



The new generation of energy-saving T5 tube lighting

MASTER LEDtube InstantFit HF T5

Philips MASTER LEDtube InstantFit T5 integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescents. The Philips MASTER LEDtube InstantFit T5 is the ideal solution for customers who have higher light output requirements and want to maximise value over the lifetime. The full energy savings & longer lifetime result in attractive payback times and TCO benefits.

Benefits

- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
- The fastest and easiest way to upgrade existing luminaires to LED technology, with a 100% safe installation process

Features

- A retrofit replacement for existing T5 lamps on HF ballast installations
- HF compatibility: no wires to replace, no hassle changing drivers; our InstantFit solution works with High Frequency electronic ballasts, making it easy and safe for all installation methods
- Electronic Pin safety: with Philips products you can safely touch the other end-cap when installing the tube. The integrated driver is also safely isolated from touchable parts. Philips LED tubes adhere to all UL and IEC pin safety requirements

Application

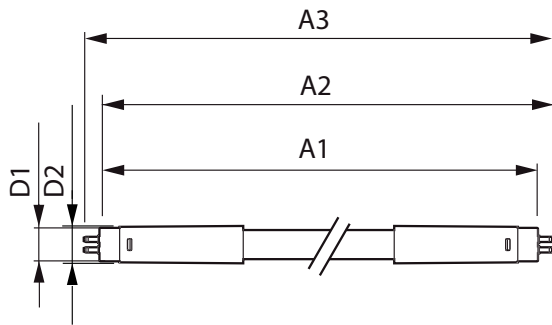
- The ideal solution for demanding applications with a need for extra energy savings: office, school, retail

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Versions



Dimensional drawing



Product	D1	D2	A1	A2	A3
Master LEDtube HF 1500mm UO 36W 840 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
Master LEDtube HF 1500mm HE 20W 840 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
Master LEDtube HF 1200mm HE 16.5W 865 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm
Master LEDtube HF 600mm HE 8W 830 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm
Master LEDtube HF 1500mm HE 20W 865 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
Master LEDtube HF 1200mm HE 16.5W 830 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm
Master LEDtube HF 1500mm HE 20W 830 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
Master LEDtube HF 1500mm HO 26W 865 T5	15.5 mm	19 mm	1449 mm	1456 mm	1463 mm
Master LEDtube HF 1500mm HO 26W 830 T5	15.5 mm	19 mm	1449 mm	1456 mm	1463 mm
Master LEDtube HF 1200mm HO 26W 830 T5	15.5 mm	19 mm	1149 mm	1156 mm	1163 mm
Master LEDtube HF 1500mm HO 26W 840 T5	15.5 mm	19 mm	1449 mm	1456 mm	1463 mm
Master LEDtube HF 1200mm HO 26W 840 T5	15.5 mm	19 mm	1149 mm	1156 mm	1163 mm
Master LEDtube HF 1200mm HO 26W 865 T5	15.5 mm	19 mm	1149 mm	1156 mm	1163 mm

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Operating and Electrical

Starting Time (Nom)	0.5 s
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General Information

Cap-Base	G5
Nominal Lifetime (Nom)	60000 h
Switching Cycle	50,000X

Light Technical

Colour Rendering Index (Nom)	80
Llmf At End Of Nominal Lifetime (Nom)	70 %

Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	Tube, double-ended

Temperature

T-Ambient (Max)	45 °C
T-Ambient (Min)	-20 °C
T-Storage (Max)	65 °C
T-Storage (Min)	-40 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	36 kWh
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	8 kWh
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	17 kWh
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	17 kWh
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	20 kWh
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	20 kWh
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	20 kWh
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	26 kWh
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	26 kWh
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	26 kWh
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	26 kWh
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	26 kWh
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	26 kWh

Controls and Dimming

Order Code	Full Product Name	Dimmable
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	No
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	-
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	-
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	-
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	-
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	-
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	-

Order Code	Full Product Name	Dimmable
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	-
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	-
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	-
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	-
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	-
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	-

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated)
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	40000-75000 Hz	65-75 V	36 W
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	-	40-70 V	8 W
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	-	70-120 V	16.5 W
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	-	70-120 V	16.5 W
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	-	80-130 V	20 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated)
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	-	80-130 V	20 W
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	-	80-130 V	20 W
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	30 K to 60 K Hz	20-90 V	26 W
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	30 K to 60 K Hz	20-90 V	26 W

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Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	30 K to 60 K Hz	20-90 V	26 W
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	20 K to 140 K Hz	60-120 V	26 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	20 K to 140 K Hz	60-120 V	26 W
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	20 K to 140 K Hz	60-120 V	26 W

Light Technical

Order Code	Full Product Name	Beam	Correlated Colour		Luminous Flux (Nom)
		Angle (Nom)	Colour Code	Temperature (Nom)	
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	160 °	840	4000 K	5600 lm
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	200 °	830	3000 K	1000 lm
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	200 °	830	3000 K	2300 lm
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	200 °	865	6500 K	2500 lm
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	200 °	830	3000 K	2800 lm
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	200 °	840	4000 K	3000 lm
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	200 °	865	6500 K	3000 lm

Order Code	Full Product Name	Beam	Correlated Colour		Luminous Flux (Nom)
		Angle (Nom)	Colour Code	Temperature (Nom)	
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	200 °	830	3000 K	3700 lm
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	200 °	840	4000 K	3900 lm
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	200 °	865	6500 K	3900 lm
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	200 °	830	3000 K	3700 lm
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	200 °	840	4000 K	3900 lm
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	200 °	865	6500 K	3900 lm

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	75 °C
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	65 °C
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	65 °C
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	65 °C
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	65 °C
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	65 °C
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	65 °C
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	55 °C
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	55 °C
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	55 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	50 °C
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	50 °C
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	50 °C

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