# **Torit® Backward Inclined Fans**

TBI-3, 5, 7.5, 10, 15, 20 and 30 (60 and 50 Cycle)

Torit Backward Inclined (TBI) Fans provide a convenient, cost-effective method of integrating a high efficiency fan with a Donaldson® Torit® dust collector.

- Mounts directly to the clean-air plenum of the dust collector.
  - Eliminating costly transition ducting
  - Reducing footprint of system
- Sizes range from 3 to 30 hp.
- Backward inclined fan wheel provides high efficiency operation.
- Direct-drive operation eliminates maintenance of fan bearings and belts.
- Computer balanced fan and motor assembly ensures vibration-free operation.
- All necessary hardware for quick and easy installation is included.
- Standard paint finish is blue.



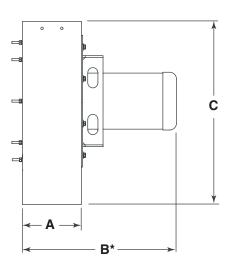
TBI-15 (60 Cycle)

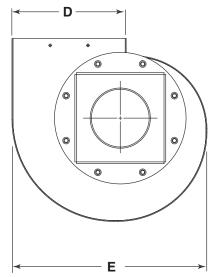
## **Equipment Options**

- Aluminum fan wheel
- Explosion-proof motors NEMA
- Outlet dampers
- High temperature version available

- Exhaust silencers
- 50 cycle/IEC motor configurations
- Flanges for exhaust ductwork

#### **Dimensions & Specifications for 60 Cycle TBI Fan**

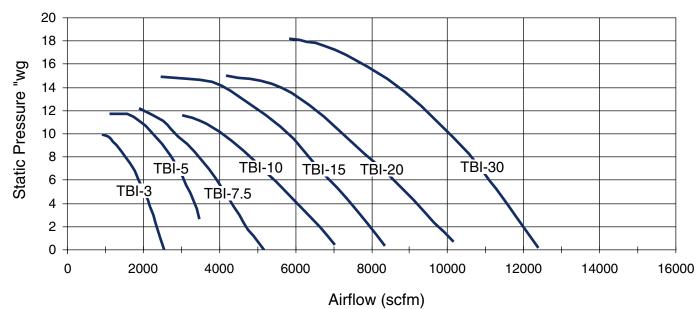




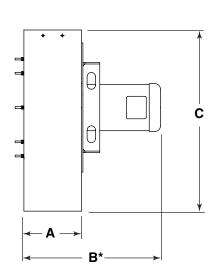
	Dimensions								Shipping Weight			
	Α		B*		С		D		E			
60 Cycle Fans	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(lbs)	(kg)
TBI-3	7.9	20.1	19.8	50.3	26.9	68.3	16.8	42.7	28.7	72.9	155	70
TBI-5	8.7	22.1	22.7	57.6	26.9	68.3	16.8	42.7	28.7	72.9	178	81
TBI-7.5	10.1	25.6	25.8	65.5	26.9	68.3	16.8	42.7	28.7	72.9	211	96
TBI-10	11.4	28.9	27.1	68.8	26.9	68.3	16.8	42.7	28.7	72.9	242	110
TBI-15	11.9	30.2	28.8	73.2	32.2	81.8	20.4	51.8	34.8	88.4	387	176
TBI-20	13.6	34.4	30.2	76.7	35.5	90.2	20.4	51.8	34.8	88.4	431	196
TBI-30	14.8	37.5	38.4	97.5	37.3	94.7	22.4	56.9	38.3	97.3	640	290

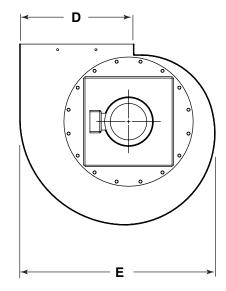
<sup>\*</sup> This dimension is subject to change based on the motor manufacturer chosen and on the motor enclosure type (TEFC or EP). If this dimension is critical, you should verify the information with your sales representative.

## **Performance Curves for 60 Cycle TBI Fan**



## **Dimensions & Specifications for 50 Cycle TBI Fan**

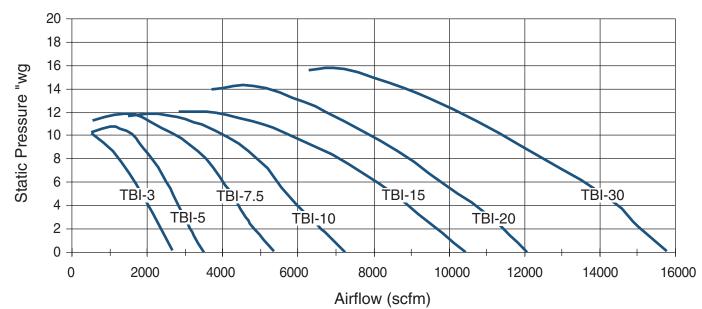




	Dimensions								Shipping Weight			
	Α		B*		С		D		E			
50 Cycle Fans	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(lbs)	(kg)
TBI-3	8.8	22.5	20.8	52.8	32.2	81.8	20.4	51.8	34.8	88.4	207	94
TBI-5	10.3	26.0	24.3	61.7	32.2	81.8	20.4	51.8	34.8	88.4	233	106
TBI-7.5	11.9	30.2	27.6	70.1	32.2	81.8	20.4	51.8	34.8	88.4	272	123
TBI-10	13.6	34.4	29.3	74.4	32.2	81.8	20.4	51.8	34.8	88.4	303	137
TBI-15	13.9	35.3	30.7	78.0	32.2	81.8	20.4	51.8	34.8	88.4	388	176
TBI-20	15.4	39.2	32.3	82.0	37.4	95.0	22.4	56.9	38.3	97.3	482	219
TBI-30	16.3	41.4	40.0	101.6	40.5	102.9	24.9	63.2	42.5	108.0	683	310

<sup>\*</sup> This dimension is subject to change based on the motor manufacturer chosen and on the motor enclosure type (TEFC or EP). If this dimension is critical, you should verify the information with your sales representative.

## **Performance Curves for 50 Cycle TBI Fan**



#### **Torit Backward Inclined Fans**

#### **60 Cycle TBI Fan Sound Data\***

Model	Overall Assembly Sound <sup>1</sup>
ТВІ-3	97
TBI-5	99
TBI-7.5	104
TBI-10	100
TBI-15	104
TBI-20	106
TBI-30	107

#### 50 Cycle TBI Fan Sound Data\*

Model	Overall Assembly Sound¹
ТВІ-3	93
TBI-5	96
TBI-7.5	99
TBI-10	100
TBI-15	103
TBI-20	105
TBI-30	106

- \* dB(A) sound levels are an average of measurements made in a laboratory environment. Installed sound levels will vary depending on the measurement location, operating conditions, and installation.
- <sup>1</sup> Sound ratings shown are taken at fan peak efficiency at an operating speed of 3500 rpm on the 60 cycle TBI fans and 2920 rpm on the 50 cycle TBI fans. They are the result of laboratory tests based on reverberant room techniques as described in AMCA bulletin 300 and processed by the procedures shown in AMCA 301. The ratings include an open inlet and ducted outlet.



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