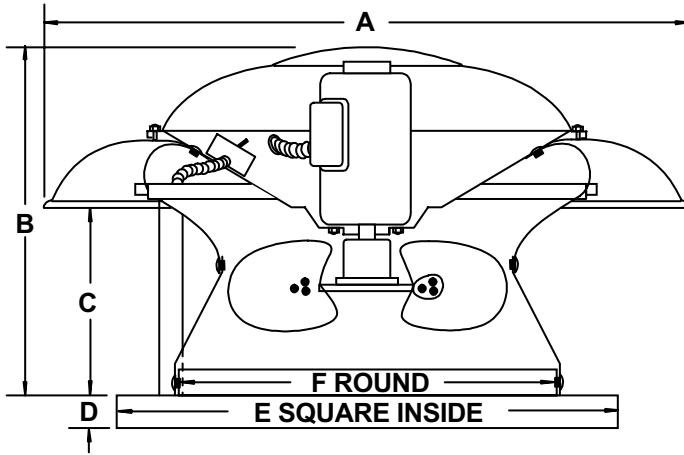
These fans are listed by the Canadian Standards Association Testing Laboratories as approved.

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

TARE/TARS - Direct-Drive Roof Mounted Axial Exhaust Supply Fan



Standard Features

- Permanently lubricated motor is mounted outside airstream.
- Exclusive U-spring suspension compensates for both radial and lateral movement, providing 44% better vibration isolation than rubber isolators.
- External, watertight, aluminum wiring post supplied for electrical conduit.
- Heavy-gauge spun aluminum housing gives unit strength without weight; eliminates rust.
- Pressure type axial fan with conic inlet construction assures quiet and efficient performance.
- High point of discharge with low contour.
- Disconnect switch (except 2 speed and explosion proof).

See pages 16-17 of Booklet TF-1003, October 2003,
for complete fan performance specifications.

Size	Dimensions					Orifice F	Damper O.D. G	Recommended Curb O.D.	Avg Wt
	A	B	C	D	E				
10	21	13	7	2	20	12 3/4	14	18 1/2	25
12	28	16	8	3	24	15 3/4	18	22 1/2	42
12	28	16	8	3	24	15 3/4	18	22 1/2	42
16	32	18	8 1/2	3	28	19 3/4	22	26 1/2	55
16	32	18	8 1/2	3	28	19 3/4	22	26 1/2	55
20	36	20	9 3/4	3	32	23 3/4	26	30 1/2	75



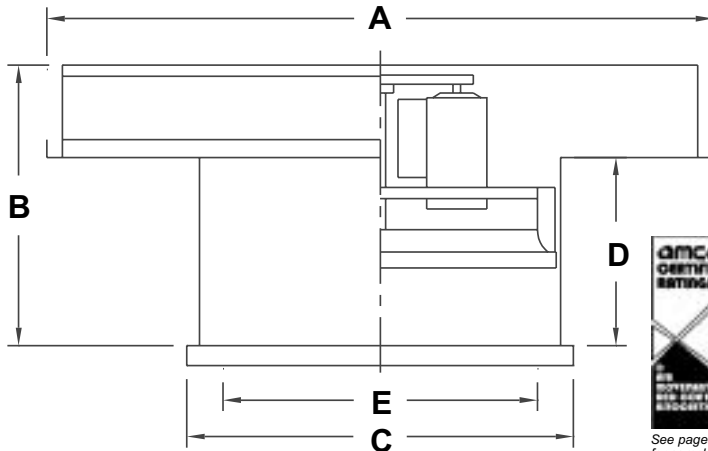
Model TARE/TARS is
listed for electrical
compliance - UL705
and c/UL705 Canada.

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____	Submitted: _____
Customer: _____	Approved: _____
Location: _____	

TBDA - Belt-Drive Downblast Axial Roof Ventilator




Fantech certifies that the TBDA Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 18-19 of Booklet TF-1003, October 2003, for complete fan performance specifications.

Standard Features

- Heavy-gauge galvanized steel hood and panels.
- One piece spun venturi for maximum efficiency.
- All welded support structure of schedule 40 galvanized pipe.
- Low silhouette modular design
- Rain gutters to minimize water entrainment.
- Adjustable pitch blades for optimum efficiency.
- Adjustable tension rods for belt adjustment.
- Non-static oil resistant V Belts.
- Cast iron self-aligning pillow block ball bearings, pre-lubricated with zirk fittings.

 Fans are manufactured from UL Recognized Components.

Model	A Sq O.D. Hood (2)	B ID Curb Cap	C Min. ID Opening	D Height	E Stack	Prefab Curb O.D.	Metal Gauges (1)			Avg Wt.
							Crown/Side Hood	Stack	Curn Cap	
24	58	44	35	23	30	33 ¾	18/18	18	14	300
30	66	44	41	23	36	39 ½	18/18	18	14	360
36	78	44	47	23	42	45 ½	18/18	18	14	440
42	87	51	53	30	48	51 ½	18/18	16	14	540
48	99	51	59	30	54	57 ½	18/18	16	14	690

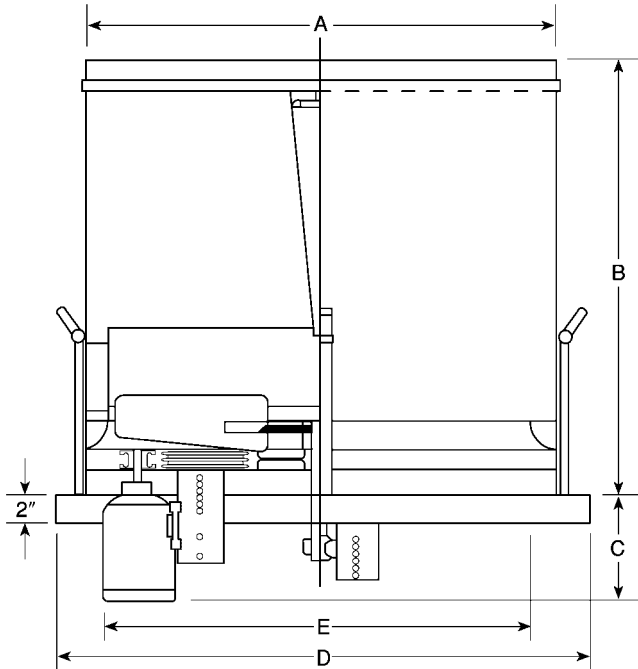
1. All materials are G90 galvanized steel.
2. Hoods for fan sizes 24-36" ship assembled. Hoods for fan sizes 42-48" ship KD unless ordered factory assembled.
3. Hoods will hinge and front panel is removable for access to fan and optional damper.
4. Propellers are 2, 3, 4, or 6-bladed adjustable pitch, air-foil aluminum (Fixed pitch steel and Aluminum are also available).
5. Dampers mount on accessory flanges inside curbs or in the duct due to space restrictions.

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
Customer: _____ Approved: _____
Location: _____

TBUA - Belt-Drive Upblast Axial Roof Ventilator



Fans are manufactured from
UL Recognized Components.

Standard Features

- Heavy-gauge galvanized steel panels and windband.
- One piece spun venturi for maximum efficiency.
- All welded support structure of schedule 40 galvanized pipe.
- Galvanized rain channel drains water from damper area to roof.
- Adjustable pitch blades for optimum efficiency.
- Non-static oil resistant V Belts.
- Cast iron self-aligning pillow block ball bearings, pre-lubricated with zirk fittings.



Fantech certifies that the TBUA Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 20-21 of Booklet TF-1003, October 2003, for complete fan performance specifications.

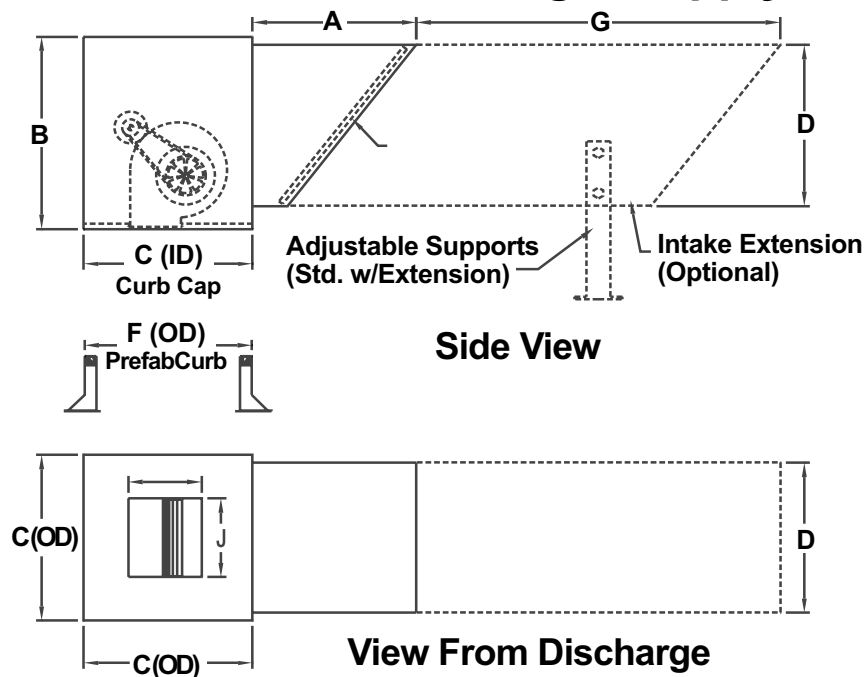
MODEL	A O.D. WINDBAND	B HEIGHT	C (MAX)	D I.D. CURB CAP	E Min I.D. OPENING	STD PREFAB CURB O.D.	METAL GAUGES			Avg Wt
							WIND SHROUD	CURB CAP	FAN PANEL	
24	30	33	16	32 x 32	27 x 27	30 X 30	18	14	16	310
30	36	36	17	38 x 38	33 x 33	36 X 36				340
36	42	37	17	44 x 44	36 x 36	42 X 42				430
42	48	41	18	50 x 50	42 x 42	48 X 48				490
48	54	44	22	56 x 56	48 x 48	54 X 54			14	640

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____	Submitted: _____
Customer: _____	Approved: _____
Location: _____	

TBS - Belt-Drive Centrifugal Supply Ventilator



Standard Features

- Heavy-gauge galvanized steel hood.
- Quick-release latches for removal from housing.
- Insulated for sound absorption and moisture barrier.
- 1 inch washable aluminum mesh filters.
- AMCA Licensed Sound and Air performance.
- UL and cUL Listed for electrical safety.



Fantech certifies that the TBS Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 22-24 of Booklet TF-0202, February 2002, for complete fan performance specifications.



Model TBS is listed for electrical compliance - UL705 and cUL705 Canada.

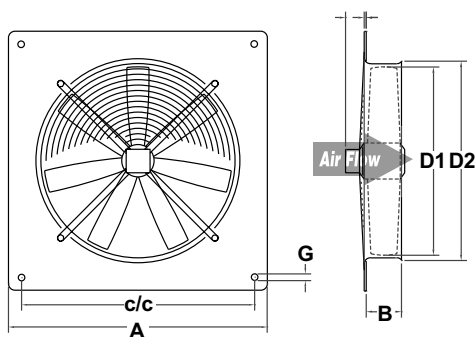
SIZE	A	B	C	D	E	F	G	H Sq	Damper O.D.	I	J	FILTERS (QTY)
9	17 3/4	23	24 1/2	18	18	22 1/2	78	24 1/2	19"	10 1/2	12	17 1/2 X 23 (1)
10	21 3/4	30	28 1/4	22	21 1/4	26 1/2	70	28 1/4	23"	11 5/8	13 1/4	21 1/2 X 28 1/2 (1)
12	27 1/4	33	32 1/2	28 3/8	27 1/4	31	51 1/4	32 1/2	27"	13 5/8	15 7/8	25 1/2 X 35 1/2 (1)
15	37	37	32 1/2	31 1/2	28 3/4	31	56	32 1/2	27"	16 1/4	18 7/8	21 1/2 X 28 1/2 (2)
18	36	41	36 1/2	36 1/2	31	35	48	36 1/2	30"	19	22 1/4	24 X 30 (2)
20	37 1/2	49	51	37 1/2	46 1/8	49 1/2	31	51	45"	23	25	25 1/2 X 45 1/2 (2)

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

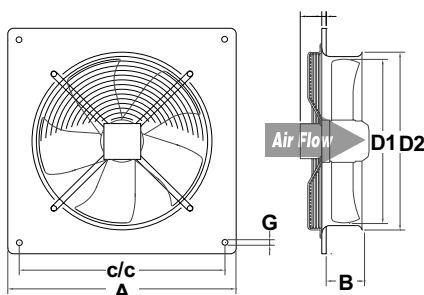
Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

FADE - Direct-Drive Sidewall Propeller Fan



"A" (Airfoil) Blade



"S" (Sickle) Blade

Standard Features

- 100% Speed Controllable
- Integral Blades and External Rotor allowing precision balancing
- Formed steel wall panel with Venturi
- Shallow profile with no protruding motor
- External rotor motor, class B insulation
- Automatic Reset Thermal Overload Protection
- Electrostatically applied polyester/epoxy urethane powder coat finish
- Self lubricating/sealed for life precision ball bearings
- Terminal box with prewired electrical strip



Fantech certifies that the FADE Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 26-27 of Booklet TF-1003, October 2003, for complete fan performance specifications.



Fans are manufactured from UL Recognized Components.

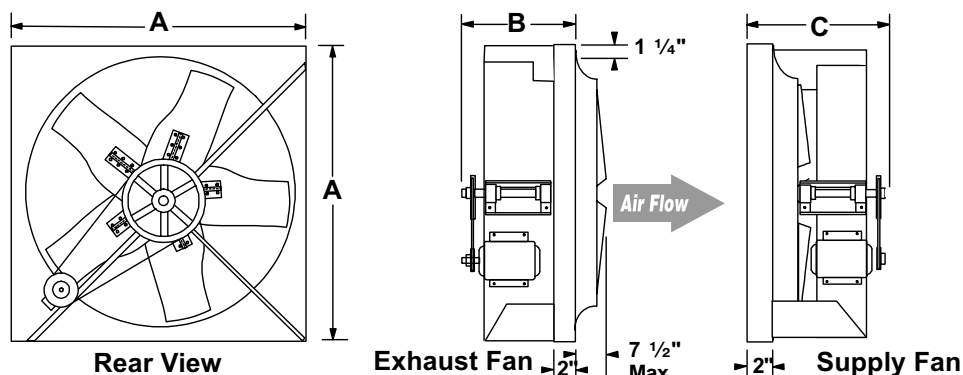
Model	A	B	c/c	d	D	E	F	G	Blade Design	Shipping Weight
8	12 1/4	12	10 1/2	8	8 1/2	1/4	1 1/2	1/4	S	15
10	14 1/2	2	12 1/2	10	10 1/2	1/4	1 1/2	1/4	S	15
12	17	2 1/2	15	12	13	1/2	1 1/2	1/4	S	20
14	19	2 3/4	17	14	15 1/4	1/2	2	1/4	S	20
16	22 3/4	3 1/4	21	16 1/2	17 1/4	1/2	2	1/2	S	25
18	22 1/2	4 1/4	21	18	18 3/4	1/2	2	1/2	A	30
20	25 3/4	6	24	20	20 3/4	1/2	2	3/4	A	45
22	28 1/2	5 1/4	26 3/4	22	22 3/4	3/4	2	3/4	A	55
25	31 1/2	7 3/4	29 1/2	25	26	3/4	2	3/4	A	65

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

TABE - Belt Drive Sidewall Propeller Fan Level 1 Construction



Standard Features

- One piece spun venturi 16 gauge min. G90 galvanized steel.
- Motor/Bearing plate support structure of 12 gauge min. G90 galvanized steel.
- Complete panel assembly of all welded construction.
- Cold galvanized coating applied to all welds.
- Pre-punched mounting holes for easy installation.
- 5 die formed min. 16 gauge galvanized blades.
- Statically and dynamically tested for balance.
- Adjustable slide base for belt tensioning.
- Non-static oil resistant V-belts.
- Self-aligning pillow block ball bearings, with re-lube fitting of air handler type.



Fantech certifies that the TABE Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model TABE is listed for electrical compliance - UL705 and c/UL705 Canada.

See pages 28-29 of Booklet TF-1003, October 2003, for complete fan performance specifications.

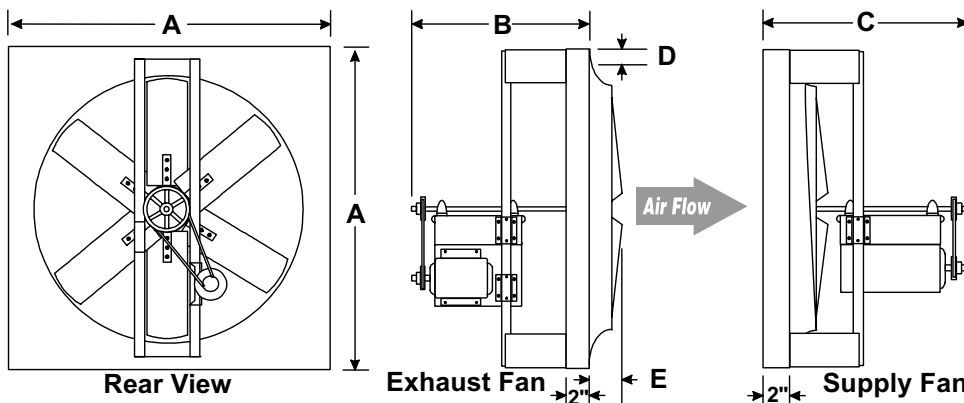
FAN SIZE	A SQ. O.D. PANEL	B EXHAUST	C SUPPLY	APPROX. WT.	MAX MOTOR	METAL GA. OR THICKNESS				
						SHAFT	PANEL	SUPPORT FRAME	BLADES	HUB SPIDER
20	24	15	23	85	56H	3/4	18	16	18	14
24	30	15	23	90	145T	1	16	12	16	10
30	36	15	24	100	145T					10
36	42	15	24	105	145T				7	
42	48	16	24	110	145T				14	7
48	54	16	24	125	145T					7
54	60	20	26	240	182T					1/4
60	66	20	26	285	182T	1/4				

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

THDAB - Belt Drive Sidewall Propeller Fan Level 2 Construction



Standard Features

- One piece spun venturi for maximum efficient airflow.
- Minimum 16 gauge G90 galvanized steel panel sizes 24-42.
- Minimum 14 gauge galvanized steel panel sizes 48-60.
- All welded steel support structure minimum 1 1/4" scheduled 40 galvanized steel pipe.
- 6 die formed minimum 16 gauge galvanized steel blades.
- Statically and dynamically tested for balance.
- Non-static oil resistant V-belts.

See pages 30-31 of Booklet TF-1003, October 2003, for complete fan performance specifications.



Fantech certifies that the THDAB Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model THDAB is listed for electrical compliance - UL705 and cUL705 Canada.

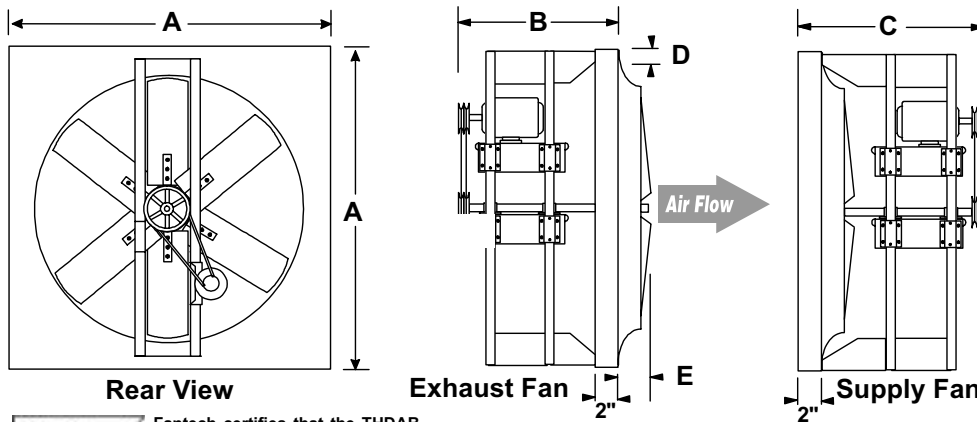
Model	A SQ. O.D. PANEL	B ² (Max)	C ² (Max)	D	E	MAX MOTOR	METAL GA. OR THICKNESS									
							SHAFT	PANEL		SUPPORT FRAME		BLADES		HUB	PIPE FRAME	APPR WT.
								Galv	Alum	Galv	Alum	Galv	Alum			
24	30	21	2	1 ¼	6 ½	145T	1	18	.08	14	¼	16	.08	¼	1 ¼" OD SCHED. 40"	120
30	36	21	2	1 ¼	6 ½	182T										180
36	42	25	2	1 ¼	6 ½	184T	1 ⅜	16	.100	10	¼	16	.08	¾		215
42	48	25	2	1 ¼	6 ½	184T										235
48	54	25	2	1 ¼	6 ½	184T										300
54	60	25	2	1 ¼	6 ½	184T										400
60	66	25	2	1 ¼	6 ½	184T										490

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

THDAB - Belt Drive Sidewall Propeller Fan Level 3 Construction



Standard Features

- One piece spun venturi for maximum efficient airflow.
- Minimum 16 gauge G90 galvanized steel panel.
- Minimum 14 gauge galvanized steel panel.
- All welded steel support structure minimum 1 1/4" scheduled 40 galvanized steel pipe.
- 6 die formed minimum 16 gauge double laminated galvanized steel blades.
- Statically and dynamically tested for balance.
- Non-static oil resistand V-belts.

See pages 30-31 of Booklet TF-1003, October 2003, for complete fan performance specifications.



Fantech certifies that the THDAB Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model THDAB is listed for electrical compliance - UL705 and cUL705 Canada.

Model THDAB	A SQ. O.D. PANEL	B (Max)	C (Max)	D	E	MAX MOTOR	METAL GA. OR THICKNESS									
							SHAFT	PANEL		SUPPORT FRAME		BLADES		HUB	PIPE FRAME	APPR. WT.
								Galv	Alum	Galv	Alum	Galv	Alum			
42	48	24	2	1 ¼	6 ½	213T	1 7/16	16	.08	10	¼	16	.08	¾	1 ¼" OD SCHED. 40"	260
48	54	24	2	1 ¼	6 ½	215T			330							
54	60	24	2	1 ¼	6 ½	254T			500							
60	66	24	2	1 ¼	6 ½	256T	2 3/16	14	.100	10	¼	16	.08	¾	1 ¼" OD SCHED. 40"	530
72	80	24	2	1 ¼	6 ½	256T										600

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

TCF Ceiling Mounted Centrifugal Exhaust Fan

TCF 5, 6

TCF 8

TCF 10

TCF 101, 12, 121

Fantech certifies that the TCF Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

TCFT, TCFJR

Fantech certifies that the TCFT and TCFJR Models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Standard Features

- Acoustically Insulated Housing
- Galvanized Steel Construction
- Speed Controllable
- Backdraft Damper
- Molded White Plastic Grille
- AMCA Licensed Sound and Air performance
- UL & CSA Certified for electrical safety

Optional Accessories

- In-line Kit
- Perforated Metal Grill
- Wall Cap
- Roof Cap
- Brick Vent
- Speed Control
- Push Button 5 amp Timer
- Vibration Isolators
- Square to Round Transition



Model TCF is listed for electrical compliance - UL705 and CSA Canada.



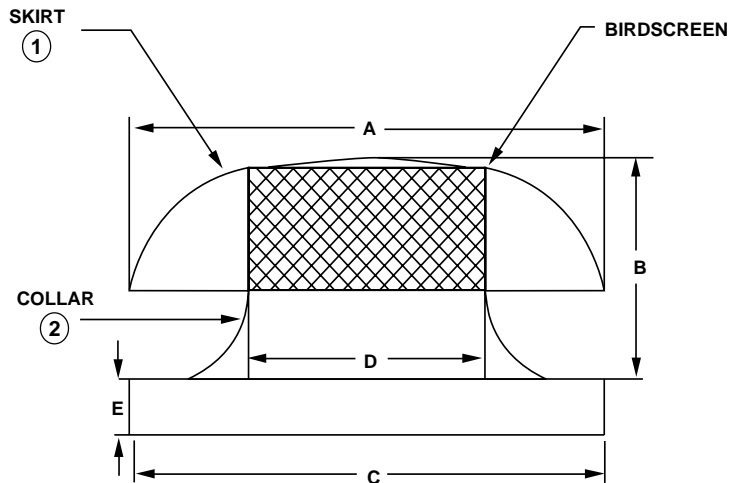
Model	Housing							Outlet Duct			Grill		TDA Panel		
	A	B	C	D	E	E'	F	G	H	J	K	L	X	Y	Z
TCF 5,6	12 1/2	9 1/8	16	9 1/8	1 1/4	1 1/4	5 3/8	10	3 1/4	3/4	11	13 3/4	10	6	1 5/8
TCF 8	13 7/8	11 3/8	17 3/8	11 3/8	1 7/8	4	5 1/4	8	6	3/4	13 1/4	14 7/8	10	8	1 9/16
TCF 10	18	14 1/8	21 1/2	14 1/8	3 5/8	6 3/8	8	8	6	3/4	15 1/2	19 3/8	14	10	2
TCF 12,101,121	24	14 1/8	27 1/2	14 1/8	1	1	8	22	6	3/4	15 1/2	25	20	10	2

Fan Specifications									Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____	Submitted: _____
Customer: _____	Approved: _____
Location: _____	

TRGV Round Gravity Ventilator



Standard Features

- Heavy gauge aluminum construction.
- Galvanized bird screen.
- One-piece curb cap with spun inlet for maximum efficiency.
- Shipped assembled for ease of installation.

See pages 34-35 of Booklet TF-1003, October 2003, for complete fan performance specifications.

Size	Neck Area Sq Ft	Dimensions (Inches)					Mat'l Gauge		Est. Wt	Nominal Damper Size
		A	B	C	D	E	1	2		
8	.39	22	8	16 1/2	8 1/2	2	.063	.050	10	8 X 8
10	.59	22	8	16 1/2	10 1/2	2	.063	.050	15	10 X 10
12	.85	22	8 3/8	24	12 1/2	2	.063	.050	24	12 X 12
15	1.23	22	8 3/8	24	15	2	.063	.050	24	12 X 12
18	1.89	32 3/4	12 1/2	29 1/2	18 5/8	2	.063	.063	35	18 X 18
20	2.18	32 3/4	12 1/2	29 1/2	20	2	.063	.063	35	18 X 18
24	3.30	32 3/4	12 1/2	35 1/2	24 5/8	2	.063	.063	57	24 X 24
26	3.69	43 3/4	17 3/8	35 1/2	26	2	.063	.063	57	24 X 24
30	5.16	43 3/4	17 3/8	42 1/2	30 3/4		.063	.070	75	34 X 34
33	5.94	54 3/4	17 3/8	42 1/2	33	2	.080	.080	75	34 X 34
36	7.06	54 3/4	17 3/8	42 1/2	36	2	.080	.080	90	34 X 34

Vent Specifications

Line	Qty	Model No.	Tag	CFM	SP
1					
2					
3					
4					
5					

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

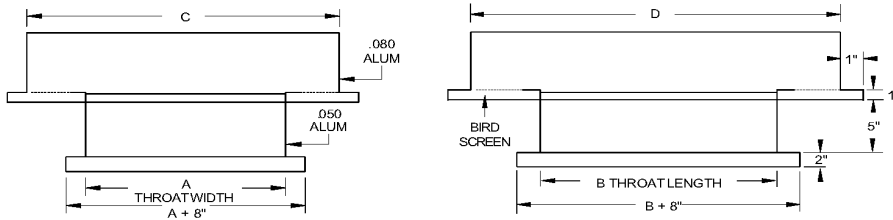
Project: _____ Submitted: _____
Customer: _____ Approved: _____
Location: _____

TGV Gravity-Relief/Intake Ventilators

Standard Features

- Base of .080" aluminum.
- Hood of .050" aluminum reinforced and braced for extra rigidity and resistance to wind load.
- 1/2" square galvanized mesh bird screen.
- Stainless steel fasteners.
- Curb cap of .050" aluminum with fully welded seams for water tightness.
- Hood perimeter full 360° opening for more reliable airflow.

See pages 36-41 of Booklet TF-1003, October 2003, for complete fan performance specifications.



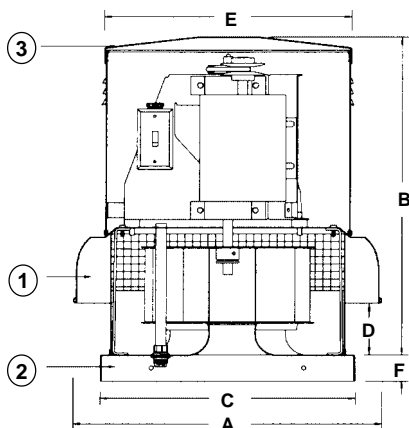
Specifications and Dimensions							
Reference	Qty	Throat Width B	Throat Length C	Hood Width D	Hood Length E	Hood Height 1	Options

Vent Specifications					
Line	Qty	Model No.	Tag	CFM	SP
1					
2					
3					
4					
5					

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

TBD - Belt-Drive Downblast Centrifugal Roof Ventilator



Fantech certifies that the TBD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

See pages 4-5 of Booklet TF-1003, October 2003, for complete fan performance specifications.



Model TBD is listed for electrical compliance - UL705 and c/UL705 Canada.

Standard Features

- All aluminum exterior construction.
- Stainless steel exterior fasteners.
- Ventilated motor compartment.
- Pre-punched curb cap with welded corners.
- Aluminum non-overloading wheel.
- Adjustable V-Belt drive.
- Motor & drives factory mounted.
- Mounted service disconnect.
- Pillow block ball bearings (L50 = 200K) with lube fittings.
- Internal wiring chase.
- Aluminum birdscreen and windband.
- Neoprene vibration isolators.
- AMCA Licensed Sound and Air performance.

Fan Size	Dimensions (Inches)								Damper OD	Min. Metal Thickness (ALUM)			MAX WT.
	A	B	C	D	E	F	G	H		SKIRT ①	CURB CAP ②	LID COVER③	
6-8-9	20 ½	21	16 ½	3 ½	16 ¼	1 ¾	15	12	11	.063	.050	.050	43
11	28 ⅜	26 ½	24	3	22 ¼	2	22 ½	19 ½	18				70
12	28 ⅜	26 ½	24	3 ¾	22 ¼	2	22 ½	19 ½	18				70
14	28 ⅜	26 ½	24	3 ¼	22 ¼	2	22 ½	19 ½	18				70
16	32 ¼	29 ½	24	6	26 ¼	2 ½	22 ½	19 ½	18	.080	.080		79
18	32 ¼	28 ½	29 ½	4 ⅝	26 ¼	2 ½	28	24 ¾	24				96
20	36 ¾	28 ⅝	29 ½	4 ⅞	26 ¼	2 ½	28	24 ¾	24				98
24	41 ¼	35	35 ¾	8	30	2 ½	34	30 ¾	30	.090			155
30	58 ⅜	42 ½	42 ½	5 ⅝	41	2 ½	41	37 ¾	36				265
36	58 ⅜	47 ¼	42 ½	10	41	2 ½	41	37 ¾	36	.100	.090		275
42	73	49 ¼	55	9 ¾	54 ⅝	2 ½	53 ½	50 ¼	48				425
48	73	51 ½	55	11 ¾	54 ⅝	2 ½	53 ½	50 ¼	48				550

A. Skirt OD (Dia).
 B. Height.
 C. Curb Cap OD.
 D. Skirt Height.

E. Motor Cover OD (Dia).
 F. Curb Cap Flange.
 G. Recommended Roof Curb OD (allows 3/4" for flashing).
 H. Recommended Roof Opening.

DIMENSIONS REPRESENT GENERAL CONSTRUCTION AND MAY VARY SLIGHTLY. CONTACT FACTORY FOR CERTIFIED DRAWINGS.

Fan Specifications									Motor Specifications				
Line	Quan.	Model No.	Tag	C F M	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					
<input type="checkbox"/>						<input type="checkbox"/>					

Project: _____ Submitted: _____
 Customer: _____ Approved: _____
 Location: _____

TurboFlo Series Products



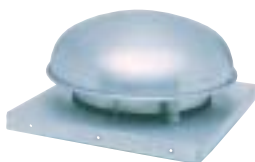
TBD

Downdraft Belt Drive Fans
Up to 29,000cfm
pg. 4-5



TDD

Downdraft Direct Drive Fans
Up to 3,000cfm
pg. 6-7



FDD

Downblast Direct Drive
Centrifugal Roof Ventilator
pg. 8-9



TBU

Upblast Belt Drive Fans
Up to 16,000cfm
pg. 12-13



TDW

Wallmount Direct Drive Fans
Up to 26,000cfm
pg. 14-15



TARE

Exhaust and Supply
Roof Mounts
pg. 16-17



TBDA

Downblast Belt Driven Axial
Up to 25,000cfm
pg. 18-19



TBUA

Upblast Belt Drive Fans
pg. 20-21



TBS

Belt Drive Supply Fans
Up to 7,100cfm
pg. 22-24



FADE

Direct Drive Axial Fans
Up to 8,000cfm
pg. 26-27

Fantech
TurboFlo Fans
Distributed by:



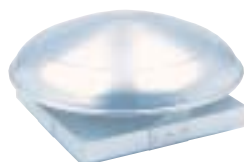
TABE

Belt Drive Axial Fans
Up to 21,000cfm
pg. 28-29



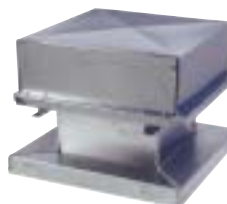
TCF

Ceiling Mounted Centrifugal
Exhaust Fans
pg. 32-33



TRGV

Round Gravity Ventilators
pg. 34-35



TGV

Gravity-Relief/Intake
Ventilators
pg. 36-41



THDAB

Belt Drive Heavy Duty
Wall Fans
pg. 30-31