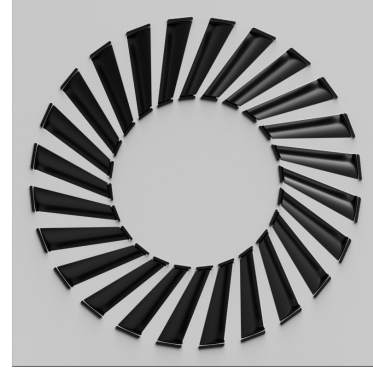


# DRT-24 MODEL

## SWIRL DIFFUSER WITH 24 PLASTIC DEFLECTORS

- High induction capacity thanks to its rotational flow
- Modern design with aerodynamic deflectors
- Recommended to distribute air in cooling, ventilation and heating systems
- 360° air diffusion pattern with low pressure drop
- Easy assembly on false T-profiles
- The diffuser can be supplied with or without a plenum box



**CONSTRUCTION:** Diffuser made of galvalneal sheet with plastic deflectors in black color.

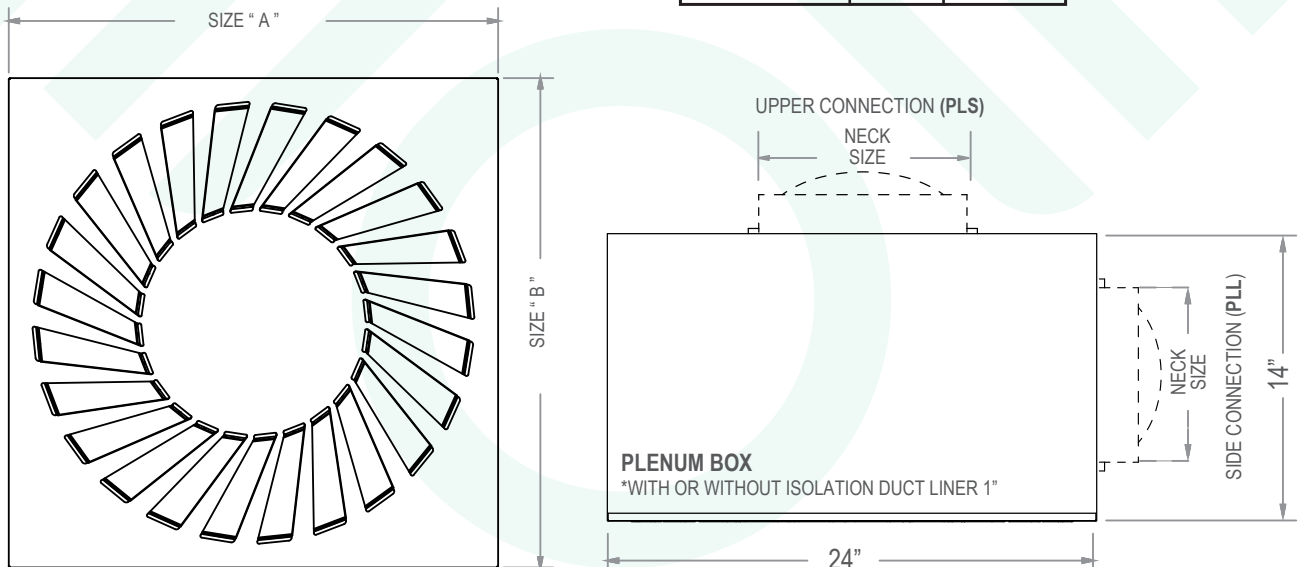
**FINISH:** Standard white Anodic acrylic paint. Black plastic deflectors.

The diffuser has connection to the duct by box plenum with side or upper entry, suitable for injection or return.

## Dimensional Data

DIFFUSER DIMENSIONS		
MODULE	A	B
24" X 24"	23.5"	23.5"

PLENUM DIMENSIONS		
NECK CONNECTION	BOX HEIGHT	NECK DIAMETER
PLL (Side entry)	14"	6" a 12"
PLS (Upper entry)	14"	6" a 14"



## DRT-24 MODEL

## SWIRL DIFFUSER WITH PLASTIC DEFLECTORS

### PERFORMANCE DATA

NECK DIAMETER	VELOCITY (ft/min)	200	300	400	500	600	700	800	900	1000	1100	1200
	VEL. PRESSURE (inH <sub>2</sub> O)	0.003	0.0056	0.0097	0.0155	0.0224	0.0305	0.0399	0.0504	0.0623	0.0776	0.0897
6" NA 0.196	<b>CFM</b>	<b>39</b>	<b>59</b>	<b>78</b>	<b>98</b>	<b>118</b>	<b>137</b>	<b>157</b>	<b>176</b>	<b>196</b>	<b>216</b>	<b>235</b>
	TP	0.007	0.014	0.023	0.035	0.049	0.063	0.078	0.097	0.118	0.139	0.155
	TROW	0-0-1	0-1-1	1-1-2	1-1-3	1-2-3	1-2-4	2-2-4	2-3-4	2-3-5	2-4-6	3-5-8
8" NA 0.349	<b>CFM</b>	<b>70</b>	<b>105</b>	<b>140</b>	<b>175</b>	<b>209</b>	<b>244</b>	<b>279</b>	<b>314</b>	<b>349</b>	<b>384</b>	<b>419</b>
	TP	0.010	0.017	0.027	0.040	0.055	0.072	0.089	0.110	0.134	0.158	0.185
	TROW	1-1-1	1-1-2	1-2-3	1-2-4	2-3-4	3-4-5	3-4-7	4-5-8	4-5-9	5-6-10	5-7-11
10" NA 0.545	<b>CFM</b>	<b>109</b>	<b>164</b>	<b>218</b>	<b>273</b>	<b>327</b>	<b>382</b>	<b>436</b>	<b>491</b>	<b>545</b>	<b>600</b>	<b>654</b>
	TP	0.014	0.021	0.033	0.049	0.071	0.088	0.108	0.135	0.156	0.192	0.224
	TROW	1-1-2	1-2-3	2-2-4	2-3-5	3-4-6	3-5-7	4-5-9	4-6-10	5-6-11	5-7-12	6-8-13
12" NA 0.785	<b>CFM</b>	<b>157</b>	<b>236</b>	<b>314</b>	<b>393</b>	<b>471</b>	<b>550</b>	<b>628</b>	<b>707</b>	<b>785</b>	<b>864</b>	<b>942</b>
	TP	0.018	0.033	0.052	0.081	0.105	0.135	0.170	0.212	0.252	0.308	0.355
	TROW	1-1-3	1-2-5	2-3-6	2-4-7	3-5-9	4-6-10	4-6-11	5-7-12	5-8-13	6-8-14	7-9-15
14" NA 1.069	<b>CFM</b>	<b>214</b>	<b>321</b>	<b>428</b>	<b>535</b>	<b>641</b>	<b>748</b>	<b>855</b>	<b>962</b>	<b>1069</b>	<b>1176</b>	<b>1283</b>
	TP	0.024	0.04	0.063	0.095	0.121	0.160	0.205	0.259	0.311	0.372	0.439
	TROW	1-2-3	2-2-5	2-3-7	3-4-8	4-6-10	4-7-11	5-7-12	6-8-13	7-9-14	7-9-15	8-10-16

#### NOTES:

- 1- CFM, IS AIR FLOW IN CUBIC FEET PER MINUTE
- 2-NC, IS NOISE CRITERIA BASED ON 10db ROOM ABSORPTION (Re:10-12 WATTS)
- 3-THROW, DATA IS BASED ON ISOTHERMAL MIXED AIR AT 50 / 100 / 150 FEET PER MINUTE TERMINAL VELOCITIES
- 4-NA, IS NECK AREA IN SQUARE FEET
- 5-TP, IS TOTAL PRESSURE IN INCHES OF WATER COLUMN

### SUGGEST SPECIFICATION

<b>MODEL</b>	<b>APPLICATION</b>	<b>SLOTS</b>	<b>PLENUM BOX</b>	<b>NECK DIAMETER</b>
↓	↓	↓	↓	↓
<b>DRT</b>	(I) Supply	<b>24</b> With deflector <b>48</b> With deflector	( <b>PLS</b> ) Upper connection ( <b>PLL</b> ) Side connection	6", 8", 10", 12", & 14" 6", 8", 10", & 12"
	(R) Return	<b>24</b> Without deflector <b>48</b> Withuot deflector	Duct Return (Optional) ( <b>PLS</b> ) Upper connection ( <b>PLL</b> ) Side connection	6", 8", 10", 12", & 14" 6", 8", 10", & 12"