

BDT Tubeaxial Duct Fans

Belt Drive

Catalog BDT 01-July 2007



The World's Leading Producer of
Air Movement Products

Soler&Palau
Ventilation Group

COMMERCIAL PRODUCT LINE

Application

Soler & Palau's tubeaxial line offers the widest range of sizes, horsepower and performance in the industry. Models BDT are high capacity tubeaxial fans rated from 1,320 to 59,800 CFM, with static pressure capability up to 1-1/4". They are used to exhaust air from or supply air to such typical commercial and industrial applications as general building ventilation, enclosed garages, paint spray booths, heat and smoke ventilation systems and other applications where air is moved through a duct system against moderate static pressure.

Model BDT - Belt drive Models BDT are especially suited to handle fumes, vapors, steam, dust, smoke and contaminated or heated air to 200° F. They are available in larger, higher capacity sizes and offer ease in adjustment of fan performance by reducing the fan RPM with adjustable motor sheaves. (Optional on 5HP and larger).

Total access to the bearings and shaft is possible with the BDT's unique removable cover. This cover can be removed for optimum performance when clean and untempered air is present.

Construction/Specification Checklist

Fan Housing

- Heavy-gauge rolled steel construction.
- Rolled steel flange reinforcement on each end.
- Continuous welded seams.
- Belt and bearing enclosure (Model BDT Only).
- Removable belt and bearing cover for ease of maintenance (Model BDT Only).

Propeller (size 12 - 21)

- Die formed steel blades.
- Steel hub plate/bushing.
- Heavy-duty construction.
- Statically and dynamically balanced.
- Aluminum blades are optional.

Propeller (BDT size 24 - 54)

- Three, four or six wing airfoil aluminum or heavy-gauge steel blades.
- Steel or aluminum hub plate with steel taper lock bushing.
- Blades are pitched for optimum efficiency.
- Statically balanced (Model BDT).

Drives (Model BDT)

- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Multiple belt fixed pitch sheaves through 15HP.
- Adjustable pitch sheaves are optional above 3HP.
- Adjustable tension rods for belt adjustment.
- Nonstatic oil resistant v-belts.
- Keyed, turned, ground and polished shafts with an anti-rust coating.

Bearings (Model BDT)

- Bearings are designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed and prelubricated.

Motors

- One year motor warranty.
- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- Premium-efficiency, explosion proof, totally enclosed fan cooled (TEFC) and corrosion duty motors can be specified.

Entire Fan Unit

- Factory assembled and tested prior to shipment for quality assurance.

Options/Accessories

Pedestal Base: Supports fan for vertical or horizontal mounting.

Ceiling Brackets: For suspending fan in ceiling mounted installations. Hanging vibration isolation is available.

Inlet/Outlet Guard: Prevents objects from entering the fan inlet or outlet.

Access Panel: Allows access to interior of fan housing for inspection. Location must be specified.

Companion Flanges: Inlet and/or outlet flanges are available for duct connection.

Disconnect Switch: Nonfused safety disconnect available for all motor sizes and enclosures. Specify prewired if desired. (Wiring not available on explosion proof and two speed motors).

Spark-Resistant Construction: For use in hazardous locations.

Belt Guard: Encloses belt and motor sheave on exterior of fan.

Motor Cover: Protects motor in outdoor applications.

Adjustable Sheave: Can be specified for 5HP and larger units (standard through 3HP).

Shaft Seal: Protects bearings and belts when fan is handling dirty or contaminated air.

cULus Standard 705: Available with all standard motors.

Epoxy Finish: For use in an 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.

Other Finishes: Heresite and polyester resin are also available when special coatings are required.

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.

Model BDT

Inlet/Outlet Guard
Prevents objects from entering the fan inlet or outlet (optional).

Drives
Sized for a minimum 150% of motor horsepower. Drives are variable pitch as standard through 3HP.

Housing
Heavy-gauge rolled steel with continuous welded seam for maximum strength.

Propeller
Steel and aluminum propellers are selected for maximum airflow and low sound.

Certified Ratings
Soler & Palau certifies the ratings shown are based on industry test standards as tested in our certified and licensed laboratory.

Factory Run & Tested
For quality assurance and dependable operation.

Motor
National brands with local service. Standard motors are heavy-duty open drip-proof. Other options available.

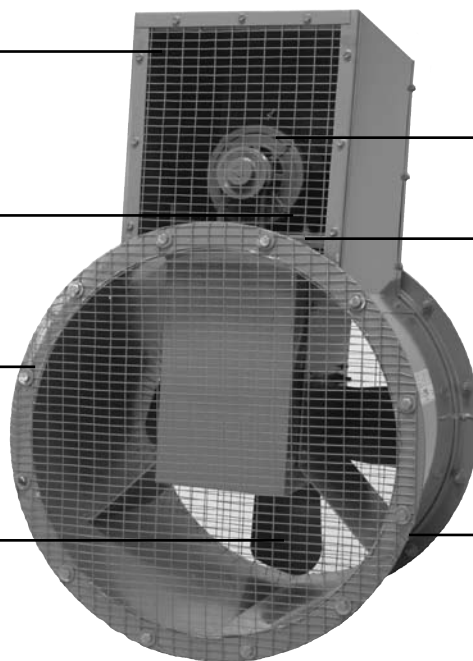
Motor Base
Adjustable steel motor base is designed for strength and ease of belt tensioning.

Bearings
Heavy-duty, ball bearing cast pillow blocks are designed for minimum 200,000 hours of operation, L50.

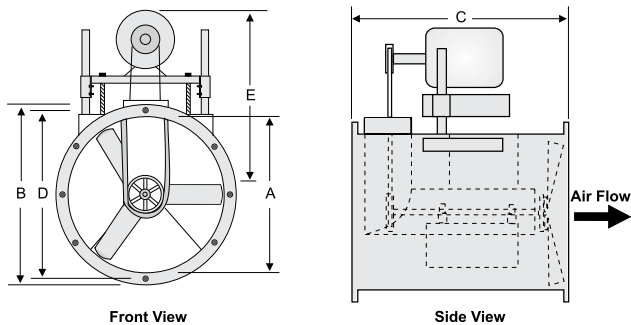
Access Panel
For inspection and servicing. Different positions available (optional).

Certifications
cULus Listed - Standard 705 (optional) available with all standard motors. (Model BDT only)

 **US**
Standard 705
(optional)



Model BDT
Sizes 12 and 16



Max. Motor Frame: 145T
Max. Shaft Diameter: 3/4"
Housing Gauge: 14
Approximate Weight: 12" = 75 lbs.
 16" = 85 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
12	13-1/32	16-3/16	15	15	16
16	17-1/32	20-3/16	19	19	19

A: ID B: OD C: Length D: Flange Hole Center

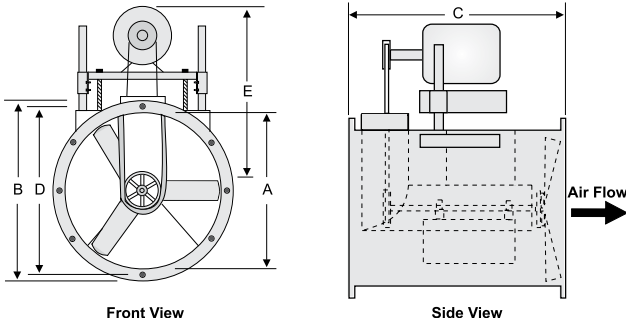
Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-12	1596	1537	1464	1405	1313	-	-	-	-	1/4	2090
	1841	1773	1689	1621	1515	-	-	-	-	1/4	2410
	1810	1759	1685	1610	1535	1410	-	-	-	1/3	2290
	1981	1924	1844	1762	1679	1542	-	-	-	1/3	2505
	2033	1972	1907	1817	1750	1654	1527	-	-	1/2	2412
	2259	2192	2118	2019	1945	1838	1697	-	-	1/2	2680
	2327	2273	2223	2145	2077	2023	1942	-	-	3/4	2763
	2586	2526	2470	2383	2308	2248	2158	-	-	3/4	3070
	2729	2678	2629	2574	2484	2430	2377	2214	-	1	3230
	2873	2819	2767	2709	2615	2558	2503	2331	2096	1	3400

Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-16	2289	2153	1979	1691	1438	-	-	-	-	1/4	1490
	2409	2266	2084	1780	1514	-	-	-	-	1/4	1570
	2677	2518	2316	1978	1682	-	-	-	-	1/4	1750
	2842	2695	2500	2289	1732	-	-	-	-	1/3	1750
	2700	2560	2375	2174	1645	-	-	-	-	1/3	1662
	2771	2582	2385	2138	1784	1471	-	-	-	1/3	1750
	3187	3078	2970	2845	2670	2420	-	-	-	1/2	2084
	3364	3249	3135	3003	2818	2554	-	-	-	1/2	2199
	3541	3420	3300	3162	2967	2689	-	-	-	1/2	2315
	3649	3553	3459	3364	3246	3093	2895	-	-	3/4	2385
	3851	3751	3651	3551	3427	3265	3056	-	-	3/4	2517
	4054	3948	3843	3738	3607	3437	3217	-	-	3/4	2650
	4110	4020	3933	3845	3757	3634	3492	3105	-	1	2681
	4281	4188	4097	4005	3914	3785	3637	3234	-	1	2798
	4459	4363	4267	4172	4077	3943	3789	3369	-	1	2915

Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is steel construction.

**Model BDT
Size 18**

Max. Motor Frame: 145T
Max. Shaft Diameter: 1"
Housing Gauge: 14
Approximate Weight: 110 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized



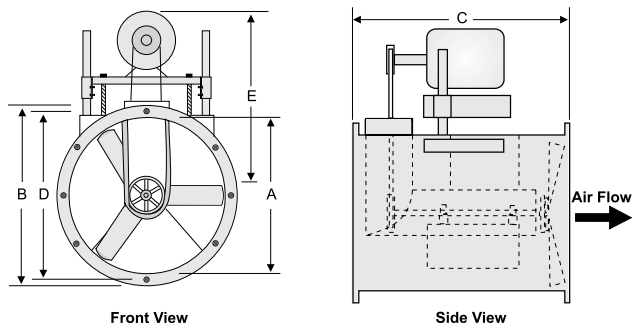
Size	A	B	C	D	E
18	19-1/32	22-3/16	19	20-3/4	21

A: ID B: OD C: Length D: Flange Hole Center

Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-18	3007	2782	2455	1944	1490	-	-	-	-	1/4	1335
	3090	2840	2506	1984	1521	-	-	-	-	1/4	1362
	3133	2898	2557	2025	-	-	-	-	-	1/4	1390
	3244	3033	2796	2398	1952	-	-	-	-	1/3	1469
	3312	3096	2855	2448	1992	-	-	-	-	1/3	1499
	3380	3160	2913	2498	2033	-	-	-	-	1/3	1530
	3580	3391	3254	2989	2636	2261	-	-	-	1/2	1614
	3691	3496	3354	3081	2717	2331	-	-	-	1/2	1647
	3805	3605	3458	3176	2801	2403	-	-	-	1/2	1680
	3922	3716	3565	3275	2888	2477	-	-	-	1/2	1715
	4044	3831	3675	3376	2977	2554	-	-	-	1/2	1750
	4147	3968	3854	3679	3431	3123	2760	2455	-	3/4	1835
	4243	4049	3933	3754	3501	3187	2816	2505	-	3/4	1872
	4329	4132	4013	3831	3573	3252	2874	2556	-	3/4	1911
	4417	4216	4094	3909	3646	3318	2932	2608	-	3/4	1950
	4508	4302	4178	3989	3720	3386	2992	2662	-	3/4	1990
	4599	4408	4303	4200	3995	3763	-	-	-	1	2038
	4689	4498	4392	4286	4077	3840	-	-	-	1	2080
	4784	4589	4481	4374	4160	3918	-	-	-	1	2122
	4881	4683	4573	4463	4245	3998	3708	-	-	1	2165
4981	4779	4666	4554	4332	4080	3784	3416	3019	1	2210	
5654	5516	5395	5119	4912	4695	4478	3388	2603	1 1/2	2181	
5715	5582	5549	5171	4962	4743	4523	3422	2630	1 1/2	2203	
5772	5638	5504	5222	5012	4791	4569	3456	2656	1 1/2	2225	
5830	5695	5560	5276	5063	4839	4615	3492	2683	1 1/2	2247	
5890	5753	5616	5329	5114	4888	4662	3527	2710	1 1/2	2270	

Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is steel construction.

**Model BDT
Size 21**



Max. Motor Frame: 182T
Max. Shaft Diameter: 1"
Housing Gauge: 14
Approximate Weight: 125 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
21	22-1/32	25-3/16	19	23-3/4	23

A: ID B: OD C: Length D: Flange Hole Center

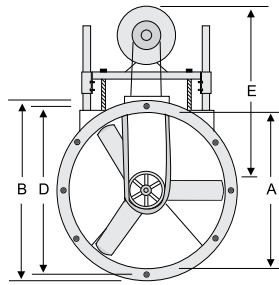
Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-21	3640	3339	2897	2043	-	-	-	-	-	1/4	885
	3753	3443	2986	2106	-	-	-	-	-	1/4	913
	3869	3549	3079	2171	-	-	-	-	-	1/4	941
	3988	3659	3173	2239	1606	-	-	-	-	1/3	970
	4112	3772	3272	2308	1656	-	-	-	-	1/3	1000
	4220	4020	3778	3423	2955	-	-	-	-	1/2	1026
	4442	4232	3977	3603	3111	-	-	-	-	1/2	1080
	4676	4455	4186	3792	3275	-	-	-	-	1/2	1137
	4922	4689	4406	3992	3447	-	-	-	-	1/2	1197
	5181	4936	4638	4202	3628	-	-	-	-	1/2	1260
	5260	5071	4848	4617	4248	-	-	-	-	3/4	1279
	5422	5228	4998	4760	4380	-	-	-	-	3/4	1319
	5590	5390	5152	4907	4514	-	-	-	-	3/4	1360
	5763	5556	5312	5059	4654	-	-	-	-	3/4	1401
	5941	5728	5476	5215	4798	3833	3128	-	-	3/4	1445
	6152	5971	5773	5545	5266	4915	3535	-	-	1	1496
	6278	6093	5891	5658	5373	5016	-	-	-	1	1527
	6406	6217	6011	5774	5483	5118	-	-	-	1	1558
	6537	6344	6134	5892	5595	5222	-	-	-	1	1590
	6902	6746	6590	6398	6208	5982	-	-	-	1 1/2	1679
7043	6884	6724	6528	6335	6104	-	-	-	1 1/2	1713	
7187	7024	6862	6661	6464	6229	5766	-	-	1 1/2	1747	
7333	7168	7001	6797	6596	6356	6029	-	-	1 1/2	1784	
7483	7314	7144	6936	6731	6486	6152	5424	4887	1 1/2	1820	
7857	7680	7501	7283	7068	6810	6460	6128	5690	2	1911	
8231	8045	7859	7630	7404	7134	6767	6420	5961	2	2002	

Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is steel construction.

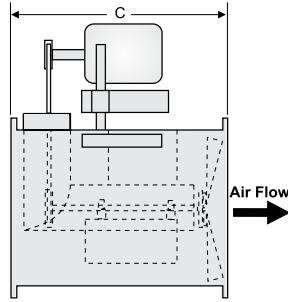




**Model BDT
Size 24**



Front View



Side View

Max. Motor Frame: 215T
Max. Shaft Diameter: 1-3/16"
Housing Gauge: 12
Approximate Weight: 180 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
24	25-1/8	29-1/8	30	27-1/8	33

A: ID B: OD C: Length D: Flange Hole Center

Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-24	4863	4437	4095	3704	-	-	-	-	-	1/3	800
	5320	4853	4479	4052	-	-	-	-	-	1/3	875
	5624	5130	4735	4284	-	-	-	-	-	1/2	925
	5776	5269	4863	4400	-	-	-	-	-	1/2	950
	5928	5408	4991	4516	-	-	-	-	-	1/2	975
	6081	5547	5119	4632	-	-	-	-	-	1/2	1000
	6234	5686	5247	4748	-	-	-	-	-	3/4	1025
	6387	5825	5375	4864	-	-	-	-	-	3/4	1050
	6570	5991	5529	5003	3805	-	-	-	-	3/4	1080
	6692	6102	5632	5096	3875	-	-	-	-	3/4	1100
	6899	6291	5807	5254	3995	-	-	-	-	3/4	1135
	7143	6676	6104	5454	4219	-	-	-	-	1	1175
	7448	7232	6816	6044	5847	5411	5171	-	-	1	1225
	7752	7527	7198	6411	6098	5645	5382	-	-	1	1275
	8086	7852	7508	6905	6675	6102	5614	-	-	1 1/2	1330
	8329	8088	7734	7319	6876	6389	5783	-	-	1 1/2	1370
	8573	8324	7960	7533	7077	6576	5952	-	-	1 1/2	1410
	8824	8568	8193	7753	7284	6768	6126	-	-	1 1/2	1460
	9127	8861	8474	8019	7533	6999	6336	-	-	2	1510
	9462	9238	8977	8625	8253	7863	7437	5323	-	2	1560
9765	9535	9265	8701	8417	8115	7675	6126	-	2	1610	
9864	9632	9359	8991	8603	8197	7753	6592	-	3	1620	
10168	9929	9648	9268	8869	8450	7993	6795	-	3	1670	
10473	10227	9937	9545	9135	8703	8233	7005	-	3	1720	
10778	10525	10226	9823	9401	8957	8473	7209	4050	3	1770	
11083	10823	10515	10101	9667	9211	8713	7431	4165	3	1820	

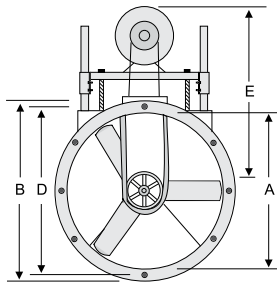
Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is aluminum construction.



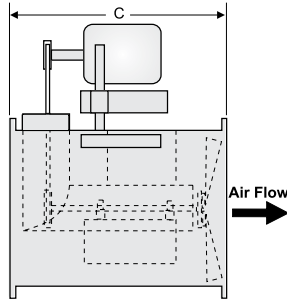


Performance/Dimensional Data - Belt Drive

Model BDT Size 36



Front View



Side View

Max. Motor Frame: 215T
Max. Shaft Diameter: 1-7/16"
Housing Gauge: 12
Approximate Weight: 280 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
36	37-1/8	41-1/8	30	39-5/8	39

A: ID B: OD C: Length D: Flange Hole Center

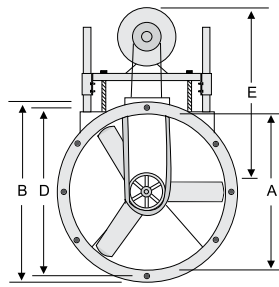
Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-36	11171	10612	9338	7470	-	-	-	-	-	3/4	750
	11916	11320	9962	7969	6175	-	-	-	-	3/4	800
	12289	11674	10273	8218	6574	-	-	-	-	3/4	825
	12490	11990	11031	10224	8179	-	-	-	-	1	850
	12754	12244	11264	10475	8379	-	-	-	-	1	875
	13118	12593	11586	10774	8619	6895	-	-	-	1	900
	13249	12851	12208	11475	10328	8778	-	-	-	1 1/2	935
	13745	13333	12665	11905	10715	9107	7286	-	-	1 1/2	970
	14170	13745	13057	12272	11045	9388	7510	-	-	1 1/2	1000
	14733	14291	13576	12761	11485	9762	7809	-	-	1 1/2	1040
	15919	15441	14668	13935	12820	10256	8205	-	-	2	1070
	16353	15862	15068	14315	13170	10536	8429	-	-	2	1100
	16800	16296	15481	14706	13530	11365	9092	-	-	2	1130
	17245	16727	16058	15255	13882	11660	9328	-	-	3	1160
	17840	17305	16613	15782	14362	12064	9651	-	-	3	1200
	18435	17781	17165	16307	14839	12464	9971	-	-	3	1240
	19030	18459	17721	16835	15319	12867	10293	-	-	3	1280
	20345	19734	18747	17997	16737	15398	13858	11474	-	5	1400
	20919	20291	19276	18505	17209	15832	14249	11798	-	5	1420
	21509	20863	19819	19026	17694	16278	14650	12130	10310	5	1460
22114	21450	20378	19562	18192	16736	15062	12871	10800	5	1501	
22746	22063	20959	20121	18712	17215	15493	13828	11903	5	1530	
24953	24204	23235	22305	21412	19699	17926	16177	15206	7 1/2	1573	
26080	25298	24286	23314	22381	20590	18736	16909	15894	7 1/2	1644	
26493	25698	24670	23683	22735	20916	19033	17177	16146	7 1/2	1670	
27128	26314	25261	24250	23280	21418	19490	17553	16481	7 1/2	1710	

Performance shown for Model BDT is with inlet and outlet ducts.
Standard propeller is aluminum construction.

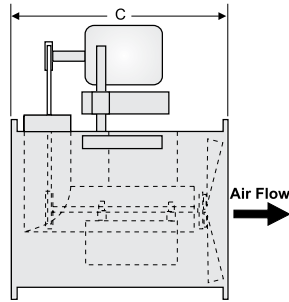




**Model BDT
Size 36**



Front View



Side View

Max. Motor Frame: 215T
Max. Shaft Diameter: 1-7/16"
Housing Gauge: 12
Approximate Weight: 280 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
36	37-1/8	41-1/8	30	39-5/8	39

A: ID B: OD C: Length D: Flange Hole Center

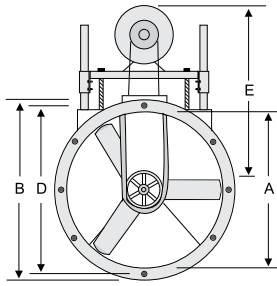
Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-36	11171	10612	9338	7470	-	-	-	-	-	3/4	750
	11916	11320	9962	7969	6175	-	-	-	-	3/4	800
	12289	11674	10273	8218	6574	-	-	-	-	3/4	825
	12490	11990	11031	10224	8179	-	-	-	-	1	850
	12754	12244	11264	10475	8379	-	-	-	-	1	875
	13118	12593	11586	10774	8619	6895	-	-	-	1	900
	13249	12851	12208	11475	10328	8778	-	-	-	1 1/2	935
	13745	13333	12665	11905	10715	9107	7286	-	-	1 1/2	970
	14170	13745	13057	12272	11045	9388	7510	-	-	1 1/2	1000
	14733	14291	13576	12761	11485	9762	7809	-	-	1 1/2	1040
	15919	15441	14668	13935	12820	10256	8205	-	-	2	1070
	16353	15862	15068	14315	13170	10536	8429	-	-	2	1100
	16800	16296	15481	14706	13530	11365	9092	-	-	2	1130
	17245	16727	16058	15255	13882	11660	9328	-	-	3	1160
	17840	17305	16613	15782	14362	12064	9651	-	-	3	1200
	18435	17781	17165	16307	14839	12464	9971	-	-	3	1240
	19030	18459	17721	16835	15319	12867	10293	-	-	3	1280
	20345	19734	18747	17997	16737	15398	13858	11474	-	5	1400
	20919	20291	19276	18505	17209	15832	14249	11798	-	5	1420
	21509	20863	19819	19026	17694	16278	14650	12130	10310	5	1460
22114	21450	20378	19562	18192	16736	15062	12871	10800	5	1501	
22746	22063	20959	20121	18712	17215	15493	13828	11903	5	1530	
24953	24204	23235	22305	21412	19699	17926	16177	15206	7 1/2	1573	
26080	25298	24286	23314	22381	20590	18736	16909	15894	7 1/2	1644	
26493	25698	24670	23683	22735	20916	19033	17177	16146	7 1/2	1670	
27128	26314	25261	24250	23280	21418	19490	17553	16481	7 1/2	1710	

Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is aluminum construction.

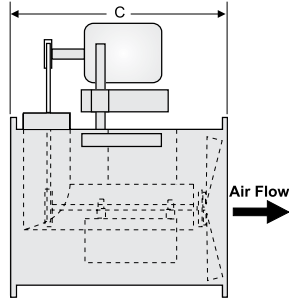




**Model BDT
Size 48**



Front View



Side View

Max. Motor Frame: 254T
Max. Shaft Diameter: 1-7/16"
Housing Gauge: 10
Approximate Weight: 500 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
48	49-1/8	53-1/8	32	51-1/8	45

A: ID B: OD C: Length D: Flange Hole Center

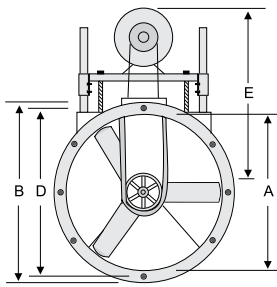
Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-48	19159	16924	13761	-	-	-	-	-	-	1 1/2	415
	21221	17448	14409	-	-	-	-	-	-	1 1/2	440
	21779	17987	15089	-	-	-	-	-	-	1 1/2	465
	22338	19544	15800	13114	-	-	-	-	-	1 1/2	495
	25968	23705	18443	15306	-	-	-	-	-	2	525
	26772	24438	19211	15944	-	-	-	-	-	2	550
	27600	25194	20012	16609	13187	-	-	-	-	2	580
	28505	26023	21207	18129	14300	-	-	-	-	3	605
	29377	26819	21984	19197	14896	-	-	-	-	3	630
	30248	27614	22761	19997	15517	-	-	-	-	3	655
	31120	28410	23538	20831	16164	-	-	-	-	3	680
	32578	29819	24843	22461	17975	17041	13835	-	-	5	720
	33598	31024	27061	24008	19553	18690	14717	-	-	5	760
	34460	32087	28336	25555	21132	19990	15657	-	-	5	800
	35343	33009	29672	27103	22711	21042	16656	-	-	5	840
	36250	34103	31070	28650	24290	22150	17720	-	-	5	880
	37530	35619	32679	30011	25857	24140	19904	16704	-	7 1/2	900
	38492	36721	34054	31373	27433	25410	21174	17770	-	7 1/2	925
	39479	37857	35428	32734	29009	26748	22526	18904	-	7 1/2	945
	40491	39027	36802	34096	30585	28156	23964	20113	15466	7 1/2	968
41530	40235	38177	35458	32161	29638	25494	21395	17185	7 1/2	990	
42751	41158	39349	36363	33359	30962	26968	23164	18158	10	1010	
43624	41956	40204	37418	34672	32180	28489	24383	19237	10	1030	
44514	42755	41060	38473	35985	33399	30009	25667	20316	10	1050	
45423	43554	41915	39528	37298	34617	31529	27018	21395	10	1070	
46350	44352	42771	40584	38611	35836	33050	28440	22474	10	1090	

Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is aluminum construction.

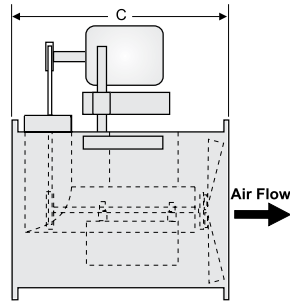




**Model BDT
Size 48**



Front View



Side View

Max. Motor Frame: 254T
Max. Shaft Diameter: 1-7/16"
Housing Gauge: 10
Approximate Weight: 500 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
48	49-1/8	53-1/8	32	51-1/8	45

A: ID B: OD C: Length D: Flange Hole Center

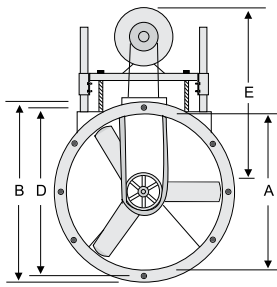
Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-48	19159	16924	13761	-	-	-	-	-	-	1 1/2	415
	21221	17448	14409	-	-	-	-	-	-	1 1/2	440
	21779	17987	15089	-	-	-	-	-	-	1 1/2	465
	22338	19544	15800	13114	-	-	-	-	-	1 1/2	495
	25968	23705	18443	15306	-	-	-	-	-	2	525
	26772	24438	19211	15944	-	-	-	-	-	2	550
	27600	25194	20012	16609	13187	-	-	-	-	2	580
	28505	26023	21207	18129	14300	-	-	-	-	3	605
	29377	26819	21984	19197	14896	-	-	-	-	3	630
	30248	27614	22761	19997	15517	-	-	-	-	3	655
	31120	28410	23538	20831	16164	-	-	-	-	3	680
	32578	29819	24843	22461	17975	17041	13835	-	-	5	720
	33598	31024	27061	24008	19553	18690	14717	-	-	5	760
	34460	32087	28336	25555	21132	19990	15657	-	-	5	800
	35343	33009	29672	27103	22711	21042	16656	-	-	5	840
	36250	34103	31070	28650	24290	22150	17720	-	-	5	880
	37530	35619	32679	30011	25857	24140	19904	16704	-	7 1/2	900
	38492	36721	34054	31373	27433	25410	21174	17770	-	7 1/2	925
	39479	37857	35428	32734	29009	26748	22526	18904	-	7 1/2	945
	40491	39027	36802	34096	30585	28156	23964	20113	15466	7 1/2	968
41530	40235	38177	35458	32161	29638	25494	21395	17185	7 1/2	990	
42751	41158	39349	36363	33359	30962	26968	23164	18158	10	1010	
43624	41956	40204	37418	34672	32180	28489	24383	19237	10	1030	
44514	42755	41060	38473	35985	33399	30009	25667	20316	10	1050	
45423	43554	41915	39528	37298	34617	31529	27018	21395	10	1070	
46350	44352	42771	40584	38611	35836	33050	28440	22474	10	1090	

Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is aluminum construction.

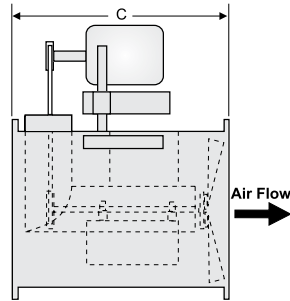


Standard 705
(optional)

**Model BDT
Size 54**



Front View



Side View

Max. Motor Frame: 256T
Max. Shaft Diameter: 2-3/16"
Housing Gauge: 10
Approximate Weight: 800 lbs.
Flange Holes: 8
Diameter Flange Holes: 1/2"
Finish: Galvanized

Size	A	B	C	D	E
54	55-1/8	59-1/8	32	57-1/8	48

A: ID B: OD C: Length D: Flange Hole Center

Model	CFM / BHP @ Static Pressure									HP	RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4		
BDT-54	27094	22496	17996	-	-	-	-	-	-	1 1/2	465
	28520	23680	18944	-	-	-	-	-	-	1 1/2	485
	29415	24916	19932	-	-	-	-	-	-	2	505
	30307	26117	20893	-	-	-	-	-	-	2	520
	31200	27320	21411	-	-	-	-	-	-	2	540
	32210	28525	22652	16762	-	-	-	-	-	3	560
	33157	29726	23891	19351	-	-	-	-	-	3	580
	34104	30928	25130	21612	-	-	-	-	-	3	600
	35050	32130	26370	19255	-	-	-	-	-	3	620
	36288	33660	28611	24319	20671	-	-	-	-	5	640
	37516	35190	30967	26321	22373	-	-	-	-	5	665
	38744	36720	32313	27566	23431	-	-	-	-	5	685
	39972	38250	34807	29585	23668	-	-	-	-	5	705
	41200	39780	35451	30130	25120	-	-	-	-	5	730
	41713	41085	36971	31947	26989	22131	-	-	-	7 1/2	750
	43050	42583	38491	33767	28856	23661	-	-	-	7 1/2	770
	44386	43982	40010	35587	30724	25193	-	-	-	7 1/2	790
	45723	45381	41530	37408	32592	26725	-	-	-	7 1/2	810
	47060	46780	43050	39228	34460	28720	21703	-	-	7 1/2	830
	48282	47884	44271	40566	35998	30272	22608	-	-	10	850
49494	48970	45484	41897	37526	31809	23550	-	-	10	870	
50705	50057	46698	43228	39055	33346	27300	-	-	10	890	
51916	51143	47916	44559	40584	34883	58737	-	-	10	910	
53128	52230	49125	45890	42116	36420	30250	-	-	10	930	
55850	54580	52920	51150	49180	47010	44820	39430	-	15	990	
59870	58710	57160	55600	53820	51875	49930	45370	39900	15	1061	

Performance shown for Model BDT is with inlet and outlet ducts.
 Standard propeller is aluminum construction.

