



INDUSTRIAL PROCESS AND
COMMERCIAL VENTILATION SYSTEMS

CEILING & INLINE/CABINET VENTILATORS

T-Series | TL-Series





OVERVIEW

T | TL



T-Series Ventilators



Twin City Fan & Blower's T-Series Ceiling and TL-Series Inline/Cabinet Ventilators are designed for commercial applications requiring quiet, continuous, reliable operation. Exhausters are constructed with a low profile grille and are easy to duct horizontally, vertically or inline, with many models offering round duct connectors as standard.

Typical Applications Include

Bathroom Exhaust, Attic Ventilation, HVAC, Home Ventilation

Configurations

Ceiling or Wall Mount; Horizontal, Vertical or Inline Mount

Impeller Type

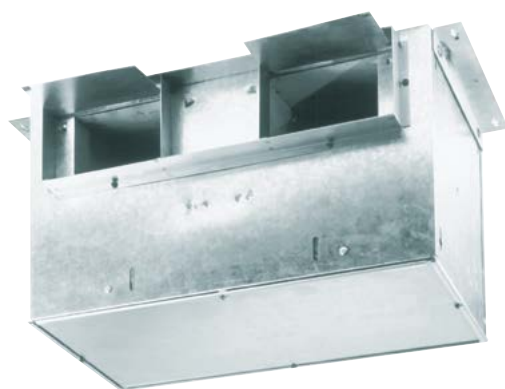
Centrifugal Blower

Certifications

UL/cUL 705 Listed for Electrical

ENERGY REGULATIONS

Twin City Fan & Blower supports energy efficiency regulations enacted by the U.S. Department of Energy (DOE) and specific states. The selection and application of fan products is a significant part of these regulations. Engineers and specifiers must understand how to apply TCF products to their specific applications to meet applicable DOE and state regulatory requirements. Twin City Fan & Blower has made significant investments in product testing and development to provide efficient products. Developments in Twin City Fan & Blower's Fan Selector software are in place to aid your decision in product selection to assist with meeting the efficiency requirements as stipulated in the applicable regulations.



TL-Series Ventilators



All models



For complete product performance, drawings and available accessories, download our Fan Selector software at tcf.com.

OVERVIEW

T | TL

Features

Grille

- Conceals interior
- Low profile styling blends with any decor

Blower

- Low RPM for quiet operation
- Resilient anti-vibration mounts
- Designed for continuous operation
- Dynamically-balanced, polymeric centrifugal blower impeller for quiet, efficient performance
- Permanently lubricated, thermally protected motor
- Plug-in motor rated at 120V AC, 60 Hz, single-phase, ODP.



Model T

Airflow to 722 CFM
Static pressure to 1" w.g.



Model TL

Airflow to 704 CFM
Static pressure to 1" w.g.



Bathroom Application, Model T

COMMERCIAL FANS

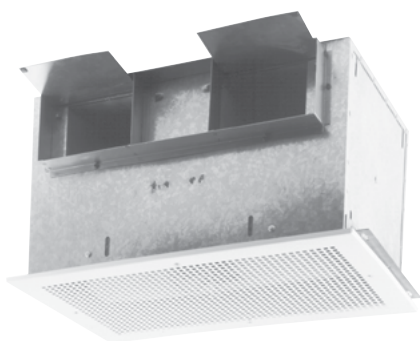
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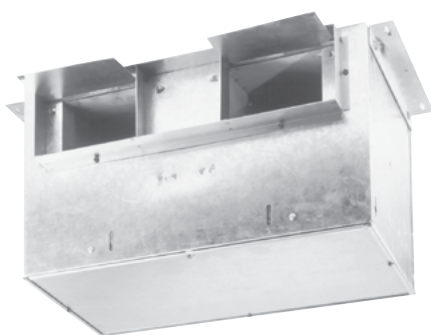
Model T200



Model T300L



Model T400



Model T400L

Models T100-T300 & Models T100L-T300L

- 20 gauge galvanized steel housing
- 8" round duct connector sizes T100, T150, T200, T250 and T300
- Built-in backdraft damper
- 1/2" acoustic insulation inside (inline models do not include insulation)
- May be installed in ceiling or wall, horizontally, vertically or inline
- 8-position mounting brackets for easy installation and greater adaptability to various mounting requirements
- Ceiling mount UL listed for use over bathtubs and showers when connected to a GFCI-protected branch circuit
- Inline models have a removable panel to allow easy access to the motor without disturbing ductwork
- Single impact resistant centrifugal blower impeller
- White polymeric grille (Model T only), metal as an option

Models T400-T700 & Models T400L-T700L

- 20 gauge galvanized steel housing
- 4 1/2" x 18 1/2" duct connector with built-in automatic backdraft damper
- 1/2" acoustic insulation inside (inline models do not include insulation)
- May be installed in ceiling or wall, horizontally, vertically or inline
- Painted white enamel steel grille (Model T only)
- Two impact-resistant centrifugal blower impellers
- 8-position mounting brackets for easy installation and greater adaptability to various mounting requirements
- Inline models have a removable panel to allow easy access to the motor without disturbing ductwork

TCF
TWIN CITY FAN

BATH FANS

T | TL

- Durable fan and blower assemblies encased in sturdy steel housings
- Permanently lubricated motors drive specially designed blowers, quietly delivering high exhaust performance
- Durable dampers prevent cold backdrafts with no metallic clatter
- Built-in mounting ears for quick, sturdy installation
- Polymeric duct connectors feature long, tapered sleeves for easier, positive ducting
- UL listed for use over bathtubs and showers when connected to a GFCI-protected branch circuit
- Plug-in, permanently lubricated motor
- Centrifugal blower impeller
- Torsion spring grille mounting – no tools necessary
- Designer styled white polymeric grille blends well with any decor
- Metal grille kits available. See table on Product Accessories page.

Model T080E & T110E

- 6" round duct connector
- Built-in backdraft damper
- Ceiling mount UL listed for use over bathtubs and showers when connected to GFCI-protected branch circuit
- High tech multi-speed EC motor
- Telescoping mounting frame for quick and easy installation

Model T080LP

- 4" oval duct
- Built-in backdraft damper
- 4" height
- Ceiling mount UL listed for use over bathtubs and showers when connected to GFCI-protected branch circuit

Model T081

- Rugged steel housing
- Impact-resistant centrifugal blower impeller and 4-pole motor for high capacity at low sound levels
- Sturdy key-holed mounting brackets for quick, accurate and sturdy installation
- Tapered, polymeric duct fitting for easy, positive duct connection and no metallic clatter
- 4" round duct connector



Model T080E



Model T080LP



Model T110

Models T100, T150, T200, T250 & T300

- 8" round duct
- Built-in backdraft damper
- Ceiling mount UL listed for use over bathtubs and showers when connected to GFCI-protected branch circuit

Model T110

- 4" oval duct
- Built-in backdraft damper
- Ceiling mount UL listed for use over bathtubs and showers when connected to GFCI-protected branch circuit

Models T150LP

- 6" oval duct
- Built-in backdraft damper
- 4" height
- Ceiling mount UL listed for use over bathtubs and showers when connected to GFCI-protected branch circuit

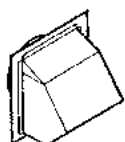
		FAN MODEL	SPEED CONTROL	RADIATION DAMPER	METAL GRILLE	ROOF CAP (SLOPED)	WALL CAP		FAN/LIGHT CONTROL W/ OFF-DELAY	
							ALUM.	STEEL W/ LOUVERS		
CEILING MOUNT	T080E	*	*	N/A	*	*	N/A	*		
	T080LP		N/A			N/A				
	T081		*			*				
	T100			N/A						
	T110		*							
	T110E			N/A						
	T150LP		N/A			*				
	T150		*	N/A						
	T200									
	T250									
	T300									
	T400		N/A	N/A		N/A	*			
	T500									
T700										
INLINE	T100L	*	N/A	N/A	*	*	N/A	*		
	T150L				*	*				
	T200L									
	T250L				N/A	N/A				
	T300L									
	T400L									
	T500L									
	T700L				N/A	N/A	*			

* = Available
N/A = Not Available

Wall Caps

Model 641

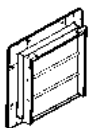
- Aluminum natural finish
- Built-in backdraft damper and bird screen
- For 6" round duct



Models 641, 643

Model 643

- Same as Model 641 except for 8" round duct and no bird screen



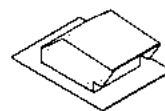
Model 441

- Steel with aluminum louvers
- Collar with bird screen for attaching 10" round duct

Roof Caps

Model 634M

- For 3 1/4" x 10" or up to 6" round duct
- Built-in backdraft damper and bird screen
- Steel housing, black electrically-bonded epoxy finish



Models 634M, 634P, 636P

Model 634P

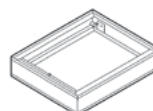
- Same as Model 634M except for 8" round duct

Model 636P

- Same as Model 634M except for 3" or 4" round duct

Radiation Dampers

- UL rated for use in 1, 2 or 3 hour fire-rated ceilings
- Galvanized steel frame
- High temperature, non-asbestos, reinforced fiber thermal fabric
- 212°F fusible link
- Stainless steel negator-type closure spring



Controls

Model 80L Speed Control - Unit Mount

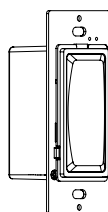
- 120V, 3 amps
- Mounts inside fan for room balancing without risk of tampering, access through grille (T) or access panel (TL)



Model 80L

Model DT100W (White) Delay Off Timer

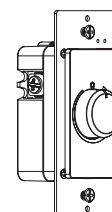
- Fits single-gang box
- 120 VAC, 6 Amp Max. (3 A Fan + 3 A Lamp)
- For use with all Broan fans with Amp rating



Model DT100W

Model SC100W (White) Speed Control

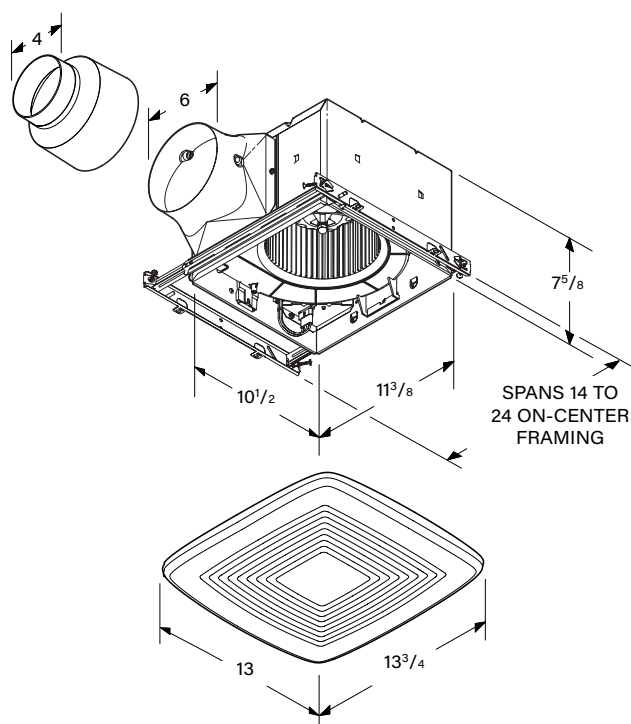
- Fits single-gang box
- 120 VAC, 3 Amp Maxx
- For use only with Broan fans that can be used with speed controls and within Amp rating



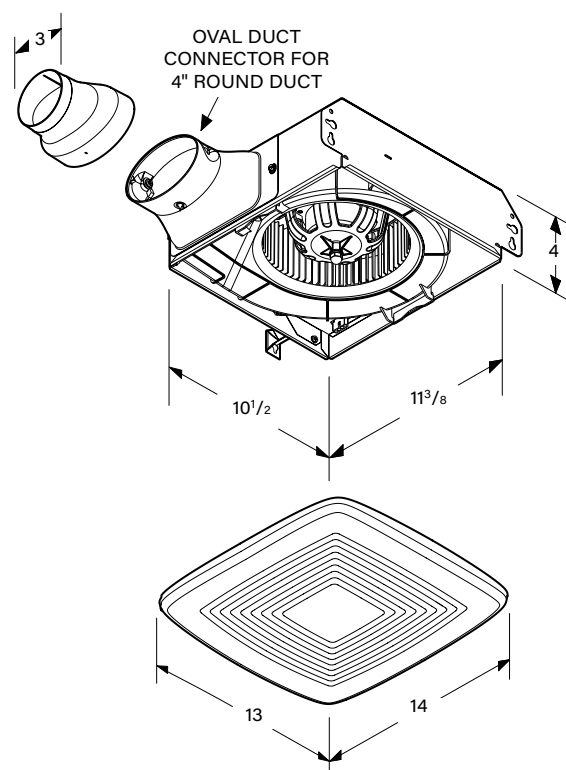
Model SC100W

DIMENSIONAL DATA

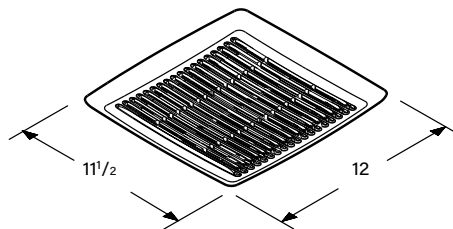
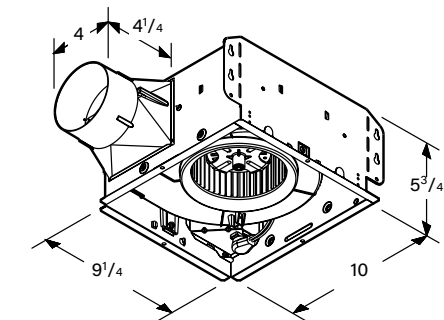
Models T080E & T110E



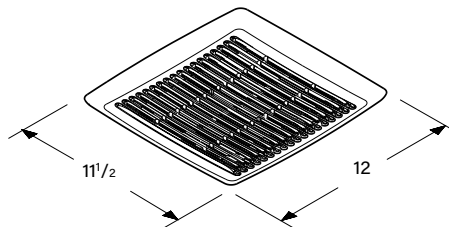
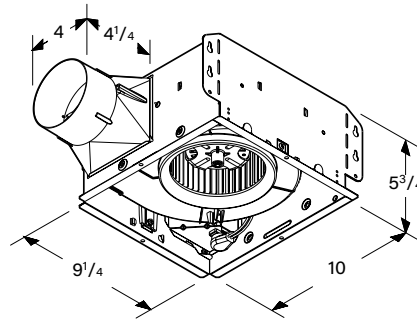
Model T080LP



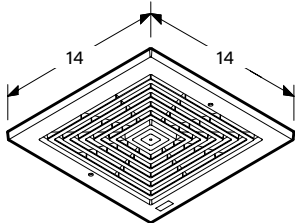
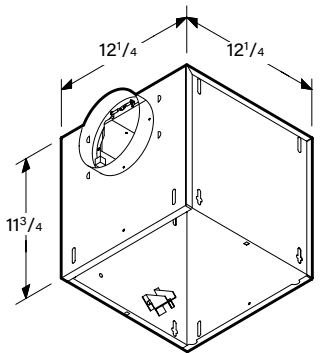
Model T081



Model T110

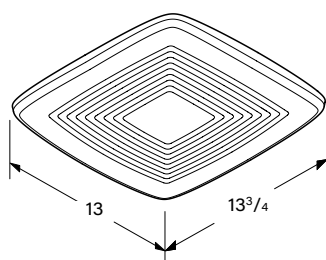
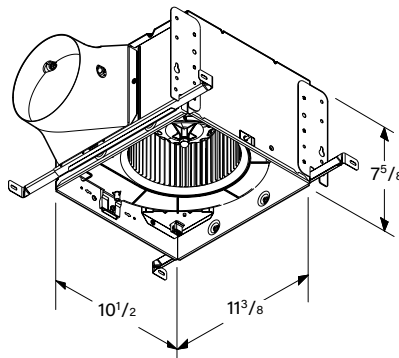


Models T100-T300
& T100L-T300L*

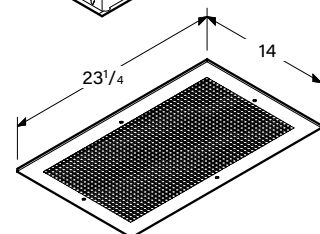
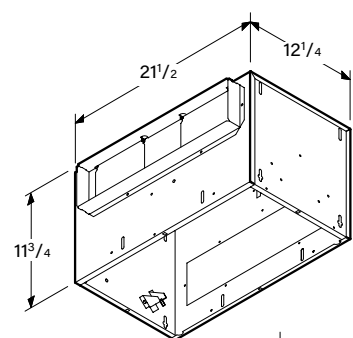


*Panel replaces grille
on inline models.

Model T150LP



Models T400-T700
& T400L-T700L*



*Panel replaces grille on inline models.



Model

T

Model T081

T-Series Ventilators shall be Model T081, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Air delivery shall be no less and sound level no greater than listed. Units shall be UL listed for use over bathtubs and showers with GFCI branch wiring.

HOUSING — Units shall have steel housing and shall be ducted to a roof or wall cap.

DAMPER — A backdraft damper shall be located within the duct connector.

MOTOR AND IMPELLER ASSEMBLY — Motor assembly shall have a centrifugal blower impeller, be removable and permanently lubricated. RPM not to exceed number listed for each model.

Models T080E and T110E

T-Series Ventilators shall be Model T080E or T110E, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Air delivery shall be no less and sound level no greater than listed. Units shall be UL listed for use over bathtubs and showers with GFCI branch wiring.

HOUSING — Units shall have steel housing and shall be ducted to a roof or wall cap.

DAMPER — A backdraft damper shall be located within the duct connector.

MOTOR AND IMPELLER ASSEMBLY — Motor assembly shall have a centrifugal blower impeller, be removable and permanently lubricated. RPM not to exceed number listed for each model. The motor will be an electrically commutated motor.

Models T080LP, T110 and T150LP

T-Series Ventilators shall be Model T080LP, T110 or T150LP, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Air delivery shall be no less and sound level no greater than listed. Units shall be UL listed for use over bathtubs and showers with GFCI branch wiring.

HOUSING — Units shall have steel housing and shall be ducted to a roof or wall cap.

DAMPER — A backdraft damper shall be located within the duct connector.

MOTOR AND IMPELLER ASSEMBLY — Motor assembly shall have a centrifugal blower impeller, be removable and permanently lubricated. RPM not to exceed number listed for each model.

Models T100, T150, T200, T250, T300, T400, T500 and T700

T-Series Ventilators shall be of the centrifugal direct drive type, Model T100, T150, T200, T250, T300, T400, T500 or T700, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Air delivery shall be no less and sound levels no greater than listed. Fans and motors shall carry the UL and/or cUL listed.

HOUSING — Units shall have a galvanized steel housing insulated with at least 1/2" of acoustic insulation. Housing shall have adjustable mounting brackets.

DAMPER — A backdraft damper shall be located within the duct connector. Duct connector, blower assembly and wiring plate shall be adjustable for either horizontal or vertical installation.

MOTOR AND IMPELLER ASSEMBLY — The blower unit shall be removable from the housing and shall have a polymeric, balanced centrifugal-type blower impeller. Motor shall be permanently lubricated and mounted with resilient anti-vibration mounts. RPM not to exceed number listed for each model.



Model

TL

Models T100L, T200L, T250L, T300L, T400L, T500L and T700L

TL-Series Ventilators shall be of the centrifugal direct drive type, Model T100L, T200L, T250L, T300L, T400L, T500L or T700L, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Air delivery shall be no less and sound levels no greater than listed for each model. Units shall be UL and cUL listed.

HOUSING — Ventilators shall have galvanized steel housings with adjustable housing mounting brackets. Models T100L, T200L, T250L, T300L, T400L, T500L and T700L shall have a removable panel to allow access to the motor without disturbing ductwork.

MOTOR AND IMPELLER ASSEMBLY — The blower unit shall be removable from the housing. Models T100L, T200L, T250L, T300L, T400L, T500L and T700L shall have a polymeric, dynamically balanced centrifugal type blower impeller.

Motors shall be permanently lubricated and mounted with resilient anti-vibration mounts. RPM not to exceed number listed for each model.

DAMPER — On Models T100L, T200L, T250L, T300L, T400L, T500L and T700L, backdraft damper shall be located within the exhaust side duct connector. On Models T400L, T500L and T700L, the exhaust side duct connector, blower assembly and wiring plate shall be adjustable for either horizontal or vertical installation.





INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS | UTILITY SETS | PLENUM & PLUG FANS | INLINE CENTRIFUGAL FANS

MIXED FLOW FANS | TUBEAXIAL & VANEAXIAL FANS | WALL MOUNTED FANS | ROOF VENTILATORS

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