

Energy Saving Lamps





Ulrich Scheller  
Export Manager

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- **DUPROLUX**® Lighting
- Metering
- Power Distribution
- Climatisation
- Renewable Energy

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Export Manager

# Merkur Energy Saving Lamps

## CLE

- U-shaped tubular with 1U - 2U - 3U fluorescent media
- Finish:
- Electronic Ballast (built in)
- Cap / Socket
- E 14 / E 27, 220 - 240 V
- Finish 130 V and
- Cap B 22d upon request



Type	Rated Wattage (W)	Light Colour	Luminous Flux (lm)	Energy Efficiency	Dimensions d mm 1 mm	Socket Type/U-Shape	Box Qty piece(s)	Art No.
CLE 5W/860	5	daylight	200	A	45 135	E14/1U	24	11150523...
CLE 5W/827	5	warmwhite comfort	200	A	45 135	E14/1U	24	11150523...
CLE 7W/860	7	daylight	300	A	45 125	E14/2U	24	11150623...
CLE 7W/827	7	warmwhite comfort	300	A	45 125	E14/2U	24	11150623...
CLE 9W/860	9	daylight	400	B	45 145	E27/2U	24	11150723...
CLE 9W/827	9	warmwhite comfort	400	B	45 145	E27/2U	24	11150723...
CLE 11W/860	11	daylight	570	A	45 155	E27/2U	24	11150923...
CLE 11W/827	11	warmwhite comfort	600	A	45 155	E27/2U	24	11150923...
CLE 15W/860	15	daylight	850	A	45 180	E27/2U	24	11151223
CLE 15W/827	15	warmwhite comfort	900	A	45 180	E27/2U	24	11151223...
CLE 15W/860	15	daylight	850	A	45 140	E27/3U	24	11156023...
CLE 15W/827	15	warmwhite comfort	900	A	45 140	E27/3U	24	11156023...
CLE 20W/860	20	daylight	1160	A	55 155	E27/3U	24	11151423...
CLE 20W/827	20	warmwhite comfort	1200	A	55 155	E27/3U	24	11151423...
CLE 23W/860	23	daylight	1450	A	45 170	E27/3U	24	11151523...
CLE 23W/827	23	warmwhite comfort	1500	A	45 170	E27/3U	24	11151523...

- Type 860 "daylight" light temperature 6500 k - Type 827 „warmwhite comfort“ light temperature 2700 k

# Merkur GREEN ECO



## Merkur - Green Eco

- Type ECL 3U 20 Watts ■ other wattages on request
- Compact fluorescent energy saving lamps
- Amalgam Technology
- Eco friendly
- No liquid mercury
- CE RoHS

### Features

- T4 high brightness amalgam fluorescent tubes
- Eco-friendly with no liquid mercury
- Amalgam Technology = Mercury alloy with other metals. It is a solid form alloy under room temperature
- 15% brighter than normal energy saving lamps
- Long operation life (up to 10,000 hours)
- Maintain constant light output over various temperatures
- Wide operating voltage range (160 – 260 V AC)
- Available in colour temp. 2700K or 6400K (or on req.)
- Colour rendering index >82

### Benefits

- More light output per watt
- Lower energy cost and CO2 emission
- Eco-friendly, no liquid mercury

### Specifications

- Light Source: 3U T4 amalgam fluorescent tubes
- Power Factor : >0,90
- Light Output : >60 lm/W, total 1260 lumens
- Colour Rendering Index (CRI) : >82
- Lamp base : E27 or B22
- Operating Temperature : -10 to +40°
- Weight : 120 grams

## Compact Fluorescent Energy Saving Lamps Amalgam Technology

### Merkur - Green Eco

- Half spiral
- Full spiral
- Bulb
- Candle
- Compact fluorescent energy saving lamps
- Amalgam Technology
- Eco friendly
- No liquid mercury
- CE

### Features

- T2 high brightness amalgam fluorescent using thin tubes
- Eco-friendly with no liquid mercury
- Amalgam Technology = Mercury alloy with other metals. It is a solid form alloy under room temperature
- 15% brighter than normal energy saving lamps
- Long operation life (up to 10,000 hours)
- Maintain constant light output over various temperatures
- Wide operating voltage range 170 – 250V AC (110V on req.)
- Colour temperatures Half/Full Spiral 2700K, 4100K, 6400K
- Colour temperatures Bulb/Candle 2700K – others on request
- Colour rendering index > 80

### Benefits

- More light output per watt
- Lower energy cost and CO2 emission
- Eco-friendly, no liquid mercury

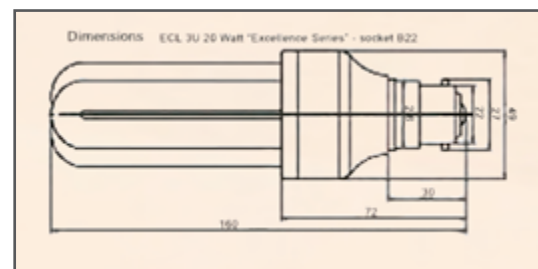
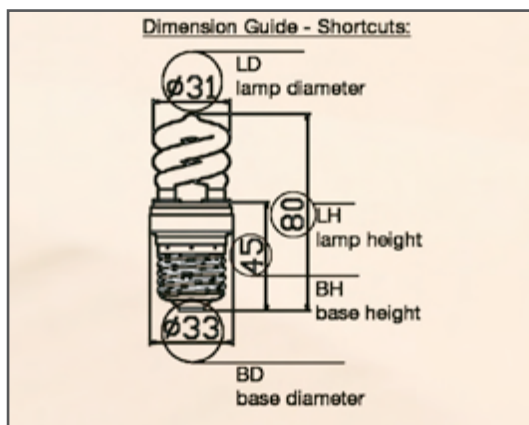
### Specifications

- Light Source : T2 amalgam fluorescent tubes
- Power factor: 0,6
- Colour Rendering Index (CRI) : >80
- Lamp base : E27 or E14 – solderless type
- Operating Temperature : -30° to +40° C
- RoHS compliance optional – on request
- Dimensions – refer drawings and table details

# Merkur Energy Saving Lamps

## Merkur GREEN ECO

- No Liquid Mercury
- Amalgam technology
- Compact Fluorescent
- Energy Saving Lamps
- Half Spiral / Full Spiral
- Glass Bulb and Candle Type and 3U 20W (other W on request)
- Finish:
- Electronic Ballast (built in)
- Caps / Socket E27, E14 / B22
- Voltage 230V / 170 - 250 V
- Frequency 50/60 Hz



# Mercur GREEN ECO

Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Dimensions LxLDxBHxBD mm	Tube Diameter mm	Box Qty piece(s)/ctn	Packing Carton Dimensions cm	Carton Grossweight kgs
Half Spiral								
CHS-AM 6W	6	390	E27/E14	80x31x45x33	6	50	50x26x14,5	3,50
CHS-AM 8W	8	520	E27/E14	90x31x45x33	6	50	50x26x14,5	3,50
CHS-AM 10W	10	650	E27/E14	90x45x50x40	7	50	50x26x14,5	4,00
CHS-AM 12W	12	780	E27/E14	100x45x50x40	7	50	50x26x14,5	4,00
CHS-AM 18W	18	1170	E27	120x55x75x55	7	30	48x41x17,5	6,20
CHS-AM 22W	22	1430	E27	125x60x75x55	7	30	48x41x17,5	6,20
Full Spiral								
CFS-AM 5W	5	325	E27/E14	85x27x45x33	6	50	50x26x14,5	3,50
CFS-AM 7W	7	455	E27/E14	90x27x45x33	6	50	50x26x14,5	3,50
CFS-AM 9W	9	585	E27/E14	92x27x45x33	6	50	50x26x14,5	3,50
CFS-AM 11W	11	715	E27	90x45x52x50	7	50	50x26x14,5	4,00
CFS-AM 13W	13	845	E27	95x45x52x50	7	50	50x26x14,5	4,00
Glass Bulb	Bulb CIL and Candle CCL		LHxLDxBH					
CIL-AM 6W	6	360	E27/E14	82x50x39	6	50	54,5x28,5x11,5	1,20
CIM-AM 9W	9	540	E27/E14	103x55x39	6	50	60,5x31x14,5	1,60
CIM-AM 12W	12	620	E27/E14	115x60x39	6	50	67x34x14	2,10
CIM-AM 14W	14	840	E27/E14	115x60x47	6	50	67x34x14	2,10
CCL-AM 5W	5	320	E14	124x36x40	6	50	43x22,5x13	1,43
CCL-AM 9W	9	540	E27/E14	101x36x40	6	50	43x22,5x13	1,43
3U 20W	other wattages on request		LHxLDxBH					
ECL-AM 3U20W	20	1260	E27/B22	160x49x72	12	50	55x28x22	7

# Compact Electronic Energy Saving Lamps

## Compact Electronic Energy Saving Lamps

### Economy Range Halo Phosphor

- Lifetime up to 3000 hours



Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Single Box Dimensions cm	Tube Diameter mm	Box Qty piece(s)/ctn	Packing Carton Dimensions cm	Carton Gross weight kgs
2U								
ECL 2U 5W	5	180	E14/B22/E27	4,1x4,1x14,7	9	50	44x23x18	4.5
ECL 2U 7W	7	220	E14/B22/E27	4,1x4,1x14,7	9	50	44x23x18	4.5
ECL 2U 9W	9	300	E14/B22/E27	4,3x4,3x18	12	50	47x24,5x21	5.3
ECL 2U 11W	11	350	E14/B22/E27	4,3x4,3x18	12	50	47x24,5x21	5.3
ECL 2U 15W	15	420	E14/B22/E27	4,3x4,3x18	12	30	47x24,5x21	6.0
ECL 2U 18W	18	470	E14/B22/E27	4,3x4,3x18	12	30	47x24,5x21	6.0
3U								
ECL 3U 5W	5	200	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.0
ECL 3U 7W	7	240	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.0
ECL 3U 9W	9	310	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.5
ECL 3U 11W	11	360	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.5
ECL 3U 15W	15	450	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	6.0
ECL 3U 20W	20	676	B22/E27	4,8x4,8x15,5	12	50	50x26x18	6.0
ECL 3U 26W	26	780	B22/E27	4,8x4,8x16,5	12	50	50x26x19	6.0
ECL 3U 32W	32	936	B22/E27	4,8x4,8x17,5	12	50	50x26x20	6.5

# Compact Fluorescent Energy Saving Lamps

## Compact Fluorescent Energy Saving Lamps

### Economy Range

- 2U - ECL 5W to 18W
- 3U - ECL 5W to 32W
- 4U - ECL 32W to 45W
- Half Spiral - CHS 5W to 32W
- Full Spiral - CFS 5W to 32W
- Finish:  
Electronic Ballast (built in)
- Caps / Socket E27, E14 / B22
- Voltage 230V / 170 - 250 V
- Frequency 50/60 Hz



Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Single Box Dimensions cm	Tube Diameter mm	Box Qty piece(s)/ctn	Packing Carton Dimensions cm	Carton Gross weight kgs
<b>2U</b>								
ECL 2U 5W	5	180	E14/B22/E27	4,1x4,1x14,7	9	50	44x23x18	4.5
ECL 2U 7W	7	220	E14/B22/E27	4,1x4,1x14,7	9	50	44x23x18	4.5
ECL 2U 9W	9	300	E14/B22/E27	4,3x4,3x18	12	50	47x24,5x21	5.3
ECL 2U 11W	11	350	E14/B22/E27	4,3x4,3x18	12	50	47x24,5x21	5.3
ECL 2U 15W	15	420	E14/B22/E27	4,3x4,3x18	12	30	47x24,5x21	6.0
ECL 2U 18W	18	470	E14/B22/E27	4,3x4,3x18	12	30	47x24,5x21	6.0
<b>3U</b>								
ECL 3U 5W	5	200	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.0
ECL 3U 7W	7	240	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.0
ECL 3U 9W	9	310	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.5
ECL 3U 11W	11	360	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	5.5
ECL 3U 15W	15	450	B22/E27	4,3x4,3x15,7	9	50	47x24,5x18,5	6.0
ECL 3U 20W	20	676	B22/E27	4,8x4,8x15,5	12	50	50x26x18	6.0
ECL 3U 26W	26	780	B22/E27	4,8x4,8x16,5	12	50	50x26x19	6.0
ECL 3U 32W	32	936	B22/E27	4,8x4,8x17,5	12	50	50x26x20	6.5



# Compact Electronic Energy Saving Lamps

## Compact Electronic Energy Saving Lamps

### Premium Range Tri Phosphor

- Lifetime up to 6000 hours



Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Single Box Dimensions cm	Tube Diameter mm	Box Qty piece(s)/ctn	Packing Carton Dimensions cm	Carton Gross weight kgs
2U								
ECL-P5W 2U	5	225	E14/E27	4x4x14	12	100	49.5x23.5x35	6.8
ECL-P7W 2U	7	315	E14/E27	4x4x14	12	100	49.5x23.5x35	6.8
ECL-P9W 2U	9	450	E14/E27	4x4x14	12	100	49.5x23.5x35	6.8
ECL-P11W 2U	11	550	E14/E27	4x4x14	12	100	49.5x23.5x35	6.8
3U								
ECL-P11W 3U	11	550	E14/E27	4,3x4,3x1,3	9	100	45,5x23x27	6.8
ECL-P15W 3U	15	750	E14/E27	4.8x4.8x17	12	50	55.5x27.5x22	8.5
ECL-P20W 3U	20	1100	E14/E27	4.8x4.8x17	12	50	55.5x27.5x22	8.5
ECL-P25W 3U	25	1375	E14/E27	5.2x5.2x18.5	12	50	59.5x29.5x	9.5
Tubular special effects lamps								
Microwave Anti-Moskito 3U 25W	20	N.A.	B22/E27	4.8x4.8x17	12	50	47x24,5x18,5	8.5
Blacklight 3U 25W	25	N.A.	B22/E27	5.2x5.2x18.5	12	50	50x26x18	9.5
Half spiral								
CHS-P 11W	11	936	E14/E27/B22	4,3x4,3x13	9	100	45,5x23x27	6.8
CHS-P 15W	15	825	E27/B22	4,3x4,3x14	9	100	45,5x23x29	7.2
CHS-P 20W	20	1160	E27/B22	6,0x6,0x17	12	50	63x32x19,5	6
CHS-P 23W	23	1380	E27/B22	6,0x6,0x17	12	50	63x32x19,5	6.5
CHS-P 26W	26	1560	E27/B22	6,0x6,0x17,5	12	50	63x32x20	6.7
CHS-P 32W	32	1920	E27/B22	6,0x6,0x19	12	50	63x32x21,5	7.5
CHS-P 45W	45	2700	E27/B22	8,2x8,2x22	14.5	50	45x35x23,5	4.8
CHS-P 65W	65	3900	E27/B22	8,2x8,2x24	14.5	50	45x35x27	5.7
CHS-P 85W	85	5100	E27/B22	10,3x10,3x28	17	50	54x43x30	6.8
CHS-P 105W	105	6300	E27/B22	10.3x10.3x29.5	17	50	54x43x32	10

# Compact Fluorescent Energy Saving Lamps

## Compact Fluorescent Energy Saving Lamps Premium Range

- 22U - ECL P5W to P18W
- 3U - ECL P11W to P25W
- 3U Blacklight 25W
- Half Spiral  
CHS P11W to P105W
- Full Spiral  
CFS P11W to P32W
- Lotus Type  
CLO P32W to P105W,  
CL-S S9W to S13W  
CL-D D13W to D26W
- Finish:  
Electronic Ballast (built in)
- Caps / Socket E14, E27, B22, G23, G24
- see specifications  
Voltage 230V / 170 - 260 V  
Frequency 50/60 Hz



Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Single Box Dimensions cm	Tube Diameter mm	Box Qty piece(s)/ctn	Packing Carton Dimensions cm	Carton Gross weight kgs
Full Spiral								
CFS-P 11W	11	550	B22/E27	5,0x5,0x11,5	9	100	53x27x25	6.8
CFS-P 15W	15	825	B22/E27	5,0x5,0x12,5	9	100	53x27x29	7.2
CFS-P 20W	20	1160	B22/E27	6,2x6,2x15,5	12	50	68x34x18,5	6.5
CFS-P 23W	23	1380	B22/E27	6,2x6,2x15,5	12	50	68x34x18,5	6.5
CFS-P 26W	26	1560	B22/E27	6,2x6,2x16	12	30	68x34x19	6.7
CFS-P 32W	32	1920	B22/E27	6,2x6,2x17	12	30	68x34x20	7.5
Lotus Type								
CLO-P 32W	32	1760	B22/E27	8,7x8,7x20	12	20	46x37x23	4.8
CLO-P 45W	45	2475	B22/E27	10,8x10,8x24,5	14.5	20	58x46x27	5.7
CLO-P 65W	65	3575	B22/E27	11,3x11,3x26	14.5	20	61x48x29	6.8
CLO-P 85W	85	4675	B22/E27	12,8x12,8x30	17	20	68x54x33	10
CLO-P 105W	105	5775	B22/E27	14,3x14,3x30	17	20	75x61x33	11
CL-S								
CL-S 9W	9	495	G23	3x2x17,5	12	200	37,5x35x24,5	9
CL-S 11W	11	550	G23	3x2x23	12	200	49.5x39x27.5	11
CL-S 13W	13	715	G23	3x2x24.5	12	200	49.5x39x29	12
CL-D								
CL-D 13W	13	715	G24	3.5x3.5x15	12	100	43x39.7x20	8
CL-D 18W	18	990	G24	3.5x3.5x16	12	100	43x39.7x21	8.5
CL-D 26W	26	1430	G24	3.5x3.5x18	12	100	43x39.7x23	9

# Compact Electronic Energy Saving Lamps

## Compact Electronic Energy Saving Lamps

### Excellence Range Tri Phosphor

- Lifetime up to 8000 hours



Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Single Box Dimensions cm	Tube Diameter mm	Box Qty piece(s)/ctn	Packing Carton Dimensions cm	Carton Gross weight kgs
MINI SERIES Half Spiral								
CHS-EX 6W	6	330	E14/E27	80x31x45x33	9	50	44x23x18	4.5
CHS-EX 8W	8	440	E14/E27	90x31x45x33	9	50	44x23x18	4.5
CHS-EX 10W	10	550	E14/E27	90x45x50x40	12	50	47x24,5x21	5.3
CHS-EX 12W	12	660	E14/E27	100x45x50x40	12	50	47x24,5x21	5.3
CHS-EX 18W	18	1000	E27	120x55x75x55	12	30	47x24,5x21	6.0
CHS-EX 22W	22	1300	E27	125x60x75x55	12	30	47x24,5x21	6.0
MINI SERIES Full Spiral								
CFS-EX 5W	5	275	E14/E27	85x27x45x33	9	50	47x24,5x18,5	5.0
CFS-EX 7W	7	385	E14/E27	90x27x45x33	9	50	47x24,5x18,5	5.0
CFS-EX 9W	9	495	E14/E27	92x27x45x33	9	50	47x24,5x18,5	5.5
CFS-EX 11W	11	600	E27	90x45x52x50	9	50	47x24,5x18,5	5.5
CFS-EX 13W	13	720	E27	95x45x52x50	9	50	47x24,5x18,5	6.0

# Compact Fluorescent Energy Saving Lamps

## Compact Fluorescent Energy Saving Lamps Excellence Range

- Mini-Series Half Spiral  
CHS-EX 6W to 22W
- Mini-Series Full Spiral  
CFS-EX 5W to 13W
- Glass Bulbs  
CIL-EX 6W to 14W  
CCL-EX 5W Candle  
CCL-EX 9W Candle
- EFL Tubular Series  
CTL-EX 5W to 27W
- EFL Reflektor Series  
R63 15W  
R80 18W
- Finish:  
Electronic Ballast (built in)  
Caps / Socket E14, E27, B22
- see specifications  
Voltage 230V / 170 - 260 V  
Frequency 50/60 Hz



Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Single Box Dimensions cm	Tube Diameter mm	Box Qty piece(s)/ctn	Packing Carton Dimensions cm	Carton Gross weight kgs
GLASS BULBS				LHxLDxBH				
CIL-EX 6W	6	300	E14/E27	82x50x39	6	50	54,5x28,5x11,5	4
CIL-EX 9W	9	450	E14/E27	103x55x39	6	50	60,5x31x14,5	4.5
CIL-EX 12W	12	600	E14/E27	115x60x47	6	50	67x34x14	5
CIL-EX 14W	14	700	E14/E27	115x60x47	6	50	43x22,5x13	5
CIL-EX 5W Candle	5	280	E14	124x36x40	6	50	43x22,5x13	4
CIL-EX 9W Candle	9	400	E14/E27	101x36x40	6	50	43x22,5x13	4
EFL TUBULAR Series				Ø BDxLH				
CTL-EX 5W	5	275	E14/E27/B22	Ø32X100	9	50	34x17x13	3.5
CTL-EX 7W	7	385	E14/E27/B22	Ø32X110	9	50	34x17x13	4
CTL-EX 9W	9	495	E27/B22	Ø40X105	9	50	42x21x14	4
CTL-EX 11W	11	605	E27/B22	Ø40X110	9	50	42x21x14	4.5
CTL-EX 2U 11W	11	605	E27/B22	Ø40X154	9	50	42x21x16.5	4.5
CTL-EX 2U13W	13	715	E27/B22	Ø40X162	9	50	42x21x16.5	5
CTL-EX 21W	21	1200	E27/B22	Ø49X152	12	50	52x26x17.5	7
CTL-EX 27W	27	1600	E27/B22	Ø49X169	12	50	52x26x17.5	7.5
EFL REFLECTOR series				Ø LDxLH				
R63 15W	15	700	E27	Ø60X118	9	20	85 x 32 x 17	4.5
R80 18W	18	800	E27	Ø80X140	9	20	97.5 x 37 x 19.5	5

# Ambience Series



■ CHS-D Dimmable

■ CFS D Dimmable

## Dimmable Compact Fluorescent Energy Saving Lamps "Ambience Series"

- Types
  - CHS-D Half Spiral
  - CFS-D Full Spiral
- Suitable for use in indoor and dry outdoor locations
- Use with good quality standard incandescent wall dimmers, table lamp dimmers, ceiling fans, porch lights, recessed fixtures, track lighting, photo sensors and timers.
- The small size of the lamps makes it ideal for use in a wide range of lighting fixtures that use incandescent bulbs.
- All types with range of color temperatures 2,700 / 3000 / 4000 / 6500K
- Rated Voltages available 120-130 V or 220-240 V
- Lifespan up to 8000 h

# Ambience Series

## ENERGY-SAVING ECO HALOGEN LAMPS

- CHS-D • CFS-D
- Dimmable Compact Fluorescent Energy Saving Lamps "Ambience Series"
- CHS-D Half Spiral Shape
- CFS-D Full Spiral Shape
- Finish:  
Electronic Ballast (built in)
- Cap / Socket and Voltage  
E 26, E27, B22 120-130 V / 220 - 240 V



■ CFS D Dimmable

■ CHS D Dimmable

## Dimmable Compact Fluorescent Energy Saving Lamps

- "Ambience Series" Type CFS-D Full Spiral
- Wattage 15 - 18 - 20 - 23 W
- Lamp Cap E26 - E27 - B22
- Color temperatures 2700 / 3000 / 4000 / 6500
- Voltage 120-130V / 220-240V
- Longest life up to 8000 hours
- Tube diameter 12 mm
- Body diameter 60 mm

## Dimmable Compact Fluorescent Energy Saving Lamps

- "Ambience Series" Type CHS -D Half Spiral
- Wattage 15 - 18 - 20 - 23 W
- Lamp Cap E26 - E27 - B22
- Color temperatures 2700 / 3000 / 4000 / 6500
- Voltage 120-130V / 220-240V
- Longest life up to 8000 hours
- Tube diameter 10 mm
- Body diameter 52 mm

# Ionifyer - Air Fresher Lamps

- IONIFYER – AIR FRESHER LAMPS
- Compact Fluorescent Energy Saving Lamps
- With Built-in Air Purifying System
- Half Spiral
- Full Spiral
- 3U Types



## ionifyer - air fresher lamps

■ Features and Functions:  
IONS are produced when electrons collide with molecules in the air. Those with negative charge are called negative IONS. Our health is based on the air, and negative IONS are called "vitamins of the air". Negative IONS are odourless, tasteless and invisible molecules. Although IONS exist everywhere in nature, we can not see them with our eyes. The photo-synthesis of plants and waterfalls produces a great amount of negative IONS. That is why people feel refreshed during thundering wet weather, in the forest or under a waterfall. Our lamps generate negative IONS:

- Removing the smock and dust
- Killing the bacteria and sterilizing the air
- Removing the peculiar smells
- Energy saving and lighting
- Purifying the air
- Promoting the health
- Environmentally friendly

## ionifyer - air fresher lamps

- CLEAN AIR by NEGATIVE ION GENERATOR

Negative IONS have been proven to remove the following particles from the air, resulting in healthier living conditions and reduction of odours: Pet Animal odour

- Smoke • Toxic Chemicals
- Pollen Bacteria Dust
- Dust Mites
- Insect Feces
- Dead Skin
- Mold Spores
- All types with color temperatures 2,700 / 3000/ 4000 / 6500 K
- Rated Voltages available 120-130 V or 220 240 V
- Lifespan up to 10,000 hours (premium range).

IONIFYER NON-LAMP-TYPES are available on request – view the showframe images!

# Ionifyer - Air Fresher Lamps

## IONIFYER AIR PURIFYING LAMPS AIR FRESHER BUILT-IN SYSTEM Through Production of Negative IONS

- Compact Fluorescent Energy Saving Lamos
- CHS-I-56 mm Half Spiral Shape
- CHS-I-52 mm Half Spiral Shape
- CHS-I-48 mm Half Spiral Shape
- CHS-I-45 mm Full Spiral Shape
- CEL-I-3U12 mm 3-U-Shape
- CEL-I-3U9 mm 3-U-Shape
- Finish:  
Electronic Ballast (built in)  
Cap / Socket and Voltage  
E 26, E27, B22  
120-130 V / 220 - 240 V  
Color Temp. 2700/3000/4000/6500K



### Type CHS-I-56 Half Spiral

- Wattage 11-15-20-23-26W
- Lamp Cap E26 - E27 - B22
- Color temp. 2700 to 6500K
- Voltage 120-130V / 220-240V
- Tube diameter 12 mm
- Body diameter 56 mm

### Type CHS-I-52 Half Spiral

- Wattage 11-15-18-20-23W
- Lamp Cap E26 - E27 - B22
- Color temp. 2700 to 6500K
- Voltage 120-130V / 220-240V
- Tube diameter 12 mm
- Body diameter 52 mm

### Type CEL-I-3U12

- Wattage 7-9-11-13-15-18-20W
- Lamp Cap E26 - E27 - B22
- Colour temp. 2700 to 6500K
- Voltage 120-130V / 220-240V
- Tube diameter 12 mm
- Body diameter 45 mm

### Type CHS-I-48 Half Spiral

- Wattage 7-9-11-13W
- Lamp Cap E26 - E27 - B22
- Color temp. 2700 to 6500K
- Voltage 120-130V / 220-240V
- Tube diameter 9 mm
- Body diameter 48 mm

### Type CFS-I-45 Full Spiral

- Wattage 9-11-13-15W
- Lamp Cap E26 - E27 - B22
- Color temp. 2700 to 6500K
- Voltage 120-130V / 220-240V
- Tube diameter 9 mm
- Body diameter 45/48 mm

### Type CEL-I-3U9

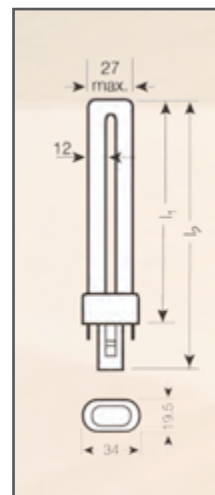
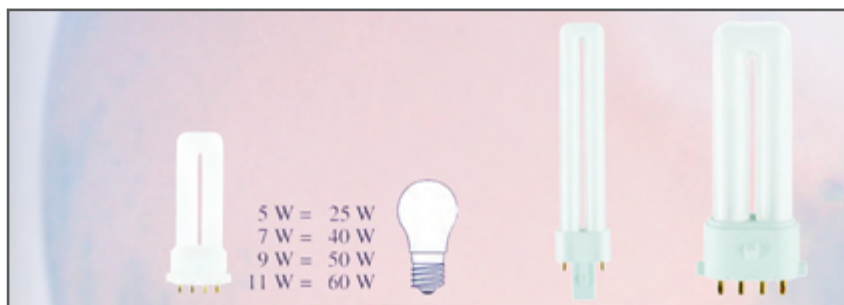
- Wattage 5-7-9-11-13W
- Lamp Cap E26 - E27 - B22
- Color temp. 2700 to 6500K
- Voltage 120-130V / 220-240V
- Tube diameter 9 mm
- Body diameter 45 mm



# Compact fluorescent Lamps

## Compact Fluorescent Lamps

- Type CL (-S) (-SE)  
Compact Lamp Energy Saving



- The energy saving lamp type CL

is the economical and creative alternative to the incandescent lamp. Owing to the special shape of the bulb they combine the advantages of incandescent lamps with the advantages of compact fluorescent lamps with integrated starter and capacitor.

- Suitable for creative lighting fixtures and modern lighting systems, f. e. small size lanterns, with slim and attractive shapes and high lumen rendering.
- Type CL-S 2 pin for conventional control gear
- Type CL-SE 4 pin for electronic control gear and dimmer systems

- Light Colors:

- 2700 k warmwhite comfort
- 3000 k warmwhite
- 4100 k coolwhite
- 6500 k daylight

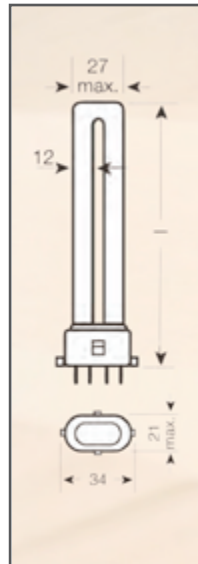
Further advantages are:

- + 5 times savings compared to GLS-lamps
- lamp life of up to 10,000 hours = 10 times more than GLS
- compact shape
- immediate start with no flicker
- light centre similar to incandescent lamps

# CL-S and CL-SE

## CL-S and CL-SE

- U-shaped tubular with 1U fluorescent media
- Finish:  
Starter and capacitor inside
- Cap / Socket  
As per table, see below



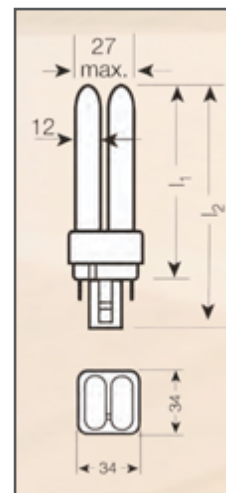
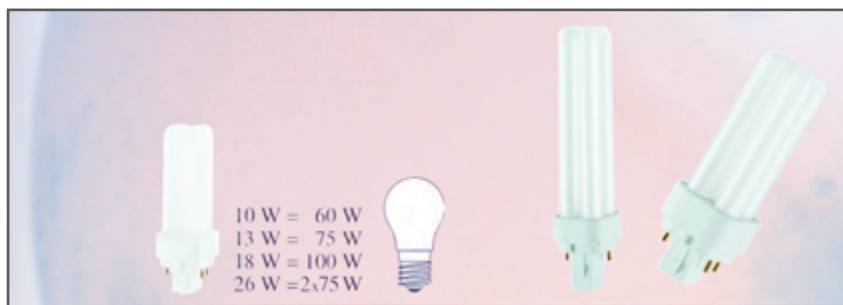
Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Colour Rendering CRI Ra	Light colours (see table)	Box Qty piece(s)/ctn	Dimensions L1mm L2mm	Art No.
CL-S 2 Pin								
CL-S 5W	5	250	G23	>80	4 colours	10/50	..85 108	000000000001
CL-S 7W	7	375	G23	>80	4 colours	10/50	114 137	000000000002
CL-S 9W	9	565	G23	>80	4 colours	10/50	144 167	000000000003
CL-S 11W	11	850	G23	>80	4 colours	10/50	214 237	000000000004
CL-S 13W	13	850	GX23	>80	4 colours	10/50	157 180	000000000005
CL-SE 4 Pin								
CL-SE 5W	5	250	2G7	>80	4 colours	10/50	..85 108	000000000006
CL-SE 7W	7	375	2G7	>80	4 colours	10/50	114 137	000000000007
CL-SE 9W	9	565	2G7	>80	4 colours	10/50	144 167	000000000008
CL-SE 11W	11	850	2G7	>80	4 colours	10/50	214 237	000000000009

- Light colours available : 2700k – 3000k – 4100k – 6500k (others, f.e. 5000k, on request)

# Compact fluorescent Lamps

## Compact Fluorescent Lamps

- Type CL (-D) (-DE)  
Compact Lamp Energy Saving



- The energy saving lamp type CL

is the economical and creative alternative to the incandescent lamp. Owing to the special shape of the bulb they combine the advantages of incandescent lamps with the advantages of compact fluorescent lamps with integrated starter and capacitor.

- Suitable for creative lighting fixtures and modern lighting systems, f. e. small size lanterns, with slim and attractive shapes and high lumen rendering.
- Type CL-D 2 pin for conventional control gear
- Type CL-DE 4 pin for electronic control gear and dimmer systems

- Light Colors:

- 2700 k warmwhite comfort
- 3000 k warmwhite
- 4100 k coolwhite
- 6500 k daylight

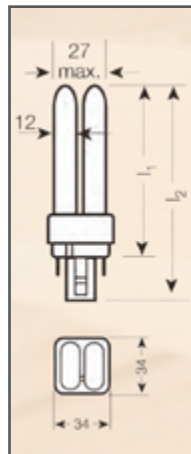
Further advantages are:

- + 5 times savings compared to GLS-lamps
- lamp life of up to 10,000 hours = 10 times more than GLS
- compact shape
- immediate start with no flicker
- light centre similar to incandescent lamps

# CL-D and CL-DE

## MR-16 Ultra 4 SERIES

- CL-D and CL-DE  
U-shaped tubular with 2U  
fluorescent media
- Finish:  
Starter and capacitor inside
- Cap / Socket  
As per table, see below



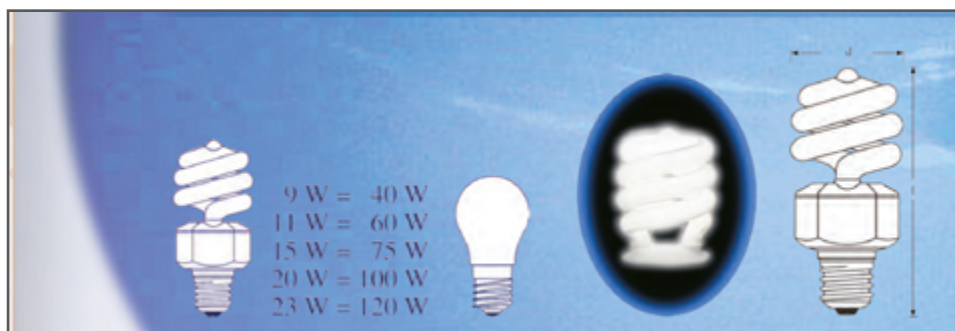
Type	Rated Wattage (W)	Luminous Flux (lm)	Socket Type	Colour Rendering CRI Ra	Light colours (see table)	Box Qty piece(s)/ ctn	Dimensions L1mm L2mm	Art No.
CL-D 2 Pin								
CL-D 10W	10	565	G24D1	>80	4 colours	10/50	.87 110	00000000010
CL-D 13W	13	850	G24D1	>80	4 colours	10/50	115 138	00000000011
CL-D 18W	18	1100	G24D2	>80	4 colours	10/50	130 153	00000000012
CL-D 26W	26	1650	G24D3	>80	4 colours	10/50	149 172	00000000013
CL-DE 4 Pin								
CL-DE 10W	10	565	G24Q1	>80	4 colours	10/50	.87 110	00000000014
CL-DE 13W	13	850	G24Q1	>80	4 colours	10/50	115 138	00000000015
CL-DE 18W	18	1100	G24Q2	>80	4 colours	10/50	130 153	00000000016
CL-DE 26W	26	1650	G24Q3	>80	4 colours	10/50	149 172	00000000017

- Light colours available : 2700k – 3000k – 4100k – 6500k (others, f.e. 5000k, on request)

# Compact fluorescent Lamps

## Compact Fluorescent Lamps Types COLOURLUX DTR TRONIC

- plus 3-Phosphor de Luxe Fullspectrum
- Compact Lamp Energy Saving



- The energy saving lamps COLOURLUX DTR TRONIC helixoidal tubular are the economical and creative alternative to the incandescent lamp. Owing to the special helix shape of the bulb they combine the advantages of incandescent lamps with the advantages of compact fluorescent lamps with integrated electronic ballast.
- DTR plus 3-phosphor render colours equivalent to those represented by nature. They are suitable for rooms where people live or work.
- DTR de Luxe Fullspectrum offer the best colour rendering characteristics. They are applied where colour and light is very important.

Further advantages are:

- + 5 times savings compared to GLS-lamps
- lamp life of up to 10,000 hours = 10 times more than GLS
- compact shape - handy short form - immediate start with no flicker
- light centre similar to incandescent lamps



**MERKUR** Ueberseehandel GmbH

## Headquarter Germany

Mattentwiete 5  
20457 Hamburg  
Germany

☎ +49 - 40 32 08 27 3  
☎ +49 - 40 32 08 27 59

✉ mail@merkur-hamburg.de

## Office United Arab Emirates

Level 41, Emirates Towers  
Sheikh Zayed Road  
P.O. Box: 31 303  
Dubai - U.A.E.

☎ +971 - 43 13 28 92  
☎ +971 - 43 13 27 53

## Office Hongkong

Unit 1202, Level 12,  
One Peking Building  
1 Peking Road, Tsim Sha Tsui  
Hongkong

☎ +852 - 39 80 92 25  
☎ +852 - 39 80 92 34

## Distributors

**Afghanistan**

Liberty Corporation Co.  
64m Street, Herat City  
Afghanistan  
☎ +937 - 99 69 44 81

**Bahrain**

Shaheen Group  
P.O.Box 405  
Manama  
Kingdom of Bahrain  
☎ +973 -17 81 35 35z

**Cameroon**

CALICO Sarl  
BP 15566  
Douala  
Cameroon  
☎ +237- 22 43 80 44

**Ghana**

Luminant Electricals  
P.O. Box CT5204  
Cantonment-Accra  
Ghana  
☎ +233 - 27 52 29 62 2

**Lebanon**

Tele Project  
P.O. Box 55268  
Sin el Fil  
Lebanon  
☎ +961 - 16 87 900

**Oman**

Trade Links and Services Co. LLC  
P.O.Box 2901  
Ruwi 112  
Sultanate of Oman  
☎ +968 - 24 70 67 75

**Saudi Arabia**

Ahmed Omer Bagazy Est.  
P.O. Box 16367  
Jeddah 21464  
Saudi Arabia  
☎ +966 - 26 47 29 28

**Sri Lanka**

Rotax Limited  
332 Galle Road  
Colombo 04  
Sri Lanka  
☎ +94 - 11 55 74 07 0

**United Arab Emirates**

Gilco Trading LLC  
P.O. Box 4916  
Deira, Dubai  
United Arab Emirates  
☎ +971 - 43 96 15 25

**Yemen**

Al Ashwal for Electrical Trade &  
Agencies  
Shoub Street  
Sana'a  
Yemen Republic  
☎ +967 - 12 82 43 2