

**THORN
LIGHTING
LTD.**

**COMPREHENSIVE
LIGHTING
CATALOGUE
1971/72**



atlas Incandescent and Discharge Fittings

Introduction

The fittings illustrated in this section fall into four main categories.

Part One

INDUSTRIAL FITTINGS PP.3:2—3:12

A range of heavy-duty fittings to take incandescent or discharge lamps most of which are designed for high-bay mounting.

Part Two

COMMERCIAL LIGHTING FITTINGS

a. Display Lighting Fittings. PP 3:13—3:36

This section covers a new range of swivel-mounted fittings designed to make full use of the new light-sources now available and the established range of recessed and surface-mounted fixed display-type fittings.

b. Hospital & School Lighting PP. 3:37, 3:38

c. Decorative, Commercial Fittings PP. 3:39—56

Glass and plastic ceiling-mounted and pendant fittings and wall brackets to suit almost any commercial interior, including the well-known Atlas Modern, Linklite and Chelsea ranges and the Viewpoint shaver unit.

A detailed Index of Part One is to be found on P. 3:2 and Part Two on page 3:13.

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Industrial lighting fittings

HB Range This range of fittings has been designed for use in installations where mounting heights of between 15ft and 60ft are available.

The range comprises Gear and Lampholder HBG assemblies for 250W, 400W, 700W or 1000W lamps. There is also a Lampholder HBT assembly for use when control gear is mounted remotely, to service the same lamp range.

FLA. This is a lower wattage fitting for factory lighting where mounting heights of 10ft-15ft are available. It uses a 125W MBF °Kolorlux lamp in a rectangular metal reflector.

3:3

High Pressure Sodium The range has recently been extended to incorporate HBSG 250 (250W SON) and HBSG 400 (400W SON) gear units for use with HBX 400 reflectors and SON lamps. The same lamps and reflectors can be used with the HBT unit with remotely control gear.

3:10

HBR Range This range of fittings has been designed for use in installations where mounting heights of between 15ft and 60ft are available.

The range comprises of gear and lampholder assemblies for 250W, 400W, 700W and 1000W Kolorlux lamps (MBFR) with internal reflectors.

In addition a reflector shield (HBR) further increases the useful downwards illumination and provides a mechanical protection to the lamp, a wire guard is fitted as standard. There is also a lampholder assembly (HBT) for use when control gear is remotely mounted, to service the same lamp range and employing the same reflector shield assemblies.

3:4, 3:5

HBX Range This is a range of fittings designed specifically to give a high illumination level in installations with a mounting height of 20ft, and over.

The fitting consists of a spun anodised aluminium reflector (HBX) with similar gear and lampholder assemblies (HBG), as used in the HBR range of reflector shield fittings, two reflector sizes 400W and 1000W with optional wire guards, are available.

3:7, 3:8

HBX 400 Kolorlux lamps (MBF) in 250W and 400W ratings can be employed in this reflector. In addition the 400W Kolorarc (MBIF) lamps, with 25% better light output and colour rendering than MBF, is suitable.

There is also a lampholder assembly (HBT) for use when control gear is remotely mounted, to service the same lamp range and employing the same reflector.

3:7

HBX 1000 700W and 1000W Kolorlux lamps, can be employed with the reflector.

There is also a lampholder assembly (HBT) for use when control gear is remotely mounted to service the same lamp range and also the 1000W Kolorarc (MBI) lamp.

3:8

HBI Range This is a new fitting for a completely new lamp of the Mercury Halide type. We call the lamp the 400W °Kolorarc because not only do we get some 30% more light but also improved colour rendering. A 1kW lamp version is also available.

The fitting consists of a spun anodised aluminium reflector to take a 400W MBIF lamp and give a BZ1 distribution. This reflector, fitted with a wire guard as optional extra, can be attached to a gear and lampholder housing or to a lampholder assembly only when control gear is mounted remotely. A larger reflector for 1kW lamps is also available.

This reflector may also be used with the HB range, in place of the reflector shield, to extend this range for use with MBF, MBF °Kolorlux and SON lamps in the 250W, 400W, 700W and 1000W ratings.

3:9

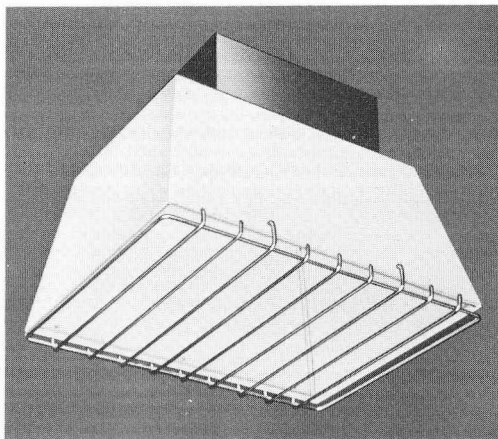
3:11

atlas FLA.125 Fitting

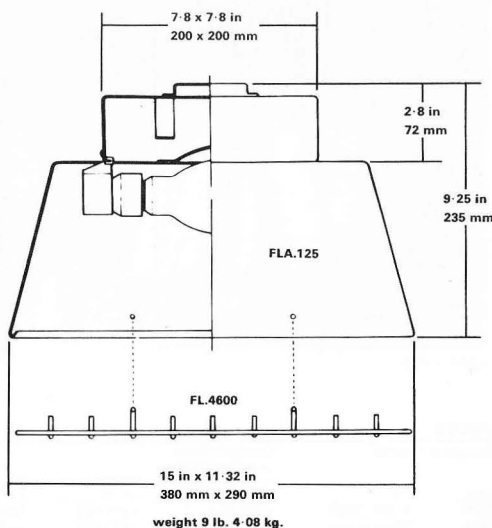
Factory Light Units for industrial areas with normal or low ceilings – such as machine shops, garages, warehouses, storerooms and enclosed loading bays.

The fitting comprises a square black box containing control gear, for 1-125W MBF Kolorlux lamp, (not included in pack), and a closed end trough reflector finished white, and attached to the underside. The lamp is mounted horizontally to reduce overall depth of the fitting.

Reflector and gear box are in one pack and an optional wire guard is available.



Fixing: The fitting is secured to a B.S. conduit box by means of piercings clustered around a central $\frac{3}{4}$ in dia. clearance hole located in the top boss at the centre of the fitting.



CAT. NO.	DESCRIPTION:
FLA.125	Metal Reflector Fitting for 125W MBF lamp
FL.4600	Wire Guard

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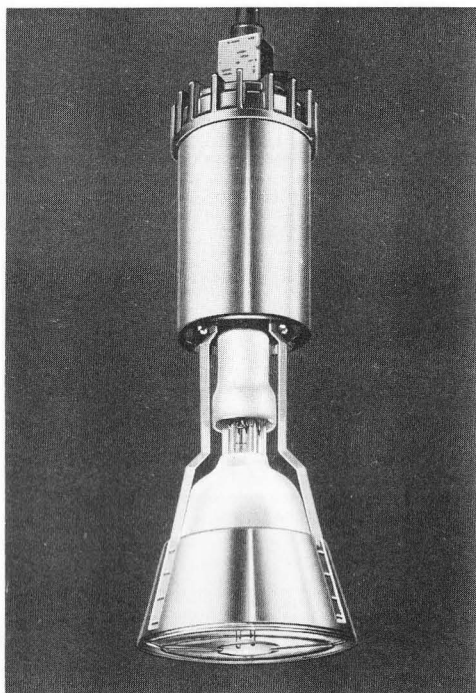
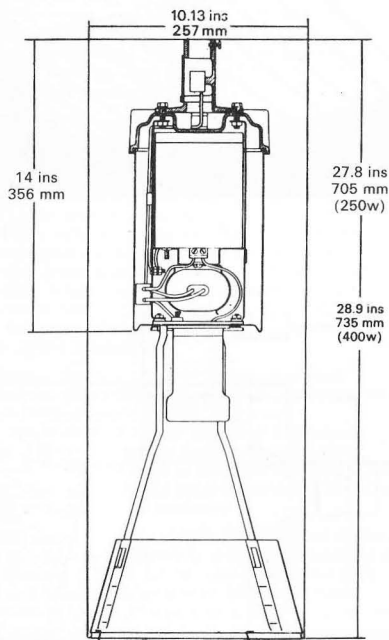
HBR/G250 and G400 fittings

These fittings have been designed for use in installations where mounting heights of between 15ft and 30ft are available and are suitable for use in practically all types of industry.

This fitting is particularly recommended for new installations or for replacing existing tungsten fittings where higher illumination values with reduced maintenance are required.

The fittings incorporate relevant switchless start control gear for operating either a 250W or 400W MBFR high pressure mercury vapour reflector lamp on 240V 50Hz supplies. (Other supplies on application.) The fitting

is easily installed via a 1in diameter conduit entry on the top of the fitting into a separate wiring box to facilitate wiring to the mains without dismantling the fitting. A reflector shield is provided as standard to ensure the maximum downward light output and at the same time affording protection to the lamp. A protective wire guard is provided for fitting into the base of the reflector. A version for use with remotely mounted control gear is also available. (See HBT p. 3:6.)



HBR/G400

RANGE

Complete fitting

Components

Rating	Cat. no.	Control gear housing including gear		Wire Guard	Weight inc. lamp	
		Cat. no.	Reflector Cat. no.		Cat. no.	lb
250W	HBR/G250	HBG.250	HBR.400	Included	15.5	7.02
400W	HBR/G400	HBG.400	HBR.400	Included	20.25	9.17

Note: The HBR400 reflector shield can be replaced by an HBX400 reflector (see p. 3:7) for use with 250W & 400W MBF lamps.

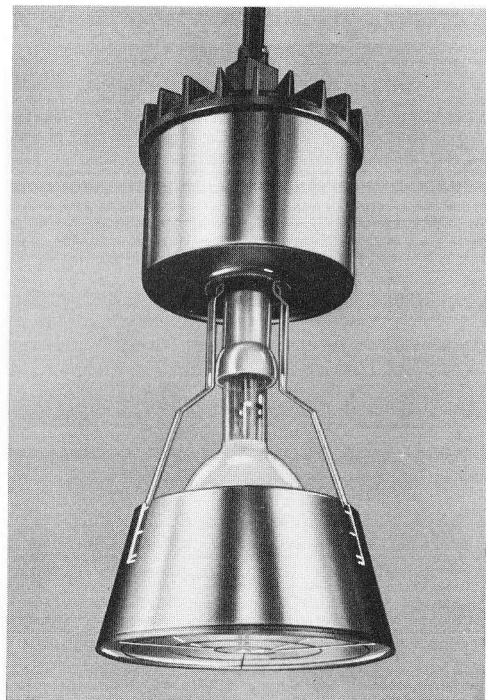
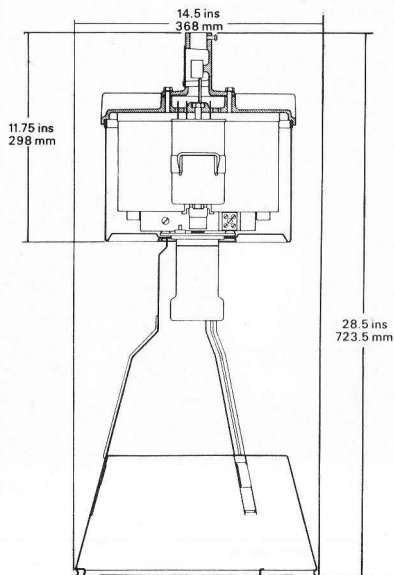
atlas HBR/G700 and G1000 fittings

These fittings have been designed for use in installations where mounting heights of between 30ft and 60ft are available and are suitable for use in practically all types of industry.

This fitting is particularly recommended for new installations or for replacing existing tungsten fittings where higher illumination values with reduced maintenance are required.

The fittings incorporate relevant switchless start control gear for operating either a 700w or 1000w MBFR high-

pressure mercury vapour reflector lamp on 240v 50Hz supplies. (Other supplies on application.) The fitting is easily installed via a 1in diameter conduit entry on the top of the fitting into a separate wiring box to facilitate wiring to the mains without dismantling the fitting. A reflector shield is provided as standard to ensure the maximum downward light output and at the same time affording protection to the lamp. A protective wire guard is provided for fitting into the base of the reflector. A version for use with remotely mounted control gear is also available. (See HBT p.3:6.)



HBR/G1000

Note: The **HBR1000** reflector shield can be replaced by an HBX1000 reflector (see page 3:8) for use with 700W and 1000W MBF lamps.

RANGE

Complete fitting

Components

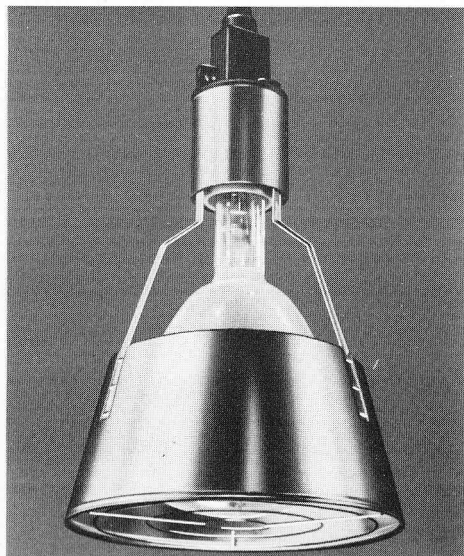
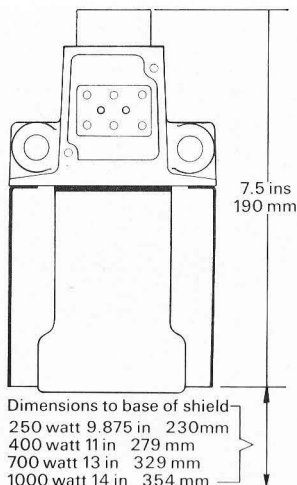
Rating	Cat. no.	Control gear housing including gear		Weight inc. lamp	
		Cat. no.	Reflector 700/1000w Cat. no.	lb	kg
700w	HBR/G700	HBG.700	HBR.1000	37.75	17.1
1000w	HBR/G1000	HBG.1000	HBR.1000	40.25	18.2

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HBT fittings

These fittings have been designed for use in installations where mounting heights of between 15ft and 60ft are available, and are particularly recommended for installations where a high illumination value with low maintenance is required. This fitting will accept either a 250W, 400W, 700W or 1000W MBFR high pressure mercury vapour reflector lamp for use with remotely mounted control gear. The fitting is easily installed via a 1 in diameter conduit entry on top of the fitting.

A reflector shield is provided as standard to ensure the maximum downward light output and at the same time affording protection to the lamp. A protective wire guard is provided for fixing to the base of the reflector. A version incorporating switchless start H.P.F. control gear is available. (See HBR/G. p. 3:4 and 3:5.)



HBT/R1000

RANGE

Complete fitting

Rating	Lamp type	Cat. no.	Components		Dimensions		Weight (less lamp)	
			Top Cat. no.	Reflector including Guard Cat. no.	Max. diameter in	mm	lb	kg
250W, 400W	MBFR	HBT/R400	HBT	HBR.400	4.2	106.4	1.75	0.79
700W, 1000W	MBFR	HBT/R1000	HBT	HBR.1000	10.13	257	1.5	0.68

Note: The HBR reflector shields can be replaced by HBX reflectors (See p. 3:11.)

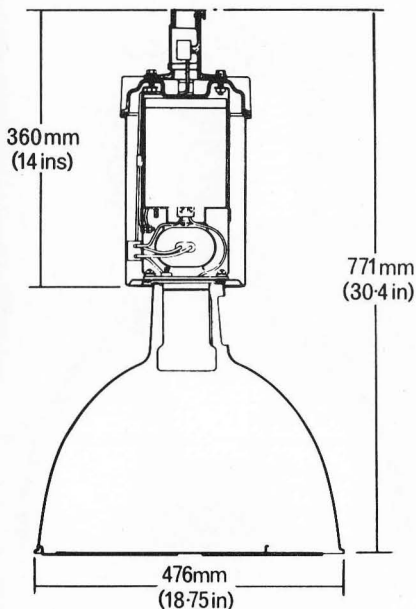
atlas HBX/G250 and G400 fittings

These fittings have been designed for use in installations where mounting heights of between 15ft and 30ft are available and are suitable for use in practically all types of industry.

These fittings are particularly recommended for new installations or for replacing existing tungsten fittings where higher illumination values with reduced maintenance are required.

The fittings incorporate relevant switchless start control gear for operating either a 250W or 400W MBF high pressure mercury vapour reflector lamp on 240V 50Hz supplies. (Other supplies on application.) The fitting is easily installed via a 1 in diameter conduit entry on

the top of the fitting into a separate wiring box to facilitate wiring to the mains without dismantling the fitting. A reflector is provided as standard to ensure the maximum downward light output and at the same time affording protection to the lamp. A protective wire guard is available for fitting into the base of the reflector. A version for use with remotely mounted control gear is also available. (See HBT p.3:11).



HBX/G250

RANGE

Complete fitting

Rating	Lamp type	Cat. no.	Components			Weight inc. lamp	
			Control gear housing incl. gear Cat. no.	Reflector Cat. no.	Optional Wire Guard Cat. no.	lb	kg
250W	MBF	HBX/G250	HBG250	HBX400	HB4601	19.0	8.6
400W	MBF	HBX/G400	HBG400	HBX400	HB4601	23.75	10.77

Note: The HBX 400 reflector can be replaced by an HBR 400 reflector-Shield (See P. 3:4) for MBF/R with 250W and 400W MBF/R lamps.

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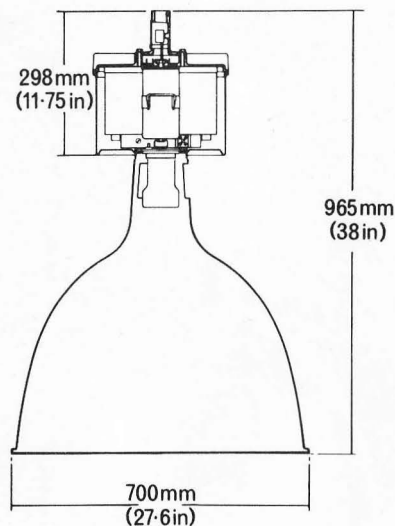
HBX/G700 and G1000 fittings

These fittings have been designed for use in installations where mounting heights of between 30ft and 60ft are available and are suitable for use in practically all types of industry.

These fittings are particularly recommended for new installations or for replacing existing tungsten fittings where higher illumination values with reduced maintenance are required.

The fittings incorporate relevant switchless start control gear for operating either a 700W or 1000W MBF high pressure mercury vapour reflector lamp on 240V 50Hz supplies. (Other supplies on application.) The fitting is easily installed via a 1 in diameter conduit entry on

the top of the fitting into a separate wiring box to facilitate wiring to the mains without dismantling the fitting. A reflector is provided as standard to ensure the maximum downward light output and at the same time affording protection to the lamp. A protective wire guard is available for fitting into the base of the reflector. A version for use with remotely mounted control gear is also available. (See HBT p.3:11).



HBX/G1000

RANGE

Complete fitting

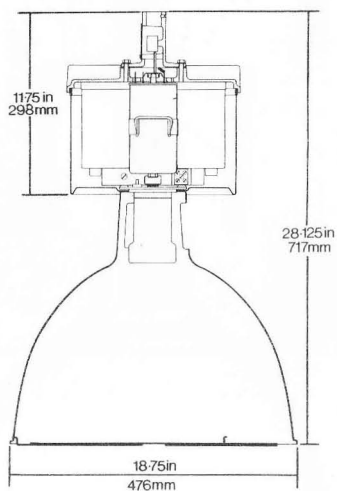
Complete fitting			Components			Weight inc. lamp	
Rating	Lamp type	Cat. no.	Control gear housing incl. gear Cat. no.	Reflector Cat. no.	Optional Wire Guard Cat. no.	lb	kg
700W	MBF	HBX/G700	HBG700	HBX1000	HB4602	42.4	19.2
1000W	MBF	HBX/G1000	HBG1000	HBX1000	HB4602	46	20.9

Note: The HBX 1000 reflector can be replaced by an HBR 1000 reflector shield (see p. 3:5) for use with 700W and 1000W MBFR lamps.

atlas HBIX/G400 °Kolorarc fitting

This new fitting has been designed for use in installations where mounting heights between 20ft and 50ft are available and is suitable for use in practically all types of industry and is particularly recommended for new installations or for replacing existing tungsten fittings where higher illumination values with reduced maintenance are required. The fitting incorporates switchless start control gear to operate a 400w MBIF °Kolorarc lamp on 240v 50Hz (220v 50Hz on application). The fitting is easily installed via a 1 in. diameter conduit entry, on the top of the fitting, into a

separate wiring box to facilitate wiring to the mains without dismantling the fitting. A reflector in anodised aluminium is provided to give a BZI high efficiency downward light output, slots are provided at the top of the reflector to provide a small proportion of upward light to prevent a 'tunnel' effect and also to allow a flow of air over the lamp and reflecting surfaces which helps to reduce maintenance. A protecting wire guard is available as an optional extra. (Cat. No. HB.4601.)



HBIX/G400

RANGE

Complete fitting

Components

Rating	Lamp type	Cat. no.	Control gear housing incl. gear Cat. no.	Reflector Cat. no.	Optional Wire Guard Cat. no.	Weight inc. lamp	
						lb	kg
400w	MBIF	HBIX/G400	HBIG.400	HBX.400	HB.4601	40.5	18.3

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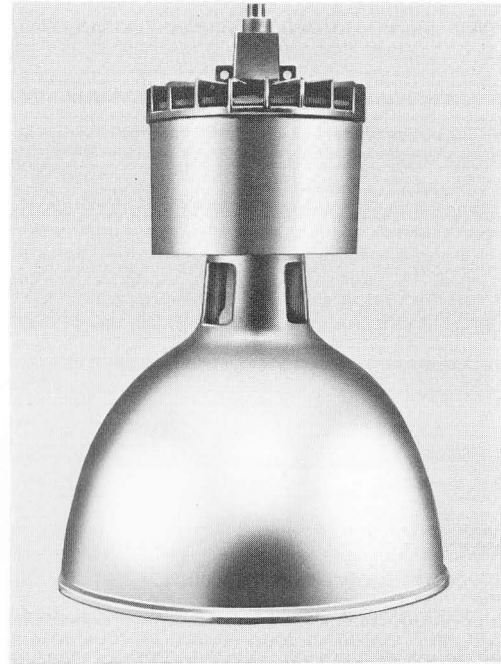
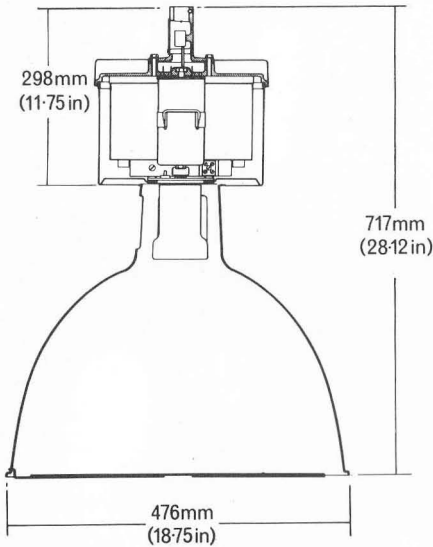
HBX SG250 and SG400 fitting

This new fitting has been designed for use in installations where mounting heights between 20ft and 50ft are available and is suitable for use in practically all types of industry. It is particularly recommended for new installations or for replacing existing tungsten fittings where higher illumination values with reduced maintenance are required.

The fitting incorporates switchless start control gear to operate 250W or 400W SON lamps on 240V 50Hz. The fitting is easily installed via a 1 in. diameter conduit entry, on the top of the fitting, into a separate

wiring box to facilitate wiring to the mains without dismantling the fitting.

A reflector in anodised aluminium is provided to give a BZ1 high efficiency downward light output, slots are provided at the top of the reflector to provide a small proportion of upward light to prevent a 'tunnel' effect and also to allow a flow of air over the lamp and reflecting surfaces which helps to reduce maintenance. A protecting wire guard is available as an optional extra. (Cat. No. HB.4601.)



HBX/SG400

RANGE

Complete fitting

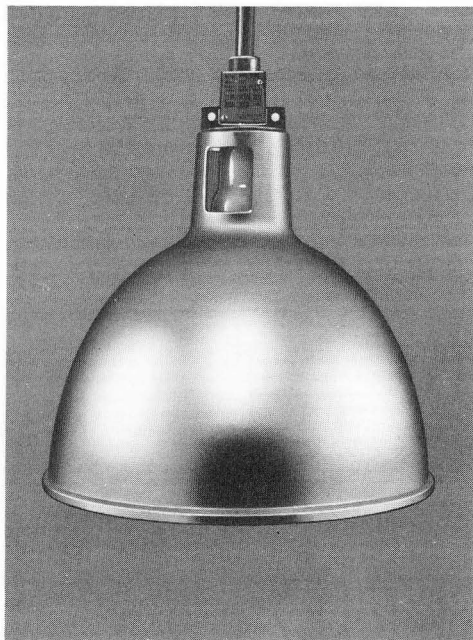
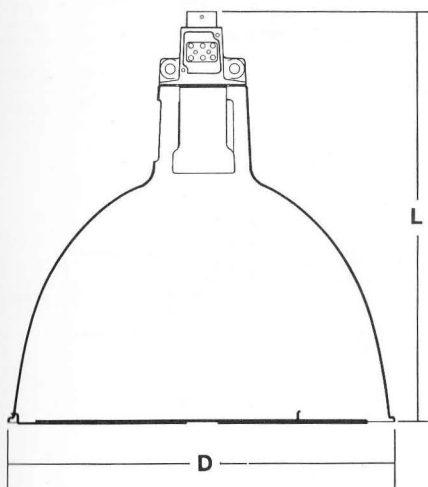
Rating	Lamp type	Cat. no.	Components Control gear housing incl. gear Cat. no.	Reflector Cat. no.	Optional Wire Guard Cat. no.	approx. Weighting lamp lb	kg
250W	SON	HBX/SG250	HBSG250	HBX400	HB4601	30	13.6
400W	SON	HBX/SG400	HBSG400	HBX400	HB4601	34	15.4

HBT/X250-1000 fittings

These fittings have been designed for use in installations where mounting heights of 15ft and over are required. They are suitable for use in practically all types of industry and are particularly recommended for new installations or for replacing existing tungsten fittings where higher illumination values with reduced maintenance is required. The fitting is easily installed by means of a 1 in. diameter conduit entry on top.

A reflector in anodised aluminium is provided to give a

BZ1 high efficiency downward light output, slots are provided at the top of the reflector to allow a flow of air over the lamp and reflecting surfaces which helps to reduce maintenance. A protecting wire guard is available for both versions of reflector (Cat. No. HB.4601 for HBX400 reflector, Cat. No. HB.4602 for HBX1000 reflector). Remotely mounted gear is required for this fitting.



HBT/X400

RANGE AND DIMENSIONS

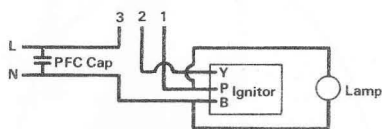
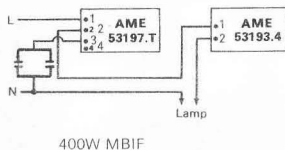
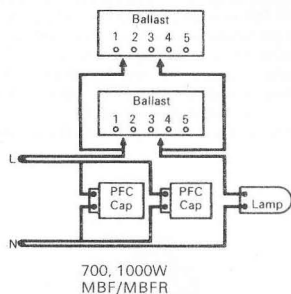
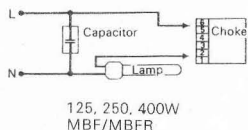
Complete fitting

Rating	Lamp type	Cat. No.	D		L		Weight inc. lamp	
			in.	mm.	in.	mm	lb.	kg.
250W	MBF	HBT/X250*	18.75	476	19.88	505	5.04	2.27
400W	MBF or MBIF	HBT/X400*	18.75	476	19.88	505	5.25	2.38
700W	MBF	HBT/X700†	27.6	700	29.75	756	8.15	3.70
1000W	MBF or MBI	HBT/X1000†	27.6	700	29.75	756	9.25	4.2

*This fitting may also be used with 300, 500, 750, 1000W G.L.S. lamps

†This fitting may also be used with 500, 750, 1500W G.L.S. lamps.

Replacements for High-Bay fittings



The items shown in the table below are replacements for the industrial Discharge-lamp fittings with integral gear shown on pages 3:3, 3:4, 3:5, 3:7, 3:8, 3:9 and 3:10. Full details of each item are shown on the control gear section (section 10) of this catalogue.

REPLACEMENT ITEMS FOR INDUSTRIAL DISCHARGE FITTINGS WITH INTEGRAL GEAR

Description	125 watt MBF	250 watt MBF/MBFR	400 watt MBF/MBFR	700 watt MBF/MBFR	1000 watt MBF/MBFR	400 watt MBIF	250 watt SON	400 watt SON
Skirted lampholder	AMEL1113	AMEL1094	AMEL1094	AMEL1094	AMEL1094	AMEL1094	AMEL1094	AMEL1094
3-way terminal block	AMET1281/3	AMET1306	AMET1306	AMET1306	AMET1306	AMET1306	AMET1306	AMET1306
2-way terminal block	—	—	—	AMET1297	AMET1297	AMET1297	AMET1297	AMET1297
Ballasts	AME53186.4	AME53198.4	AME53193.4	AME53157.T AME53158.T	2xAME53164.4	AME53193.4 AME53917.T *AME53193.T	AME53251.T	AME53230.T
Capacitors	AMEC2222	AMEC2216	AMEC2218	AMEC2214 AMEC2218	2xAMEC2236	2xAMEC2278	2xAMEC2216	2xAMEC2218
Ignitor	—	—	—	—	—	*AME53262	AME53262	AME53262

* This circuit was recently introduced and care should be taken to order correct components