

LTQ	Light Air Boot - With Steel Pattern Controls	72 - 76C
LTQI	Light Air Boot - With Steel Pattern Controls - Insulated	72 - 760
LTR	Light Air Boots - Return Air	72 & 76C
VCD	Volume Control Damper	75 & 76C
Ordering Co	760	

- Compatible with most fluorescent troffer units * (See Notes on page 72C) Horizontal and vertical air pattern control
- adjustable from discharge slot
- Single and saddle •
- Insulated or uninsulated plenums Inlet air damper optional •
- •



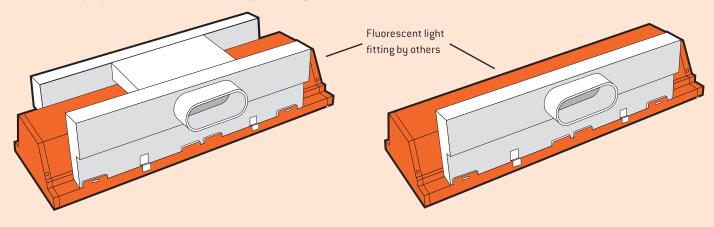
HOLYOAKE

LT – Light Troffer

Saddle Type, Insulated Saddle Type

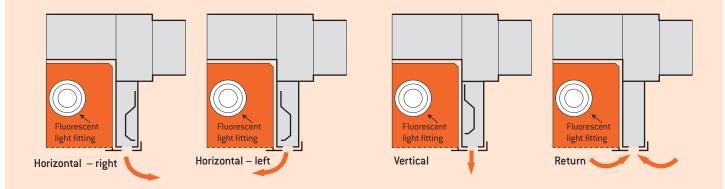
Single Side Type, Insulated Single Side Type

For use with purpose made fluorescent light fittings, with a surface slot fixture.



Model: LTQ Air Pattern Options

Surface Slot



Model LTQ is specially designed with quiet operation as a priority consideration. It incorporates steel pattern controls which may be supplied with a left or right orientation to define the throw direction.

Pattern control detail above is indicative only — Please check with your local Holyoake branch for specific arrangements.

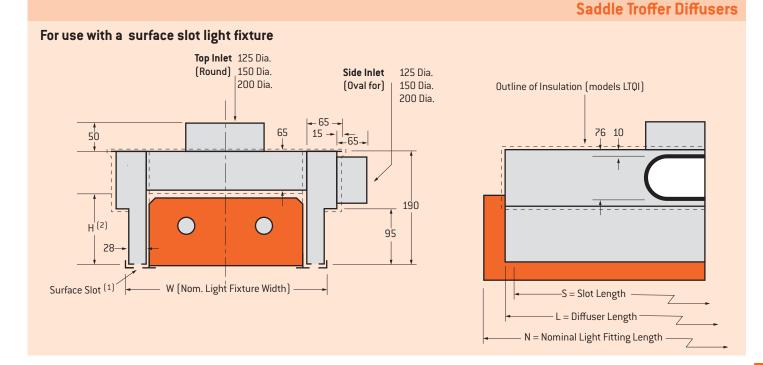
Notes

- 1. Acoustic and airflow performance data listed in this manual is for light air boots operating alone (without slotted light trim). Careful attention to the design of the light fitting can produce the same results when operating as a combination.
- 2. It is strongly recommended that the chosen light fitting supplier be referred to our engineering office, prior to finalising design of the fitting, so that assistance may be rendered and performance tests conducted at our facility, if necessary.
- 3. A sample of the light fitting will be required at the Holyoake factory to confirm correct fitting with the Holyoake Light Air Boot.
- 4. Model LTQ saddle type is also available with a full length bridge if required.
- 5. For special requirements contact your local Holyoake branch.

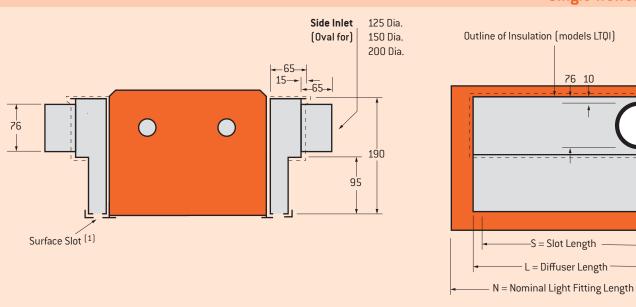
Due to a policy of continuous development and improvement the right is reserved to supply products which may differ slightly from those illustrated and described in this publication.



Models: LTQ (Uninsulated) and LTQI (Insulated)



Single Troffer Diffusers



Notes

- 1. Standard slot width 13.9mm.
- 2. H (Height of light box) max: 125 for saddle units (single unlimited).

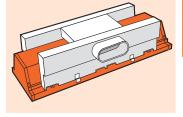
N	L	S
600	545	525
1200	1145	1125

Guide Product Weights								
Model	Approximate Weight in Kg							
LTQ Saddle 1200mm	8.75							
LTQ Saddle 600mm	4.4							
LTQ Single 1200mm	3.66							
LTQ Single 600mm	1.9							
LTR Return Air 1200mm	3.1							
LTR Return Air 600mm	1.6							

Performance Data

Models: LTQ and LTQI Saddle Type

For 1200mm Light Fixture											
Ca	Capacity I/s 60 70 80 90 100 120 140										
Droio	ation m	н	0.5-2.0	0.7-2.2	0.9-2.4	1.1-2.5	1.2-2.6	1.5-2.7	1.6-3.1		
Projection, m		۷	1.4	1.6	1.8	1.9	2.0	2.3	2.5		
105	Pa. Total	Н	35	50	62	76	92	133	180		
125mm Dia	Pressure	۷	33	43	58	71	87	122	165		
Inlet	NC	Н	23	29	34	36	39	44	49		
met		v	20	24	29	32	35	40	45		
150mm	Pa. Total	Н	27	36	47	58	73	100	135		
Dia	Pressure	v	23	30	41	49	60	84	113		
Inlet	NC	н	20	23	27	31	34	39	44		
linex	NC	v	-	21	25	28	31	36	41		
200mm	Pa. Total	Η	21	27	35	43	54	72	95		
Dia	Pressure	v	16	20	29	33	41	56	75		
Inlet	NC	н		21	25	30	34	38	43		
	NC	v	-	20	24	28	31	35	40		



For 600mm Light Fixture

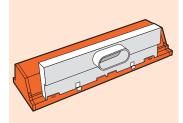
Capacity I/s			30	40	45	50	60	70	80
Projection, m V		1.2-2.7	1.8-3.0	2.0-3.3	2.3-3.7	2.4-4.3	2.5-4.7	2.7-4.9	
		۷	1.7	1.8	2.0	2.1	2.2	2.4	2.7
	Pa. Total	Н	19	32	40	49	71	95	135
125mm	Pressure	۷	16	28	36	45	66	88	126
Dia Inlet	NC	Н	-	22	27	31	35	40	44
met		۷	-	21	25	28	32	37	40
450	Pa. Total	Н	17	28	35	42	61	82	118
150mm Dia	Pressure	۷	14	24	31	38	56	75	109
Inlet	NC	Н			23	25	30	35	39
		۷			21	24	28	34	36
200	Pa. Total	Н	15	24	31	37	54	72	106
200mm Dia	Pressure	۷	12	20	27	33	49	65	97
	NC	Н			22	24	30	34	37
Inlet	NL	۷			20	24	28	33	35

Performance Notes Pages 74C - 76C

- 1. Total Pressure = static pressure in plenum + inlet velocity pressure.
- 2. NC is based on a room absorption of 10dB re 10⁻¹² watts. Values below 20 NC are not listed.
- 3. Where lengths other than those listed are required, consult your local Holyoake branch.
- 4. Inlets are diameters listed, oval equivalent i.e. with the same circumference. Pressures shown allow for the slightly smaller oval equivalent area.
- 5. Projections H and V are the horizontal and vertical distances of terminal velocities of 0.75 and 0.25m/s (horizontal) and 0.25m/s (vertical).
- 6. Ratings are for a differential of 11°K between supply and room air temperatures.

Models: LTQ and LTQI Single Type.

						F	or 1200n	nm Light	Fixture
Ca	apacity I/s		30	40	50	60	70	80	90
Projection, m V		0.5-2.0	0.9-2.4	1.2-2.6	1.5-2.7	1.6-3.1	1.8-3.4	2.0-3.6	
		۷	1.4	1.8	2.0	2.3	2.5	2.6	2.7
	Pa. Total	Н	17	26	39	53	67	86	105
L25mm	Pressure	۷	15	24	34	49	63	82	100
Dia Inlet	NC	н			23	28	32	36	40
met		v			22	27	32	36	39
	Pa. Total	Н	15	22	32	43	54	69	83
L50mm Dia	Pressure	v	14	20	29	40	50	64	77
Inlet	NC	н			21	26	30	34	39
met	NL	۷			20	25	29	33	38
0.0	Pa. Total	н	13	19	27	35	44	57	67
200mm	Pressure	v	12	17	25	32	40	53	62
Dia Inlet	NC	Н		-	21	25	29	33	38
	NL	V			20	24	28	32	37



For 600mm Light Fixture

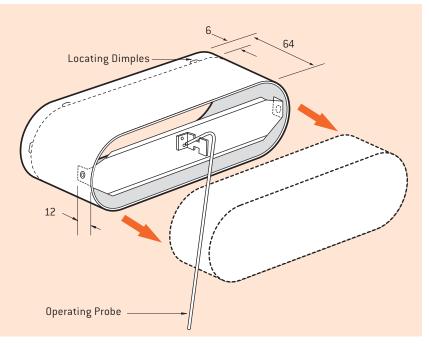
				6	6				
Capacity I/s		20	25	30	35	40	45	50	
Projection, m V		1.8-3.0	2.3-3.7	2.4-4.3	2.5-4.7	2.7-4.9	2.9-5.4	3.2-5.7	
		۷	1.8	2.1	2.2	2.4	2.7	2.8	2.9
125	Pa. Total	н	19	27	35	44	56	67	80
125mm	Pressure	v	17	24	32	40	52	62	75
Dia Inlet	NC	н	-	20	25	29	33	37	40
iniet		v	-	-	24	27	31	35	38
450	Pa. Total	н	18	25	33	41	52	62	73
150mm Dia	Pressure	V	17	22	29	37	48	57	68
Inlet	NC	Н			24	28	32	36	39
	NC	V			23	26	30	33	37
	Pa. Total	н	17	24	31	39	49	58	68
200mm	Pressure	v	16	22	28	36	45	54	63
Dia Inlet	NC	Н			23	26	30	35	38
	NL	۷			22	25	28	32	36

Volume Control Damper (Optional) Model VCD

The volume control damper (VCD) available for all oval side entry inlet models slides into the inlet. It may be furnished factory fitted, or separately for field installation. It is adjustable from below the diffuser slot, using a strong wire probe bent at 90°, 25mm from one end. The inclusion of a damper, fully open, alters troffer performance by approximately the following factors:

Total Pressure	x 1.06
NC	x 1.1

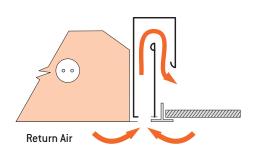
See Table 9 on Page 12A, for the effect of dampering on noise levels.

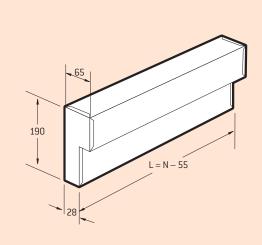


LT – Light Troffer Return

Model: LTR (Return Air)

Model LTR is a return air attachment to slotted light trim, providing a clear but light baffled path for air relieved from the conditioned space to the ceiling void.



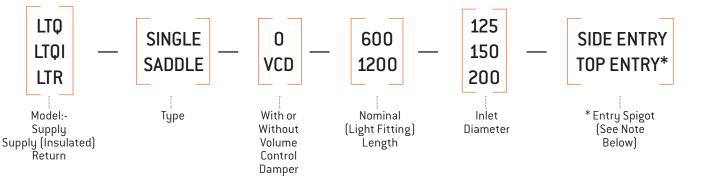


N= Nominal length of light fitting (Normally 1200 or 600)

MODEL LTR PERFORMANCE											
LENGTH	Capacity I/s	30	35	40	45	50	55	60	65	70	
600 mm	Neg.Ps.Pa	5	15	19	23	32	43	51	58	68	
	NC	23	28	31	35	38	41	44	47	49	
1200 mm	Neg.Ps.Pa	2	6	8	9	13	17	20	23	27	
	NC	-	-	25	28	32	35	37	40	42	

Light Air Boots

Diffuser Description Code Examples and Suggested Specification



*Top entry is an option only available for saddle fittings, in which case round inlets are furnished. In all other cases, inlets are oval to suit the nominated duct size.

