



The World's Leading Producer of Air Movement Products





Soler & Palau (S&P) USA and Canada are the most recent additions to, and are wholly owned subsidiaries of, Soler & Palau Ventilation Group which was founded in 1951. S&P is the World's leading producer of air movement products with an emphasis on developing and producing leading edge products to HVAC and other associated industries.

Over the past 50 years the company has expanded its product ranges and operations within Europe and beyond. Across the globe, S&P has established the most effective means through subsidiaries, distributors and partners for the distribution of products. Today S&P has facilities in many countries, among these are: Australia, Belgium, China, England, France, Germany, Holland, Italy, Portugal, Mexico, the USA and Canada. Worldwide, S&P is represented by an established and renowned network of distributors and partner companies.

TD-MIXVENT SERIES

Compact Size-TD Fans require minimum space

The S&P TD-MIXVENT 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 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.



Internal parts can be easily removed for mounting & servicing

Easy to Install...fit and forget!

All the models in the TD-MIXVENT 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 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

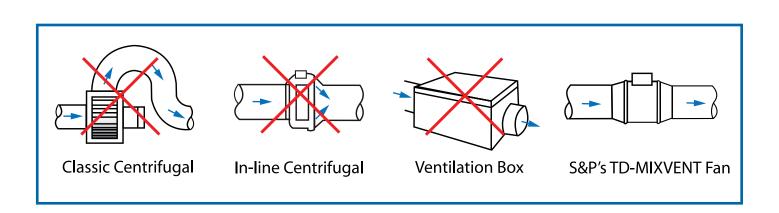
The MIXVENT system has been designed to compliment the TD-MIXVENT range of in-line fans. All of the TD-fans include the combination of a powerful motor, factory installed, to a mixed flow impeller. This motor and impeller combination enables the TD-fans to deliver high airflow performances with minimum 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 fan enables the unit to generate large air volumes and pressures with the minimum of in-duct or radiated noise. As an additional standard advantage, TD-MIXVENT fans are fitted with a direct connection two-speed motor. The TD-fans offer the ideal in-line duct fan solution for a wide range of HVAC ventilation applications.

TD-MIXVENT Fan Kits

The TD ventilation kits enable simple and fast installation of a complete ventilation system. The kits include the powerful TD in-line fan providing efficient exhaust for bathrooms, toilets, washrooms and any other applications that require the removal of bad odors, stuffy and humid air. In addition to the fan, the kits include an interior round grill and an exterior louvered shutter to provide the complete hardware required for a given ventilation system.

Mixed Flow Fans vs. Axial and Centrifugal Fans

Static Noise Level Air Volume **Pressure** High High High **Axial Fans** Low noise levels High air volumes Very little static pressure capability* Low Low High High High **Centrifugal Fans** • Higher noise levels · Lower air volumes Very high static pressure capability* Low Low Low High High High Mixed Flow Fans** · Low noise levels · High air volumes Significant static pressure capability* Low Low Low



^{*}Static pressure is the ability of the fan to overcome resistance such as long or complicated duct runs.

^{**}Mixed flow fans (TD series) offer the best of both axial and centrifugal fans and are suitable for most air movement applications. S&P's **TD-MIXVENT** Series has all the benefits of a mixed flow fan, plus it requires minimal space and it is easy to install.

Practical examples of installation in the TD range

The TD-MIXVENT system offers the most versatile installation range on the market, as a result of its multiple combinations; it can be used in a large number of small and mid-range ventilation installations.





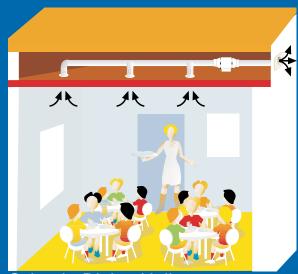
Industrial - Public Restroom



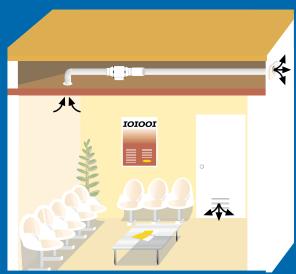
Industrial - Locker Room



Office



School - Dining Hall



Health - Waiting Room



Exercise Room



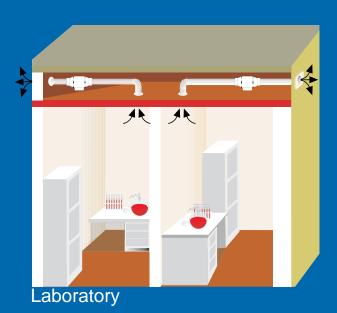
Computer Room



Hair Salon



Copy Room



外

Residential Basement



General details of the TD-MIXVENT range



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



Construction characteristics

	100	100x	125	150	200	250	315
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	•	•	•	•	•	•	•
Speed controllable 2-speed motor	•	•	•	•	•	•	•

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

Low Profile





The low profile of the fans in the TD-MIXVENT range makes them the ideal product for installations with low height limits, such as the case of suspended ceilings.

Easy to Install



Secure the support.



Make the connections.



Connect the ducts.

Flexibility in Location



The fans can be connected at any point along the ventilation duct: along the duct or at the end.

Easy Maintenance



Removable body, for repair or cleaning, without the need to touch the ducts.



TD-MIXVENT

Technical Specifications

Performance characteristics

All models include a direct two speed motor connection.

Martal	Nom.	Malta.	Max.	0		CFM	v Static	Pressure	(SP) Ins	. WG		Max.	Max	Wgt.	Duct
Model	RPM	Volts	Watts	Speed	0"	0.125"	0.25"	0.375"	0.5"	0.75"	1.0"	SP	operating temp. (°F)	(lbs)	Dia. Ins.
TD-100	2431	120	23	LS	97	81	51	1	ı	-	-	.4	104	2	4"
10-100	2516	120	26	HS	101	85	57	ı	ı	•	ı	.4	104	2	4"
TD-100x	1556	120	20	LS	100	77	48	-	-	-	1	.375	104	4.4	4"
1D-100X	2096	120	33	HS	135	113	90	53	•	-	ı	.55	104	4.4	4"
TD-125	1633	120	24	LS	149	110	73	-	-	-	-	.35	104	4.4	5"
10-125	2146	120	38	HS	197	168	133	86	22	-	-	.55	104	4.4	5"
TD-150	1709	120	54	LS	218	193	163	128	105	24	-	.8	140	4.4	6"
10-150	2289	120	65	HS	293	273	250	227	206	131	35	1.15	140	4.4	6"
TD 200	2322	120	139	LS	476	422	373	317	260	40	-	1.38	140	8.8	8"
TD-200	2781	120	184	HS	538	495	458	418	367	190	10	1.625	140	8.8	8"
TD 250	2400	115	162	LS	541	475	418	355	295	218	170	2.03	140	19.8	10"
TD-250	3200	115	241	HS	754	715	680	640	606	520	405	2.53	140	19.8	10"
TD 215	2000	115	208	LS	751	670	545	420	285	190	130	1.62	140	30.9	12.4"
TD-315	2500	115	335	HS	1050	990	932	850	770	600	420	2.95	140	30.9	12.4"

LS= Low Speed HS = High Speed



Soler & Palau USA 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.





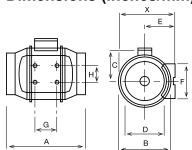
The TD-MIXVENT Models 100, 100x and 150 are California Title 24 compliant and meet ASHRAE 62.2 when installed with a CVC and other TD models are compliant when installed with a 3 way switch and remotely mounted speed control.



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.

Dimensions (inches/mm)



Model	Х	Α	В	С	D	E	F	G	Н
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	17/8 48	2 1/16 52
TD-100x	7 3/8 188	11 15/16 303	6 15/16	4 1/2	3 13/16 97	3 15/16	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	4 1/2	4 13/16 123	3 15/16	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	4 7/16	5 1/8	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	311/16 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	6 5/8	511/16	5 1/2
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

TDx2-MIXVENT

This system is designed for cases in which the fan offers the appropriate flow but the pressure needs to be increased due to complications in the duct.

The TDx2-MIXVENT system is a standard catalog product from models 125 to 250. A TDx2 can also be obtained by connecting 2 identical TD fans using an MBR flange (see accessories page).



TDx2-MIXVENT Pressure increase



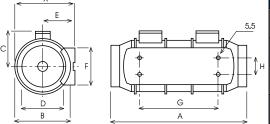
Performance Characteristics

All models include a direct two speed connection.

	Nom.	Nom.	Max.	Conned	CFM v Static Pressure (SP) Ins. WG								Max.	Max	Wgt.	Duct Dia.
Model	RPM	Volts	Watts	Speed	0"	0.25"	0.5"	0.75"	1"	1.5"	2.0"	2.25"	SP	operating temp. (°F)	(lbs)	Ins.
TDv2 425	1651	120	88	LS	146	115	73	-	-	-	-	-	.7	104	12	5"
TDx2-125	2125	120	118	HS	192	159	128	86	33	-	-	-	1.1	104	12	5"
TDx2-150	1924	120	108	LS	239	211	186	160	135	58	-	-	1.6	140	11	6"
1DX2-150	2444	120	130	HS	312	292	271	249	224	154	60	-	2.3	140	11	6"
TDx2-200	2322	120	278	LS	399	377	356	338	322	288	247	163	2.76	140	19	8"
1DX2-200	2781	120	368	HS	479	460	442	425	408	374	341	300	3.25	140	19	8"
TD 0.050	1870	120	336	LS	543	488	440	389	333	250	208	164	3.7	140	41	10"
TDx2-250	2601	120	510	HS	765	729	689	655	621	500	344	275	4.7	140	41	10"

LS= Low Speed HS = High Speed

Dimensions (inches/mm)



	TDx2-MIXVENT	X	Α	В	C	D	ш	Щ	O	Н
	TDx2-125	7 ^{3/8} 188	16 ^{7/16} 417	6 ^{15/16} 176	4 ^{1/8} 115	4 ^{13/16} 123	3 ^{15/16}	3 9/16 90	9 ^{15/16} 253	2 1/8
Н	TDx2-150	8 ^{3/8} 212	18 ^{1/4} 464	7 7/8 200	5 127	5 ^{13/16}	4 111.5	5 ^{1/8} 130	9 ^{13/16} 249	2 1/8
н	TDx2-200	9 1/8 233	19 ^{11/16} 500	8 ^{9/16} 217	5 ^{9/16}	7 ^{13/16} 198	4 ^{7/8} 124	5 ^{1/2}	11 ^{3/4} 298	3 11/16
	TDx2-250	11 ^{7/16} 291	25 ³⁵ 654	10 11/16	7 ^{9/16} 192	9 3/4 248	6 ^{1/8} 155	6 ^{5/8}	16 ^{3/8} 416	5 ^{11/16} 145

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.

MIXVENT FILTER System (TD-MIXVENT + MFL Filtering Box)

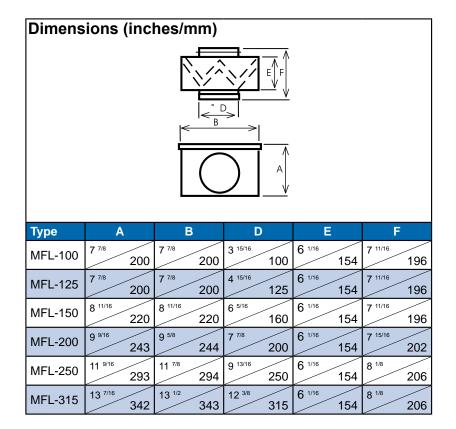
This system is used when the characteristics of the installation require filtered external air to be introduced, to prevent the entry of dust and impurities to the area being ventilated. The MIXVENT FILTER system is composed of a standard TD-MIXVENT fan (from model 100) coupled to a filtering box from the MFL series.

The MFL filtering boxes are the Gravimetric EU3 type, which are capable of filtering between 80-95% of particles greater than 10 microns.





The MFL filtering boxes have an easy open cover, in order to quickly change the filtering element.



TD-MIXVENT Assembly Accessories

Specific assembly accessories for the following series

MCA



Backdraft dampers are installed at the fans' discharge. They prevent the entry of odors, air currents and prevent heat leaks when the exhauster is not in operation. For application to models in the TD and TDx2.

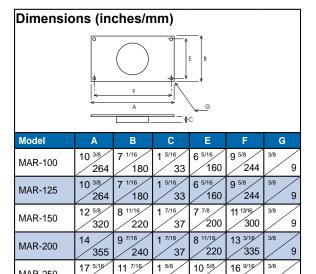
Model	Type TD and TDx2
MCA-100	100
MCA-125	125
MCA-150	150
MCA-200	200
MCA-250	250
MCA-315	315

Dimensions (inches/mm)									
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MCA-100-	315	N	/ICA-355-4	400					
Model	Α	В	С	D					
MCA-100	4 3/16	4 3/8	1 1/4 31	3 11/16 94					
MCA-125	4 3/16	5 ^{3/8} 136	1 1/4 31	4 11/16					
MCA-150	4 3/4	6 7/16	1 ^{3/8} 35	5 ^{13/16} 147					
	5 3/16	8 7/16	1 3/8	7 3/4					
MCA-200	131	214	35	197					
MCA-250	6 3/16	10 ^{3/8} 264	1 5/8 42	9 3/4 248					
MCA-315	8 1/16 205	13 330	1 ^{15/16} 50	12 ^{5/16} 312					



MAR **Connections for rectangular** ducts enable devices from the TD and TDx2 series to be connected to a rectangular duct.

Model	Type TD - TDx2 - TDx3 TWIN	Nominal dim. of ducting L x H (in/mm)
MAR-100	100	9 x 6 224 x 140
MAR-125	125	9 x 6 224 x 140
MAR-150	150	11 x 7 280 x 180
MAR-200	200	12 x 8 315 x 200
MAR-250	250	16 x 10 400 x 250
MAR-315	315	20 x 12 500 x 315



/270

42

52

420

20 1/2/

9

MAR-250

MAR-315

440

290

TD-MIXVENT Assembly Accessories cont...



MRJ

Grills fit on the suction and the discharge sides of the installation. They prevent the entry of foreign bodies which could damage the fan. For application to the models in the TD and TDx2.

Model	Type TD - TDx2 - TDx3 - TWIN
MRJ100	100
MRJ125	125
MRJ150	150
MRJ200	200
MRJ250	250
MRJ315	315



MBR Flanges enable TD devices to connect in a series.

Model	Duct Size
MBR-125	125
MBR-150	150
MBR-200	200
MBR-250	250

TD-MIXVENT Electrical Accessories

CVC - Continuous Ventilation Control



S&P's CVC allow a new or existing bath fan to run continuously on a low speed. In conjunction with an S&P TD fan a CVC will immediately improve the air quality in the home and reduce the damaging effects of moisture and mold.

The CVCs are designed to meet the requirements of

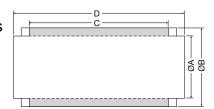
ASHRAE 62.2 and the International Residential Code. In areas where ASHRAE 62.2 is not a requirement, the CVC is still an economical choice to improve indoor air quality.

CVC Model	Fan Model*	Application	Max. Flow	Continuous Flow @ .25"SP	
CVC-100	TD-100	Single Inlet	101 CFM	20 CFM	
CVC-100x	TD-100x	Single Inlet	135 CFM	20 CFM	
CVC-150	TD-150	Single Inlet	218 CFM	20 CFM	
CVC-150	10-150	Dual Inlet	293 CFM	40 CFM	

General assembly accessories



SIL Acoustic attenuators



Model	Α	В	С	D	
SIL-200	7 7/8 200	12 ^{3/8} 315	27 ^{9/16} 700	35 ^{7/16} 900	
SIL-250	9 13/16 250	14 355	27 ^{9/16} 700	35 ^{7/16} 900	
SIL-315	12 ^{3/8} 315	15 ^{3/4} 400	27 ^{9/16} 700	33 ^{14/16} 860	
SIL-355	14 355	17 ^{11/16} 450	27 ^{9/16} 700	33 ^{14/16} 860	
SIL-400	15 ^{3/4}	19 11/16	27 ^{9/16}	33 ^{14/16}	

SIL acoustic attenuator connected with a TD-MIXVENT and a MFL filtering box.

Bathroom Ventilation Concerns...

Solved!



If the strongest, quietest, bathroom exhaust system is what you seek...look no further. S&P offers the perfect solution with the most options. The popular and exclusive TD series Bathroom exhaust kits (for single or dual venting points). All S&P Bath kits offer remotely mounted fans featuring a powerful motor mounted in the attic (away from the living space). The result is a "Turbo" powered fan (much stronger than generally associated with bathroom exhaust) and yet a peacefully quiet operation.



KIT Bathroom Exhaust Kits

The Exhaust Kits in the MIXVENT series are sets of fans and accessories prepared for ventilation installations in small enclosures, especially bathrooms and toilets. **All TD Kits have standard 7-year warranty.**





TD Standard Exhaust Kits

KIT-TD100

- 1 TD100 exhaust fan
- 1 Plastic round grill PG-100
- 1 Exterior louvered shutter

KIT-TD100x

- 1 TD100x exhaust fan
- 1 Plastic round grill PG-100
- 1 Exterior louvered shutter

KIT-TD150

- 1 TD150 exhaust fan
- 1 Plastic round grill PG-150
- 1 Exterior louvered shutter



TD Deluxe Exhaust Kits

KIT-TD150-DV

- 1 TD150 exhaust fan
- 2 Plastic round grills (BOR-150)
- 1 Y-fitting (SY-6)
- 7 Nylon tie wraps (TW-6)
- 1 Integral mounting bracket

* IMPORTANT

If venting in non-insulated attic space or in a cold climate, insulated flexible duct work is recommended to avoid condensation issues.

Additional general assembly accessories



BOR/BOC Round plastic/metal adjustable grill



PGRound grill without built-in backdraft damper



PGDRound grill with built-in backdraft damper



MBR Connection Flanges



PER-WPlastic louver shutter



PERHigh pressure aluminum louver shutter



GRAAluminum exterior fixed grills



MFL Filtering Box



SR Reducer



SYY sheet metal adapter



ID Flexible round duct

Electrical accessories



EPBTElectronic push button timer



SCSSpeed control slide type

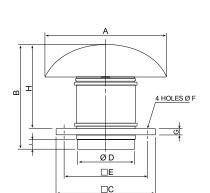


SC Speed control

TH-MIXVENT Series Roof Mounted Fans



S&P is introducing the TH-MIXVENT roof top series powered by the TD-MIXVENT fan. The TH-MIXVENT fans are supplied for exhausting air; however, the motor and impeller housing can be removed and turned 180° to provide supply air ventilation. All models incorporate standard single phase two speed motors. Designed for direct connection to round ducting.











The TH-MIXVENT Series fans are California Title 24 compliant and meet ASHRAE 62.2 when installed with 3 way switch and remotely mounted speed control.

Dimensions (inches/mm)

Model	Α	В	С	D	Е	F	G	Н	
TH-250	21 1/2 546	18 457	17 ^{1/8} 435	9 3/4 248	13 330	1/2	13/16	14 ^{5/8} 372	1 5/8 42
TH-315	28 ^{15/16} 735	21 ^{7/16} 544	22 1/16 560	12 ^{5/16} 312	17 ^{11/16} 450	1/2	13/16	17 ^{11/16} 450	1 ^{15/16} 50

Performance characteristics

Model	RPM	CFM v Static Pressure (SP) Ins. WG								
		0"	0.125"	0.25"	0.375"	0.5"	0.75"	1"	1.25"	
TH-250	2000	431	385	336	285	240	192	157	127	
	2600	605	592	574	510	482	393	318	261	
TH-315	1500	603	522	421	363	260	165	98	43	
	2200	824	757	698	643	581	423	318	242	



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