



The World's Leading Producer of Air Movement Products



## TD In-line Mixed Flow Duct Fans

October 2006

**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 supplier 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 specifically 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 (BOR-100); exterior mounted grill (GR-100); 16 feet of flexible ducting (GSA-100) and a roll of tough duct tape to provide the complete hardware required for a given ventilation system.

# Mixed Flow Fans vs. Axial and Centrifugal Fans

## Axial Fans

- Low noise levels
- High air volumes
- Very little static pressure capability\*

Noise Level

High



Low

Air Volume

High



Low

Static Pressure

High

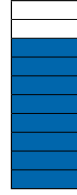


Low

## Centrifugal Fans

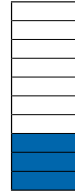
- Higher noise levels
- Lower air volumes
- Very high static pressure capability\*

High



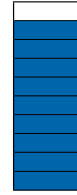
Low

High



Low

High



Low

## Mixed Flow Fans\*\*

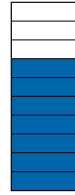
- Low noise levels
- High air volumes
- Significant static pressure capability\*

High



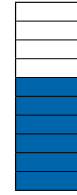
Low

High

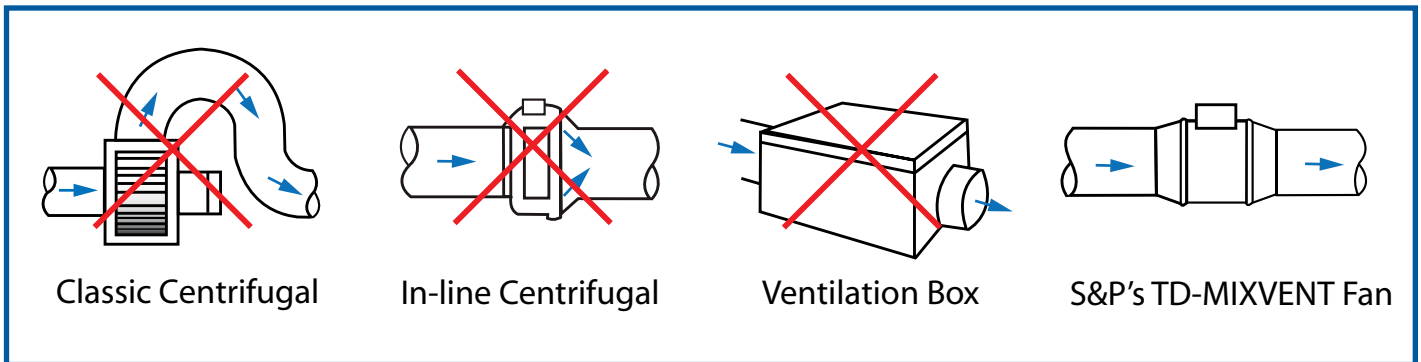


Low

High



Low

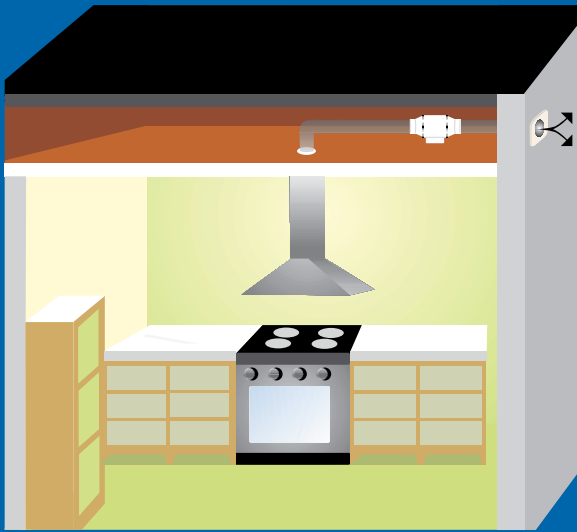


\*Static pressure is the ability of the fan to overcome resistance such as long or complicated duct runs.

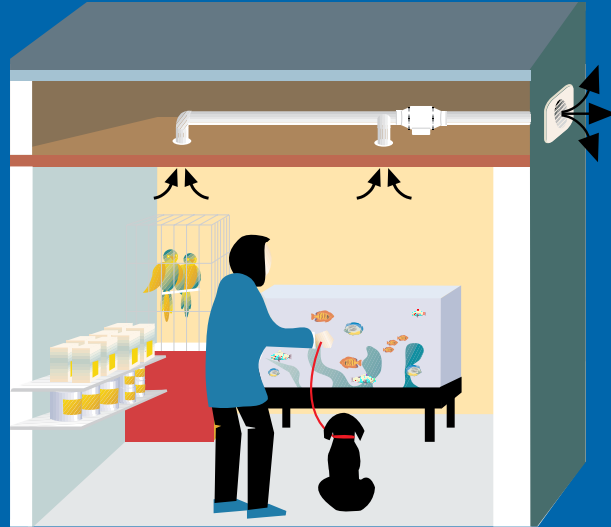
\*\*Mixed flow fans (TD series) offer the best of both axial and centrifugal fans and are suitable for most air movement applications. S&P's **TD-MIXVENT** Series has all the benefits of a mixed flow fan, plus it requires minimal space and it is easy to install.

## Practical examples of installation in the TD range

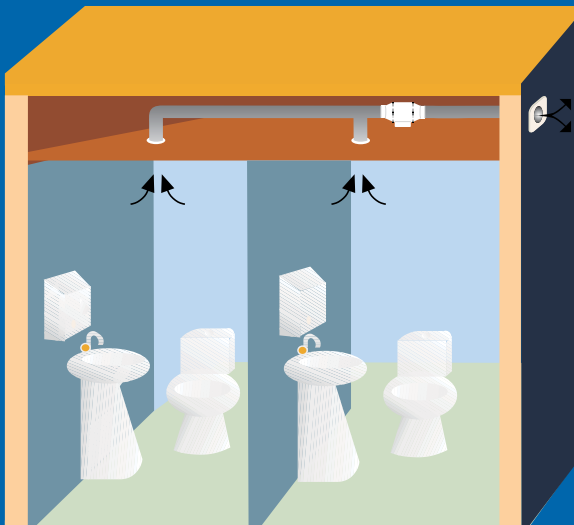
The TD-MIXVENT system offers the most versatile installation range on the market as a result of its multiple combinations; it can be used in a large number of small and mid-range ventilation installations.



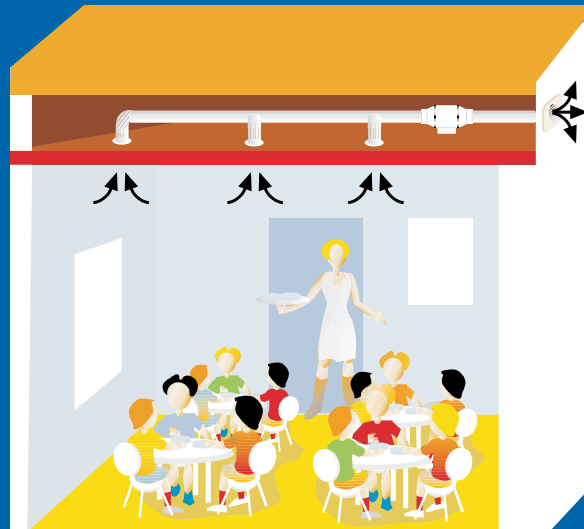
Domestic - Range Hood Exhaust



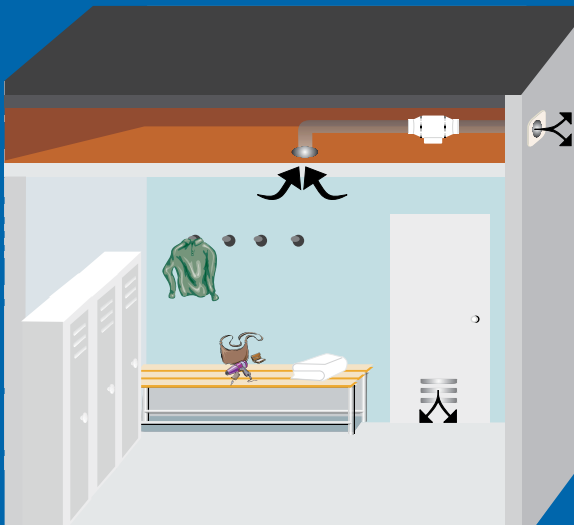
Pet Shop



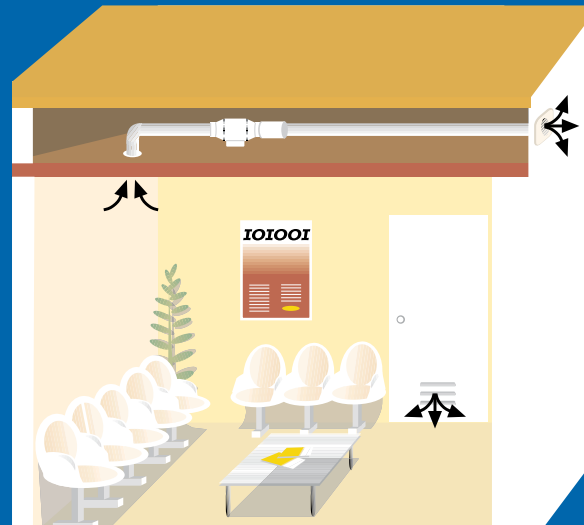
Industrial - Public Restroom



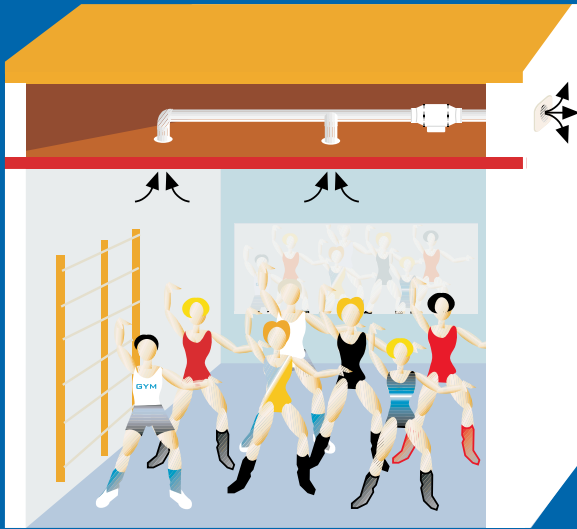
School - Dining Hall



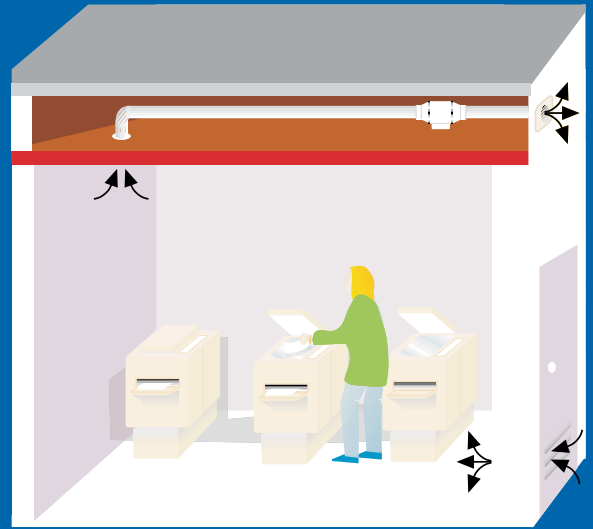
Industrial - Locker Room



Health - Waiting Room



Exercise Room



Copy Room



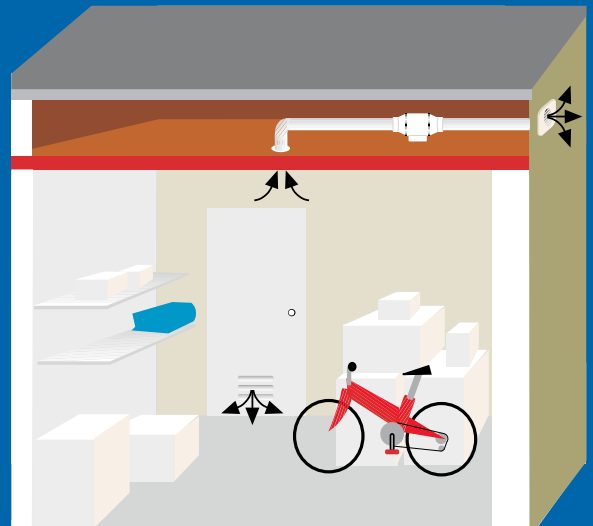
Computer Room



Screen Printing Shop



Hair Salon



Residential Basement

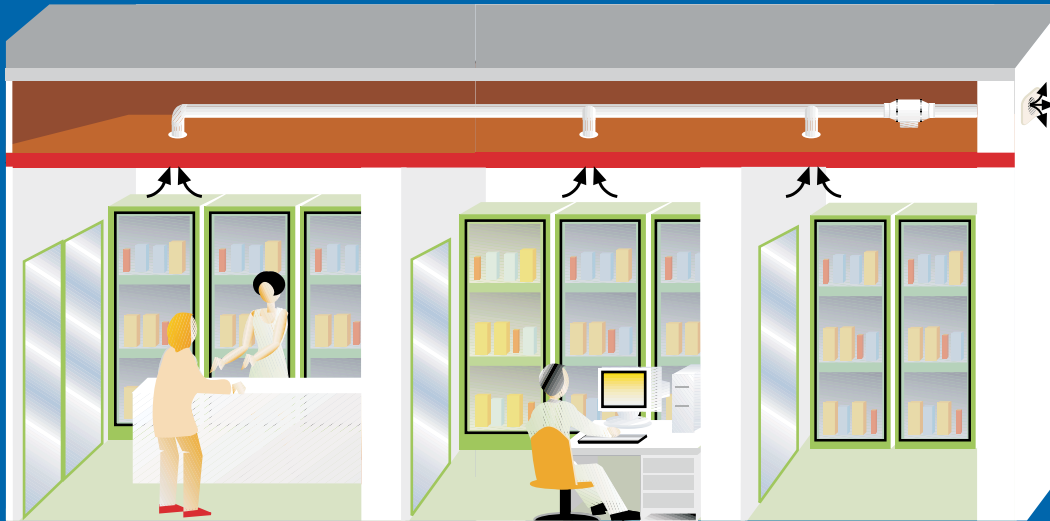
# More Practical Examples . . .



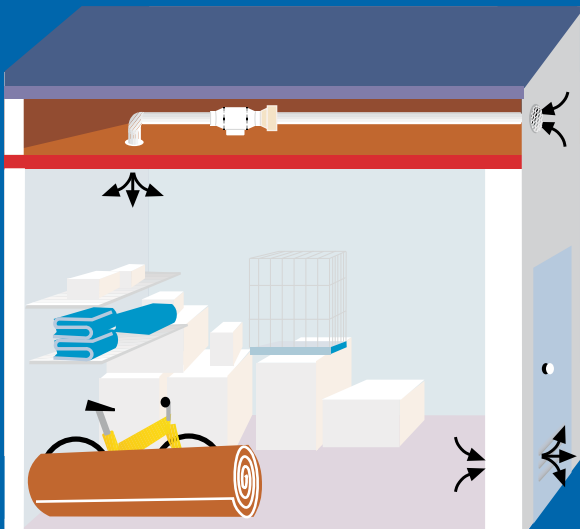
Repair Shop



Restaurant



Pharmacy



Storage Room



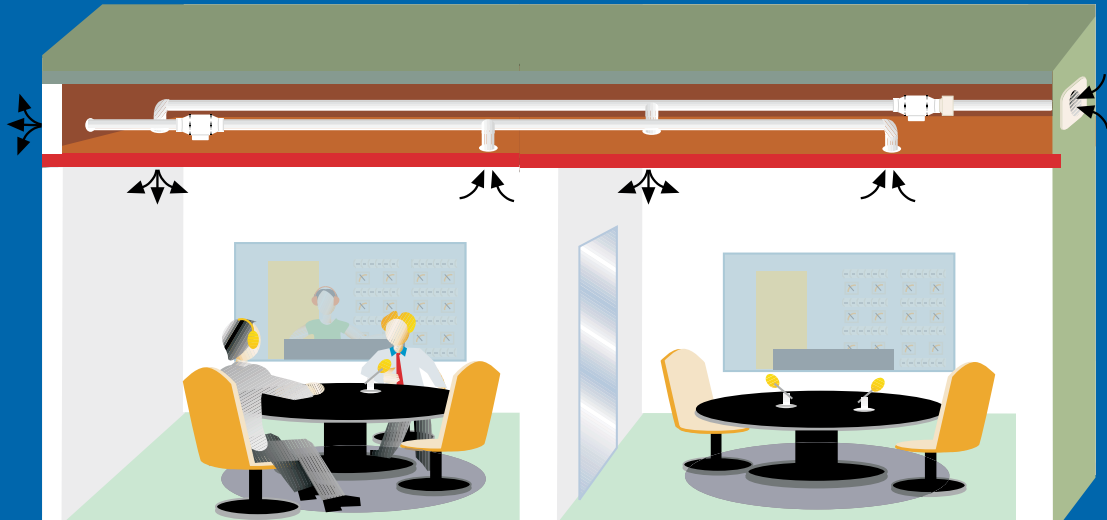
X-Ray Development Room



Dance Hall



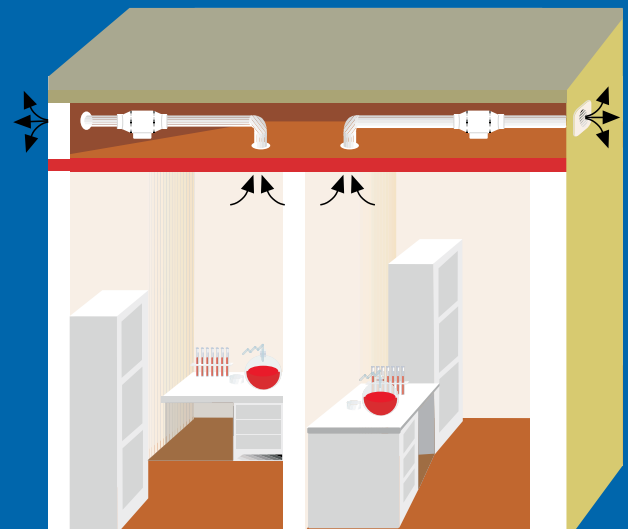
Office



Radio Station



Pizza Place



Laboratory



# 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 up), with external terminal box, removable motor-impeller assembly and adjustable single-phase motor, Class B, IP44.



Supply/Exhaust for ducts ■ TD-MIXVENT

## Construction Characteristics

	100	100x	125	150	200	200x	250	315
Polypropylene housing	•	•	•	•	•	•		
Steel housing with epoxy coating							•	•
ABS fan blades	•	•	•	•		•		
Aluminum fan blades					•		•	•
Motor class	II	II	II	II	II	II	I	I
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.



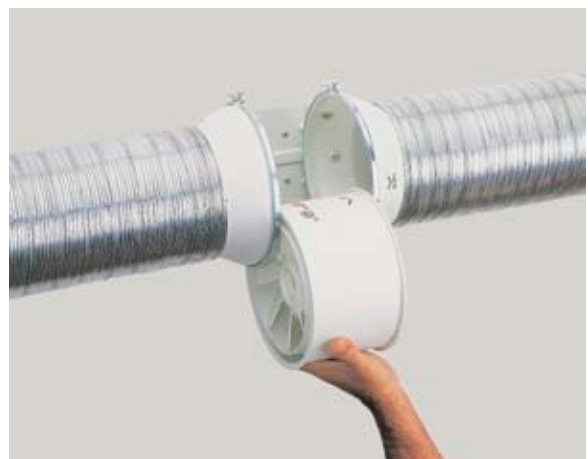
Connect the ducts.

### Flexibility in Location



The TD fans can be connected at any point, including the end, along the ventilation duct.

### Easy Maintenance



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

Supply/Exhaust for ducts ■ TD-MIXVENT





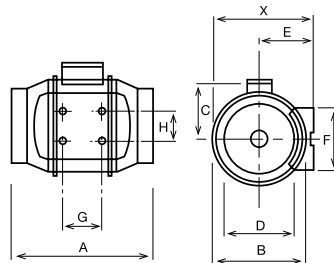
## Performance characteristics

All models 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)	Weight (lbs)	Duct Dia. Ins.
					0"	0.125"	0.25"	0.375"	0.5"	0.75"	1.0"				
TD 100	2431	120	23	LS	97	81	51	-	-	-	-	.4	104	2	4"
	2516	120	26	HS	101	85	57	-	-	-	-	.4	104	2	4"
TD 100x*	1556	120	44	LS	100	77	48	-	-	-	-	.375	104	4.4	4"
	2096	120	60	HS	135	113	90	53	-	-	-	.55	104	4.4	4"
TD 125*	1633	120	44	LS	149	110	73	-	-	-	-	.35	104	4.4	5"
	2146	120	59	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"
	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"
	2781	120	184	HS	538	495	458	418	367	190	10	1.625	140	8.8	8"
TD 200x	1935	120	122	LS	419	393	363	327	295	215	107	1.4	140	8.8	8"
	2467	120	169	HS	478	457	432	402	372	285	192	1.75	140	8.8	8"
TD 250	2400	115	162	LS	541	475	418	355	295	218	170	2.03	140	19.8	10"
	3200	115	241	HS	754	715	680	640	606	520	405	2.53	140	19.8	10"
TD 315	2000	115	208	LS	751	670	545	420	285	190	130	1.62	140	30.9	12.4"
	2500	115	335	HS	1050	990	932	850	770	600	420	2.95	140	30.9	12.4"

LS= Low Speed  
HS = High Speed

TD 250 & 315 are UL listed for outdoor use.



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.



\*TD 100x and 125 are currently not Energy Star certified



## Dimensions (inches/mm)

Model	X	A	B	C	D	E	F	G	H
TD-100	5 15/16	9 1/8	5 7/16	3 3/4	3 7/8	3 1/4	3 3/4	1 7/8	5 3/16
	151	232	138	96	98	82	95	48	131
TD-100x	7 3/8	11 15/16	6 15/16	4 1/8	3 13/16	3 15/16	3 9/16	3 1/8	2 1/8
	188	303	176	115	97	100	90	80	60
TD-125	7 3/8	16 7/16	6 15/16	4 1/8	4 13/16	3 15/16	3 9/16	3 1/8	2 3/8
	188	258	176	115	123	100	90	80	60
TD-150	8 3/8	18 1/4	7 7/8	5	5 13/16	4 3/8	5 1/8	3 1/8	2 1/4
	212	295	200	127	147	112	130	80	60
TD-200	9 1/8	19 11/16	8 9/16	5 9/16	7 13/16	4 7/8	5 1/2	3 15/16	3 11/16
	233	302	217	141	198	124	140	100	94
TD-200x	9 1/8	19 11/16	8 9/16	5 9/16	7 13/16	4 7/8	5 1/2	3 15/16	3 11/16
	233	302	217	141	198	124	140	100	94
TD-250	11 7/16	25 3/4	10 11/16	7 9/16	9 3/4	6 1/8	6 5/8	5 11/16	5 1/2
	291	386	272	192	248	155	168	145	140
TD-315	14	17 3/4	13 1/4	8 13/16	12 1/4	7 3/8	8 1/4	7 3/16	7
	356	450	336	224	312	188	210	182	178

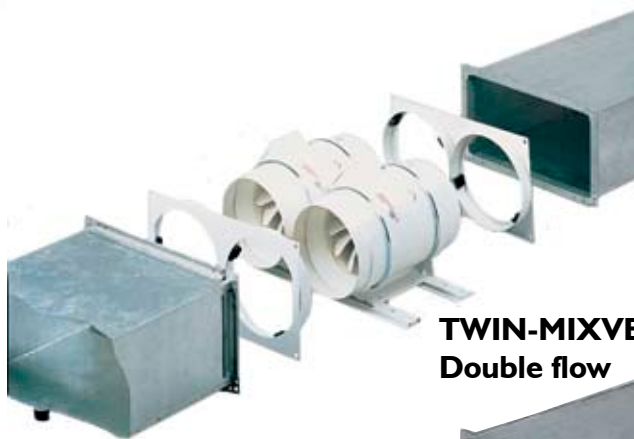
## Sound Characteristics

Fan sound levels are measured in sones. At this time there are no sone level test standards available through HVI or AMCA 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. Until a test method is available, no sound data can be made available. However, it is generally accepted that remote mounted venting is usually quieter than standard (in-room) venting.

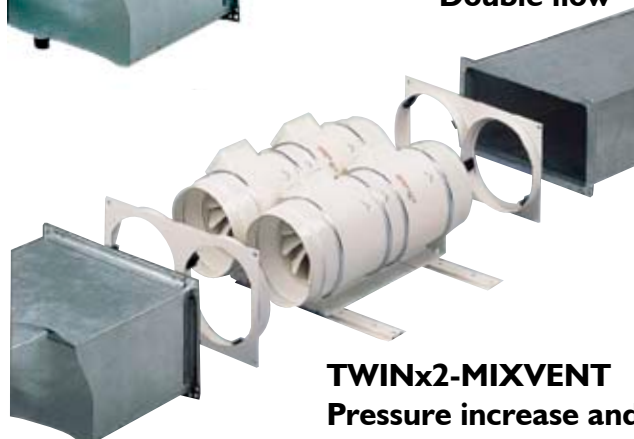
S&P has designed the **TD-Mixvent System** to offer a **wide range of solutions based on the fans in the TD range**, without losing the range's differential concept, which is the ability to exhaust **the greatest quantity of air while occupying the minimum amount of space**. See *pages 13-17 for more details*.



**TDx2-MIXVENT and TDx3-MIXVENT**  
Pressure increase



**TWIN-MIXVENT**  
Double flow



**TWINx2-MIXVENT**  
Pressure increase and double flow



## 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).



### Performance Characteristics

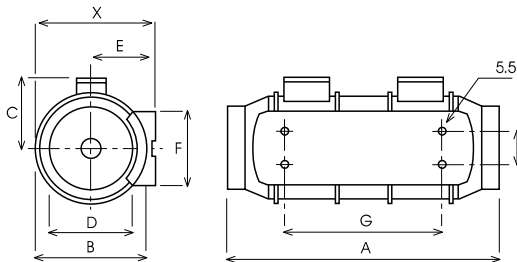
All models include a direct two speed connection.

Model	Nom. RPM	Volts	Max. Watts	Speed	CFM v Static Pressure (SP) Ins. WG								Max. SP	Max operating temp. (°F)	Weight (lbs)	Duct Dia. Ins.
					0"	0.25"	0.5"	0.75"	1"	1.5"	2.0"	2.25"				
TDx2-125	1651	120	88	LS	146	115	73	-	-	-	-	-	.7	104	12	5"
	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"
	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"
	2781	120	368	HS	479	460	442	425	408	374	341	300	3.25	140	19	8"
TDx2-200x	1935	120	244	LS	392	380	369	352	338	301	211	79	2.8	140	19	8"
	2467	120	169	HS	508	496	483	469	454	427	390	332	3.5	140	19	8"
TDx2-250	1870	120	336	LS	543	488	440	389	333	250	208	164	3.7	140	41	10"
	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	A	B	C	D	E	F	G	H
TDx2-125	7 3/8 188	16 7/16 417	6 15/16 176	4 1/8 115	4 13/16 123	3 15/16 100	3 9/16 90	9 15/16 253	2 1/8 60
TDx2-150	8 3/8 212	18 1/4 464	7 7/8 200	5 127	5 13/16 147	4 111.5	5 1/8 130	9 13/16 249	2 1/8 60
TDx2-200	9 1/8 233	19 11/16 500	8 9/16 217	5 9/16 141	7 13/16 198	4 7/8 124	5 1/2 140	11 3/4 298	3 11/16 94
TDx2-250	11 7/16 291	25 35/64 654	10 11/16 272	7 9/16 192	9 3/4 248	6 1/8 155	6 5/8 168	16 3/8 416	5 11/16 145

### Sound Characteristics

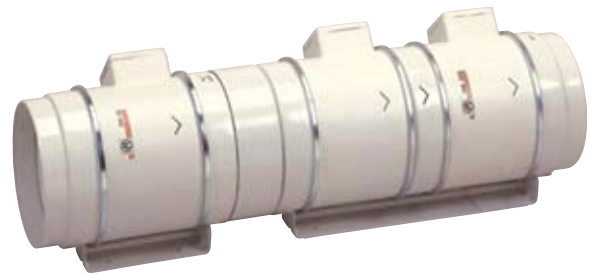
Fan sound levels are measured in sones. At this time there are no sone level test standards available through HVI or AMCA due to the fact that remote mounted fan noise levels are in proportion to the following: type of duct, length of duct, fan distance from the intake source and other miscellaneous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

## TDx3-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 TDx3-MIXVENT system is obtained by connecting a TDx2-MIXVENT to another fan using an MBR flange.

Technically, more units can be installed in a series to increase the pressure, however, it is recommended to carry out a study to find another solution.



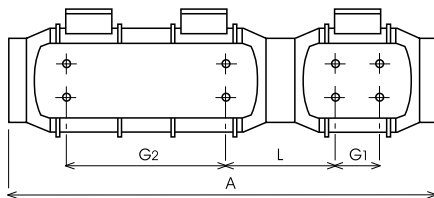
### TDx3-MIXVENT configuration



TDx3-MIXVENT	Composition
TDx3-125	TD-125 + TDx2-125 + MBR-125
TDx3-150	TD-150 + TDx2-150 + MBR-150
TDx3-200	TD-200 + TDx2-200 + MBR-200
TDx3-250	TD-250 + TDx2-250 + MBR-250

**Note:** Fans in series double the total pressure capability without affecting the air flow volume. i.e. Read CFM from performance chart on page 9 and double SP.

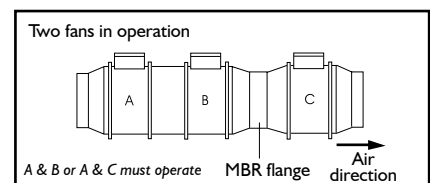
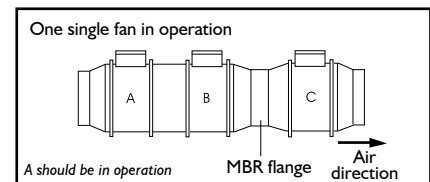
### Dimensions (inches/mm)



TDx3-MIXVENT	A	G	G	L
TDx3-125	29 3/4 755	3 1/8 80	9 15/16 253	8 3/8 213
TDx3-150	30 3/16 766	3 1/8 80	9 3/16 249	8 3/4 223
TDx3-200	31 9/16 801	3 15/16 100	11 3/8 298	8 207
TDx3-250	41 9/16 1055	5 1/16 145	16 3/8 416	9 11/16 246



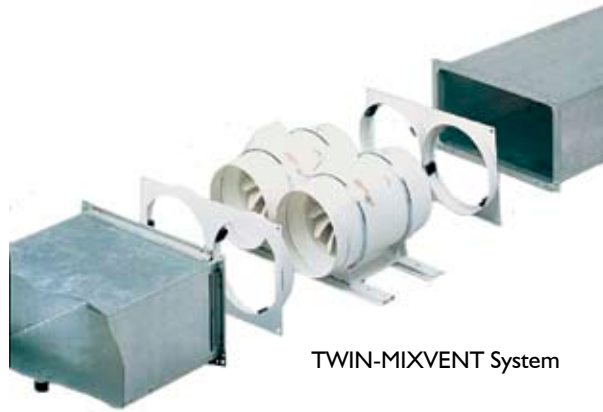
MBR flange





## TWIN-MIXVENT

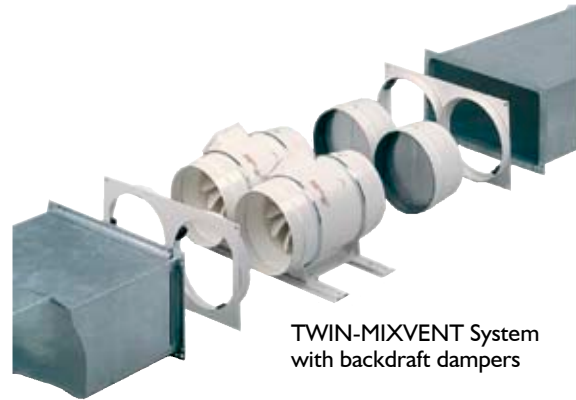
This system is designed for cases in which greater flows need to be installed in a small space or where it is necessary to provide additional air flow. It is also used in installations where it is necessary to fit a **double discharge and exhaust** system with the same characteristics. The TWIN-MIXVENT system is connected by the user, using standard fans. For this purpose, a kit (KIT TWIN BASE) is needed which enables the parallel assembly of two identical TD's, from model 100 to 315.



TWIN-MIXVENT System

Once it is assembled, the unit is connected with flanges at the suction and the discharge, in order to connect it to a rectangular duct.

If the fans are not always going to work simultaneously, it is advised to install backdraft dampers to prevent the recycling of part of the air through the stopped fan.



TWIN-MIXVENT System with backdraft dampers

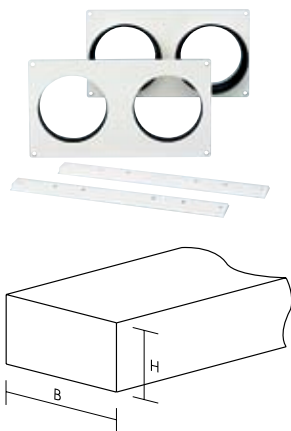
### TWIN-MIXVENT Elements

KIT TWIN BASE-100 + 2 TD-100
KIT TWIN BASE-100 + 2 TD-100x
KIT TWIN BASE 125 + 2 TD-125
KIT TWIN BASE-150 + 2 TD-150
KIT TWIN BASE-200 + 2 TD-200
KIT TWIN BASE 250 + 2 TD-250
KIT TWIN BASE-315 + 2 TD-315

**Note:** Fans in parallel double the airflow volume without affecting the pressure capability. i.e. Read CFM from performance chart on page 9 and double airflow volume.

### KIT TWIN BASE

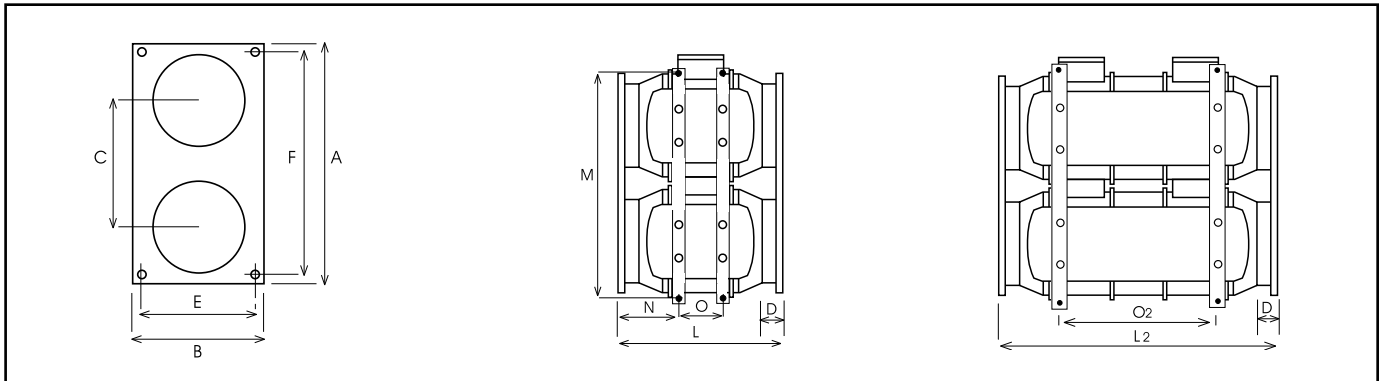
Composed of two rectangular attachments with standardized dimensions and two supports which enable two TD's or two TDx2's to be fitted in parallel.



KIT TWIN BASE	Dimensions (in/mm)		Nominal dimensions of the rectangular duct (in/mm)	
	L	H	L	H
KIT TWIN BASE-100	12 <sup>5</sup> / <sub>8</sub> 320	7 <sup>1</sup> / <sub>16</sub> 180	11 280	5 <sup>1</sup> / <sub>2</sub> 140
KIT TWIN BASE-125	12 <sup>5</sup> / <sub>8</sub> 320	7 <sup>1</sup> / <sub>16</sub> 180	11 280	5 <sup>1</sup> / <sub>2</sub> 140
KIT TWIN BASE-150	15 <sup>9</sup> / <sub>16</sub> 395	8 <sup>11</sup> / <sub>16</sub> 220	14 355	7 <sup>1</sup> / <sub>16</sub> 180
KIT TWIN BASE-200	17 <sup>5</sup> / <sub>16</sub> 440	9 <sup>7</sup> / <sub>16</sub> 240	15 <sup>3</sup> / <sub>4</sub> 400	7 <sup>7</sup> / <sub>8</sub> 200
KIT TWIN BASE-250	21 <sup>1</sup> / <sub>4</sub> 540	11 <sup>7</sup> / <sub>16</sub> 290	19 <sup>11</sup> / <sub>16</sub> 500	9 <sup>13</sup> / <sub>16</sub> 250
KIT TWIN BASE-315	27 <sup>3</sup> / <sub>16</sub> 690	13 <sup>3</sup> / <sub>16</sub> 355	24 <sup>13</sup> / <sub>16</sub> 630	12 <sup>6</sup> / <sub>16</sub> 315

The independent operation of the TDs makes it necessary to provide backdraft dampers to be installed at the discharge of the TD fans to prevent the recycling of the air through the stopped fan.

## Dimensions (inches/mm)



Type	A	B	C	D	E	F	L	L <sub>2</sub>	M	N	O	O <sub>2</sub>
Twin-100	12 5/8 320	7 1/16 180	7 1/4 184	1 7/16 36	6 5/16 160	11 13/16 300	12 305	—	14 3/4 375	4 7/16 113	3 1/8 80	—
Twin-125	12 5/8 320	7 1/16 180	7 1/4 184	1 5/16 33 1/2	6 5/16 160	11 13/16 300	12 305	18 11/16 475	13 1/8 333	3 9/16 91	3 1/8 80	9 15/16 253
Twin-150	15 9/16 395	8 11/16 220	8 1/8 206	1 7/16 37	7 7/8 200	14 3/4 375	12 3/16 310	18 15/16 481	16 7/16 417	4 5/16 110	3 1/8 80	9 13/16 249
Twin-200	17 5/16 440	9 7/16 240	8 7/8 225	1 7/16 37	8 11/16 220	16 9/16 420	12 1/2 317	20 1/16 509	17 15/16 456	4 1/16 103	3 5/16 100	11 3/4 298
Twin-250	21 1/4 540	11 7/16 290	11 1/8 282	1 3/4 44	10 5/8 270	20 1/2 520	15 13/16 401	26 3/4 679	26 3/4 566	4 13/16 123	5 1/16 145	16 3/8 416
Twin-315	27 3/16 690	14 355	13 11/16 347	2 1/16 53	13 3/16 335	25 9/16 650	17 3/4 451	—	27 1/2 699	5 3/8 136	7 3/16 182	—

## Sound Characteristics

Fan sound levels are measured in sones. At this time there are no sone level test standards available through HVI or AMCA 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. Until a test method is available, no sound data can be made available. However, it is generally accepted that remote mounted venting is usually quieter than standard (in-room) venting.

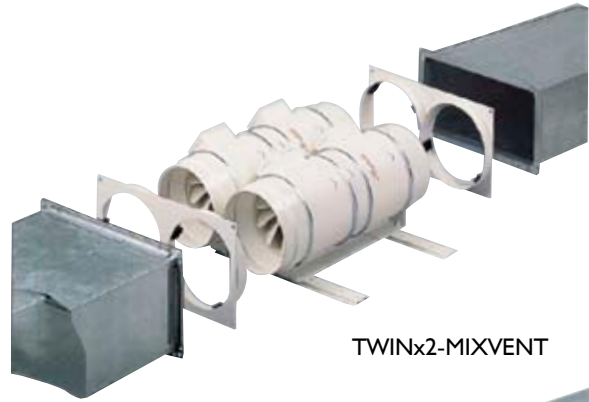


## TWINx2-MIXVENT

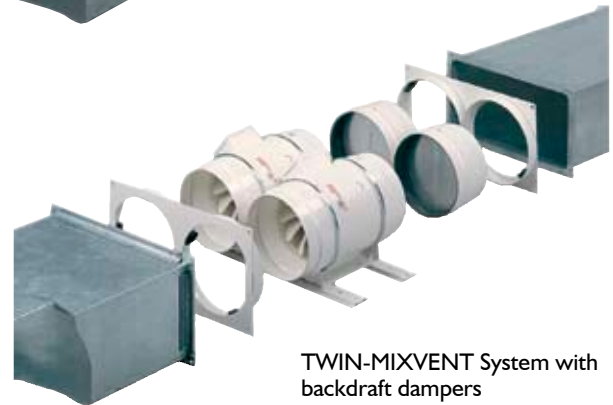
This system is designed for cases in which the flow and the pressure need to be increased, for installation in a small space. The TWINx2-MIXVENT system is connected by the user, using standard fans. For this purpose, a kit (KIT TWIN BASE) is needed to enable the parallel assembly of two identical TDx2's, from model 125 to 250.

Once it is assembled, the unit is connected with the flanges at the suction and the discharge, in order to connect it to a rectangular duct.

If the fans are not always going to work simultaneously, it is advisable to install backdraft dampers to prevent the recycling of part of the air through the stopped fan.



TWINx2-MIXVENT



TWIN-MIXVENT System with backdraft dampers

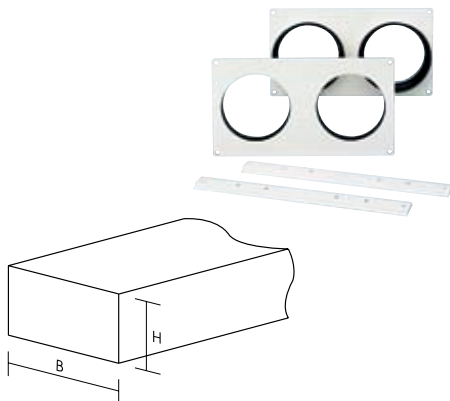
### TWINx2-MIXVENT Elements

KIT TWIN BASE-350 + 2 TDx2-125
KIT TWIN BASE-500 + 2 TDx2-150
KIT TWIN BASE-800 + 2 TDx2-200
KIT TWIN BASE-1000 + 2 TDx2-200
KIT TWIN BASE-1000 + 2 TD-250

**Note:** Fans in parallel and in series double the airflow volume and the pressure capability. i.e. Read CFM from performance chart on page 9 and double both.

### KIT TWIN BASE

Composed of two rectangular attachments with standardized dimensions and two supports which enable two TD's or two TDx2's to be fitted in parallel.



KIT TWIN BASE	Dimensions (in/mm)		Nominal dimensions of the rectangular duct (in/mm)	
	L	H	L	H
KIT TWIN BASE-100	12 5/8 320	7 1/16 180	11 280	5 1/2 140
KIT TWIN BASE-125	12 5/8 320	7 1/16 180	11 280	5 1/2 140
KIT TWIN BASE-150	15 9/16 395	8 11/16 220	14 355	7 1/16 180
KIT TWIN BASE-200	17 5/16 440	9 7/16 240	15 3/4 400	7 7/8 200
KIT TWIN BASE-250	21 1/4 540	11 7/16 290	19 11/16 500	9 13/16 250
KIT TWIN BASE-315	27 3/16 690	13 3/16 355	24 13/16 630	12 6/16 315

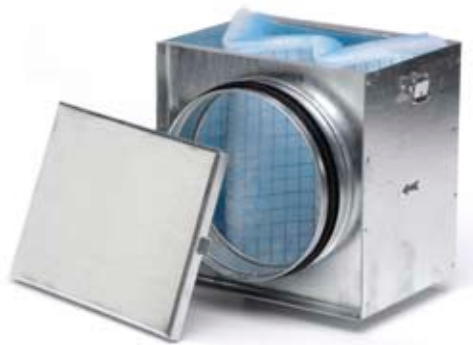
The independent operation of the TDs makes it necessary to provide backdraft dampers to be installed at the discharge of the TD fans to prevent the recycling of the air through the stopped fan.



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

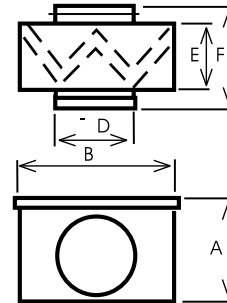
This system is used when the characteristics of the installation require filtered external air to be introduced, to prevent the entry of dust and impurities to the area being ventilated. The MIXVENT FILTER system is composed of a standard TD-MIXVENT fan (from model 100) coupled to a filtering box from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

**Dimensions (inches/mm)**



Type	A	B	D	E	F
MFL-100	7 7/8 200	7 7/8 200	3 15/16 100	6 1/16 154	7 11/16 196
MFL-125	7 7/8 200	7 7/8 200	4 15/16 125	6 1/16 154	7 11/16 196
MFL-150	8 11/16 220	8 11/16 220	6 5/16 160	6 1/16 154	7 11/16 196
MFL-200	9 9/16 243	9 5/8 244	7 7/8 200	6 1/16 154	7 15/16 202
MFL-250	11 9/16 293	11 7/8 294	9 13/16 250	6 1/16 154	8 1/8 206
MFL-315	13 7/16 342	13 1/2 343	12 3/8 315	6 1/16 154	8 1/8 206



# TD-MIXVENT assembly accessories

Specific assembly accessories for the following series:

## MCA

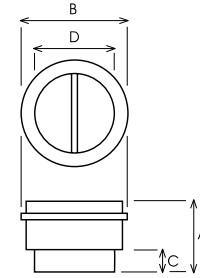


**Backdraft dampers** are installed at the fans' discharge. They prevent the entry of odors, air currents and prevent heat leaks when the exhauster is not in operation.

For application to models in the TD, TDx2, TDx3, and TWIN Series.

Model	Type TD - TDx2 - TDx3 - TWIN
MCA-100	100
MCA-125	125
MCA-150	150
MCA-200	200
MCA-250	250
MCA-315	315

Dimensions (inches/mm)



Model	A	B	C	D
MCA-100	4 3/16 107	4 3/8 111	1 1/4 31	3 11/16 94
MCA-125	4 3/16 107	5 3/8 136	1 1/4 31	4 11/16 119
MCA-150	4 3/4 121	6 7/16 163	1 3/8 35	5 13/16 147
MCA-200	5 3/16 131	8 7/16 214	1 3/8 35	7 3/4 197
MCA-250	6 3/16 164	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

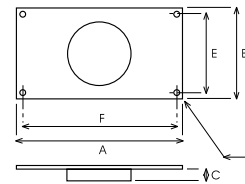
## MAR



**Connections for rectangular ducts** enable devices from the TD, TDx2 and TDx3 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

Dimensions (inches/mm)



Model	A	B	C	E	F	G
MCA-100	4 3/16 107	4 3/8 111	1 1/4 31	6 5/16 160	9 5/8 244	3/8 9
MCA-125	4 3/16 107	5 3/8 136	1 1/4 31	6 5/16 160	9 5/8 244	3/8 9
MCA-150	4 3/4 121	6 7/16 163	1 3/8 35	7 7/8 200	11 13/16 300	3/8 9
MCA-200	5 3/16 131	8 7/16 214	1 3/8 35	8 11/16 220	13 3/16 335	3/8 9
MCA-250	6 3/16 164	10 3/8 264	1 5/8 42	10 5/8 270	16 9/16 420	3/8 9
MCA-315	8 1/16 205	13 330	1 15/16 50	14 355	20 1/2 520	3/8 9

## MRJ



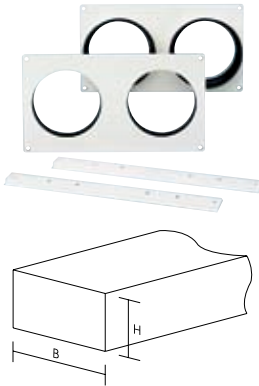
**Grills** fit on the suction and the discharge sides of the installation. They prevent the entry of foreign bodies which could damage the fan. For application to the models in the TD, TDx2, TDx3 and TWIN Series.

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



**KIT TWIN BASE** is composed of two rectangular attachments with standardized dimensions and two supports which enable two TD's or two TDx2's to be connected in parallel.

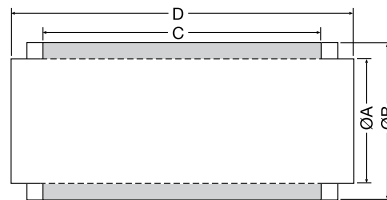
KIT TWIN BASE	Dimensions (in/mm)		Nominal dimensions of the rectangular duct (in/mm)	
	L	H	L	H
KIT TWIN BASE-100	12 5/8 320	7 1/16 180	11 280	5 1/2 140
KIT TWIN BASE-125	12 5/8 320	7 1/16 180	11 280	5 1/2 140
KIT TWIN BASE-150	15 9/16 395	8 11/16 220	14 355	7 1/16 180
KIT TWIN BASE-200	17 5/16 440	9 7/16 240	15 3/4 400	7 7/8 200
KIT TWIN BASE-250	21 1/4 540	11 7/16 290	19 11/16 500	9 13/16 250
KIT TWIN BASE-315	27 3/16 690	13 3/16 355	24 13/16 630	12 6/16 315

The independent operation of the TDs makes it necessary to provide backdraft dampers to be installed at the discharge of the TD fans to prevent the recycling of the air through the stopped fan.

## General Assembly Accessories



**SIL**  
Acoustic attenuators



Model	A	B	C	D
SIL-125	5 125	9 13/16 250	27 9/16 700	35 7/16 900
SIL-150	6 5/16 160	9 13/16 250	27 9/16 700	35 7/16 900
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 3/4 400	19 11/16 500	27 9/16 700	33 14/16 860



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



## 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.



### TD Standard Exhaust Kits

#### KIT-TD100

Composed of:

- 1 TD-100 exhaust fan
- 4 in. Flexible ducting GSA (13 ft.)
- 1 Plastic round grill BOR-100
- 1 Exterior fixed grill GR-100
- 1 Roll adhesive tape BA

#### KIT-TD100x

Composed of:

- 1 TD-100x exhaust fan
- 4 in. Flexible ducting GSA (13 ft.)
- 1 Plastic round grill BOR-100
- 1 Exterior fixed grill GR-100
- 1 Roll adhesive tape BA

#### KIT-TD150

Composed of:

- 1 TD-150 exhaust fan
- 6 in. Flexible ducting GSA (13 ft.)
- 1 Plastic round grill BOR-150
- 1 Roll adhesive tape BA



### 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 an attic space, insulated flexible duct work is required to avoid condensation issues.



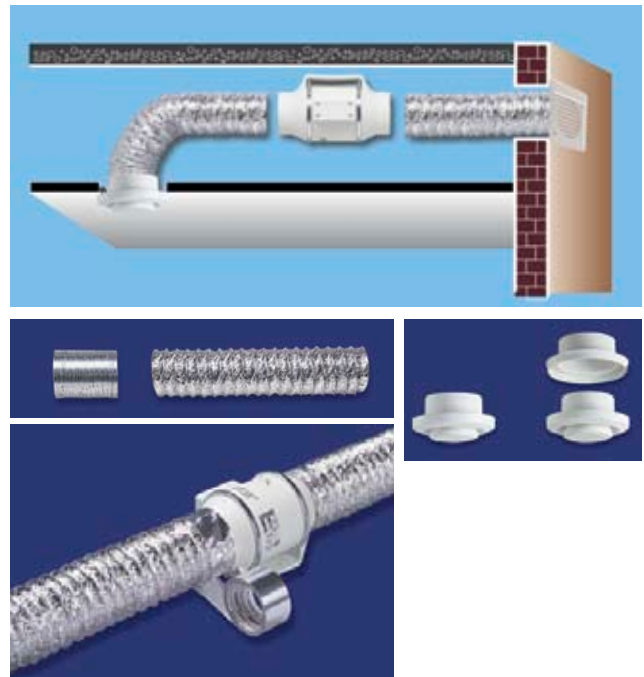
# Bathroom Ventilation Concerns. . .

# 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 Installation and Assembly



### Accessories included



**GR**  
Exterior fixed grill



**BOR**  
Plastic round grill



**GSA**  
Round flexible aluminum tube with a diameter of 4 in. and a length of 13 ft. (Only in kits, not sold separately.)



**BA**  
Adhesive aluminum tape to secure the elements which compose the remote extraction kits (duct, flange, hood or unit, and extractor). Length 16 ft. (Only in kits, not sold separately.)

Supply/Exhaust for ducts ■ TD-MIXVENT



## General Assembly Accessories



**BOR/BOC**  
Round plastic/metal adjustable grill



**MBR**  
Connection Flanges



**PER-W**  
Plastic louver shutter



**PER**  
High pressure aluminum louver shutter



**GRA**  
Aluminum exterior fixed grills



**MFL**  
Filtering Box



**SR**  
Reducer



**SY**  
Y sheet metal adapter



**ID**  
Flexible round duct

## Electrical Accessories



**EPBT**  
Electronic push button timer



**SCS**  
Speed control slide type



**SC**  
Speed control



Coming Soon

## Roof Mounted Fans

### TH-MIXVENT Series

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.



New Product ■ TH-MIXVENT

Contact S&P or your local distributor for more details.



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