



# Decorative spiral energy-saving lamp with trusted quality

## Eco Twister

This small, compact spiral lamp offers a lifetime of up to 6000 hours. The family includes products from 8 to 23 W, allowing easy replacement of most GLS lamps from 30 to 100 W.

### Benefits

- More than 80% energy saving compared with incandescent lamps of similar light output
- Average lifetime up to 6 times longer than an incandescent lamp
- The lamp's decorative spiral look means it can be used in applications where it is directly visible

### Features

- Spiral-shaped alternative to incandescent lamps
- Better light distribution than with common 'stick' CFLi lamps
- Low mercury content
- Smaller size with greater brightness

### Application

- Widely used to replace incandescent light bulbs in all kinds of general lighting applications
- Not suitable for dimming or for electronic devices

# Eco Twister

## Warnings and Safety

- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste: they must be taken to your local waste facilities for recycling. The European lighting industry has set up an infrastructure capable of recycling mercury, other metals, glass, etc.

## Versions



8 W E27



12 W E27



15 W E27

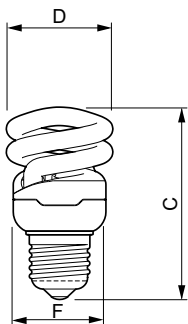


20 W E27



23 W E27

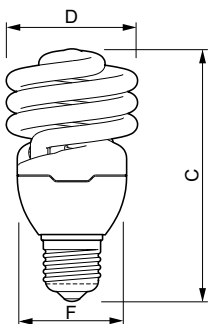
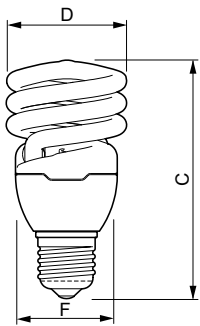
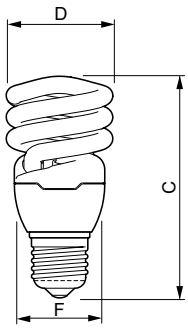
## Dimensional drawing



Product	D (max)	C (max)	F (max)
ECO Twister 8W CDL E27 110-127V 1PF/12	46 mm	81.5 mm	40 mm

# Eco Twister

## Dimensional drawing



Product	D (max)	C (max)	F (max)
ECO Twister 12W WW E27 110-127V 1PF/12	46 mm	91 mm	40 mm
ECO Twister 12W CDL E27110-127V 1PF/12	46 mm	91 mm	40 mm
ECO Twister 12W WW E27 220-240V 1PF/12	46 mm	91 mm	40 mm
ECO Twister 12W CDL E27 220-240V 1PF/12	46 mm	91 mm	40 mm

Product	D (max)	C (max)	F (max)
ECO Twister 15W WW E27 110-127V 1PF/12	50 mm	104.5 mm	42 mm
ECO Twister 15W CDL E27 110-127V 1PF/12	50 mm	104.5 mm	42 mm
ECO Twister 15W WW E27 220-240V 1PF/12	50 mm	104.5 mm	42 mm
ECO Twister 15W CDL E27 220-240V 1PF/12	50 mm	104.5 mm	42 mm

Product	D (max)	C (max)	F (max)
ECO Twister 20W WW E27 110-127V 1PF/12	55 mm	108.5 mm	46.5 mm
ECO Twister 20W CDL E27 110-127V 1PF/12	55 mm	108.5 mm	46.5 mm
ECO Twister 20W WW E27 220-240V 1PF/12	55 mm	108.5 mm	46.5 mm
ECO Twister 20W CDL E27 220-240V 1PF/12	55 mm	108.5 mm	46.5 mm

Product	D (max)	C (max)	F (max)
ECO Twister 23W WW E27 110-127V 1PF/12	60.0 mm	115.5 mm	50 mm
ECO Twister 23W CDL E27 110-127V 1PF/12	60.0 mm	115.5 mm	50 mm
ECO Twister 23W WW E27 220-240V 1PF/12	60.0 mm	115.5 mm	50 mm
ECO Twister 23W CDL E27 220-240V 1PF/12	60.0 mm	115.5 mm	50 mm

## Approval and Application

Energy Saving Product	Yes
Energy Efficiency Label (EEL)	A
<b>Controls and Dimming</b>	
Dimmable	No
<b>Operating and Electrical</b>	
Input Frequency	50 or 60 Hz
Starting Time (Nom)	0.3 s
Warm Up Time To 60% Light (Max)	40 s
Warm Up Time To 60% Light (Min)	5 s
<b>General Information</b>	
Cap-Base	E27
Nominal Lifetime (Nom)	6000 h
Rated Lifetime (Hours)	6000 h
Switching Cycle	4000X
<b>Light Technical</b>	
Color Rendering Index (Nom)	77
Llmf At End Of Nominal Lifetime (Nom)	70 %
Lumen Maintenance 2000 h (Nom)	80 %
<b>Mechanical and Housing</b>	
Bulb Shape	Spiral

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)
929689000801	ECO Twister 8W CDL E27 110-127V 1PF/12	8 kWh	2 mg
929689000901	ECO Twister 12W WW E27 110-127V 1PF/12	12 kWh	2 mg
929689001001	ECO Twister 12W CDL E27110-127V 1PF/12	12 kWh	2 mg
929689208601	ECO Twister 12W WW E27 220-240V 1PF/12	12 kWh	2 mg
929689208701	ECO Twister 12W CDL E27 220-240V 1PF/12	12 kWh	2 mg
929689001101	ECO Twister 15W WW E27 110-127V 1PF/12	15 kWh	2 mg
929689001201	ECO Twister 15W CDL E27 110-127V 1PF/12	15 kWh	2 mg
929689208801	ECO Twister 15W WW E27 220-240V 1PF/12	15 kWh	2 mg
929689208901	ECO Twister 15W CDL E27 220-240V 1PF/12	15 kWh	2 mg
929689001301	ECO Twister 20W WW E27 110-127V 1PF/12	20 kWh	2 mg
929689001401	ECO Twister 20W CDL E27 110-127V 1PF/12	20 kWh	2 mg
929689209001	ECO Twister 20W WW E27 220-240V 1PF/12	20 kWh	2 mg
929689209101	ECO Twister 20W CDL E27 220-240V 1PF/12	20 kWh	2 mg
929689001501	ECO Twister 23W WW E27 110-127V 1PF/12	23 kWh	2.5 mg
929689001601	ECO Twister 23W CDL E27 110-127V 1PF/12	23 kWh	2.5 mg
929689209201	ECO Twister 23W WW E27 220-240V 1PF/12	23 kWh	2.5 mg
929689209301	ECO Twister 23W CDL E27 220-240V 1PF/12	23 kWh	2.5 mg

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Nom)	Power (Rated) (Nom)
929689000801	ECO Twister 8W CDL E27 110-127V 1PF/12	110 mA	110-127 V	8 W
929689000901	ECO Twister 12W WW E27 110-127V 1PF/12	160 mA	110-127 V	12 W
929689001001	ECO Twister 12W CDL E27110-127V 1PF/12	160 mA	110-127 V	12 W
929689208601	ECO Twister 12W WW E27 220-240V 1PF/12	90 mA	220-240 V	12 W
929689208701	ECO Twister 12W CDL E27 220-240V 1PF/12	90 mA	220-240 V	12 W
929689001101	ECO Twister 15W WW E27 110-127V 1PF/12	210 mA	110-127 V	15 W
929689001201	ECO Twister 15W CDL E27 110-127V 1PF/12	210 mA	110-127 V	15 W
929689208801	ECO Twister 15W WW E27 220-240V 1PF/12	110 mA	220-240 V	15 W
929689208901	ECO Twister 15W CDL E27 220-240V 1PF/12	110 mA	220-240 V	15 W

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Nom)	Power (Rated) (Nom)
929689001301	ECO Twister 20W WW E27 110-127V 1PF/12	270 mA	110-127 V	20 W
929689001401	ECO Twister 20W CDL E27 110-127V 1PF/12	270 mA	110-127 V	20 W
929689209001	ECO Twister 20W WW E27 220-240V 1PF/12	150 mA	220-240 V	20 W
929689209101	ECO Twister 20W CDL E27 220-240V 1PF/12	150 mA	220-240 V	20 W
929689001501	ECO Twister 23W WW E27 110-127V 1PF/12	320 mA	110-127 V	23 W
929689001601	ECO Twister 23W CDL E27 110-127V 1PF/12	320 mA	110-127 V	23 W
929689209201	ECO Twister 23W WW E27 220-240V 1PF/12	170 mA	220-240 V	23 W
929689209301	ECO Twister 23W CDL E27 220-240V 1PF/12	170 mA	220-240 V	23 W

## Light Technical (1/2)

# Eco Twister

Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
929689000801	ECO Twister 8W CDL E27 110-127V 1PF/12	313	337	865	Cool Daylight
929689000901	ECO Twister 12W WW E27 110-127V 1PF/12	463	420	827	Warm White (WW)
929689001001	ECO Twister 12W CDL E27 110-127V 1PF/12	313	337	865	Cool Daylight
929689208601	ECO Twister 12W WW E27 220-240V 1PF/12	463	420	827	Warm White (WW)
929689208701	ECO Twister 12W CDL E27 220-240V 1PF/12	313	337	865	Cool Daylight
929689001101	ECO Twister 15W WW E27 110-127 1PF/12	463	420	827	Warm White (WW)
929689001201	ECO Twister 15W CDL E27 110-127V 1PF/12	313	337	865	Cool Daylight
929689208801	ECO Twister 15W WW E27 220-240V 1PF/12	463	420	827	Warm White (WW)
929689208901	ECO Twister 15W CDL E27 220-240V 1PF/12	313	337	865	Cool Daylight

Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
929689001301	ECO Twister 20W WW E27 110-127V 1PF/12	463	420	827	Warm White (WW)
929689001401	ECO Twister 20W CDL E27 110-127V 1PF/12	313	337	865	Cool Daylight
929689209001	ECO Twister 20W WW E27 220-240V 1PF/12	463	420	827	Warm White (WW)
929689209101	ECO Twister 20W CDL E27 220-240V 1PF/12	313	337	865	Cool Daylight
929689001501	ECO Twister 23W WW E27 110-127V 1PF/12	463	420	827	Warm White (WW)
929689001601	ECO Twister 23W CDL E27 110-127V 1PF/12	313	337	865	Cool Daylight
929689209201	ECO Twister 23W WW E27 220-240V 1PF/12	463	420	827	Warm White (WW)
929689209301	ECO Twister 23W CDL E27 220-240V 1PF/12	313	337	865	Cool Daylight

## Light Technical (2/2)

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
		929689000801	ECO Twister 8W CDL E27 110-127V 1PF/12	6500 K	53 lm/W
929689000901	ECO Twister 12W WW E27 110-127V 1PF/12	2700 K	55 lm/W	665 lm	665 lm
929689001001	ECO Twister 12W CDL E27 110-127V 1PF/12	6500 K	55 lm/W	665 lm	665 lm
929689208601	ECO Twister 12W WW E27 220-240V 1PF/12	2700 K	55 lm/W	665 lm	665 lm
929689208701	ECO Twister 12W CDL E27	6500 K	55 lm/W	665 lm	665 lm

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
		929689001101	ECO Twister 15W WW E27 110-127 1PF/12	2700 K	56 lm/W
929689001201	ECO Twister 15W CDL E27 110-127V 1PF/12	6500 K	56 lm/W	840 lm	840 lm
929689208801	ECO Twister 15W WW E27 220-240V 1PF/12	2700 K	57 lm/W	855 lm	855 lm
929689208901	ECO Twister 15W CDL E27 220-240V 1PF/12	6500 K	57 lm/W	855 lm	855 lm

## Eco Twister

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)	Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
929689001301	ECO Twister 20W WW E27 110-127V 1PF/12	2700 K	59 lm/W	1180 lm	1180 lm	929689001501	ECO Twister 23W WW E27 110-127V 1PF/12	2700 K	60 lm/W	1380 lm	1380 lm
929689001401	ECO Twister 20W CDL E27 110-127V 1PF/12	6500 K	59 lm/W	1180 lm	1180 lm	929689001601	ECO Twister 23W CDL E27 110-127V 1PF/12	6500 K	60 lm/W	1380 lm	1380 lm
929689209001	ECO Twister 20W WW E27 220-240V 1PF/12	2700 K	60 lm/W	1200 lm	1200 lm	929689209201	ECO Twister 23W WW E27 220-240V 1PF/12	2700 K	60 lm/W	1380 lm	1380 lm
929689209101	ECO Twister 20W CDL E27 220-240V 1PF/12	6500 K	59 lm/W	1180 lm	1180 lm	929689209301	ECO Twister 23W CDL E27 220-240V 1PF/12	6500 K	60 lm/W	1380 lm	1380 lm

