



Strong in lighting

HATO Lighting has been designing high-quality fluorescent tube luminaires for industrial applications and demanding environments for over thirty years.
HATO was the first, and for a long time only, supplier with a luminaire which could withstand the extremely high humidity and ammonia concentration in mushroom growing plants.
This luminaire has an excellent light distribution and is now also widely used in poultry farming.
As a result, HATO is the clear market leader in these sectors.

Clean, long light lines

The functionality and clean design of HATO luminaires means that they are now increasingly used for both industrial and architectural applications.
They are perfect for extended light lines and a "less is more" design philosophy.
In response to the growing demand from this sector HATO has condensed its technical expertise, industrial quality standards, aesthetics and creativity in a synthesis of perfect, timeless design:
Uni-Q TubeDesign, a range of aesthetically and architecturally attractive lighting solutions.

Prestigious projects

UNI-Q TubeDesign.
A new dimension of a familiar product - now applied in a wide range of projects.
From the complete lighting system in the prestigious new tram tunnel in The Hague, the Netherlands (designed by architect Rem Koolhaas) and the new Schiphol Amsterdam airport terminal to a university library, children's hospital and a theatre production.
Uni-Q also proves itself when used to form patterns, or in art objects.

Standardised yet standing out

This catalogue describes our Uni-Q TubeDesign range.
A standard range which stands out by its flexibility: it forms the perfect basis for your custom solutions. Let us know what you want - we'll provide it. But there's something which never changes: the outstanding specifications.
Where quality is concerned we only recognise one standard: the highest.

The strengths of Uni-Q:

- * high efficiency
- * long light lines
- * flexible application
- * meets all European standards
- * many colours
- * submersible down to 20 m
- * gas and dust proof
- * HF ballasts for low power consumption
- * long life
- * easy installation and maintenance

Your importer, agent or dealer can tell you more about the infinite possibilities of UNI-Q.

www.uni-q.nl

This catalogue was produced with all due care. However it is nonbinding and provided for information only.
Any UNI-Q supplier shall not be held liable for any errors or unclear information.
The UNI-Q specifications described in this catalogue may be changed without prior notice.

3 Intro. Effective from January 2006.
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General Info

UNI-Q 50 General

A wide choice of outer tubes

UNI-Q 50 is available as standard with the following outer tubes (diameter 50 mm):

1. Toughened borosilicate glass (UNI-Q 50 Basic only)



2. Impact resistant polycarbonate, clear



3. Impact resistant polycarbonate, blue



4. Impact resistant polycarbonate, opal



5. Matt acrylate (PMMA), with the appearance of sandblasted glass.



Other versions are available to special order.
Please ask your agent about the options.

Outer tube	Supplied with the luminaire Spare	outer tube
Toughened borosilicate glass, < 2025 mm	U50TK-GLC<2	U50GLC-xxxx
Toughened borosilicate glass, > 2025 mm	U50TK-GLC>2	U50GLC-xxxx
PC, clear	U50TK-PCC	U50PCC-xxxx
PC, blue	U50TK-PCB	U50PCB-xxxx
PC, opal	U50TK-PCO	U50PCO-xxxx
PMMA matt	U50TK-PMF	U50PMF-xxxx
Glass base	U50GB	
Cutting glass outer tube to custom length	U50IG	
Cutting plastic outer tube to custom length	U50IK	

* xxxx = standard length of the outer tube in mm.

Note: when ordering spares please specify the serial number of the luminaire as this indicates the length of the outer tube.

Reflectors put you in control of the light

With a reflector you can direct the light to where it is needed and light the area more efficiently.

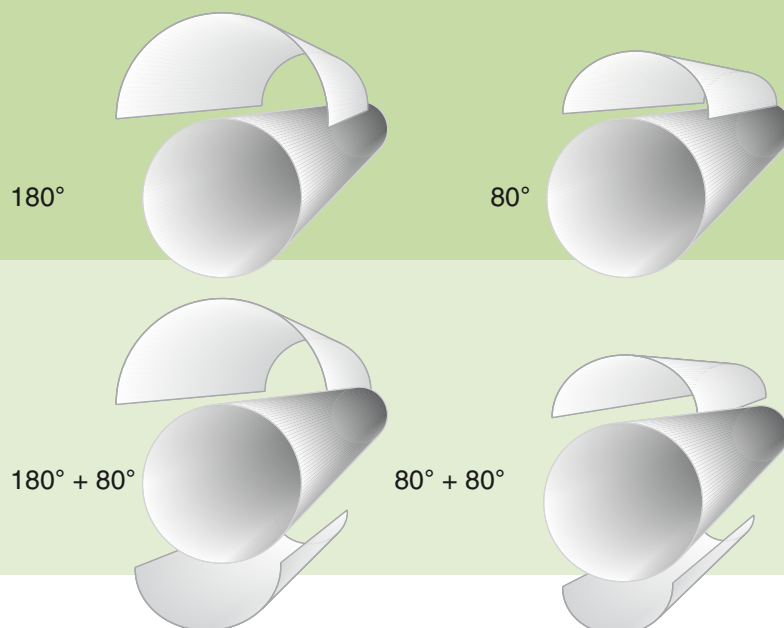
You have a choice of three reflector types:

180°, 80° and 80° perforated (20%) for a decorative effect.

The reflectors can be installed in any position around the tube.

Eulum data files for lighting design simulation programs are available.

Some examples:



Type (degrees)	180	80	80 perforated
Single lamp luminaire without through wiring	U50RF-1-180-xx	U50RF-1-80-xx	U50RFP-1-80-xx
Single lamp luminaire with through wiring	U50DR-1-180-xx	U50DR-1-80-xx	U50DRP-1-80-xx
Twin lamp luminaire without through wiring	U50RF-2-180-xx	U50RF-2-80-xx	U50RFP-2-80-xx
Twin lamp luminaire with through wiring	U50DR-2-180-xx	U50DR-2-80-xx	U50DRP-2-80-xx
Spare or additional reflector	U50RF180-xx	U50RF80-xx	U50RFP80-xx

xx = lamp rating

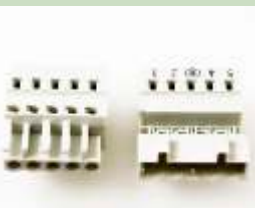
Through wiring for extended light lines

Several models can be fitted with through wiring (standard 2 x 1.5 mm²) or with three phase wiring (to special order). Luminaires with two lamps can only be used for through wiring if the ballast is located between the lamps.

Please refer to the electrical details section for information about the maximum rating of the through wiring. UNI-Q 50 Vertical cannot be used with through wiring.

Type	E18-80	E2*14 -E2*80	EM/S	ED series
Through wiring:	O	*	*	N

O = Option; N = Not possible; * = only if the ballast is located between the lamps

U50DV1	Option: through wiring, 2 x 1.5 mm ² (c/w connectors)
U50DV2	Option: through wiring, 3 x 1.5 mm ² (c/w connectors)
U50DV3	Option: through wiring, 4 x 1.5 mm ² (w/o connectors - UST4-F or UST4-M)
U50DVT	Through wiring cap. To connect two cables (incoming and outgoing) on one side of the luminaire. For use with connection end cap (UDWDG50). Only compatible with the UNI-Q 50 Basic series.
	UST4-F Separate connector, four poles + earth (ex factory this Class II luminaire does not have an earth connection). Connector, incoming side.
	UST4-M Separate connector, four poles + earth (ex factory this Class II luminaire does not have an earth connection). Connector, outgoing side for through wiring luminaires.

Lamps

All UNI-Q 50 luminaires can be fitted with T8 (26 mm) or T5 (16 mm) lamps. Compatible lamps are listed in the table below.
Please contact your agent if you want to use a different type



Lamp power	14	18	21	24	28	35	36	36/-1	39	54	58	80
Lamp type	T5-FH	T8	T5-FH	T5-FQ	T5-FH	T5-FH	T8	T8	T5-FQ	T5-FQ	T8	T5-FQ
Luminous flux (Lm)	1200	1300	1900	1750	2600	3300	3200	3000	3100	4450	5000	6150
Length [mm]	549	590	849	549	1149	1449	1200	970	849	1149	1500	1449
Base	G5	G13	G5	G5	G5	G5	G13	G13	G5	G5	G13	G5

Note: when T5 lamps are installed vertically, the manufacturer's marking should be at the lower end otherwise the lamp life will be reduced. This is a common property of all T5 lamps.

Ballast: where you want it

UNI-Q 50 luminaire ballasts are always installed in-line with the lamp. You can choose the side on which the ballast is installed. The table below gives examples of ballast positions. To reduce dark areas you can opt for a remote ballast (master), installed up to 1.3 m from the luminaire (slave). For UNI-Q 50 Basic luminaires this option can be combined with a cable entry coupler (UMTG50 or UMTZ50). This allows you to create extended light lines with a minimum of dark areas.

Note: the UNI-Q 50 HiLo and UNI-Q 50 Vertical series do not include twin lamp models.

U50PBTP		Ballast on incoming cable side (standard)
U50PBBT		Ballast on outgoing cable side
U50PBMI		Ballast between the lamps
U50PBTP		Ballast on incoming cable side
U50PBBT		Ballast on outgoing

	E14-E 80	E2* (21,28,36,39,54)	E2* (35,58,80)	EM/S	ED14-ED 80	ED2* (21,28,36,39,54)	ED2* (35,58,80)	EDM/S
Ballast on incoming cable side	S	S	N	N	S	S	N	N
Ballast between the lamps	N	O	S	N	N	N	N	N
Ballast on outgoing cable side	O	O	N	S	N	N	N	S

S = Standard; O= Option; N= Not possible

Wide range of mounting brackets

You can choose from a wide range of mounting brackets.
The luminaire tables specify the recommended brackets for each type.
The number of brackets is different for glass and plastic outer tubes.
UNI-Q 50 HiLo and UNI-Q 50 Vertical do not normally require mounting brackets.

	
1	 
2	 
3	 
4	 
5	<p>UKBG50 Plastic (PP) bracket with captive latch. Nonslip cap UAS-G is necessary for vertical installation.</p>
6	<p>1 Colour: light grey.</p> <p>UKBZ50 Plastic (PP) bracket with captive latch. Nonslip cap UAS-G is necessary for vertical installation.</p>
7	<p>2 Colour: black.</p> <p>UKBT50 Plastic (PP) bracket with captive latch. Nonslip cap UAS-T is always needed (c/w).</p>
8	<p>3 Colour: transparent. Reduced UV-resistance.</p> <p>UKWZ50 Bracket with rubber insert and M8 nut (for fixing to studding, etc.).</p>
9	<p>4</p> <p>UKR150 Stainless steel (grade 304) bracket, The Hague model, with grey silicone rubber insert. Secured with vandal-resistant stainless steel screw with Torx head.</p>
10	<p>5</p> <p>UKPH50 Attractive anodised aluminium bracket for suspended installation. Complete with 2 m stainless steel cable (1.5 mm²) and plastic adjusting bolt. Longer cables available to special order. For horizontal installation only.</p>
11	<p>6</p> <p>UAS-G Nonslip rubber inserts for brackets UKBZ50 and UKBG50. Required for vertical installation.</p>
12	<p>7</p> <p>UAS-T Nonslip rubber inserts for brackets UKBT50. Supplied ex factory with these brackets.</p>
13	<p>8</p>

Emergency lighting: never lets you down

You can depend on UNI-Q luminaires even when the power fails.

The UNI-Q 50 Basic and UNI-Q 50 Industrial ranges can be supplied with integral batteries and charger. This option is also available for the remote ballasts (master units) without lamps of the UNI-Q HiLo and Vertical ranges. Batteries are available with a rating of 1 or 3 hours.

The light output is reduced in the event of a power failure, as detailed in the table, which also lists the battery ratings. These luminaires have a self-test feature to monitor the condition of the NiMH batteries and use a flashing LED to indicate any faults.

The batteries provide the highest performance between 0 and +40°.

Lamp power	14	18	21	24	28	35	36	39	54	58	80
Luminous flux, battery operation	30	20	27	22	25	17	17	17	17	12	12
Battery capacity (Ah), one hour	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2
Battery capacity (Ah), three hours	4,5	4,5	7	4,5	7	7	7	7	7	7	7

U50ND-32 Integral emergency unit, 3.2 Ah battery

U50ND-45 Integral emergency unit, 4.5 Ah battery

U50ND-70 Integral emergency unit, 7.0 Ah battery

Dimmable luminaires

Most models can be supplied in dimmable versions (ED). The electronic ballasts accept a 1 - 10 VDC (0.15 - 0.6 mA) control signal, 10 V corresponds to 100% light output and 1 V corresponds to approx 0.7% output. Depending on the ballast, dimmable luminaires may be supplied with a functional earth connection. DALI and other interfaces are available to special order, the dimensions of these versions may be different from those of standard luminaires.

UNI-Q: choice in colour

The standard colour of the internal components is light grey, similar to RAL 9006.

Optionally, certain caps and brackets can be supplied in black.

The internal components can be finished in any RAL colour to special order.

Order ref: U50KL.

The cost will be quoted on request, depending on the type and quantity.



Electrical specifications

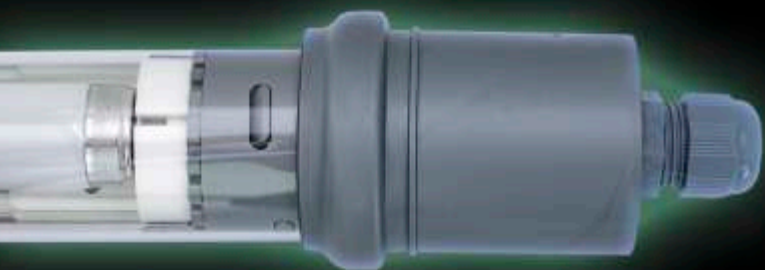
Supply voltage	230VAC 0/50-60hz
VAC range	VAC198 254 V
VDC range	VDC180 254 V
Through wiring	7.5A standard
RFI Suppression	EN 55015
EMC	EN 61000-3-2:1995, EN 61547:1995
Protection	Basic: IP67, Industrial and HiLo: IP68 2 bar; Vertical IP20*
Approvals	CE, ENEC-05 KEMA-Keur
EEL	Standard A2, dimmable: A1
Class	II
Fire class	F
Temperature range	Standard: -25 50 °C
	Dimmable: 0-50 °C
	Integral emergency pack: 0-40 °C

*UNI-Q 50 Vertical is completely watertight.
However, if the moulded transparent cable is used the protection is reduced to IP20.

Through wiring and maximum loads

The maximum ampacity of the through wiring is 7.5 A.
Due to the inrush current on start up only a limited number of luminaires may be connected to one circuit. The table below lists the maximum number of luminaires in one light line and the maximum number of luminaires which may be connected to one Type C MCB.
The number depends on the rating of the luminaires.
In the table "E" denotes a switched luminaire and "ED" a dimmable luminaire.

Lamp power	Max. no. of luminaires in one light line	Max. no. of luminaires protected by one 16 A type C MCB
E14-39	35	64
E54-80	25	47
E2*14-2*39	20	45
E2*54-2*58	15	27
E2*80	13	20
ED 14-39	-	44
ED 54-80	-	32
ED 2*14-2*39	-	31
ED 2*54	-	19



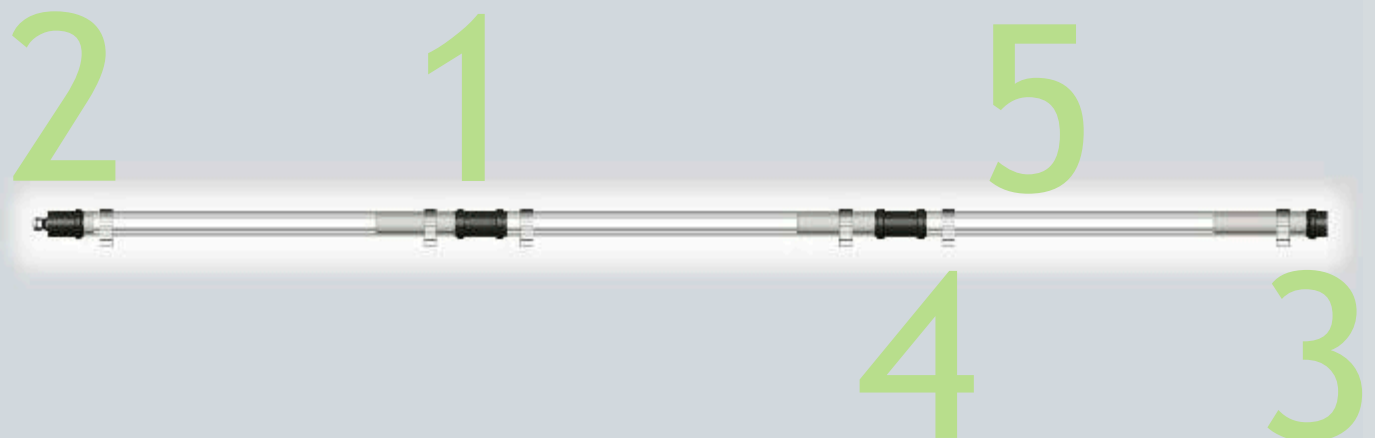
uni-q
uni-q 50 Basic

uni-q 50
Basic



UNI-Q 50 Basic: slim and smart

The 50 mm Uni-Q Basic luminaires are highly resistant against the ingress of water and feature a slim design with unmatched flexibility. These unfussy, powerful 50 mm luminaires simply look great everywhere. UNI-Q 50 basic luminaires can be linked to form a light line of any length. Used individually they have a unique 360 degree spread of light. Available in glass or impact resistant polycarbonate and any colour. Only rarely is "basic" so versatile.



1

Details:

Connection end cap

Easily installed IP67 end cap (PP).

The luminaire has a plug and socket connection to allow rapid lamp replacement.



UDWG50 Connection end cap (PP) with M20 cable gland (6-12 mm), light grey.



UDWZ50 Connection end cap (PP) with M20 cable gland (6-12 mm), black.



UDWDG50 Connection end cap (PP) with cable gland for two cables (5-8 mm). Light grey.
Note: only watertight when fitted with two cables.

2

Coupler

Through wiring luminaires can be linked to an uninterrupted light line using the couplers and interconnection cables. The unique design of the UNI-Q 50 Basic makes it possible to remove or replace a luminaire from a long light line without affecting the other luminaires.

Installation couldn't be easier!

Note: the connection to the power supply should always be made by qualified personnel.



UMFG50 Coupler, IP67 (PP), light grey



UMFZ50 Coupler, IP67 (PP), black



UMTG50 Coupler, IP67 (PP) grey with cable entry (6-12mm).
For luminaires with remote ballasts to minimise the dark sections of the light line.
The maximum ballast cable length is 1.5 m.
This coupler can also be used to connect central emergency power units to a light line.



UMTZ50 Coupler, IP67 (PP) black with cable entry (6-12mm). For luminaires with remote ballasts to minimise the dark sections of the light line. The maximum ballast cable length is 1.5 m.
This coupler can also be used to connect central emergency power units to a light line.



UVK2 Two-pole interconnection cable for two luminaires (2 x 1.5 mm²)



UVK3 Three-pole interconnection cable for two luminaires (3 x 1.5 mm²)



UVK4 Four-pole interconnection cable for two luminaires (4 x 1.5 mm²).
Custom cable assemblies are available to special order.

3

End cap
IP67 end cap to terminate a light line or single luminaire.
Through wiring luminaires can also be fitted with a connection end cap or coupler.



UEDG50 End cap, IP67, light grey

UEDZ50 End cap, IP67, black

Mounting bracket

These brackets are both attractively designed and easy to install.

You can choose from a range of brackets for fixed or suspended installation.*

Outer tube

You can choose from a wide range of outer tubes* such as toughened borosilicate glass, impact resistant polycarbonate or matt acrylate, and a range of colours.

Accessories for Uni-Q 50 Basic luminaires:

1. Reflectors (180 or 80 degrees) which can be freely positioned.
 2. Dimmable version, down to 0.7%.
 3. Versions for T5-FH, T5-FQ and T8 lamps.
 4. Integral emergency version, 1 or 3 hour duration after power failure.
 5. Through wiring for time-saving installation.
- Unique feature: lamps can be replaced without removing the other luminaires.

See section UNI-Q 50 General info for further details.

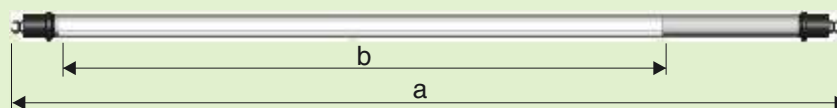
* Special feature: dummy luminaires to create long light lines with fewer actual luminaires. Price per metre, including connectors and wire assembly (order ref. U50DA-M).



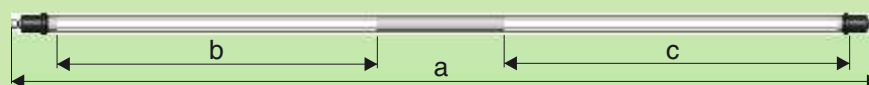
Dimensions: standard and custom sizes

The dimensions of the Uni-Q 50 Basic are standardised. Shorter versions are available to special order, please enquire about the options. All dimensions stated below are $\pm 5\%$

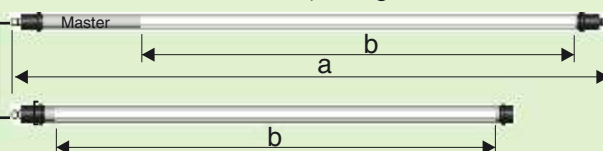
Single lamp model:



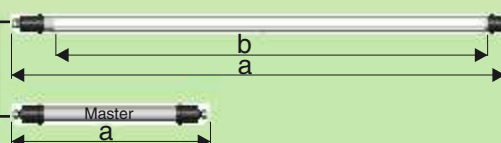
Twin lamp model:



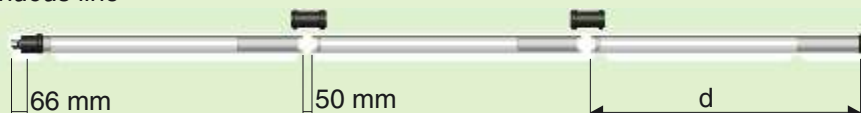
Remote ballast & Master/slave (linking cable max. 1.3 m. Master with lamp)



Remote ballast = Master without lamp



Continuous line



	Order ref.	Uni-Q 50 Basic	No through wiring				Through wiring				#of brackets	
	<i>Type</i>		<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>Glass</i>	<i>Pc</i>
	U50B E14	E14	1030	526		965	1095	549		965	2	2
	U50B E18	E18	1030	567		965	1095	590		965	2	2
	U50B E21	E21	1330	826		1265	1395	849		1265	2	2
	U50B E24	E24	1030	526		965	1095	549		965	2	2
	U50B E28	E28	1640	1126		1575	1705	1149		1575	2	2
	U50B E35	E35	1940	1426		1875	2005	1449		1875	2	3
	U50B E36	E36	1640	1177		1575	1705	1200		1575	2	2
	U50B E39	E39	1330	826		1265	1395	849		1265	2	2
	U50B E54	E54	1640	1126		1575	1705	1149		1575	2	2
	U50B E58	E58	1940	1477		1875	2005	1500		1875	2	3
	U50B E80	E80	1940	1426		1875	2005	1449		1875	2	3
	U50B ED 14	ED14	1170	526		1105					2	2
	U50B ED18	ED18	1170	567		1105					2	2
	U50B ED21	ED21	1470	826		1405					2	2
	U50B ED24	ED24	1170	526		1105					2	2
	U50B ED28	ED28	1795	1126		1730					2	3
	U50B ED35	ED35	2095	1426		2030					2	3
	U50B ED36	ED36	1795	1177		1730					2	3
	U50B ED39	ED39	1470	826		1405					2	2
	U50B ED54	ED54	1795	1126		1730					2	3
	U50B ED58	ED58	2095	1477		2030					2	3
	U50B ED80	ED80	2095	1426		2030					2	3
	U50B E2*21	E2*21	2370	826	849	2305	2435	849	849	2305	2	3
	U50B E2*28	E2*28	2970	1126	1149	2905	3035	1149	1149	2905	3	3
	U50B E2*35	E2*35	3570	1426	1449	3505	3635	1449	1449	3505	3	4
	U50B E2*36	E2*36	2970	1177	1200	2905	3035	1200	1200	2905	3	3
	U50B E2*39	E2*39	2370	826	849	2305	2435	849	849	2305	2	3
	U50B E2*54	E2*54	2970	1126	1149	2905	3035	1149	1149	2905	3	3
	U50B E2*58	E2*53	1477	477	1500	3505	3635	1500	1500	3505	3	4

7 Basic. Effective from January 2006.
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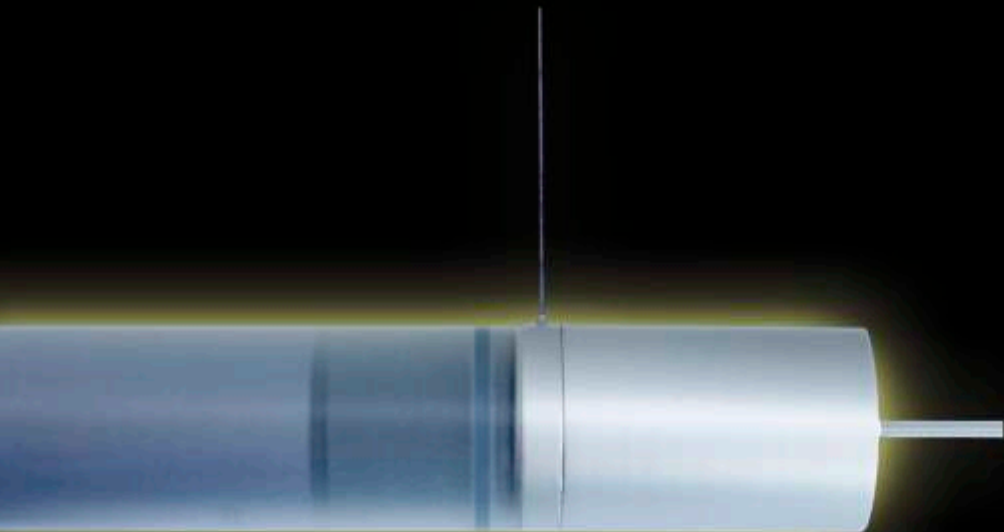
	Order ref.	Uni-Q 50 Basic	No through wiring				Through wiring				#of brackets	
		Type	a	b	c	d	a	b	c	d	Glass	Pc
	U50B E2*80	E2*80	3570	1426	1449	3505	3635	1449	1449	3505	3	4
	U50B ED2*28	ED2*28	3070	1126	1149	3005					3	3
	U50B ED2*36	ED2*36	3070	1177	1200	3005					3	3
	U50B ED2*54	ED2*54	3070	1126	1149	3005					3	3
	U50B E14 MS-L	Maters+lamp E14	1095	549		965					2	2
	U50B E18 MS-L	Master+lamp E18	1095	590		965					2	2
	U50B E21 MS-L	Master+lamp E21	1395	849		1265					2	2
	U50B E24 MS-L	Master+lamp E24	1095	549		965					2	2
	U50B E28 MS-L	Master+lamp E28	1705	1149		1575					2	2
	U50B E35 MS-L	Master+lamp E35	2005	1449		1875					2	3
	U50B E36 MS-L	Master+lamp E36	1705	1200		1575					2	2
	U50B E39 MS-L	Master+lamp E39	1395	849		1265					2	2
	E54 MS-L	Master+lamp E54	1705	1149		1575					2	2
	U50B E58 MS-L	Master+lamp E58	2005	1500		1875					2	3
	U50B E80 MS-L	Master+lamp E80	2005	1449		1875					2	3
	U50B E14 MS	Master E14	440				310				2	2
	U50B E18 MS	Master E18	440				310				2	2
	U50B E21 MS	Master E21	440				310				2	2
	U50B E24 MS	Master E24	440				310				2	2

	Order ref.	Uni-Q 50 Basic	No through wiring				Through wiring				#of brackets	
		<i>Type</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>Glass</i>	<i>Pc</i>
		U50B E28 MS Master E28	440			310					2	2
		U50B E35 MS Master E35	440			310					2	2
		U50B E36 MS Master E36	440			310					2	2
		U50B E39 MS Master E39	440			310					2	2
		U50B E54 MS Master E54	440			310					2	2
		U50B E58 MS Master E58	440			310					2	2
		U50B E80 MS Master E80	440			310					2	2
		U50B ED14 MS Master ED 14	640			510					2	2
		U50B ED18 MS Master ED 18	640			510					2	2
		U50B ED21 MS Master ED 21	640			510					2	2
		U50B ED24 MS Master ED 24	640			510					2	2
		U50B ED28 MS Master ED 28	640			510					2	2
		U50B ED35 MS Master ED 35	640			510					2	2
		U50B ED36 MS Master ED 36	640			510					2	2
		U50B ED39 MS Master ED 39	640			510					2	2
		U50B ED54 MS Master ED 54	640			510					2	2
		U50B ED58 MS Master ED58	640			510					2	2
		U50B ED80 MS Master ED 80	640			510					2	2

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	Order ref.	Uni-Q 50 Basic	No through wiring				Through wiring				#of brackets	
		Type	a	b	c	d	a	b	c	d	Glass	Pc
	U50B E14 S	Slave E14	760	526		695					2	2
	U50B E18 S	Slave E18	760	567		695					2	2
	U50B E21 S	Slave E21	1030	826		965					2	2
	U50B E24 S	Slave E24	760	526		695					2	2
	U50B E28 S	Slave E28	1330	1126		1265					2	2
	U50B E35 S	Slave E35	1630	1426		1565					2	3
	U50B E36 S	Slave E36	1370	1177		1305					2	2
	U50B E39 S	Slave E39	1030	826		965					2	2
	U50B E54 S	Slave E54	1330	1126		1265					2	2
	U50B E58 S	Slave E58	1670	1477		1605					2	3
	U50B E80 S	Slave E80	1630	1426		1565					2	3
	U50B E18 N1	Emerg. 1hr E18	1755	567		1690	1820	590	1690		2	3
	U50B E18 N3	Emerg. 3hr E18	1755	567		1690	1820	590	1690		2	3
	U50B E36 N1	Emerg. 1hr E36	2360	1177		2295	2425	1200	2295		2	3
	U50B E36 N3	Emerg. 3hr E36	2510	1177		2445	2575	1200	2445		2	3
	U50B E58 N1	Emerg. 1hr E58	2660	1477		2595	2725	1500	2595		3	3
	U50B E58 N3	Emerg. 3hr E58	2810	1477		2745	2875	1500	2745		3	3
	U50B EDMS N1	Master Emerg. 1hr 1160					1030				2	2
	U50B EDMS N3	Master Emerg. 3hr 1310					1180				2	2

8 Basic. Effective from January 2006.
This publication is nonbinding and for information only.



uni-q
uni-q 50 HiLo

uni-q 50
HiLo



Uni-Q HiLoTube:

functionality combined with an attractive design

HATO has reinterpreted the traditional suspended luminaire with this attractive unit in polished and anodised aluminium.

Of course, this model has all the outstanding technical features of the Uni-Q TubeDesign range. Functionality and attractive design based on perfect simplicity add something special to information desks, offices and meeting rooms.



1

Details:

Attractive end cap, anodised and polished aluminium.

This cap accepts cables from 6 to 8 mm and provides IP68 protection against the ingress of water up to 2 bar. Also available in matt aluminium.

Note: suspended installation requires hangers as well as end caps.



U50HLDLG-1 End cap, polished anodised aluminium, 8 mm cable entry

U50HLDLG-2 End cap, matt anodised aluminium, 8 mm cable entry.

U50HLDLD-1 End cap, polished anodised aluminium, without cable entry

U50HLDLD-2 End cap, matt anodised aluminium, without cable entry.

2

Hanger, with 1.5 mm stainless steel cable for suspended installation.

The HiLo range can be installed with the attractive hangers or fixed to the wall or ceiling with brackets. In the latter case there is no need for the hangers.



U50HLR-1 Hanger, polished anodised aluminium.

Supplied with 2 m stainless steel cable, 1.5 mm.

U50HLR-2 Hanger, matt anodised aluminium.

Supplied with 2 m stainless steel cable, 1.5 mm.

3

Ceiling box for stainless steel cable, anodised aluminium.

Diameter 50 mm, thickness 25 mm.

The stainless steel cable is easily fixed, without screws.



UPDA-1 Ceiling box for stainless steel cable, polished anodised aluminium.

UPDA-2 Ceiling box for stainless steel cable, matt anodised aluminium.

4

Ceiling box for stainless steel cable and power cable, anodised aluminium. Diameter 95 mm, thickness 25 mm. Easy to install.



UPDB-1 Ceiling box for stainless steel cable and power cable, polished anodised aluminium

UPDB-2 Ceiling box for stainless steel cable and power cable, matt anodised aluminium

4

Ceiling box for power cable, anodised aluminium.
Diameter 95 mm, thickness 25 mm. Easy to install.



UPDC-1 Ceiling box for power cable, with strain relief, polished anodised aluminium

UPDC-2 Ceiling box for power cable, with strain relief, matt anodised aluminium

5

Outer tube: a range of plastic outer tubes in different colours.
HiLo luminaires featuring matt PMMA outer tubes are particularly striking.
Ask your agent about the latest choice of colours.

Accessories for UNI-Q 50 Industrial luminaires:

1. Reflectors (180 or 80 degrees) which can be freely positioned.
In horizontal applications the luminaire may develop a slight curve due to temperature differences*.
2. Dimmable version*.
3. Versions for T5-FH, T5-FQ and T8 lamps.
4. Suitable for through wiring*.
A modified design, to link the luminaires with aluminium couplers, is also available.
This creates an attractive light line.

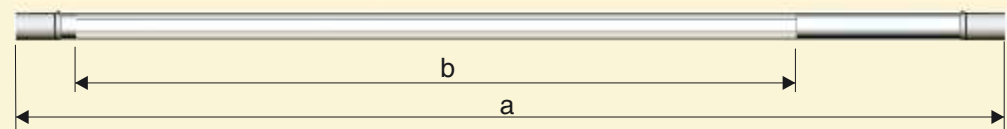
Please ask your agent about the options and restrictions*.

*See section UNI-Q 50 General info for further details.

Dimensions: standard and custom sizes

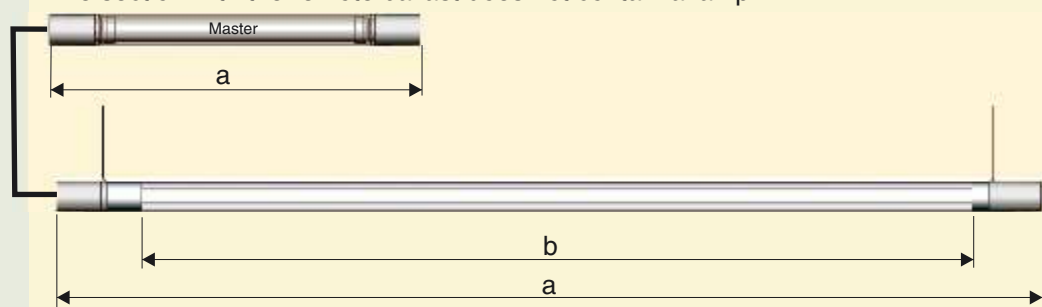
The dimensions of the UNI-Q 50 HiLo are standardised. Shorter versions are available to special order, please enquire about the options.
All dimensions stated below are $\pm 5\%$.

Standard version



Remote ballast (linking cable max. 1.3 m)

The section with the remote ballast does not contain a lamp.

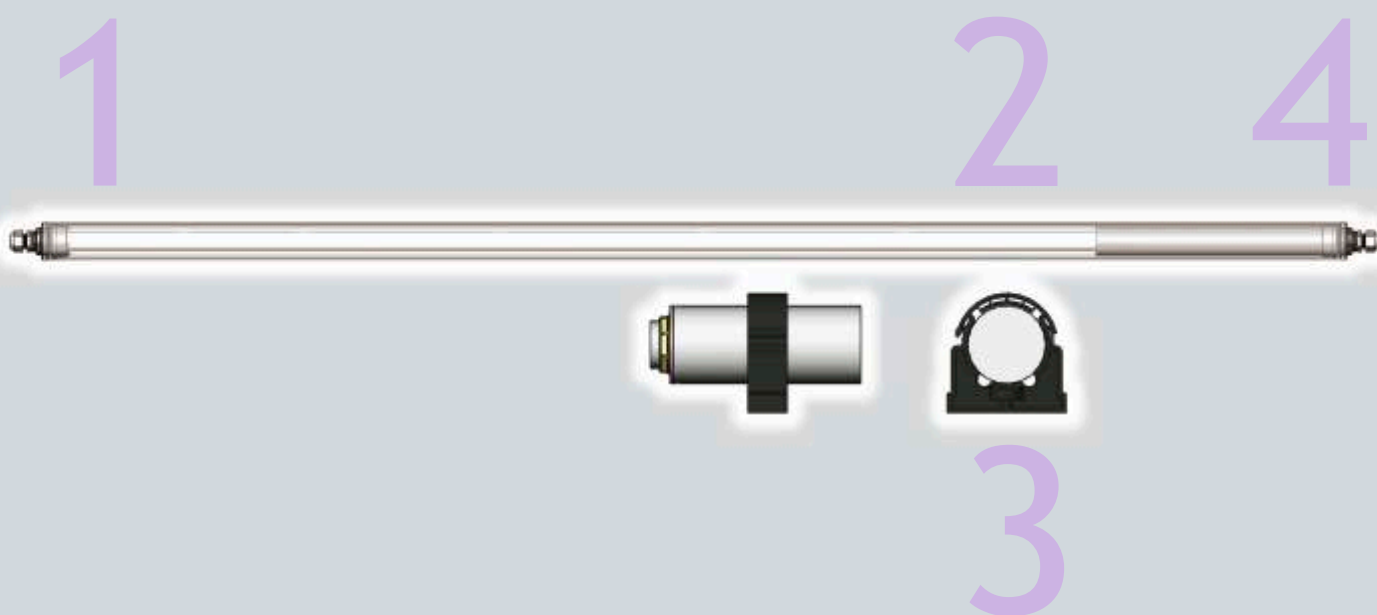


	Order ref.	Uni-Q 50 HiLo		
		Type	a	b
	U50H E28	E28	1765	1149
	U50H E35	E35	2065	1449
	U50H E36	E36	1815	1200
	U50H E54	E54	1765	1149
	U50H E58	E58	2115	1500
	U50H E80	E80	2065	1449
	U50H ED28	ED28	1880	1149
	U50H ED35	ED35	2180	1449
	U50H ED36	ED36	1930	1200
	U50H ED54	ED54	1880	1149
	U50H ED58	ED58	2230	1500
	U50H ED80	ED80	2180	1449
	U50H E28S	E28 slave	1535	1149
	U50H E35S	E35 slave	1835	1449
	U50H E36S	E36 slave	1585	1200
	U50H E54S	E54 slave	1535	1149
	U50H E58S	E58 slave	1885	1500
	U50H E80S	E80 slave	1835	1449
	U50H E36N1	E36 Emerg. 1hr	2465	1200
	U50H E58N1	E58 Emerg. 1hr	2765	1500
	U50H E-M	Master E types	560	-
	U50H ED-M	Master ED types	715	-
	<p>6 HiLo. Effective from January 2006. This publication is nonbinding and for information only.</p>			



Uni-Q Industrial: a shining light even under extreme conditions

Uni-Q 50 Industrial: designed for extreme environments. This extremely watertight design produced in high-impact polycarbonate can be immersed down to 20 metres. To special order Uni-Q Industrial luminaires are available in versions to resist almost any chemical agent. Again, the Uni-Q range provides great flexibility.



1

Details:

IP 68 - 2 bar connection end cap, plastic.



2

Choose from a range of plastic outer tubes in different colours.
Fire rated versions up to class V0 are available*.

3

Choose from a range of mounting brackets.
The standard PP bracket is particularly easy to install and has a high chemical resistance*.



4

IP 68 - 2 bar end cap, plastic.



Accessories for UNI-Q 50 Industrial luminaires:

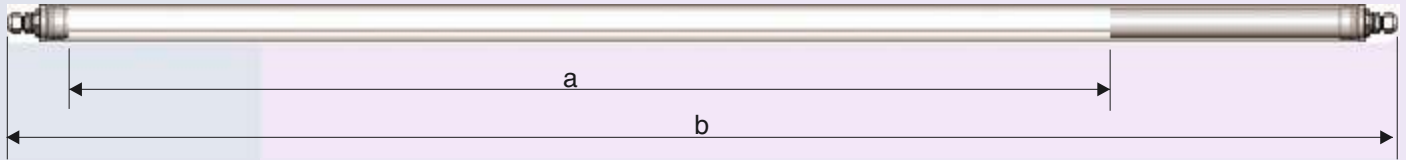
1. Reflectors (180 or 80 degrees) which can be freely positioned.*
2. Dimmable version.*
3. Versions for T5-FH, T5-FQ and T8 lamps.*
4. Integral emergency version, 1 or 3 hour duration after power failure.*
5. Through wiring for time-saving installation.*

**See section UNI-Q 50 General info for further details.*

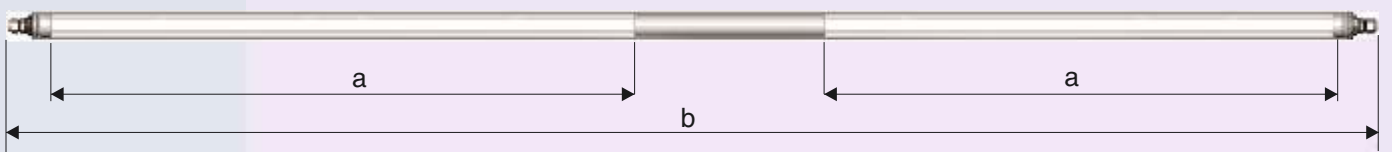
Dimensions: standard and custom sizes

The dimensions of the UNI-Q 50 Industrial are standardised. Shorter versions are available to special order, please enquire about the options.
All dimensions stated below are $\pm 5\%$.

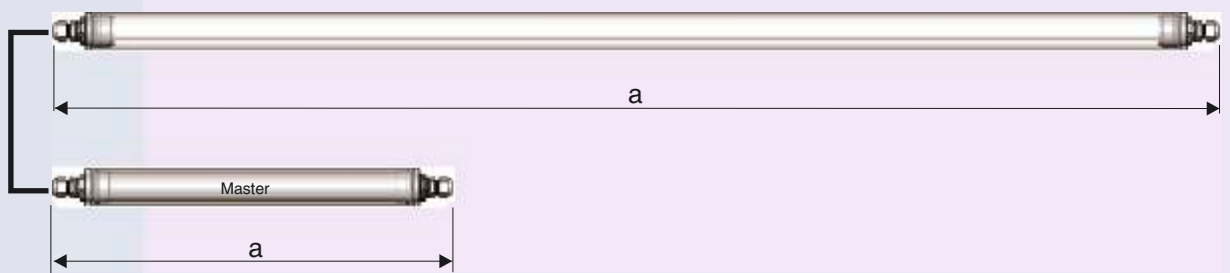
Single lamp model:



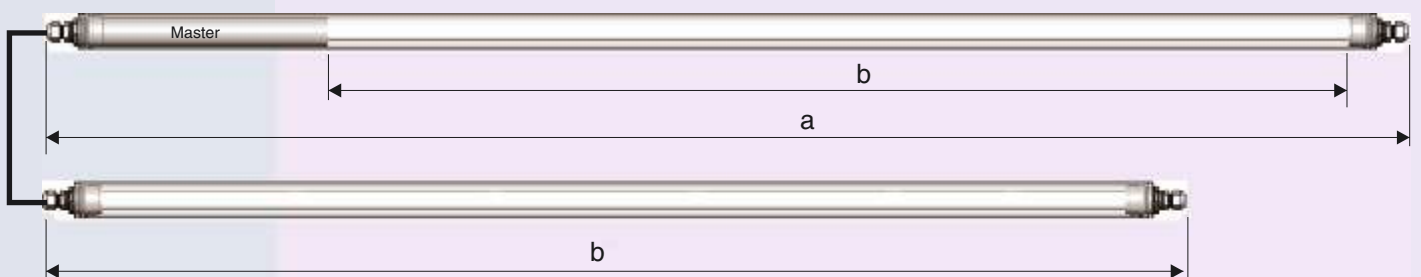
Twin lamp model:



Remote ballast & Master/slave (linking cable max. 1.3 m. Master without lamp/remote ballast)



Remote ballast & Master/slave (linking cable max. 1.3 m. Master with lamp)



	Order ref.	Uni-Q 50 Industrial	No through wiring		Through wiring		
		Type	a	b	a	b	# Brackets
	U50i E14	E14	1025	549	1110	549	2
	U50i E18	E18	1070	590	1155	590	2
	U50i E21	E21	1325	849	1410	849	2
	U50i E24	E24	1025	549	1110	549	2
	U50i E28	E28	1625	1149	1710	1149	2
	U50i E35	E35	1925	1449	2010	1449	3
	U50i E36	E36	1680	1200	1765	1200	3
	U50i E39	E39	1325	849	1410	849	2
	U50i E54	E54	1625	1149	1710	1149	2
	U50i E58	E58	1980	1500	2065	1500	3
	U50i E80	E80	1925	1449	2010	1449	3
	U50i ED14	ED14	1135	549			2
	U50i ED18	ED18	1180	590			2
	U50i ED21	ED21	1435	849			2
	U50i ED24	ED24	1135	549			2
	U50i ED28	ED28	1735	1149			3
	U50i ED35	ED35	2035	1449			3
	U50i ED36	ED36	1790	1200			2
	U50i ED39	ED39	1435	849			2
	U50i ED54	ED54	1735	1149			3
	U50i ED58	ED58	2090	1500			3
	U50i ED80	ED80	2035	1449			3
	U50i E2*21	E2*21	2265	2x 849	2350	2x 849	3
	U50i E2*28	E2*28	2865	2x1149	2950	2x1149	3
	U50i E2*35	E2*35	3465	2x1449	3550	2x1449	4
	U50i E2*36	E2*36	3030	2x1200	3065	2x1200	3
	U50i E2*39	E2*39	2265	2x 849	2350	2x 849	3

6 Industrial. Effective from January 2006.
This publication is nonbinding and for information only.

8 Industrial. Effective from January 2006.
This publication is nonbinding and for information only.



uni-q 50 Vertical

uni-q 50
Vertical





Uni-Q 50 Vertical: simply outstanding

Uni-Q 50 Vertical is a vertically suspended luminaire. It combines an attractive design, flexibility and a guaranteed high light output. This unique omnidirectional luminaire has many exciting applications. It can also be fitted with reflectors to direct the light. The unique gland moulded to the cable has an integrated strain-relief and greatly reduces the length of the end cap.

1

Details:

Attractive connection end cap with 2 m clear moulded cable
(other lengths available to special order).

U50DKG-1

Anodised aluminium cap for the power supply side with 8 mm hole. Polished.

U50DKG-2

Anodised aluminium cap for the power supply side with 8 mm hole. Matt.



2

End cap, anodised aluminium (no cable connection)

U50DKD-1

Anodised aluminium end cap. Polished.

U50DKD-2

Anodised aluminium end cap. Matt.



3

Ceiling box for power cable,
polished or matt anodised aluminium. Easy to install.

UPDC-1

Ceiling box for power cable, with strain relief, polished anodised aluminium

UPDC-2

Ceiling box for power cable, with strain relief, matt anodised aluminium



4

Outer tube:

choose from a range of plastic outer tubes in different colours.

Uni-Q 50 Vertical luminaires featuring matt PMMA or opal polycarbonate outer tubes are particularly striking. Ask your agent about the latest choice of colours.

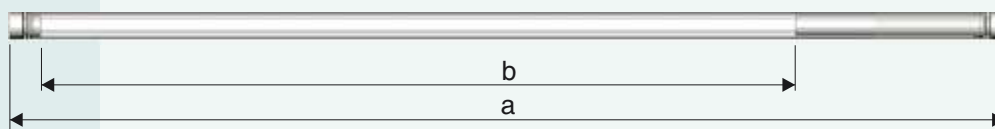
Accessories for UNI-Q 50 Vertical luminaires:

1. Reflectors (180 or 80 degrees) which can be freely positioned.
2. Dimmable version.
3. Versions for T5-FH, T5-FQ and T8 lamps.

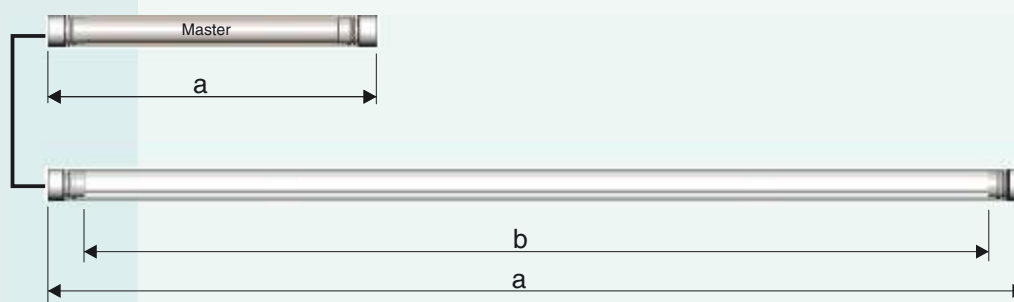
See section UNI-Q 50 General info for further details.

Dimensions: standard and custom sizes

The dimensions of the UNI-Q 50 Vertical are standardised.
Shorter versions are available to special order, please enquire about the options.
All dimensions stated below are $\pm 5\%$.



Remote ballast (linking cable max. 1.3 m)



Order ref.	Uni-Q 50 Vertical		
	Type	a	b
U50V E14	E14	1010	549
U50V E18	E18	1055	590
U50V E21	E21	1310	849
U50V E24	E24	1010	549
U50V E28	E28	1610	1149
U50V E35	E35	1910	1449
U50V E36	E36	1665	1200
U50V E39	E39	1310	849
U50V E54	E54	1610	1149
U50V E58	E58	1965	1500
U50V E80	E80	1910	1449

	Order ref.	Uni-Q 50 Vertical		
		Type	a	b
	U50V ED14	ED14	1120	549
	U50V ED18	ED18	1165	590
	U50V ED21	ED21	1420	849
	U50V ED24	ED24	1120	549
	U50V ED28	ED28	1720	1149
	U50V ED35	ED35	2020	1449
	U50V ED36	ED36	1775	1200
	U50V ED39	ED39	1420	849
	U50V ED54	ED54	1720	1149
	U50V ED58	ED58	2075	1500
	U50V ED80	ED80	2020	1449
	U50V E14S	E14 slave	755	549
	U50V E18S	E18 slave	800	590
	U50V E21S	E21 slave	1055	849
	U50V E24S	E24 slave	755	549
	U50V E28S	E28 slave	1355	1149
	U50V E35S	E35 slave	1655	1449
	U50V E36S	E36 slave	1410	1200
	U50V E39S	E39 slave	1055	849
	U50V E54S	E54 slave	1355	1149
	U50V E58S	E58 slave	1710	1500
	U50V E80S	E80 slave	1655	1449
	U50V E-M	Master E types	445	-
	U50V ED-M	Master ED types	600	-
	6 Vertical. Effective from January 2006. This publication is nonbinding and for information only.			