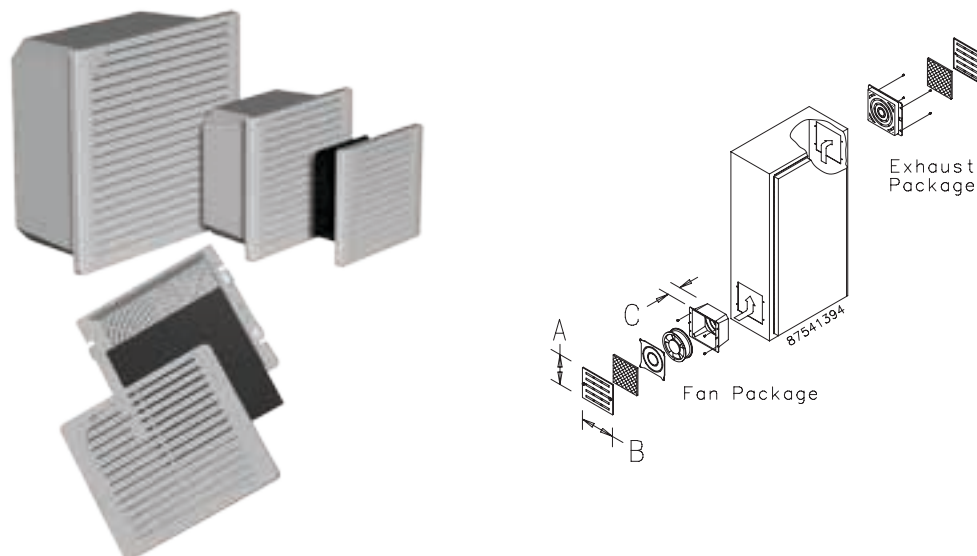


TFP SIDE-MOUNT



INDUSTRY STANDARDS

UL 508A Component Recognized, File Number E61997
TFP# Models: Type 1
TFP# UL 12 Models: Type 12

CSA certified (fan only)
CE

APPLICATION

Cooling Fan and Exhaust Packages are designed for limited-space enclosures that require a reliable and filtered airflow. Where positive airflow is not required, Exhaust Packages can be used on both the inlet and outlet. Engineered for 50,000 hours of continuous operation without lubrication or service. For both Type 1 and Type 12 systems a monthly maintenance schedule is recommended to ensure optimal cooling performance.

FEATURES

- Cooling Fan Package includes fan, air filter, composite air plenum, finger guard and grille
- Exhaust Package includes air filter, filter retainer with integral finger guard and grille
- EMC Upgrade Kit includes a grille standoff collar and a special EMC shielding grille
- Washable foam (Type 1) or disposable (Type 12) filter in fan. Optional washable aluminum air filter is available for Type 1 applications.
- Dynamically-balanced fan impellers molded from polycarbonate material
- 4-in. fan is thermally protected and uses permanently-lubricated ball bearings
- 6- and 10-in. fans have ball bearing construction and split-capacitor motors that are thermally protected to avoid premature failure

- Fans have leadwires for power connection with ends stripped 1/2 in. (12 mm)
- All mounting hardware and installation instructions are furnished

Filters

Standard Type 1 air filters are washable foam.

Type 12 air filters are not washable.

Installation

Fan and exhaust packages can be installed on any surface of an enclosure. They are most effective when the fan assembly is located on a lower panel of the enclosure and the exhaust grille is positioned near the top of the opposite side. This installation assists heat transfer by causing slightly more turbulence and also prolongs the working life of the fan since it is located in the path of the cooler air entering the enclosure.

The height and width of the cooling fans and exhaust grilles can be rotated 90 degrees for mounting on narrow enclosures. Allow adequate clearance for servicing the fan when equipment is installed inside the enclosure and for replacing filters on both the fan and the exhaust. Cutout dimensions for both the fan and the exhaust are shown in the order table. Order the fan and exhaust packages separately.

FINISH

Stainless steel grilles have brushed finish.
ABS composite grille is black.

ACCESSORIES

Aluminum Type 1 and Hi-Density Type 12 Filters

EMC Upgrade Kit

Grille Options:

- Stainless Steel
- Black ABS Plastic

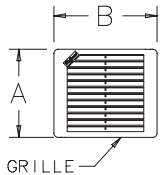
BULLETIN: D85

Standard Product and Cutout Dimensions **Cooling Fan and Exhaust Packages**

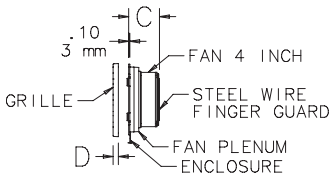
Catalog Number	AxBxC in./mm	Material and Type	Use with Exhaust Grille	Nominal Fan Size	D in./mm	F in./mm	H in./mm	T in./mm	W in./mm
TFP424	6.29 x 7.37 x 2.35 160 x 187 x 67	Composite Grille UL 508 Type 1	TEP4	4	0.45 11	5.66 144	0.77 20	4.12 105	6.39 162
TFP41	6.29 x 7.37 x 2.65 160 x 187 x 67	Composite Grille UL 508 Type 1	TEP4	4	0.45 11	5.66 144	0.77 20	4.12 105	6.39 162
TFP41SS	6.29 x 7.37 x 2.65 160 x 187 x 67	Stainless Steel Grille UL 508 Type 1	TEP4SS	4	0.45 11	5.66 144	0.77 20	4.12 105	6.39 162
TFP41UL12	6.29 x 7.37 x 2.65 160 x 187 x 67	Composite Grille UL 508 Type 12	TEP4UL12	4	0.45 11	5.66 144	0.77 20	4.12 105	6.39 162
TFP42	6.29 x 7.37 x 2.65 160 x 187 x 67	Composite Grille UL 508 Type 1	TEP4	4	0.45 11	5.66 144	0.77 20	4.12 105	6.39 162
TFP42SS	6.29 x 7.37 x 2.65 160 x 187 x 67	Stainless Steel Grille UL 508 Type 1	TEP4SS	4	0.45 11	5.66 144	0.77 20	4.12 105	6.39 162
TFP42UL12	6.29 x 7.37 x 2.65 160 x 187 x 67	Composite Grille UL 508 Type 12	TEP4UL12	4	0.45 11	5.66 144	0.77 20	4.12 105	6.39 162
TFP624	7.80 x 8.87 x 3.75 198 x 225 x 95	Composite Grille UL 508 Type 1	TEP6	6	0.49 12	7.16 182	1.33 34	4.50 114	7.89 200
TFP61	7.80 x 8.87 x 3.75 198 x 225 x 95	Composite Grille UL 508 Type 1	TEP6	6	0.49 12	7.16 182	1.33 34	4.50 114	7.89 200
TFP61SS	7.80 x 8.87 x 3.75 198 x 225 x 95	Stainless Steel Grille UL 508 Type 1	TEP6SS	6	0.49 12	7.16 182	1.33 34	4.50 114	7.89 200
TFP61UL12	7.80 x 8.87 x 3.75 198 x 225 x 95	Composite Grille UL 508 Type 12	TEP6UL12	6	0.49 12	7.16 182	1.33 34	4.50 114	7.89 200
TFP62	7.80 x 8.87 x 3.75 198 x 225 x 95	Composite Grille UL 508 Type 1	TEP6	6	0.49 12	7.16 182	1.33 34	4.50 114	7.89 200
TFP62SS	7.80 x 8.87 x 3.75 198 x 225 x 95	Stainless Steel Grille UL 508 Type 1	TEP6SS	6	0.49 12	7.16 182	1.33 34	4.50 114	7.89 200
TFP62UL12	7.80 x 8.87 x 3.75 198 x 225 x 95	Composite Grille UL 508 Type 12	TEP6UL12	6	0.49 12	7.16 182	1.33 34	4.50 114	7.89 200
TFP101	11.81 x 12.99 x 5.25 300 x 330 x 133	Composite Grille UL 508 Type 1	TEP10	10	0.55 14	11.16 283	2.14 54	6.88 175	11.89 302
TFP101SS	11.81 x 12.99 x 5.25 300 x 330 x 133	Stainless Steel Grille UL 508 Type 1	TEP10SS	10	0.55 14	11.16 283	2.14 54	6.88 175	11.89 302
TFP101UL12	11.81 x 12.99 x 5.25 300 x 330 x 133	Composite Grille UL 508 Type 12	TEP10UL12	10	0.55 14	11.16 283	2.14 54	6.88 175	11.89 302
TFP102	11.81 x 12.99 x 5.25 300 x 330 x 133	Composite Grille UL 508 Type 1	TEP10	10	0.55 14	11.16 283	2.14 54	6.88 175	11.89 302
TFP102SS	11.81 x 12.99 x 5.25 300 x 330 x 133	Stainless Steel Grille UL 508 Type 1	TEP10SS	10	0.55 14	11.16 283	2.14 54	6.88 175	11.89 302
TFP102UL12	11.81 x 12.99 x 5.25 300 x 330 x 133	Composite Grille UL 508 Type 12	TEP10UL12	10	0.55 14	11.16 283	2.14 54	6.88 175	11.89 302

An intake grille and filter are included with each Cooling Fan Package. Order at least one Exhaust Package separately for each installation.
Order optional Exhaust Grilles as a separate accessory.

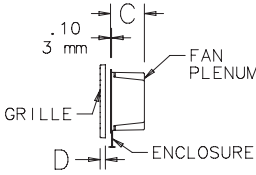
Fan and Exhaust Grille



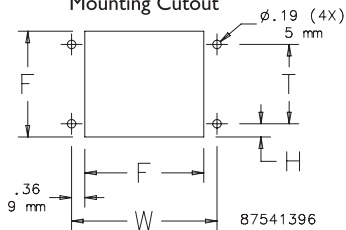
4" Fan
(Fan Mounted to Back of Plenum)



6" and 10" Fan
(Box Style Plenum)



Fan and Exhaust Package
Mounting Cutout



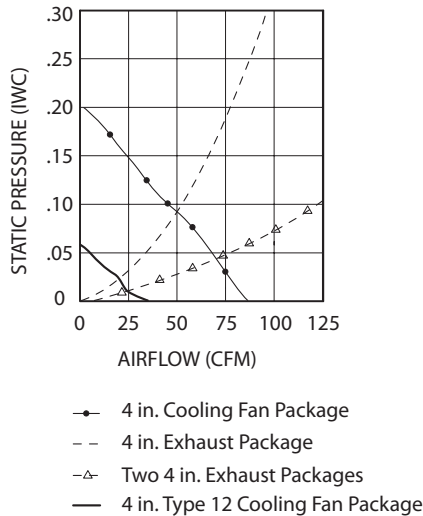
Technical Performance Data for Cooling Fan Packages

Composite Grille UL Type 1	Stainless Grille UL Type 1	Type 1 CFM @ 50/60 Hz	Composite Grille UL Type 12	Type 12 CFM @ 50/60 Hz	W @ 50/60 Hz	Voltage	A @ 50/60 Hz	Max. Operating Temperature (°F)	Max. Operating Temperature (°C)	Noise SIL (dB) @ 50/60 Hz	Weight (lb.)	Weight (kg)
TFP424	—	55	—	—	8.4	24 VDC	.35	158	70	65	4.2	1.90
TFP41	TFP41SS	46/55	TFP41UL12	21/25	17/15	115 VAC	.26/.21	158	70	37/41	4.2	1.90
TFP42	TFP42SS	46/55	TFP42UL12	21/25	16/14	230 VAC	.14/.11	158	70	37/41	4.3	1.95
TFP624	—	140	—	—	21.1	24 VDC	.88	158	70	62.5	5.3	2.40
TFP61	TFP61SS	117/140	TFP61UL12	50/60	36/32	115 VAC	.45/.36	158	70	50/56	5.3	2.40
TFP62	TFP62SS	117/140	TFP62UL12	50/60	39/35	230 VAC	.23/.18	158	70	50/56	5.4	2.45
TFP101	TFP101SS	180/215	TFP101UL12	63/75	64/80	115 VAC	.58/.70	167	75	54/61	12.0	2.45
TFP102	TFP102SS	180/215	TFP102UL12	63/75	64/80	230 VAC	.29/.35	167	75	54/61	11.4	5.17

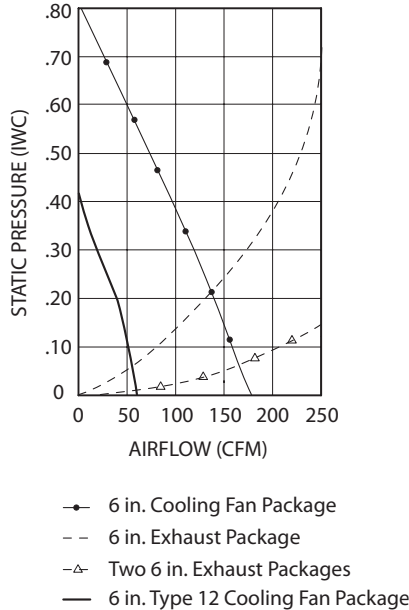
CFM with single exhaust grille installed.

Performance Curves for TFP Filter Fans

Performance Curve for a 4 inch Cooling Fan Package @ 60 Hz



Performance Curve for a 6 inch Cooling Fan Package @ 60 Hz



Performance Curve for a 10 inch Cooling Fan Package @ 60 Hz

