CEILING & INLINE/CABINET VENTILATORS

T-Series  |  TL-Series

CATALOG 4600
March 2018
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

**Wheel Type**
Centrifugal Blower

**Certifications**
AMCA Sound and Air, HVI and Energy Star, and UL/cUL 705 Listed for Electrical

HVI-2100 Certified Ratings comply with new testing technologies and procedures prescribed by the Home Ventilating Institute, for off-the-shelf products, as they are available to consumers. Product performance is rated at 0.1 in. static pressure, based on tests conducted in a state-of-the-art test laboratory. Sones are a measure of humanly-perceived loudness, based on laboratory measurements.

Twin City Fan & Blower certifies that the T080E, T110E, T080LP, T110 and T150LP are HVI and Energy Star certified.
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 wheel for quiet, efficient performance (T2000L and T3500EXL furnished with metal wheel)
- Permanently lubricated, thermally protected motor
- Plug-in motor rated at 120V AC, 60 Hz, single phase, ODP. T3500EXL motor is rated at 240V. For other 240V units contact factory

Model T
Airflow to 1,590 CFM
Static pressure to 1" w.g.

Model TL
Airflow to 3,868 CFM
Static pressure to 1" w.g.

Bathroom Application, Model T
CEILING & INLINE VENTILATORS

Commercial Fans

Models T100-T300 & Models T100L-T300L
- 20 gauge galvanized steel housing
- 6" round duct connector sizes T100 and T150
- 8" round duct connector sizes T200, T250 and T300
- Built-in backdraft damper
- ½" 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 wheel
- White polymeric grille (Model T only), metal as an option

Models T400-T700 & Models T400L-T700L
- 20 gauge galvanized steel housing
- 4½" x 18½" duct connector with built-in automatic backdraft damper
- ½" 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 wheels
- 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
Models T900-T1500 & T900L-T1500L
- 20 gauge galvanized steel housing
- 8" x 12" duct connector with built-in backdraft damper
- ½" 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
- Painted white enamel steel grille (Model T only)
- Single impact-resistant centrifugal blower wheel
- Inline models have a removable panel to allow easy access to the motor without disturbing ductwork

Models T2000L & T3500EXL
- 20 gauge galvanized steel
- May be installed in ceiling or wall
- 8-position mounting brackets for easy installation and greater adaptability to various mounting requirements
- Factory-shipped in straight-through discharge position — may be converted to right angle discharge
- T2000L fits 7¾" x 33¾" ducts
- T3500EXL fits 9¾" x 41¾" ducts
- Designed for continuous operation
- Two metal centrifugal blower wheels
Bath Fans

- 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 wheel
- Torsion spring grille mounting – no tools necessary
- Designer styled white polymeric grille blends well with any decor
- Metal grille kits available

Model T050
- Compact, galvanized steel housing – attaches easily to wall or ceiling joists
- Double strength mounting flanges with keyhole slots
- Removable wiring cover – make connections away from tight corners
- No electrical knockout to remove
- Polymeric duct fitting with tapered sleeve for easy, positive duct connection
- Quiet polymeric damper prevents cold backdrafts with no metallic clatter
- Compact housing fits easily between wall studs
- Double strength steel mounting flanges with keyhole slots for fast, sturdy installation 3” round duct connector

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
- HVI certified
- High tech multi-speed EC motor
- Telescoping mounting frame for quick and easy installation
**Bath Fans**

**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
- HVI certified

**Model T081**
- Rugged steel housing
- Impact-resistant centrifugal blower wheel 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 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
- HVI certified

**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
- HVI certified
### Wall Caps

**Model 613**
- Aluminum natural finish
- Built-in backdraft damper and birdscreen
- For 12" round duct

**Model 641**
- Same as Model 613 except for 6" round duct

**Model 642**
- Same as Model 613 except for 3-4" round duct and no birdscreen

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**Model 643**
- Same as Model 613 except for 8" round duct and no birdscreen

**Model 441**
- Steel with aluminum louvers
- Collar with bird screen for attaching 10" round duct
PRODUCT ACCESSORIES

Roof Caps

**Model 634M**
- For 3½" x 10" or up to 6" round duct
- Built-in backdraft damper and birdscreen
- Steel housing, black electrically-bonded epoxy finish

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

**Model 644**
- Same as Model 634M except aluminum natural finish, and for up to 8" round duct

**Model 636P**
- Same as Model 634M except for 3" or 4" round duct

**Model 437**
- High-capacity design – up to 1200 CFM
- Built-in bird screen
- Steel housing, black electrically-bonded epoxy finish
- For up to 10" round duct

**Model 611**
- For flat roof installation
- Aluminum natural finish
- For up to 8" round duct
- Birdscreen

**Model 612**
- For flat roof installation
- Aluminum natural finish
- For up to 12" round duct
- Birdscreen

**Model 611CM**
- For curb mount installation
- Other features same as Model 611

**Model 612CM**
- For curb mount installation
- Other features same as Model 612

Inline Adapters

**Model 961L**
- Galvanized steel
- 6" round duct intake
- Mounting hard-ware included

**Model 981L**
- Galvanized steel
- 8" round duct intake
- Mounting hard-ware included

**Model 982L**
- Galvanized steel
- 4½" x 18½" duct intake
- Mounting hard-ware included

**Model 983L**
- Galvanized steel
- 8" x 12" duct intake
- Mounting hard-ware included
**PRODUCT ACCESSORIES**

**Controls**

**Model 57W Speed Control**
- 120V, 3 amps
- Fits single-gang box
- Positive on/off action – dial for variable selection of air speeds and sound levels

**Models 72W, 75V Speed Control**
- 120V, 6 amps – Model 72W
- 240V, 6 amps – Model 75V
- Other features same as 57W

**Model 59W Time Control**
- 120V, 20 amp or 240V, 10 amp capacity
- Operates continuously or for any set period up to 60 minutes

**Model 61W Time Control**
- Operates for any set period up to 15 minutes (no “continuous on” position)
- Other features same as 59W

**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 69W On/Off Switch**
- 120VAC, 15 amp
- Fits single gang box

**Model 64W Fan/Light Control with Off-Delay**
- Fan and light operate together when control is turned on. Fan continues to operate for a user-adjustable time period 5-60 minutes after light is turned off
- Fits single-gang box
- Center position bypasses timer and turns fan and light off immediately
- 120V, 4 amps (fan), 4 amps (light)
- Requires hot and neutral wires in the switch box

**Radiation Dampers**

**Models RD1, RDM1, RD2, RD3**
- 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

**Duct Transitions**

**Models 423, T81212**
- Galvanized steel
- Allows for quick transition to easy-to-obtain-and-install round ducting
- Model 423 – 4½" x 18½" to 10" round
- Model T81212 – 8" x 12" to 12" round

**Damper Kits**

**Models D100, 101**
- Not illustrated
- Twin damper flaps and mounting hardware
- Foam cushion and magnetic catch assure quiet, effective backdraft prevention

**Vibration Dampening Hangers**

**Model V104**
- Not illustrated
- Heavy gauge steel construction with vibration dampening cushion
- Maximum load 75 lbs. (each)
- For ¾" diameter threaded rod (provided by installer)

**Metal Grille Kit**

**Model MG1, MMG, 97011308, G102, G103**
- White enamel painted steel
DIMENSIONAL DATA

Model T050

Model T080 & T110E

SPANS 14 TO 24 ON-CENTER FRAMING

Model T080LP

OVAL DUCT CONNECTOR FOR 4" ROUND DUCT

Model T081

Model T110
DIMENSIONAL DATA

Models T100-T300 & T100L-T300L*

Model T150LP

Models T400-T700 & T400L-T700L*

*Panel replaces grille on inline models.

Models T900 & T1500 and T900L & T1500L*

Model T2000L

Model T3500L

*Panel replaces grille on inline models.
### Ceiling Mount

#### Ceiling Models – Horizontally Mounted

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<th>MODEL NO.</th>
<th>PART NO.</th>
<th>RPM</th>
<th>AMPS @ 60HZ</th>
<th>WATTS @ 60HZ</th>
<th>CFM/SONES</th>
<th>STATIC PRESSURES (IN. W.G.)</th>
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* Units are HVI certified, but do not hold AMCA certification.

#### Ceiling Models – Vertically Mounted

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<th>PART NO.</th>
<th>RPM</th>
<th>AMPS @ 60HZ</th>
<th>WATTS @ 60HZ</th>
<th>CFM/SONES</th>
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Performance ratings include the effects of an inlet grille and backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: Free inlet hemispherical sone levels. Performance certified is for Installation Type B: Free inlet, ducted outlet.
### Inline Models – Straight-Through

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</table>

T100L through T1500L

Performance ratings include the effects of a backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

T2000L and T3500EXL

Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.
Ceiling Mount

**Model T050**

**Model T080E**

Precise airflow rate adjustability allows fan to produce any CFM shown within this shaded area.

**Model T080LP**

**Model T081**

**T100, T150 Series**

**Model T110**

**Notes:**
Performance certified is for Installation Type D: Ducted inlet, ducted outlet.
Performance ratings include the effects of a backdraft damper.
Ceiling Mount

Precise airflow rate adjustability allows fan to produce any CFM shown within this shaded area.

Notes:
Performance certified is for Installation Type D: Ducted inlet, ducted outlet. Performance ratings include the effects of a backdraft damper.
Inline

T100L, T150L Series

T200L, T250L, T300L Series

T400L, T500L, T700L Series

T900L, T1500L

T2000L, T3500EXL

T3000L Series

T1500L

T900L, T1500L

Notes:
Performance certified is for Installation Type D: Ducted inlet, ducted outlet.
Performance ratings include the effects of a backdraft damper.
TYPICAL SPECIFICATIONS

Models T050 and T081
T-Series Ventilators shall be Model T050 or T081, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Air delivery shall be no less and sound level no greater than listed. Fans shall bear the AMCA ratings seal for sound and air performance. 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 WHEEL ASSEMBLY — Motor assembly shall have a centrifugal blower wheel, 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. Fans shall bear the AMCA ratings seal for sound and air performance. 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 WHEEL ASSEMBLY — Motor assembly shall have a centrifugal blower wheel, 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 WHEEL ASSEMBLY — Motor assembly shall have a centrifugal blower wheel, be removable and permanently lubricated. RPM not to exceed number listed for each model.

Models T100, T150, T200, T250, T300, T400, T500, T700, T900 and T1500
T-Series Ventilators shall be of the centrifugal direct drive type, Model T100, T150, T200, T250, T300, T400, T500, T700, T900, T1500, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Air delivery shall be no less and sound levels no greater than listed. Fans shall bear the AMCA ratings seal for sound and air performance. 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 WHEEL ASSEMBLY — The blower unit shall be removable from the housing and shall have a polymeric, balanced centrifugal-type blower wheel. Motor shall be permanently lubricated and mounted with resilient anti-vibration mounts. RPM not to exceed number listed for each model.
Models T100L, T200L, T250L, T300L, T400L, T500L, T700L, T900L and T1500L
TL-Series Ventilators shall be of the centrifugal direct drive type, Model T100L, T200L, T250L, T300L, T400L, T500L, T700L, T900L and T1500L, 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. Fans shall bear the AMCA ratings seal for sound and air performance. 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, T700L, T900L and T1500L shall have a removable panel to allow access to the motor without disturbing ductwork.

MOTOR AND WHEEL ASSEMBLY — The blower unit shall be removable from the housing. Models T100L, T200L, T250L, T300L, T400L, T500L, T700L, T900L and T1500L shall have a polymeric, dynamically balanced centrifugal type blower wheel.

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, T700L, T900L and T1500L, backdraft damper shall be located within the exhaust side duct connector. The exhaust side duct connector, blower assembly and wiring plate shall be adjustable for either horizontal or vertical installation.

Models T2000L and T3500EXL
TL-Series Ventilators shall be of the centrifugal direct drive type, Model T2000L and T3500EXL, 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. Fans shall bear the AMCA ratings seal for sound and air performance. Units shall be UL and cUL listed.

HOUSING — Ventilators shall have galvanized steel housings with adjustable housing mounting brackets. On models T2000L and T3500EXL, the duct connector, blower assembly and wiring plate shall be adjustable for either horizontal or vertical installation.

MOTOR AND WHEEL ASSEMBLY — The blower unit shall be removable from the housing. Models T2000L and T3500EXL shall have a metal, centrifugal-type blower wheel.

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