

TWIST
Compact Stamped Swirl Diffusers











TWIST SERIES

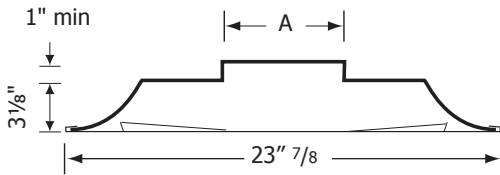
Compact Stamped Swirl Diffusers



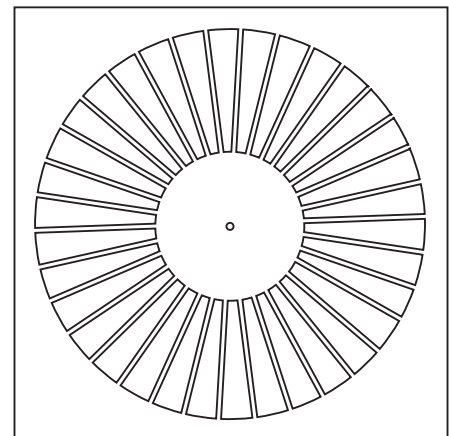
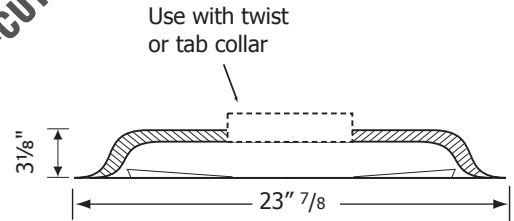
TWIST

-  Fixed swirl diffusion pattern
-  Fixed integrated backpan with die-drawn collar
-  Heavy-gauge steel or aluminum construction
-  Available with insulation and drawn collar (TWIST-IR6)
-  TWIST-CUT has pre-scored R6 insulated back to cut your own neck (one size fits all)
-  Ideal for t-bar lay-in
-  Ideal for heating and cooling applications
-  R6 fiberglass insulation complies with A.S.T.M. E84 flame and smoke test

TWIST



TWIST-CUT



TWIST series diffusers by EffectiV HVAC™ supply air in a fixed 360° radial swirl pattern, mixing the air more evenly and efficiently than standard diffusers. The TWIST diffuser comes with its own integrated backpan and is very compact. It can be viewed as an economical alternative to the RXO-S diffuser.

TWIST diffusers are ideal for VAV applications and applications which require rapid temperature and velocity equalization of the mixed air mass above the zone of occupancy.

TWIST-CUT diffusers are supplied with pre-scored R6 molded fiberglass plenum for a one-size-fits-all approach.

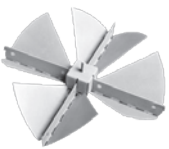
TWIST Performance Data

Neck Size (inches)	Neck (fpm) Velocity	200	300	400	500	600	700	800	1000	1200	1400
	Velocity Pressure (H2O)			.010	.016	.022	.031	.041	.062	.090	.122
6	CFM	34	59	79	98	118	137	157	196	236	275
	Pressure Loss (in.w.g.)	0.004	0.011	0.02	0.04	0.06	0.07	0.10	0.13	0.21	0.31
	NC	< 20	< 20	< 20	< 20	< 20	< 20	20	< 25	< 35	< 40
	Throw (ft)	1-1-3	1-2-4	2-3-5	2-3-6	3-4-6	3-5-7	3-4-7	4-6-8	4-7-10	5-7-10
8	CFM	70	105	140	175	209	244	279	349	419	489
	Pressure Loss (in.w.g.)	0.008	0.016	0.03	0.05	0.07	0.09	0.12	0.18	0.26	0.33
	NC	< 20	< 20	< 20	< 20	< 20	< 30	< 35	< 40	> 40	> 40
	Throw (ft)	1-2-3	2-3-4	3-3-5	3-3-7	3-4-7	3-5-10	4-5-9	5-7-11	7-7-14	8-9-12
10	CFM	109	164	218	273	327	382	436	545	654	764
	Pressure Loss (in.w.g.)	0.01	0.02	0.04	0.07	0.11	0.15	0.19	0.30	0.43	0.50
	NC	< 20	< 20	< 20	< 25	< 30	35	< 40	> 40	> 40	> 40
	Throw (ft)	1-2-4	2-3-6	3-4-8	4-5-10	4-6-10	5-8-12	6-8-12	8-9-13	8-10-14	9-11-16
12	CFM	157	239	314	393	471	550	628	785	942	
	Pressure Loss (in.w.g.)	0.024	0.05	0.10	0.14	0.22	0.27	0.36	0.56	0.78	
	NC	< 20	21	25	< 35	35	40	45	> 45	> 45	
	Throw (ft)	2-3-5	3-4-8	4-6-10	5-6-11	5-8-14	6-9-14	7-9-16	10-12-16	11-12-19	


Performance Notes

- NC Value based on 10 db room attenuation.
- Throw Values are based on isothermal air and terminal velocities of **150 fpm, 100 fpm and 50 fpm** respectively.

Accessories



OBD
Opposed Blade Damper



RSBD
Radial Sliding Blade Damper

How to Specify TWIST

Supply and mounting of steel stamped swirl diffuser model TWIST with integral plenum and drawn collar, square dimension 24"x24". Constructed from heavy gauge galvanized steel, powder coated in white RAL9016. By EffectiV HVAC.

How to Specify TWIST-CUT

Supply and mounting of steel stamped swirl diffuser model TWIST with integral plenum and R6-rated molded fiberglass back pre-scored for 6" to 12" collars, square dimension 24"x24". Constructed from heavy gauge galvanized steel, powder coated in white RAL9016. By EffectiV HVAC.

How to Specify TWIST-ALU

Supply and mounting of aluminum stamped swirl diffuser model TWIST with integral plenum and drawn collar, square dimension 24"x24". Constructed from heavy gauge aluminum, powder coated in white RAL9016. By EffectiV HVAC.

How to Specify TWIST-ALU-CUT

Supply and mounting of aluminum stamped swirl diffuser model TWIST with integral plenum and R6-rated molded fiberglass back pre-scored for 6" to 12" collars, square dimension 24"x24". Constructed from heavy gauge aluminum, powder coated in white RAL9016. By EffectiV HVAC.

How to Order TWIST Series

TWIST	-IR6	-OBD	24	08	
					06 6"D
				08	8"D
				10	10"D
				12	12"D
			Face Dimension	24	24" x 24"
		Damper		OBD	Opposed Blade Damper
				RSBD	Radial Sliding Blade Damper
		Insulation		IR6	R6 molded fiberglass
Model				TWIST	Steel, drawn dollar
				TWIST-CUT	Steel, R6 Molded Fiberglass Back
				TWIST-ALU	Aluminum, drawn dollar
				TWIST-ALUCUT	Alu, R6 Molded Fiberglass Back