



Turn the ErP legislation into your advantage

Upgrade to efficient HID Lamps to save energy and money

PHILIPS
sense and simplicity



Upgrade your lamps to save energy and money

Faced with potentially catastrophic climate change, governments around the world have introduced legislation to help meet targets for reducing CO₂ consumption and carbon emissions. Energy efficient lighting plays a significant role in this. To speed up the switch to 'green lighting', the EU has initiated decisive energy efficiency measures such as the ErP regulation. By the year 2017 the European Union will have gradually removed inefficient light sources from the market according to a phase-out schedule specified in this regulation.

Switch now to efficient Philips HID lamps and take advantage of this new legislation by saving both energy and money.

Reducing CO₂ by 20%

The ErP - Energy related Product - legislation (Commission Regulation (EC) No 245/2009) aims at reducing the environmental impact of Energy using Products. The focus of the implementing measures is to set minimum energy efficiency requirements, thus automatically phasing out the products that do not meet these requirements.

Affected HID lamps

HID lamps subject to the ErP legislation are those with E27, E40 and PGZ12 bases (exemptions include directional light sources, reflectors, non white lights – excluding HPS, lamps for non general purpose lighting, and UV sources). Non compliant lamps will not be able to bear the CE marking.

Phasing out

A number of popular lighting types will have to be phased out by 2017 including selected 'standard' high-pressure sodium (including retrofit), high-pressure mercury, and standard performance metal halide. Products will not be available on the market in EU27 countries as well as Norway and Switzerland: only stock already in the distribution channel may continue to be sold. Phasing out will happen in various stages starting 13th April 2012 (tertiary – street lighting sector).

Phasing out – the key stages for Philips HID lamps

Stage 1, April 13th 2010

The first stage did not have specific performance related requirements for HID lamps, only performance ratings needed to be published on the internet.

Stage 2, April 13th 2012

Low efficiency HPS Lamps (SON) will be phased out according to the defined efficiency levels

Intermediate stage, April 13th 2015

High pressure Mercury (HPL) and Mercury retrofit HPS lamps (SON-H) will be phased out according to the defined efficiency levels

Stage 3, April 13th 2017

Quartz Metal Halide with wattages of 405 or below and standard Ceramic Metal Halide lamps will be phased out according to the defined efficiency levels

Timetable for discontinuation of inefficient high-pressure discharge lamps

Milestones	April 2010	April 2012	April 2015	April 2017
Inefficient High Pressure Sodium (HPS Standard) lamps	Permitted	Phasing out of inefficient HPS Standard Lamps: SON E > 70W* & SON-T : 70 - 400W		
Plug-in HPS lamps on HPM gear	Permitted		Phasing out of all plug-in HPS Lamps on HPM Gear: SON-H: 68/110/220/350W	
High Pressure Mercury (HPM) lamps	Permitted		Phasing out of all HPM Lamps : ML, HPL & HPL4	
Metal Halide Lamps (MHL)		Phasing out of inefficient Metal Halide vapour lamps: No Philips lamps impacted		
	Permitted			Possibly Phasing out of all inefficient and low Specified MHL Lamps: HPI 250-400W Subject to review by EC in 2014

* Excluding : SON E : 50/70W & SON I : 50/70W Coated types

Permitted Discontinuation Possible discontinuation

Switch to efficient alternatives

Philips offers a full range of efficient and cost-effective HID lamps that replace out-legislated lamps for both street and industry lighting

We offer two simple ways to make sure that your lighting is compliant to the ErP legislation. The first possibility is to simply upgrade your current lamps to more efficient alternatives. The second possibility is to completely renovate the current lighting installation and to upgrade to a better solution.

Direct Retrofit (Up-Lamping)

Yellow Light:

1. SON (T) APIA Plus Xtra (Long Life): Most efficient and long lasting.

MASTER SON (T) APIA (APIA = Active Philips Integrated Antenna) technology established the new market standard of high efficiency long life high-pressure sodium lamps resulting into long service life of 6 years with extended lifetime reliability and lumen maintenance.

2. SON (T) APIA Plus Hg Free: Sustainable, efficient and reliable

Based on APIA technology, this lamp offers a long service lifetime of 5 years and is completely free from mercury. asimpleswitch.com



3. MASTER SON (T) PIA Plus: Efficient and reliable

SON (T) PIA lamps have successful track record of proven quality and reliability for more than 15 yrs in street lighting. It offers long service life of 4 years and high lifetime reliability and lumen maintenance.

White Light:

4. CDO Plus: Cosy white, easy switch

The advanced technology of Philips MASTER City White (CDO Plus) Ceramic Metal Halide lighting range meets the high standards of modern urban lighting. It offers unbeatable reliability, efficiency and performance as a compact light source, providing bright, white light. Our CDO Plus range has a long and reliable service life and can easily be retrofitted into existing High Pressure Sodium luminaires with a one to one lamp replacement. It's ideal for safe and secure lighting for all outdoor spaces.

Renovation through new installation

5. MASTER Cosmo White Xtra! – Highly efficient, long lasting White Light Solution

Highly efficient attractive white light offering highest system and optical efficacy, and an extra long reliable lifetime of up to 6 years! Moreover, it allows for the lowest Total Cost of Ownership thanks to the highest energy savings and low maintenance costs. The new electronic gear (Xtreme) platform including dimming options which allows for even extra energy and CO₂ reductions. The Xtreme driver offers 80,000 hours of lifetime, integrated lightning protection and number of control options such as DynaDimmer, LumiStep, LineSwitch & DALI.



Direct Retrofit (Uplamping)

Yellow Light:

1. SON (T) APIA Plus Xtra
2. SON (T) APIA Plus Hg Free
3. SON (T) PIA Plus

White Light:

4. CDO Plus

Renovation through new installation

5. To new Cosmopolis Luminaire



The range of Philips alternatives

SON Standard: SON (Ovoid) & SON - T

Phase out

Alternatives

SON / SON-T Standard

70W* – only T types

100W

150W

250W

400W

*50W & 70W Ovoid, coated lamps (including “I” types) will stay in the portfolio

Long life

SON (T) APIA Plus Xtra

70W, 100W, 150W, 250W, 400W

Benefit/value

Fully retrofit (1:1 replacement)

Extended Service lifetime: 6 years

Higher lumen output –up to 15%

Extended Lifetime Reliability & Lumen Maintenance

Ecological

SON (T) APIA Plus Hg Free

70W, 100W, 150W, 250W, 400W

Benefit/value

Fully retrofit (1: 1 replacement)

Long Service Lifetime: 5 years

Mercury Free Range

Higher lumen output –up to 15%

Higher Lifetime Reliability & Lumen Maintenance

Efficiency and reliability

SON (T) PIA Plus

70W, 100W, 150W, 250W, 400W

Benefit/ Value

Fully retrofit (1: 1 replacement)

Service Lifetime: 4 years

Higher lumen output – up to 15%

High Lifetime Reliability & Lumen Maintenance

White light

CDO ET/TT Plus

70W, 100W, 150W, 250W

Benefit/ Value

High quality white light

Fully retrofit (1:1 replacement)

Dimmable

Higher lumen output /efficacy

Improved lumen maintenance

White light

CosmoWhite CPO-TW Xtra*

45W,*60W,*90W*,140W, 210W,315W

Benefit/ Value

Highest Efficient White Light

Extra energy reduction

Long Life up to 6 years

Improved lumen maintenance

Dimmable

Discontinuation

Direct retrofit (uplamping)

New Installation



Product alternatives (1)

Phase out		Alternatives					
Ordering no.	Product description	Ordering no.	Alternative 1:	Ordering no.	Alternative 2:	Ordering no.	Alternative 3:
8711500		8727900	SON (-T) APIA Plus Xtra	8727900	SON (-T) APIA Plus Hg Free	8711500	SON (-T) PIA Plus
		Benefits/Value : <ul style="list-style-type: none">Fully retrofit (1:1 replacement)Extended service Lifetime: 6 yearsHigher lumen output – up to 15%Extended Lifetime Reliability & Lumen Maintainence		Benefits/Value : <ul style="list-style-type: none">Fully retrofit (1:1 replacement)Long service Lifetime: 5 yearsMercury Free RangeHigher lumen output –up to 15%Higher Lifetime Reliability & Lumen Maintainence		Benefits/Value : <ul style="list-style-type: none">Fully retrofit (1:1 replacement)Service Lifetime: 4 yearsHigher lumen output –up to 15%High Lifetime reliability & Lumen maintainence	
20239015	SON 100W/220W E40	92743600	MASTER SON APIA Plus Xtra 100W E40	-	-	18225815	MASTER SON PIA Plus 100W/220W E40
18201215	SON 150W/220W E40	92745000	MASTER SON APIA Plus Xtra 150W E40	879650 00	MASTER SON APIA Plus Hg Free 150W E40	18228915	MASTER SON PIA Plus 150W/220W E40
18204315	SON 250W/220W E40	92773300	MASTER SON APIA Plus Xtra 250W E40	879711 00	MASTER SON APIA Plus Hg Free 250W E40	19344515	MASTER SON PIA Plus 250W/220W E40
18198515	SON 400W/220W E40	92767200	MASTER SON APIA Plus Xtra 400W E40	880298 00	MASTER SON APIA Plus Hg Free 400W E40	19345215	MASTER SON PIA Plus 400W/220W E40
19267715	SON-T 70W/220W E27	92290500	MASTER SON-T APIA Plus Xtra 70W E27	912524 00	MASTER SON T APIA Plus Hg Free 70W E27	19266015	MASTER SON-T PIA Plus 70W/220W E27
20241315	SON-T 100W/220W E40	92323000	MASTER SON-T APIA Plus Xtra 100W E40	880755 00	MASTER SON T APIA Plus Hg Free 100W E40	19230115	MASTER SON-T PIA Plus 100W/220W E40
19227115	SON-T 150W/220W E40	92733700	MASTER SON-T APIA Plus Xtra 150W E40	885101 00	MASTER SON T APIA Plus Hg Free 150W E40	19229515	MASTER SON-T PIA Plus 150W/220W E40
17983815	SON-T 250W/220W E40	92737500	MASTER SON-T APIA Plus Xtra 250W E40	885125 00	MASTER SON T APIA Plus Hg Free 250W E40	17987615	MASTER SON-T PIA Plus 250W E E40
17984515	SON-T 400W/220W E40	92741200	MASTER SON-T APIA Plus Xtra 400W E40	885149 00	Master SON T APIA Plus Hg Free 400W E40	17988315	MASTER SON-T PIA Plus 400W E E40

Product alternatives (2)

Phase out		Alternatives		
Ordering no.	Product description	Ordering no.	Alternative 4:	Alternative 5:
8711500		8718291	"CDO-TT /-ET Plus"	MASTER Cosmo White
		Benefits/Value : <ul style="list-style-type: none">High quality white lightFully retrofit (1:1 replacement)DimmableHigher lumen output /efficacyImproved lumen maintenance		Benefits/Value : <ul style="list-style-type: none">Highest Efficient White LightExtra energy reductionLong Life up to 6 yearsImproved lumen maintenanceDimmable
20239015	SON 100W/220W E40	15877600	MASTER CityWh CDO-ET Plus 100W/828 E40	CosmoWhite CPO-TW Xtra 60 or 90W
18201215	SON 150W/220W E40	15881300	MASTER CityWh CDO-ET Plus 150W/828 E40	CosmoWhite CPO-TW Xtra 90W or 140W
18204315	SON 250W/220W E40	-	-	CosmoWhite CPO-TW 140W or 210W
18198515	SON 400W/220W E40	-	-	CosmoWhite CPO-TW 210W or 315W
19267715	SON-T 70W/220W E27	12030800	MASTER CityWh CDO-TT Plus 70W/828 E27	CosmoWhite CPO-TW Xtra 45W or 60W
20241315	SON-T 100W/220W E40	12032200	MASTER CityWh CDO-TT Plus 100W/828 E40	CosmoWhite CPO-TW Xtra 60W or 90W
19227115	SON-T 150W/220W E40	12034600	MASTER CityWh CDO-TT Plus 150W/828 E40	CosmoWhite CPO-TW Xtra 90W or 140W
17983815	SON-T 250W/220W E40	12197800	MASTER CityWh CDO-TT Plus 250W/830 E40	CosmoWhite CPO-TW 140W or 210W
17984515	SON-T 400W/220W E40	-	-	CosmoWhite CPO-TW 210W or 315W

Discontinuation Direct retrofit (uplamping) New Installation

For more information, please contact

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Printed in The Netherlands.
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