

TCG LOW VELOCITY CEILING DIFFUSER

Stainless steel diffuser for galleys



MATERIALS

PART	MATERIAL
Casing	Stainless steel EN 1.4301 (AISI304)
Front plate	Stainless steel EN 1.4301 (AISI304)
Flow equalization element	Perforated stainless steel EN 1.4301 (AISI304)
Adjustment plate	Stainless steel EN 1.4301 (AISI304)
Installation sleeve	Stainless steel EN 1.4301 (AISI304)

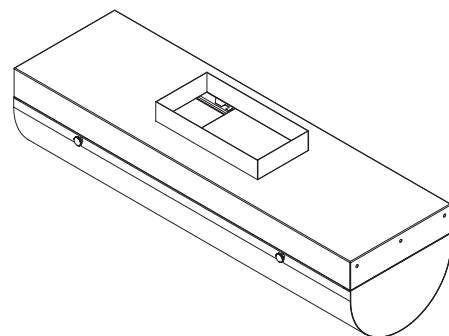
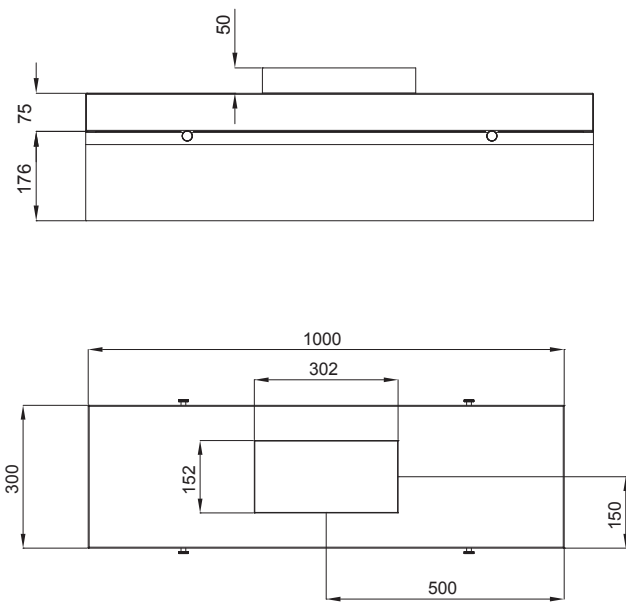
APPLICATIONS

Halton TCG is a low velocity ceiling diffuser with rectangular connection of 302x152 mm as standard. The diffuser is manufactured of stainless steel. The TCG diffuser is designed for galleys where good indoor climate conditions are required. Supply air velocity is designed to be very low to avoid draught in the near zone of the diffuser. This also supports the extraction efficiency of the hood. Where requirement of comfort are seen less important it is possible to use higher airflow rates that increase velocity close to the diffuser. In such cases diffuser should be installed further away from continuously occupied areas.

FEATURES

- Low velocity air supply
- Enables a potential saving on extract airflow quantity needed for a hood
- Supports comfortable thermal and good acoustic conditions
- Rectangular duct connection 302x152 mm as standard. Special circular connections available.
- Detachable front panel and perforated plate enable easy cleaning of the diffuser
- Manufactured according to USPHS requirements

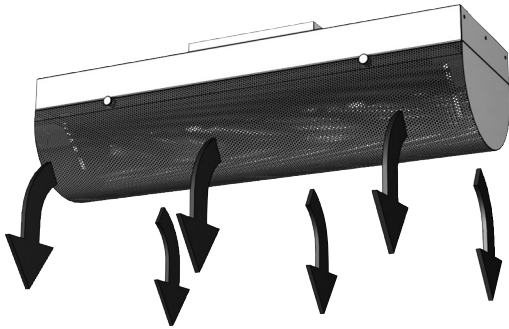
DIMENSIONS AND WEIGHT TCG



The standard TCG weights 11 kg

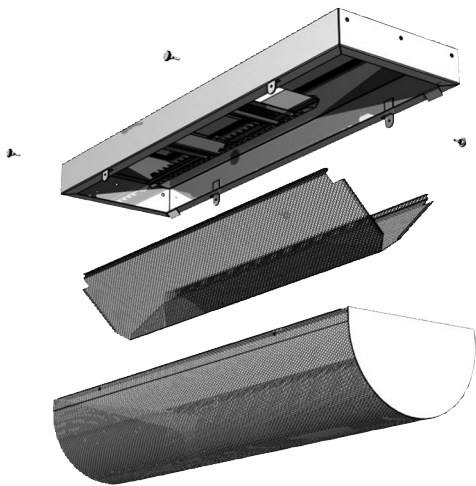
TCG FUNCTION

Supply air is supplied with low velocity from the galley ceiling. The air flows into the galley without causing a high velocity draught and turbulence that could effect on hood extraction efficiency.



TCG SERVICING

Open the front panel of the diffuser and clean the parts by wiping with a damp cloth. Push the front panel back into place so that the springs lock.



TCG INSTALLATION

Diffuser is suitable for connection to a supply ductwork with a rectangular connection of 302x152 mm as standard or with circular connections of D100, D160, D200 or D250 mm as a special product.

TCG diffuser causes sufficient pressure loss in order to provide self-balancing of the system and adjustment of airflow rates. The airflow rate of each diffuser is adjusted by setting the plenum chamber static pressure with adjustment plate.

TCG PERFORMANCE DATA

Airflow (m³/h)	Pressure drop	
	P static (Pa)	
500	4	
800	10	
900	12	

Airflow (m³/h)	Sound levels				
	Lw dB	Lw(A) dB(A)	Lp(A) dB(A)	NR dB(A)	NC dB(A)
500	38,9	32,5	28,5	27,1	23,5
800	42,3	37,5	33,5	29,3	27,8
900	44,1	39,9	35,9	32,1	30,6

Attenuation -4dB

