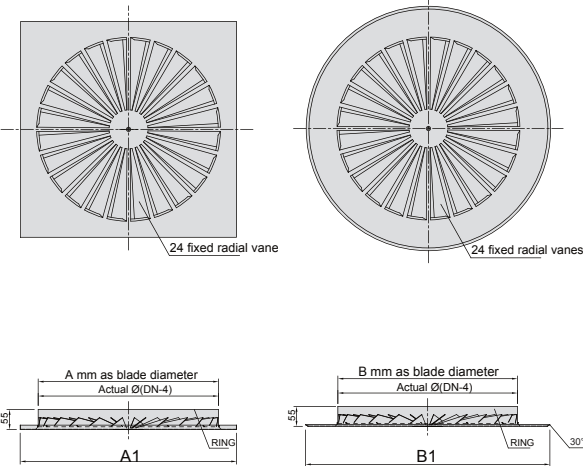




The standard TROX TCS/400 – 600 High-Flow Swirl Diffuser is designed to fit into different T-Bar ceiling patterns as well as plaster board ceilings and is available in either a square or a round face plate ranging from 400 x 400 to 600 x 600 square or 400 Dia to 600 Dia. The diffuser has a radial airflow discharge pattern allowing for a high induction flow rate suitable for both variable and constant volume flow.

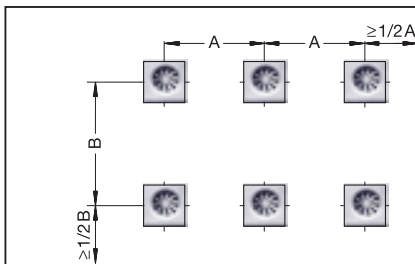


Air Flow Rate(l/s) for Multiple Rows*							
Size	B (m)	Distance between diffusers, A (m)					
		1.5	Vel m/s	2.0	Vel m/s	3.0	Vel m/s**
350	3.0	40	0.12	60	0.19	90	0.30
400		60	0.13	80	0.21	100	0.30
450		60	0.27	100	0.27	150	0.38
500		80	0.18	100	0.24	200	0.42
<b>Distance between diffusers, A (m)</b>							
350	4.0	60	0.12	90	0.20	130	0.30
400		75	0.14	150	0.31	150	0.31
450		100	0.18	175	0.32	150	0.29
500		150	0.25	200	0.32	200	0.31
<b>Distance between diffusers, A (m)</b>							
	A = B (m)	3.0	Vel m/s	4.0	Vel m/s	5.0	Vel m/s
350		90	0.29	130	0.27	180	0.24
400		75	0.21	100	0.18	200	0.20
450		100	0.27	150	0.24	250	0.28
500	100	0.22	200	0.30	300	0.32	

\* Selections are based on a standard ceiling height of 2.7 m – Maximum effective operating height 4.0 m

\*\* Vel =Velocity in the occupied zone 1.8 m AFFL

### Diffuser layout



Diff Size	A Ø	A1 □	B Ø	B1 Ø
400	350	395 X 395	350	470
450	350	445 X 445	—	—
500	500, 350	595 X 595	500	675

### Order Code

**TCS** / **0** / **Z-H-M-I0** / **P1** / **RAL 9006**

**Product Type**  
R – Round face  
Q – Square face

**Powder coating finish:**  
P1 – Non-standard colour  
0 – RAL 9010, matt white (Standard supply)

**Internal Lining:**  
I0 – Without internal lining (Standard supply)  
I1 – 6 mm rubber foam  
I2 – 25 mm fibre glass lining

**Application**  
Z – Supply  
A – Extract

M – With volume control damper  
V – Plenum with top inlet spigot  
H – Plenum with side inlet spigot

**Note:** For further details, please refer to TROX KLIMA Asia Pacific catalogue Ref. PI C 2.2/6. 1/EN/2