



air master

Chapter 12

INDEX

A. Light troffer diffuser.

- 1. Single side light troffer diffuser: ALTD.....12.1
- 2. Dual side light troffer diffusers - Top inlet: ALTD-T.....12.2
- Standard sizes.....12.3
- Fixing details.....12.3
- How to order.....12.3



air master

Single side light troffer diffuser

Model: ALTD

Construction:

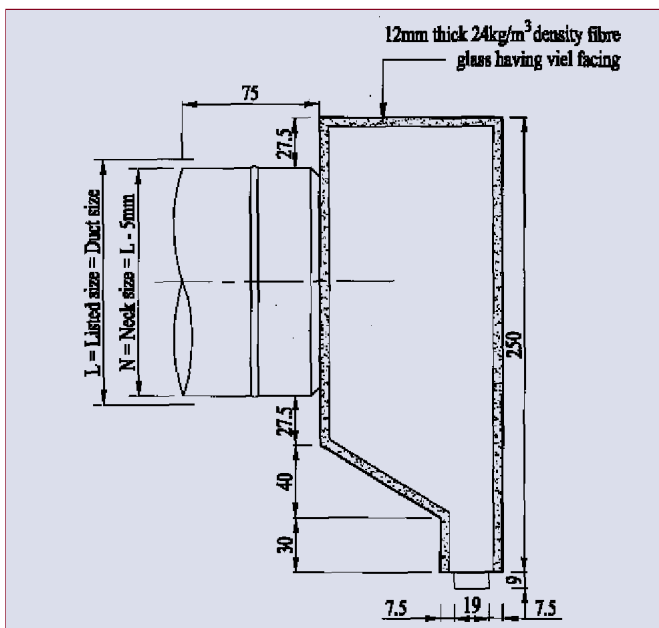
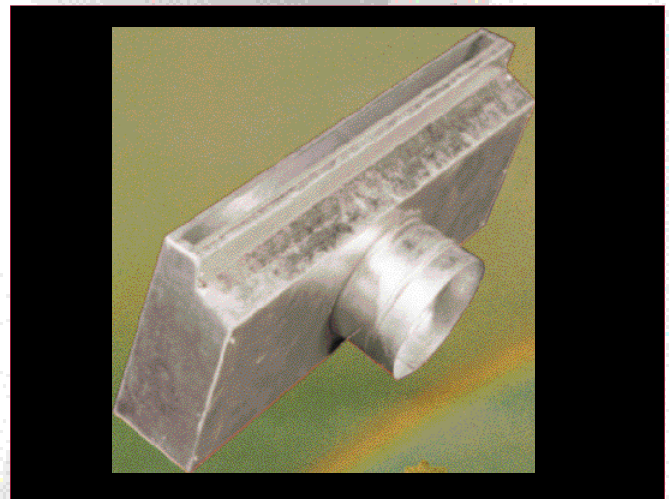
- **Frame:** 22 or 20 gauge galvanized steel sheet.
- **Spigot:** circular spigot of 125 or 150 mm dia with 75 mm length as standard. Square, rectangular and oval shaped spigots as optional.
- **Optional accessories:**
 1. Volume control dampers.
 2. With internal or external insulation.

Description:

- Constructed from 22 gauge galvanized steel sheet.
- Circular spigot of 125 or 150 mm diameter with 75 mm length fixed to the side of the diffuser. Inlets of square, rectangular or oval shapes are available on request.
- Exposed surfaces can be painted black (RAL9005) as option to minimize light reflection.
- Volume control dampers are fixed to the spigot connection as per the client's request for effective dampening and to equalize the internal flow along the full length.
- Design flexibility exists to suit different light troffers without projections and interference.



- Available with out insulation Internal or external insulation as option.
- For accuracy in fabrications as per site condition, please mention light fitting model no and manufacturer's name and details with exact dimensions.





Double side light troffer diffuser

– Top inlet

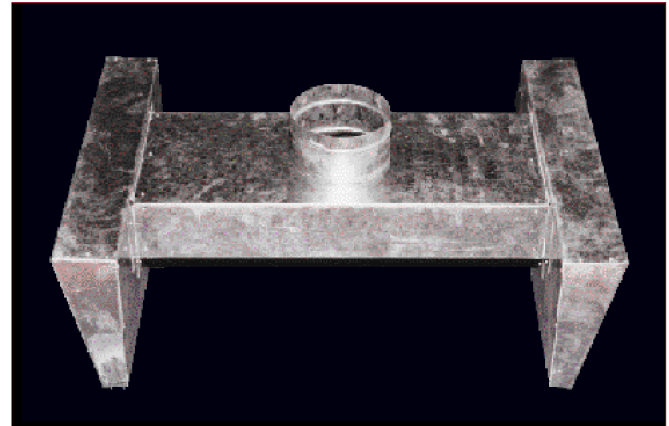
➔ Model: ALTD-T

Construction:

- **Frame:** 22 or 20 gauge galvanized steel sheet.
- **Spigot:** circular spigot of 125 or 150 mm dia with 75 mm length as standard. Square, rectangular and oval shaped spigots as optional.
- **Optional accessories:**
 1. Volume control dampers.
 2. With internal or external insulation.

Description:

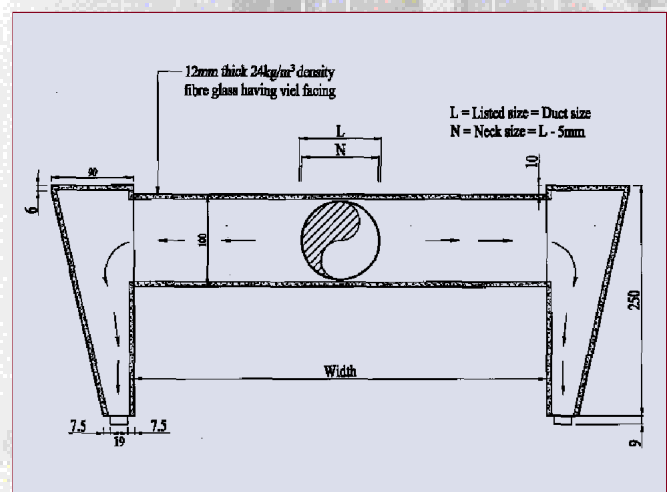
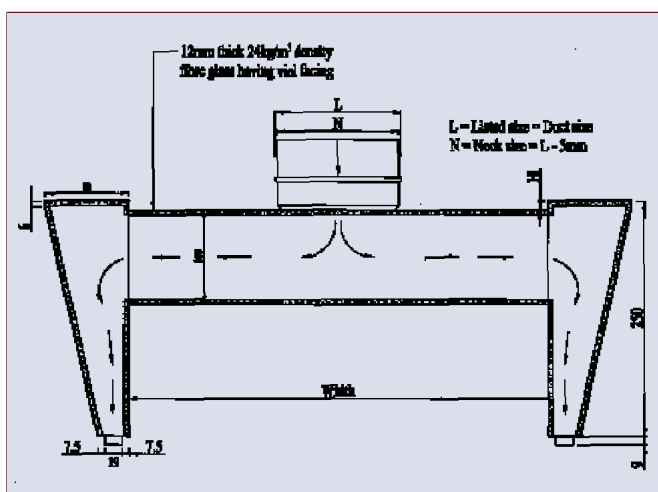
- Constructed from 22 gauge galvanized steel sheet.
- Circular spigots of 125mm or 150 mm diameter with a standard length of 75 mm are fixed at the top of the diffuser.
- Inlets of square, rectangular or oval shapes with different inlet positions as per site conditions are available on request.
- Air collected from spigot is equally discharged through slots on both sides of the diffuser.
- Exposed surfaces can be painted black (RAL9005) as an option to minimize light reflection.
- Volume control dampers are fixed to the spigot connection as per the client's request for effective



dampening and to equalize the internal flow along the full length.

- Design flexibility exists to suit different light troffers without projections and interference.
- Available with out insulation Internal or external insulation as option.
- For accuracy in fabrications as per site condition, please mention light fitting model no and manufacturer's name and details with exact dimensions.

Model: ALTD-S: Construction is same as ALTD-T, with side spigot.





air master

Standard sizes:

Diffuser sizes corresponding to light troffer:

Model: ALTD.

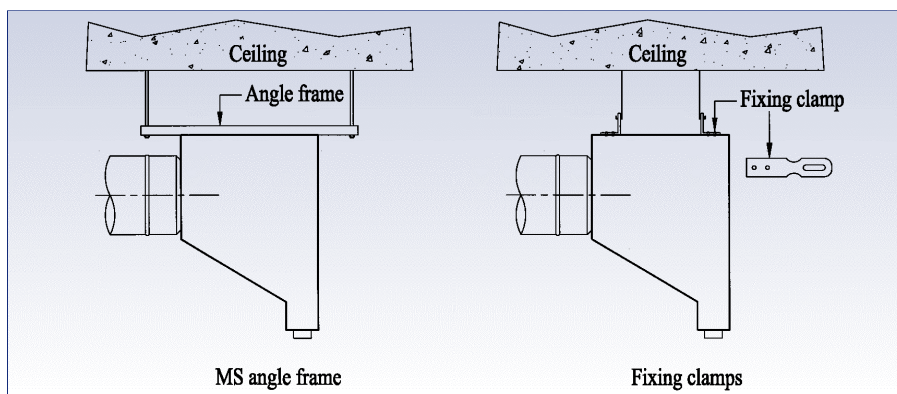
Length of troffer in mm	600	900	1200
Length of troffer diffuser in mm	560	860	1160

Model: ALTD-T & ALTD-S.

Size of the troffer L x W In mm	Light troffer diffuser	
	Length (mm)	Width (mm)
300 x 1200	230	1020
600 x 600	530	450
900 x 900	830	735
600 x 1200	530	1020
1200 x 1200	1130	1020

Fixing details:

Model: ALTD.



How to order:

Model	Size	Quantity	Optional insulation	Optional accessories
ALTD	Specify light troffer size width x depth in mm x mm	Specify in numbers	I = Internal Insulation	V= VCD
ALTD-T			E = External insulation	
ALTD-S				

Ordering example:

To order double side light troffer diffuser with top inlet for a troffer of 600 x 600 mm, quantity = 25 nos.

Intnral insulation: 12 mm thick, 24kg/m³ density fibre glass with black viel facing.

Order as : ALTD-T-600 x 600 -25-I.

12 mm thick, 24 kg/m³ fibre glass- black viel facing.



Double side light troffer diffuser

-Top Inlet

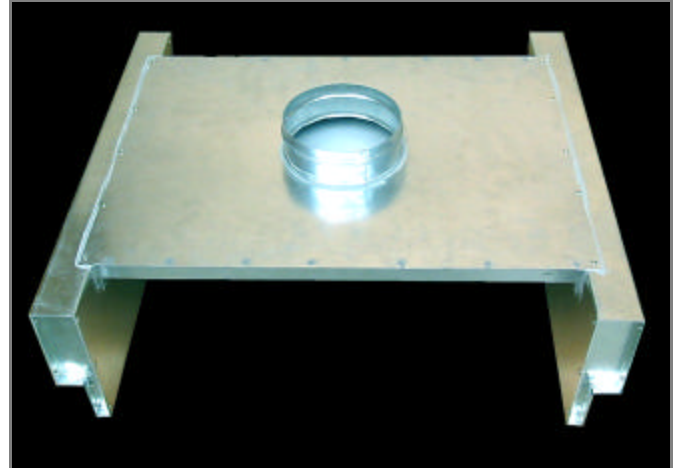
Model: ALTE-T

Construction:

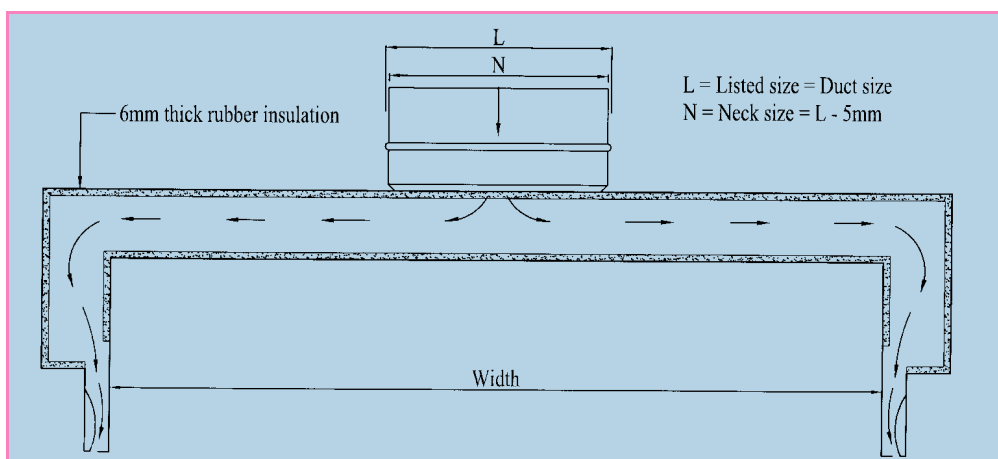
- **Frame:** 22 or 20 gauge galvanized steel sheet.
- **Spigot:** circular spigot of 125 or 150mm dia with 75mm length as standard. Square, rectangular and oval shaped spigots as optional.
- **Optional accessories:**
 1. Volume control dampers.
 2. With internal or external insulation.

Description:

- Constructed from 22 gauge galvanized steel sheet.
- Circular spigots of 125mm or 150mm diameter with a standard length of 75mm are fixed at the top of the diffuser.
- Inlets of square, rectangular or oval shapes with different inlet positions as per site conditions are available on request.
- Air collected from spigot is equally discharged through slots on both sides of the diffuser.
- Exposed surfaces can be painted black (RAL9005) as an option to minimize light reflection.
- Volume control dampers are fixed to the spigot connection as per the client's request for effective dampening and to equalize the internal flow along the full length.
- Design flexibility exists to suit different light troffers without projections and interference.
- Available with out insulation, internal or external insulation as option.
- For accuracy in fabrications as per site condition, please mention light fitting model no. and manufacturer's name and details with exact dimensions.



Model: ALTE-S: Construction same as ALTE-T, with side spigot.





air master

Performance data

Model: ALTD-T, ALTD-S, ALTE-T, ALTE-S

Airflow		Throw	P _s	NC
CFM	L/s	M	mm(H ₂ O) 150mm inlet	
40	18.9	0.30 - 0.90 - 2.40	0.4	-
75	35.4	1.25 - 2.20 - 3.90	1.65	<15
100	47.2	2.10 - 3.0 - 4.80	3.5	19
125	59.0	2.70 - 3.90 - 5.50	4.6	24
150	70.8	3.20 - 4.20 - 5.90	6.7	30
200	94.4	3.60 - 4.60 - 6.40	11.9	37
225	106.2	3.90 - 4.80 - 7.0	15.0	39

