



**AmeriCRAFT**  
**MANUFACTURING CO. INC.**  
**INDUSTRIAL VENTILATING & EXHAUST FANS**

# Tube Axial Duct Fans

## MODEL B – TUBE AXIAL DUCT FAN – BELT DRIVE

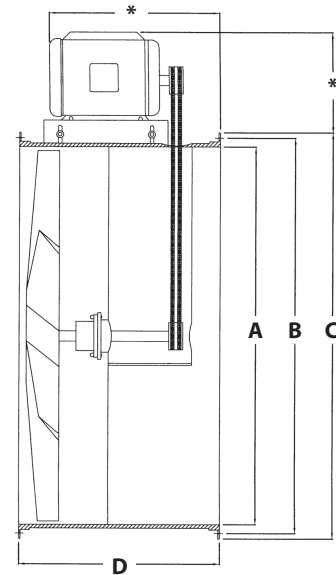
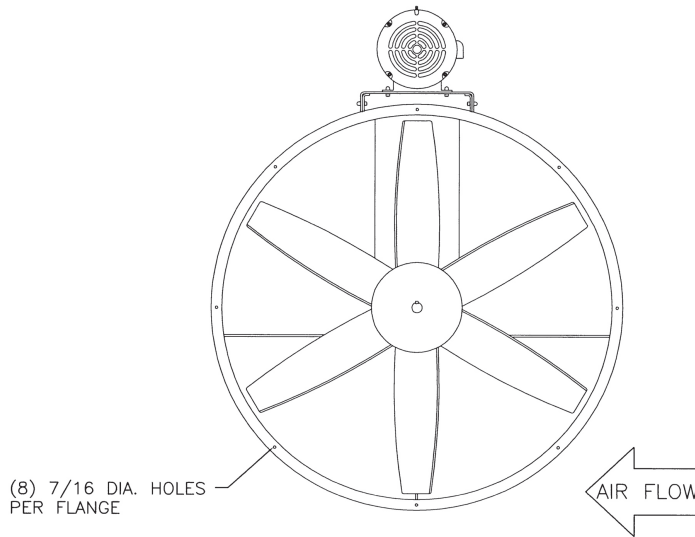


### APPLICATION

Designed to handle clean dry air to a maximum of 180°F. Ideally suited for removal of fumes in paint spray booths, smoke removal from welding operations or supply air for air make-up systems.

### FEATURES AND BENEFITS

- Long-life maintenance free sealed for life fan bearings.
- Spark-resistant heavy duty cast aluminum propellers.
- Adjustable motor base allows for proper belt tension for maximum belt life.
- Pulleys are rugged cast iron or turned steel.
- Motors are high quality industrial grade available in single or three phase - totally enclosed or explosion proof.



*\*Dimensions vary with motor.*

### DIMENSIONS (subject to change without notice)

MODEL	A	B	C	D	HP
B-12	12"	13 1/8"	14"	12"	1/4-3/4
B-15	15"	16 1/8"	17"	12"	1/4-3/4
B-18	18"	19 1/8"	20"	12"	1/4-1 1/2
B-24	24"	25 3/4"	27"	12"	1/2-1
B-24	24"	25 3/4"	27"	16"	1-3
B-27	27"	28 3/4"	30"	16"	3/4-2
B-30	30"	31 3/4"	33"	16"	1/2-5
B-34	34"	35 3/4"	37"	16"	1 1/2-5
B-36	36"	37 7/8"	39"	18"	3-5
B-42	42"	43 9/16"	45"	18"	1 1/2-5

## MODEL B – TUBE AXIAL DUCT FAN – BELT DRIVE PERFORMANCE DATA

Blade Dia.	Model	Prop	HP	RPM	Free Air	CAPACITY C.F.M.						
						1/8" SP	1/4" SP	3/8" SP	1/2" SP	3/4" SP	1" SP	1-1/4" SP
12"	B-12-1/4	CA101	1/4	2625	1444	1307	1033	638	380	---	---	---
	B-12-1/3	CA101	1/3	2875	1586	1436	1135	700	415	---	---	---
	B-12-1/2	CA101	1/2	3450	1875	1650	1400	1320	1250	1100	660	---
	B-12-3/4	CA102	3/4	3450	2044	1960	1920	1820	1650	1500	1100	---
15"	B-15-1/4	CA103	1/4	2000	2600	2100	1700	---	---	---	---	---
	B-15-1/3	CA103	1/3	2200	2950	2500	2100	1760	1000	---	---	---
	B-15-1/2	CA264	1/2	1890	3350	3000	2650	2200	1500	---	---	---
	B-15-3/4	CA264	3/4	2200	3900	3700	3400	3100	2700	1150	---	---
18"	B-18-1/4	CA235	1/4	1600	3050	2500	2000	1200	---	---	---	---
	B-18-1/3	CA235	1/3	1725	3375	3000	2600	2000	1400	---	---	---
	B-18-1/2	CA235	1/2	1890	3850	3500	3100	2500	2000	---	---	---
	B-18-1	CA107	1	1725	4600	4375	4080	3600	3000	2100	1550	---
24"	B-18-1 1/2	CA107	1 1/2	1990	5350	5060	4830	4550	3950	3000	2500	---
	B-24-1/2	CA144	1/2	1298	5643	5320	4826	4440	3500	---	---	---
	B-24-3/4	CA144	3/4	1600	6906	6510	5900	5440	4650	2750	---	---
	B-24-1	CA144	1	1725	7425	7000	6350	5850	5000	3300	1775	---
	BPR-24-1	CA196	1	1357	7450	7100	6650	5950	5200	3000	---	---
	BPR-24-1 1/2	CA196	1 1/2	1540	8200	7900	7650	7280	6850	5500	---	---
	BPR-24-2	CA196	2	1680	9600	9250	8940	8655	8250	7300	4800	---
	B-24-2	CA191	2	1600	9760	9114	8830	8460	8090	7000	4400	---
27"	B-24-3	CA191	3	1725	10500	9800	9500	9100	8700	7800	5000	3600
	BPR-27-3/4	CA111	3/4	1250	8330	7814	7550	7070	6500	4650	---	---
	BPR-27-1	CA111	1	1400	9400	8675	8480	7950	7300	5200	---	---
	BPR-27-1 1/2	CA111	1 1/2	1600	10700	10250	9700	9080	8375	6000	2500	---
30"	BPR-27-2	CA152	2	1350	11500	11200	10700	10000	9300	8000	5200	---
	B-30-1/2	CA167	1/2	1300	8900	7925	6660	4270	2300	---	---	---
	B-30-1	CA113	1	1298	9897	8970	7980	6050	4120	---	---	---
	BPR-30-1 1/2	CA115	1 1/2	1035	11100	10600	9700	8600	7500	3500	---	---
	BPR-30-2	CA115	2	1176	12100	11660	11000	10121	9322	6700	---	---
	B-30-3	CA115	3	1350	13480	12982	12498	12042	11465	10380	9470	7500
34"	B-30-5	CA115	5	1650	16440	15832	15242	14686	13982	12659	11550	9200
	B-34-1 1/2	CA128	1 1/2	1170	13695	12400	11100	8365	6000	1015	---	---
	B-34-2	CA190	2	1027	14657	13652	12590	11500	10000	8000	---	---
	B-34-3	CA190	3	1175	17580	16750	15896	14600	14095	12000	9500	---
36"	B-34-5	CA190	5	1416	20500	19800	19000	18325	17500	16000	14200	12250
	BPR-36-3	CA198	3	930	17500	16800	15900	14740	14100	12200	---	---
	BPR-36-5	CA198	5	1100	20600	19950	19200	18500	17800	16020	14300	---
42"	BPR-42-1 1/2	CA119	1 1/2	750	18960	17000	14662	11700	7200	---	---	---
	BPR-42-2	CA119	2	820	20700	18900	17002	14700	11400	4000	---	---
	BPR-42-3	CA119	3	890	23700	22100	20200	18960	16970	9950	3600	---
	BPR-42-5	CA199	5	850	26900	25600	24403	23450	22250	18400	13900	---

### OPTIONAL ACCESSORIES

- Belt guard
- Combination motor cover/belt guard
- Companion flanges
- Horizontal support legs
- Horizontal or vertical support brackets
- Inlet or outlet guards – OSHA Compliant
- Inspection door

# Tube Axial Duct Fans

## MODEL BCS – TUBE AXIAL DUCT FAN – BELT DRIVE

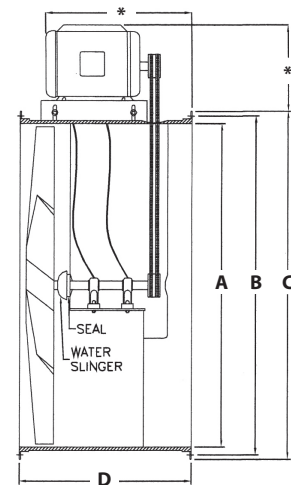
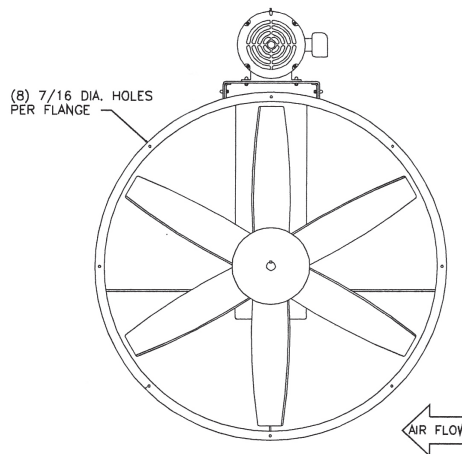


### APPLICATION

Designed for use in high moisture or contaminated airstreams. Ideally suited for use on industrial parts washers for excess water vapor removal. Suitable for use in dry-off ovens, kilns and low temperature furnaces to 375°F with the addition of high temperature package.

### FEATURES AND BENEFITS

- Bearings located in a sealed watertight chamber and protected by a water slinger and shaft seal.
- Standard propellers are cast aluminum; carbon steel and stainless steel propellers also available.
- Standard construction suitable to 225°F and up to 375°F with high temperature package. Fabricated steel propeller is standard above 275°F.
- Available in 304 or 316 stainless steel construction for harsh or contaminated environments.
- Adjustable motor base allows for proper belt tension for maximum belt life.
- Pulleys are rugged cast iron or turned steel.
- Motors are high quality industrial grade available in single or three phase - totally enclosed or explosion proof.



\*Dimensions vary with motor.

### DIMENSIONS (subject to change without notice)

MODEL	A	B	C	D	HP
B-12-CS	12"	13 1/8"	14"	18"	1/2-3/4
B-15-CS	15"	16 1/8"	17"	18"	3/4-1
B-18-CS	18"	19 1/8"	20"	18"	1/2-1 1/2
B-24-CS	24"	25 3/4"	27"	18"	1/2-5
B-27-CS	27"	28 3/4"	30"	18"	3/4-3
B-30-CS	30"	31 3/4"	33"	18"	1 1/2-5

MODEL	A	B	C	D	HP
B-34-CS	34"	35 3/4"	37"	18"	2-5
B-36-CS	36"	37 7/8"	39"	18"	3-7 1/2
B-42-CS	42"	43 9/16"	45"	22"	2-10
B-48-CS	48"	49 5/8"	51"	24"	5-10
B-60-CS	60"	61 5/8"	63"	30"	5-10

## MODEL BCS – TUBE AXIAL DUCT FAN – BELT DRIVE PERFORMANCE DATA

Blade Dia.	Model	Prop	HP	RPM	Free Air	CAPACITY C.F.M.							
						1/8" SP	1/4" SP	3/8" SP	1/2" SP	3/4" SP	1" SP	1-1/4" SP	1-1/2" SP
12"	B-12-1/2-CS	CA101	1/2	3450	1875	1650	1400	1320	1250	1100	660	---	---
	B-12-3/4-CS	CA102	3/4	3450	2044	1960	1920	1820	1650	1500	1100	---	---
15"	B-15-3/4-CS	CA264	3/4	2200	3900	3700	3400	3100	2700	1150	---	---	---
	B-15-1-CS	CA264	1	2400	4250	4000	3700	3375	2950	1250	---	---	---
18"	B-18-1/2-CS	CA235	1/2	1890	3850	3500	3100	2500	2000	---	---	---	---
	B-18-1-CS	CA107	1	1725	4600	4375	4080	3600	3000	2100	1550	---	---
	B-18-1 1/2-CS	CA107	1 1/2	1990	5350	5060	4830	4550	3950	3000	2500	---	---
24"	B-24-1/2-CS	CA144	1/2	1298	5643	5320	4826	4440	3500	---	---	---	---
	B-24-3/4-CS	CA144	3/4	1600	6906	6510	5900	5440	4650	2750	---	---	---
	B-24-1-CS	CA144	1	1725	7425	7000	6350	5850	5000	3300	1775	---	---
	BPR-24-1-CS	CA196	1	1357	7450	7100	6650	5950	5200	3000	---	---	---
	BPR-24-1 1/2-CS	CA196	1 1/2	1540	8200	7900	7650	7280	6850	5500	---	---	---
	BPR-24-2-CS	CA196	2	1680	9600	9250	8940	8655	8250	7300	4800	---	---
	B-24-2-CS	CA191	2	1600	9760	9114	8830	8460	8090	7000	4400	---	---
	B-24-3-CS	CA191	3	1725	10500	9800	9500	9100	8700	7800	5000	3600	2000
B-24-5-CS	CA191	5	1920	11400	10600	10350	9900	9475	8500	7200	6000	5000	
27"	BPR-27-3/4-CS	CA111	3/4	1250	8330	7814	7550	7070	6500	4650	---	---	---
	BPR-27-1-CS	CA111	1	1400	9400	8675	8480	7950	7300	5200	---	---	---
	BPR-27-1 1/2-CS	CA111	1 1/2	1600	10700	10250	9700	9080	8375	6000	2500	---	---
	BPR-27-2-CS	CA152	2	1350	11500	11200	10700	10000	9300	8000	5200	---	---
B-27-3-CS	CA152	3	1600	13480	12900	12222	11440	10552	8200	6200	4000	---	
30"	BPR-30-1 1/2-CS	CA115	1 1/2	1035	11100	10600	9700	8600	7500	3500	---	---	---
	BPR-30-2-CS	CA115	2	1176	12100	11660	11000	10121	9322	6700	---	---	---
	B-30-3-CS	CA115	3	1350	13480	12982	12498	12042	11465	10380	9470	7500	---
B-30-5-CS	CA115	5	1650	16440	15832	15242	14686	13982	12659	11550	9200	---	
34"	B-34-2-CS	CA190	2	1027	14657	13652	12590	11500	10000	8000	---	---	---
	B-34-3-CS	CA190	3	1175	17580	16750	15896	14600	14095	12000	9500	---	---
	B-34-5-CS	CA190	5	1416	20500	19800	19000	18325	17500	16000	14200	12250	---
36"	BPR-36-3-CS	CA198	3	930	17500	16800	15900	14740	14100	12200	---	---	---
	BPR-36-5-CS	CA198	5	1100	20600	19950	19200	18500	17800	16020	14300	---	---
BPR-36-7 1/2-CS	CA198	7 1/2	1250	22500	21900	21200	20750	20050	19008	17000	15200	---	
42"	BPR-42-2-CS	CA119	2	820	20700	18900	17002	14700	11400	4000	---	---	---
	BPR-42-3-CS	CA119	3	890	23700	22100	20200	18960	16970	9950	3600	---	---
	BPR-42-5-CS	CA199	5	850	26900	25600	24403	23450	22250	18400	13900	---	---
	BPR-42-7 1/2-CS	CA199	7 1/2	960	30800	29600	28500	27400	26200	23500	20500	16500	---
BPR-42-10-CS	CA199	10	1075	33300	32500	31500	30300	29500	27400	25100	22000	18000	
BPR-48-5-CS	CA195	5	800	33000	31000	29400	27500	25670	20700	---	---	---	
48"	BPR-48-7 1/2-CS	CA195	7 1/2	900	37500	35900	34500	32800	31200	27700	23000	---	---
	BPR-48-10-CS	CA195	10	1000	41200	39700	38300	36900	35400	32400	29000	24400	---
BPR-60-5-CS	CA143	5	690	45000	40800	36000	32150	26000	---	---	---	---	
60"	BPR-60-7 1/2-CS	CA227	7 1/2	690	51000	49500	47250	43500	39375	30750	21375	16875	12000
	BPR-60-10-CS	CA227	10	783	54000	51900	49000	46300	43200	36000	27000	---	---

### OPTIONAL ACCESSORIES

- Belt guard
- Combination motor cover/belt guard
- Companion flanges
- Horizontal support legs
- Horizontal or vertical support brackets
- Inlet or outlet guards – OSHA compliant
- Inspection door
- Epoxy or urethane coatings
- Adjustable pitch motor pulley
- Continuously welded flanges



# Tube Axial Duct Fans

## MODEL DF – TUBE AXIAL DUCT FAN – DIRECT DRIVE



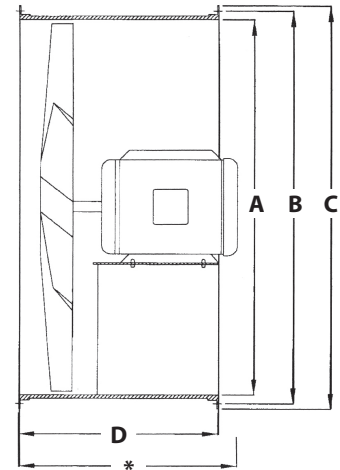
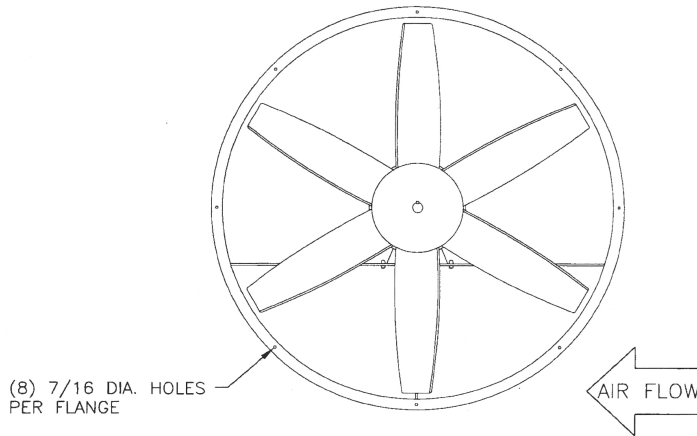
### APPLICATION

Designed for use in dry maximum 104°F environments to economically remove fumes, dust or smoke. Suitable for use in the following applications:

- air make-up systems where motor must be located in the airstream
- hazardous locations when equipped with explosion proof motor
- harsh, dry environments when equipped with mill and chemical duty motors and special coating.

### FEATURES AND BENEFITS

- Standard propellers are non-sparking cast aluminum.
- Fan housing is all welded, heavy gauge steel construction.
- Motors are high quality industrial grade available in single or three phase - totally enclosed or explosion proof.



\*Dimensions vary with motor.

### DIMENSIONS (subject to change without notice)

MODEL	A	B	C	D	HP
DF-12	12"	13 1/8"	14"	14"	1/4-3/4
DF-18	18"	19 1/8"	20"	14"	1/4-1
DF-24	24"	25 3/4"	27"	18"	1/4-3
DF-27	27"	28 3/4"	30"	18"	1/2-2
DF-30	30"	31 3/4"	33"	18"	1/2-3
DF-34	34"	35 3/4"	37"	18"	1 1/2-5
DF-36	36"	37 7/8"	39"	18"	2-3
DF-42	42"	43 9/16"	45"	18"	1-5
DF-48	48"	49 5/8"	51"	18"	3-5
DF-60	60"	61 5/8"	63"	36"	7 1/2-15

## MODEL DF – TUBE AXIAL DUCT FAN – DIRECT DRIVE PERFORMANCE DATA

Blade Dia.	Model	Prop	HP	RPM	Free Air	CAPACITY C.F.M.						
						1/8" SP	1/4" SP	3/8" SP	1/2" SP	3/4" SP	1" SP	1-1/4" SP
12"	DF-12-1/4	CA101	1/4	1725	1180	930	520	---	---	---	---	---
	DF-12-1/2	CA101	1/2	3450	1875	1650	1400	1320	1250	1100	660	---
	DF-12-3/4	CA102	3/4	3450	2044	1960	1920	1820	1650	1500	1100	---
18"	DF-18-1/4	CA105	1/4	1725	3450	3050	2500	1200	---	---	---	---
	DF-18-1/3	CA232	1/3	1725	3375	3000	2600	2000	1400	---	---	---
	DF-18-1/2	CA161	1/2	1725	4150	3850	3150	2800	1700	---	---	---
	DF-18-1	CA107	1	1725	4600	4375	4080	3600	3000	2100	1550	---
24"	DF-24-1/4	CA130	1/4	1725	5200	4200	2820	1050	---	---	---	---
	DFL-24-1/3	CA109	1/3	1140	4975	4690	4250	3920	2850	---	---	---
	DF-24-1/2	CA108	1/2	1725	6510	5880	5200	4150	3100	1800	---	---
	DFL-24-3/4	CA191	3/4	1140	6900	6450	6265	5600	3300	---	---	---
	DF-24-1	CA109	1	1725	7425	7000	6350	5850	5000	3300	1775	---
	DF-24-2	CA162	2	1725	9525	9196	8810	8360	7980	6960	3000	---
	DF-24-3	CA191	3	1725	10500	9800	9500	9100	8700	7800	5000	3600
27"	DF-27-1/2	CA121	1/2	1725	7550	6820	6000	5100	4000	2000	---	---
	DF-27-1	CA110	1	1725	9600	9000	8400	7775	7050	4800	---	---
	DF-27-2	CA111	2	1725	11500	11200	10700	10000	9300	8000	5900	3600
30"	DF-30-1/2	CA112	1/2	1725	8980	7650	6300	5400	4350	2300	---	---
	DFL-30-3/4	CA113	3/4	1140	10440	9750	8750	7640	6000	---	---	---
	DF-30-2	CA250	2	1725	12000	11250	10450	9600	8700	6000	4100	---
	DFL-30-2	CA115	2	1140	14000	13750	12900	11850	10450	2500	---	---
DF-30-3	CA113	3	1725	16000	15350	14700	13850	12900	10200	8000	6000	
34"	DF-34-1 1/2	CA116	1 1/2	1725	13350	12100	10000	9100	7300	---	---	---
	DF-34-2	CA188	2	1725	14850	13600	12100	10450	8800	4000	---	---
	DFL-34-2	CA163	2	1140	15950	15100	13800	12500	11400	---	---	---
	DFL-34-3	CA123	3	1140	19300	18290	17230	16000	14800	11614	4000	---
	DF-34-5	CA128	5	1725	21000	19850	18900	18200	17500	14850	9300	---
36"	DFL-36-2	CA117	2	1140	17620	16500	15200	13620	12300	8500	---	---
	DF-36-3	CA134	3	1725	18500	17700	15700	15100	13900	11500	8550	---
	DFL-36-3	CA221	3	1140	20500	19500	18500	17100	15850	11600	6500	---
42"	DFL-42-1	CA165	1	870	15800	15200	13480	12310	5800	900	---	---
	DFL-42-2	CA165	2	1140	17964	17277	15326	13990	12351	7600	---	---
	DFL-42-2	CA119	2	870	22040	21000	20500	18500	15000	6000	---	---
	DFL-42-3	CA239	3	1140	24500	23150	23000	22000	19650	14000	10000	---
	DFL-42-5	CA119	5	1140	28970	27960	26840	25700	24200	19500	13800	2000
48"	DFL-48-3	CA137	3	1140	28600	26500	24400	22000	20000	15900	11000	---
	DFL-48-3	CA139	3	870	28700	26500	24200	21600	18500	10000	---	---
	DFL-48-5	CA138	5	870	33000	31500	29750	27650	25300	18000	---	---
60"	DFL-60-7 1/2	CA228	7 1/2	870	47000	45500	43600	41000	38700	33000	24000	---
	DFL-60-10	CA143	10	870	57200	54400	51000	48500	45000	38000	29500	---
	DFL-60-15	CA227	15	870	60750	58875	56625	54375	51750	47625	42000	34500

### OPTIONAL ACCESSORIES

- Companion flanges
- Horizontal support legs
- Horizontal or vertical support brackets
- Inlet or outlet guards – OSHA compliant
- Inspection door
- Epoxy or urethane coatings

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