



MODEL TD-MIXVENT

INLINE MIXED FLOW DUCT FAN



MODEL FEATURES

- Exhaust air up to 2,630 CFM with static pressure capabilities to 1” w.g.
- Mixed flow impeller for excellent air flow to pressure performance ratio
- Ideal for applications where space is limited
- AMCA Seal for Air Performance
- cULus Listed

MODEL OVERVIEW

Compact Size-TD Fans require minimum space

The S&P TD-MIXVENT & TD-SILENT series of in-line duct fans have been specially designed to maximize the airflow performance with minimal noise levels within the smallest and most compact of housing sizes. This makes the TD-MIXVENT & TD-SILENT series the ultimate solution for small to medium sized ventilation installations which require a high airflow to pressure ratio and occupy only the minimum space possible. Example: false ceiling voids, cabinets and many other limited space environments.

Easy to Install...fit and forget!

All the models in the TD-MIXVENT & TD-SILENT range have been designed with the professional contractor/engineer in mind. All models include a “removable body” feature that enables the motor-impeller assembly to be completely removed or replaced without the need to interfere with the attached ducting.

Multitude of features-high specification

All models within the TD-MIXVENT & TD-SILENT range incorporate a powerful mixed flow impeller and internal air vanes located at the discharge end of the fan housing. This impeller and guide vane combination provides a smooth laminar air flow which in turn minimizes turbulence and noise, and generates an **excellent air flow to pressure performance ratio**.

Description

All of the TD-fans include the combination of a powerful motor, factory installed, to a mixed flow impeller. This motor and impeller combination enables the TD-fans to deliver high airflow performances with minimum noise generation against high static pressures typically found in ducted ventilation systems. The unique design of the support brackets, allows the motor and impeller assembly to be fitted or removed without dismantling the adjacent ducting and therefore, facilitating any installation or maintenance. The internal aerodynamic design of the TD-MIXVENT & TD-SILENT fans enable the units to generate large air volumes and pressures with the minimum of in-duct or radiated noise. The TD-fans offer the ideal in-line duct fan solution for a wide range of HVAC ventilation applications.



Model TD-MIXVENT is available in our Quickship program. All sizes are available for next day shipping from stock.



5 year fan housing and motor warranty

All specifications are subject to change without notice unless approved in submittal by S&P



General Details of the TD-MIXVENT Range



Low profile mixed flow fans, manufactured in plastic material (up to model 150) or in **galvanized steel** sheet protected with Epoxy paint (models 200, 250, 315, 355, and 400), with external terminal box, removable motor-impeller assembly and adjustable single-phase motor, Class B, IP44.



Construction characteristics

	100	100x1	125	150	200	250	315	355	400
Polypropylene housing	•	•	•	•					
Steel housing with epoxy coating					•	•	•	•	•
ABS fan blades	•	•	•	•					
Aluminum fan blades					•	•	•	•	•
Thermal link via fuse	•								
Thermal link with automatic reset		•	•	•	•	•	•	•	•
Permanently lubricated ball bearings	•	•	•	•	•	•	•	•	•

The extensive range of the TD-MIXVENT series makes it an effective solution for a wide range of residential and light commercial ventilation installations.

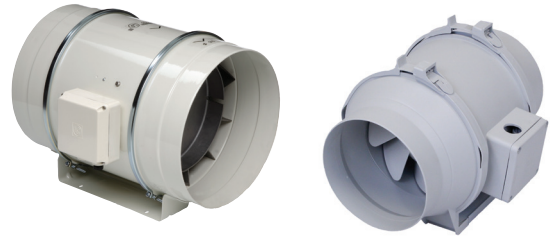
ACCESSORIES



Please refer to the S&P Group A (Residential/Light Commercial) catalog for a complete line of accessories.



CONSTRUCTION/SPECIFICATION CHECKLIST



Warranty

Five (5) year limited warranty.

Range

The TD-MIXVENT series consists of nine (9) nominal sized in-line fans. All models are specifically designed for direct connection in-line with industry standard diameter round ducting.

Construction

The TD-MIXVENT models 100, 100x1, 125, and 150 are manufactured in tough reinforced plastic, models 200, 250, 315, 355, and 400 have a metal casing and are finished in a tough epoxy-polyester paint coating. The TD fan duct connection flanges are manufactured from reinforced plastic, except for models 200, 250, 315, 355, and 400 which are constructed from epoxy-polyester coated metal.

TD 250 and 315 are UL listed for outdoor use.

TD 355 and 400 are UL 507 and UL 705 certified.

Impellers

The impeller blades for models 100, 100x1, 125, and 150 are molded in tough ABS plastic. Models 200, 250, 315, 355, and 400 are metal.

Long Life

Permanently lubricated motors are engineered for trouble-free continuous operation for 40,000 hours.

Motors

Models 100, 100x1 and 125 :

- Single-phase, 120V 60Hz, shaded pole induction asynchronous motor in die cast aluminum. All motors include direct single speed connection and are also suitable for voltage speed control.
- Class II electrical insulation (model 100) & Class I (models 100x1 and 125)
- IP 44 Protection
- Safety auto reset Thermal Overload Protection (fuse type)
- Self-lubricating sleeve bearings.
- Sizes 100-125: Suitable for working airstreams up to 104°F (40°C)

Models 150, 200, 250, 315, 355, and 400:

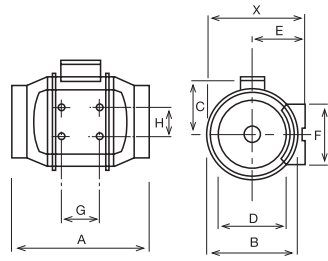
- Single-phase induction asynchronous motor, with permanent capacitor and external rotor constructed of die cast aluminum. Models 150, 200, 355 and 400 feature single speed, fully speed controllable motors. Models 250 and 315 include direct dual speed (LS/HS) connection motors and are also suitable for voltage speed control.
- Class I electrical insulation
- IP 44 Protection
- Thermal Overload Protection
- Sealed For Life, ball bearings
- Size 200: Suitable for working airstreams up to 104°F (40°C)
- Sizes 150, 250-400: Suitable for working airstreams up to 140°F (60°C)



PERFORMANCE/DIMENSIONS

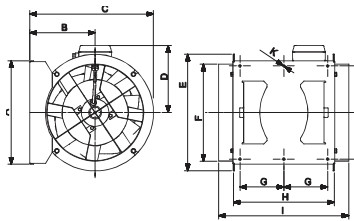
Dimensions (inches/mm)

Models 100 - 315



Model	X	A	B	C	D	E	F	G	H
TD-100	5 15/16 151	9 1/8 232	5 7/16 138	3 3/4 96	3 7/8 98	3 1/4 82	3 3/4 95	1 7/8 48	2 1/16 52
TD-100X1	7 3/8 188	11 15/16 303	6 15/16 176	4 1/2 115	3 13/16 97	3 15/16 100	3 9/16 90	3 1/8 80	2 3/8 60
TD-125	7 3/8 188	10 3/16 258	6 15/16 176	4 1/2 115	4 13/16 123	3 15/16 100	3 9/16 90	3 1/8 80	2 3/8 60
TD-150	8 3/8 212	11 5/8 295	7 7/8 200	5 127	5 13/16 147	4 7/16 112	5 1/8 130	3 1/8 80	2 3/8 60
TD-200	9 3/16 233	11 7/8 302	8 9/16 217	5 9/16 141	7 13/16 198	4 7/8 124	5 1/2 140	3 15/16 100	3 11/16 94
TD-250	11 7/16 291	15 3/16 386	10 11/16 272	7 9/16 192	9 3/4 248	6 1/8 155	6 5/8 168	5 11/16 145	5 1/2 140
TD-315	14 356	17 11/16 450	13 1/4 336	8 13/16 224	12 5/16 312	7 3/8 188	8 1/4 210	7 3/16 182	7 178

Models 355 & 400



Model	A	B	C	D	E	F	G	H	I	J	K
TD-355	14 13/16 376	9 3/8 238	17 3/4 451	8 13/16 224	16 3/4 425	13 15/16 354	6 5/16 160	14 1/2 368	18 11/16 475	13 3/8 340	5/16 8
TD-400	16 407	9 13/16 249	19 3/8 492	10 1/2 267	19 3/16 487	15 11/16 398	6 5/16 160	16 3/4 425	21 1/2 546	14 9/16 370	5/16 8

Performance characteristics

Models 100 up to 315 include a direct two speed motor connection.

Model	Nom. RPM	Volts	Max. Watts	Speed	CFM v Static Pressure (SP) Ins. WG							Max. SP	Max operating temp. (°F)	Wgt. (lbs)	Duct Dia. Ins.
					0"	0.125"	0.25"	0.375"	0.5"	0.75"	1.0"				
TD-100	2516	120	26	-	101	85	57	-	-	-	-	.4	104	4	4"
TD-100X1	2500	120	29	-	138	119	96	66	21	-	-	.45	104	6	4"
TD-125	2146	120	38	-	197	168	133	86	22	-	-	.55	104	6	5"
TD-150	2289	120	65	-	293	273	250	227	206	131	35	1.15	140	9	6"
TD-200	2781	120	184	-	538	495	458	418	367	190	10	1.625	104	13	8"
TD-250	2400	120	162	LS	541	475	418	355	295	218	170	2.03	140	21	10"
	3200	120	241	HS	754	715	680	640	606	520	405	2.53	140	21	10"
TD-315	2000	120	208	LS	751	670	545	420	285	190	130	1.62	140	31	12.4"
	2500	120	335	HS	1050	990	932	850	770	600	420	2.95	140	31	12.4"
TD-355	1400	120	464	-	2089	2013	1934	1855	1775	1591	1306	1.0	140	68	14"
TD-400	1400	120	756	-	3124	3032	2936	2836	2733	2505	2210	1.2	140	78	16"

Performance certified is for installation Type D: Ducted Inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances.

LS= Low Speed
 HS = High Speed



S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the TD range shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



TD Models 100X1, 125, 150, and 200 are ENERGY STAR® qualified.



The TD-MIXVENT Models are California Title 24 compliant and meet ASHRAE 62.2 when installed with a 3 way switch and remotely mounted speed control.



TD 250 & 315 are UL listed for outdoor use.

Sound characteristics

Fan sound levels are measured in sones. At this time there are no sone level test standards available through HVI due to the fact that remote mounted fan noise levels are in proportion to the following: type of duct, length of duct, fan distance from the intake source and other miscellaneous factors. However, it is generally accepted that remote mounted venting is usually quieter than standard (in room) venting.



KIT - TD BATHROOM EXHAUST KITS

FEATURING TD-MIXVENT FANS



The TD-MIXVENT fan kits provide all the hardware needed to complete a simple in-line ducted ventilation installation. The kit includes a powerful TD in-line fan and exterior and interior grilles (with or without lights). Available in both Standard Exhaust Kits, for venting a single location, and Deluxe Exhaust Kits, for venting multiple locations with one fan.

The TD-MIXVENT fan kit is the ideal solution for any simple in-line ducted fan installation.

All TD kits have standard 7-year warranty*

Standard Exhaust Kits - Single Vent



KIT-TD100

- 1 TD100 exhaust fan
- 1 plastic round grille (PG-100)
- 1 exterior louvered grille (PER-100W)
- Integral mounting bracket

KIT-TD100X1

- 1 TD100X1 exhaust fan
- 1 plastic round grille (PG-100)
- 1 exterior louvered grille (PER-100W)
- Integral mounting bracket

KIT-TD150

- 1 TD150 exhaust fan
- 1 plastic round grille (PG-150)
- 1 exterior louvered grille (PER-150W)
- Integral mounting bracket

Deluxe Exhaust Kits - Dual Vent



KIT-TD150-DV

- 1 TD150 exhaust fan
- 2 plastic round grilles (PG-150)
- 1 exterior louvered grille (PER-150W)
- 1 Y-fitting (SY-6)
- Integral mounting bracket

IMPORTANT: If venting in an non-insulated attic space, or in a cold climate, insulated flexible duct is strongly recommended for condensation issues.

***Bulbs in Lighted Kits not included in warranty**



KIT-TD100X1L

- 1 TD100X1 exhaust fan
- 1 Vent Light with LED Bulb (VLED-100)
- Integral mounting bracket

KIT-TD100X1H

- 1 TD100X1 exhaust fan
- 1 Vent Light with Halogen Bulb (VLH-100)
- Integral mounting bracket

KIT-TD100X1F

- 1 TD100X1 exhaust fan
- 1 Vent Light with Fluorescent Bulb (VLF-100)
- Integral mounting bracket

Lighted Deluxe Exhaust Kits - Dual Vent



KIT-TD150L

- 1 TD150 exhaust fan
- 2 Vent Lights with LED Bulb (VLED-100)
- 1 Y-fitting (SY44-6)
- Integral mounting bracket

KIT-TD150H

- 1 TD150 exhaust fan
- 2 Vent Lights with Halogen Bulb (VLH-100)
- 1 Y-fitting (SY44-6)
- Integral mounting bracket

KIT-TD150F

- 1 TD150 exhaust fan
- 2 Vent Lights with Fluorescent Bulb (VLF-100)
- 1 Y-fitting (SY44-6)
- Integral mounting bracket