

The new generation of energy saving T8 tube lighting

MASTER LEDtube InstantFit HF T8

Philips MASTER LEDtube InstantFit T8 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 fluorescent. Philips MASTER LEDtube InstantFit T8 is the ideal solution for customers who have higher light requirements and want to maximize value over lifetime. 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
- Fastest and easiest way to upgrade existing luminaire to LED technology, with a 100%- safe installation process

Features

- 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
- Rotating end-caps: in many applications the pin fitting needs to be rotating. This can be a problem as LED tubes only provide directional light. Our T8 MASTER LEDtubes have rotating end-caps to allow you to rotate the tube by up to 90 degrees

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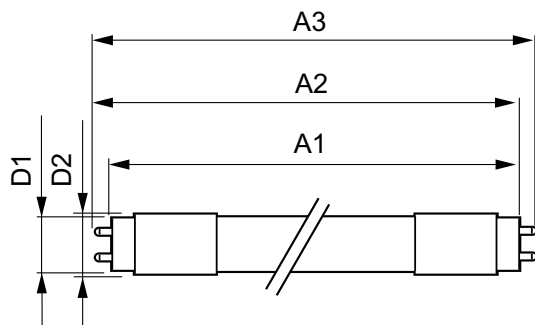
Application

- The ideal solution for very demanding applications with the highest lumen output requirements while saving on energy bills: office, school, retail & industry, healthcare applications

Warnings and Safety

- NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

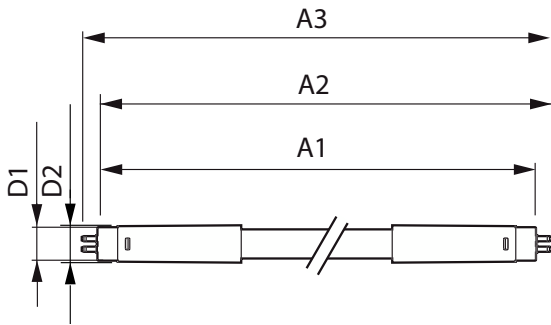
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm 14W 833 T8 FOOD	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 mm
MAS LEDtube HF 1200mm HO 14W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm HO 14W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm HO 14W865 T8	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 mm
MAS LEDtube HF 1200mm HO 14W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm UO 16W830 T8	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 mm
MAS LEDtube HF 1200mm UO 16W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm UO 16W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm UO 16W840 T8	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 mm
MAS LEDtube HF 1200mm UO 16W865 T8	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 mm
MAS LEDtube HF 1200mm UO 16W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1500mm HO 20W830 T8	25.6 mm	28 mm	1,498.7 mm	1,505.8 mm	1,512.9 mm
MAS LEDtube HF 1500mm HO 20W830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube HF 1500mm HO 20W840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube HF 1500mm HO 20W865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube HF 1500mm UO 24W830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube HF 1500mm UO 24W840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube HF 1500mm UO 24W865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

MASTER LEDtube InstantFit HF T8

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube HF 600mm HO 8W830 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
MAS LEDtube HF 600mm HO 8W830 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
MAS LEDtube HF 600mm HO 8W840 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
MAS LEDtube HF 600mm HO 8W865 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
MAS LEDtube HF 600mm HO 8W865 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm

General Information	
Switching Cycle	50,000
Light Technical	
Beam Angle (Nom)	160 degree(s)
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
Temperature	
Ambient temperature range	-20 °C to 45 °C

General Information

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929001284202	MAS LEDtube HF 1200mm HO 14W865 T8	G13 ROT	60,000 hour(s)
929001284602	MAS LEDtube HF 1500mm HO 20W830 T8	G13 ROT	60,000 hour(s)
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	G13 ROT	60,000 hour(s)
929001300102	MAS LEDtube HF 1200mm UO 16W865 T8	G13 ROT	60,000 hour(s)
929001300202	MAS LEDtube HF 1200mm UO 16W830 T8	G13 ROT	60,000 hour(s)
929002479402	MAS LEDtube HF 1200mm 14W 833 T8 FOOD	G13	60,000 hour(s)
929003553402	MAS LEDtube HF 1200mm HO 14W830 T8	G13 ROT	75,000 hour(s)
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	G13 ROT	75,000 hour(s)
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	G13 ROT	75,000 hour(s)
929003553702	MAS LEDtube HF 1500mm HO 20W830 T8	G13 ROT	75,000 hour(s)
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	G13 ROT	75,000 hour(s)

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	G13 ROT	75,000 hour(s)
929003554002	MAS LEDtube HF 1200mm UO 16W830 T8	G13 ROT	75,000 hour(s)
929003554102	MAS LEDtube HF 1200mm UO 16W840 T8	G13 ROT	75,000 hour(s)
929003554202	MAS LEDtube HF 1200mm UO 16W865 T8	G13 ROT	75,000 hour(s)
929003554302	MAS LEDtube HF 1500mm UO 24W830 T8	G13 ROT	75,000 hour(s)
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	G13 ROT	75,000 hour(s)
929003554502	MAS LEDtube HF 1500mm UO 24W865 T8	G13 ROT	75,000 hour(s)
929001393102	MAS LEDtube HF 600mm HO 8W830 T8	G13 ROT	60,000 hour(s)
929001393132	MAS LEDtube HF 600mm HO 8W830 T8	G13 ROT	75,000 hour(s)
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	G13 ROT	75,000 hour(s)
929001393302	MAS LEDtube HF 600mm HO 8W865 T8	G13 ROT	60,000 hour(s)
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	G13 ROT	75,000 hour(s)

MASTER LEDtube InstantFit HF T8

Light Technical

Order Code	Full Product Name	Correlated			
		Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929001284202	MAS LEDtube HF 1200mm HO 14W865 T8	6500 K	83	865	2,100 lm
929001284602	MAS LEDtube HF 1500mm HO 20W830 T8	3000 K	83	830	2,900 lm
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	4000 K	83	840	2,500 lm
929001300102	MAS LEDtube HF 1200mm UO 16W865 T8	6500 K	83	865	2,500 lm
929001300202	MAS LEDtube HF 1200mm UO 16W830 T8	3000 K	83	830	2,350 lm
929002479402	MAS LEDtube HF 1200mm 14W 833 T8 FOOD	3300 K	80	833	1,000 lm
929003553402	MAS LEDtube HF 1200mm HO 14W830 T8	3000 K	80	830	2,000 lm
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	4000 K	80	840	2,100 lm
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	6500 K	80	865	2,100 lm
929003553702	MAS LEDtube HF 1500mm HO 20W830 T8	3000 K	80	830	2,900 lm
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	4000 K	80	840	3,100 lm
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	6500 K	80	865	3,100 lm

Order Code	Full Product Name	Correlated			
		Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929003554002	MAS LEDtube HF 1200mm UO 16W830 T8	3000 K	80	830	2,350 lm
929003554102	MAS LEDtube HF 1200mm UO 16W840 T8	4000 K	80	840	2,500 lm
929003554202	MAS LEDtube HF 1200mm UO 16W865 T8	6500 K	80	865	2,500 lm
929003554302	MAS LEDtube HF 1500mm UO 24W830 T8	3000 K	80	830	3,500 lm
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	4000 K	80	840	3,700 lm
929003554502	MAS LEDtube HF 1500mm UO 24W865 T8	6500 K	80	865	3,700 lm
929001393102	MAS LEDtube HF 600mm HO 8W830 T8	3000 K	83	830	1,000 lm
929001393132	MAS LEDtube HF 600mm HO 8W830 T8	3000 K	80	830	1,000 lm
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	4000 K	80	840	1,050 lm
929001393302	MAS LEDtube HF 600mm HO 8W865 T8	6500 K	83	865	1,050 lm
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	6500 K	80	865	1,050 lm

Operating and Electrical

Order Code	Full Product Name	Power		
		Input Frequency	Line Frequency	Consumption
929001284202	MAS LEDtube HF 1200mm HO 14W865 T8	20000-75000 Hz	20000-75000 Hz	14 W
929001284602	MAS LEDtube HF 1500mm HO 20W830 T8	20000-75000 Hz	20000-75000 Hz	20 W

Order Code	Full Product Name	Power		
		Input Frequency	Line Frequency	Consumption
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	20000-75000 Hz	20000-75000 Hz	16 W
929001300102	MAS LEDtube HF 1200mm UO 16W865 T8	20000-75000 Hz	20000-75000 Hz	16 W

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Order Code	Full Product			Power
	Name	Input Frequency	Line Frequency	Consumption
929001300202	MAS LEDtube HF 1200mm UO 16W830 T8	20000-75000 Hz	20000-75000 Hz	16 W
929002479402	MAS LEDtube HF 1200mm 14W 833 T8 FOOD	20000-75000 Hz	20000-75000 Hz	14 W
929003553402	MAS LEDtube HF 1200mm HO 14W830 T8	20000-75000 Hz	20000-75000 Hz	14 W
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	20000-75000 Hz	20000-75000 Hz	14 W
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	20000-75000 Hz	20000-75000 Hz	14 W
929003553702	MAS LEDtube HF 1500mm HO 20W830 T8	20000-75000 Hz	20000-75000 Hz	20 W
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	20000-75000 Hz	20000-75000 Hz	20 W
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	20000-75000 Hz	20000-75000 Hz	20 W
929003554002	MAS LEDtube HF 1200mm UO 16W830 T8	20000-75000 Hz	20000-75000 Hz	16 W
929003554102	MAS LEDtube HF 1200mm UO 16W840 T8	20000-75000 Hz	20000-75000 Hz	16 W

Order Code	Full Product			Power
	Name	Input Frequency	Line Frequency	Consumption
929003554202	MAS LEDtube HF 1200mm UO 16W865 T8	20000-75000 Hz	20000-75000 Hz	16 W
929003554302	MAS LEDtube HF 1500mm UO 24W830 T8	20000-75000 Hz	20000-75000 Hz	24 W
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	20000-75000 Hz	20000-75000 Hz	24 W
929003554502	MAS LEDtube HF 1500mm UO 24W865 T8	20000-75000 Hz	20000-75000 Hz	24 W
929001393102	MAS LEDtube HF 600mm HO 8W830 T8	20000-80000 Hz	20000-80000 Hz	8 W
929001393132	MAS LEDtube HF 600mm HO 8W830 T8	20000-120000 Hz	20000-120000 Hz	8 W
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	20000-120000 Hz	20000-120000 Hz	8 W
929001393302	MAS LEDtube HF 600mm HO 8W865 T8	20000-80000 Hz	20000-80000 Hz	8 W
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	20000-120000 Hz	20000-120000 Hz	8 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001284202	MAS LEDtube HF 1200mm HO 14W865 T8	55 °C
929001284602	MAS LEDtube HF 1500mm HO 20W830 T8	55 °C
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	55 °C
929001300102	MAS LEDtube HF 1200mm UO 16W865 T8	55 °C
929001300202	MAS LEDtube HF 1200mm UO 16W830 T8	55 °C
929002479402	MAS LEDtube HF 1200mm 14W 833 T8 FOOD	55 °C
929003553402	MAS LEDtube HF 1200mm HO 14W830 T8	55 °C
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	55 °C
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	55 °C
929003553702	MAS LEDtube HF 1500mm HO 20W830 T8	55 °C
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	55 °C
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	55 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003554002	MAS LEDtube HF 1200mm UO 16W830 T8	55 °C
929003554102	MAS LEDtube HF 1200mm UO 16W840 T8	55 °C
929003554202	MAS LEDtube HF 1200mm UO 16W865 T8	55 °C
929003554302	MAS LEDtube HF 1500mm UO 24W830 T8	55 °C
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	55 °C
929003554502	MAS LEDtube HF 1500mm UO 24W865 T8	55 °C
929001393102	MAS LEDtube HF 600mm HO 8W830 T8	60 °C
929001393132	MAS LEDtube HF 600mm HO 8W830 T8	55 °C
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	55 °C
929001393302	MAS LEDtube HF 600mm HO 8W865 T8	60 °C
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	55 °C

Controls and Dimming

MASTER LEDtube InstantFit HF T8

Order Code	Full Product Name	Dimmable
929001284202	MAS LEDtube HF 1200mm HO 14W865 T8	No
929001284602	MAS LEDtube HF 1500mm HO 20W830 T8	No
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	No
929001300102	MAS LEDtube HF 1200mm UO 16W865 T8	No
929001300202	MAS LEDtube HF 1200mm UO 16W830 T8	No
929002479402	MAS LEDtube HF 1200mm 14W 833 T8 FOOD	No
929003553402	MAS LEDtube HF 1200mm HO 14W830 T8	Yes - Check ballast compatibility
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	Yes - Check ballast compatibility
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	Yes - Check ballast compatibility
929003553702	MAS LEDtube HF 1500mm HO 20W830 T8	Yes - Check ballast compatibility
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	Yes - Check ballast compatibility
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	Yes - Check ballast compatibility

Order Code	Full Product Name	Dimmable
929003554002	MAS LEDtube HF 1200mm UO 16W830 T8	Yes - Check ballast compatibility
929003554102	MAS LEDtube HF 1200mm UO 16W840 T8	Yes - Check ballast compatibility
929003554202	MAS LEDtube HF 1200mm UO 16W865 T8	Yes - Check ballast compatibility
929003554302	MAS LEDtube HF 1500mm UO 24W830 T8	Yes - Check ballast compatibility
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	Yes - Check ballast compatibility
929003554502	MAS LEDtube HF 1500mm UO 24W865 T8	Yes - Check ballast compatibility
929001393102	MAS LEDtube HF 600mm HO 8W830 T8	No
929001393132	MAS LEDtube HF 600mm HO 8W830 T8	No
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	No
929001393302	MAS LEDtube HF 600mm HO 8W865 T8	No
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	No

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929001284202	MAS LEDtube HF 1200mm HO 14W865 T8	-	T8
929001284602	MAS LEDtube HF 1500mm HO 20W830 T8	-	T8
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	-	T8
929001300102	MAS LEDtube HF 1200mm UO 16W865 T8	-	T8
929001300202	MAS LEDtube HF 1200mm UO 16W830 T8	-	T8
929002479402	MAS LEDtube HF 1200mm 14W 833 T8 FOOD	Frosted	Tube, double-ended
929003553402	MAS LEDtube HF 1200mm HO 14W830 T8	Frosted	T8
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	Frosted	T8
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	Frosted	T8
929003553702	MAS LEDtube HF 1500mm HO 20W830 T8	Frosted	T8
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	Frosted	T8

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	Frosted	T8
929003554002	MAS LEDtube HF 1200mm UO 16W830 T8	Frosted	T8
929003554102	MAS LEDtube HF 1200mm UO 16W840 T8	Frosted	T8
929003554202	MAS LEDtube HF 1200mm UO 16W865 T8	Frosted	T8
929003554302	MAS LEDtube HF 1500mm UO 24W830 T8	Frosted	T8
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	Frosted	T8
929003554502	MAS LEDtube HF 1500mm UO 24W865 T8	Frosted	T8
929001393102	MAS LEDtube HF 600mm HO 8W830 T8	-	T8
929001393132	MAS LEDtube HF 600mm HO 8W830 T8	Frosted	T8
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	Frosted	T8
929001393302	MAS LEDtube HF 600mm HO 8W865 T8	-	T8
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	Frosted	T8

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001284202	MAS LEDtube HF 1200mm HO 14W865 T8	14 kWh
929001284602	MAS LEDtube HF 1500mm HO 20W830 T8	20 kWh
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	16 kWh
929001300102	MAS LEDtube HF 1200mm UO 16W865 T8	16 kWh
929001300202	MAS LEDtube HF 1200mm UO 16W830 T8	16 kWh
929002479402	MAS LEDtube HF 1200mm 14W 833 T8 FOOD	14 kWh
929003553402	MAS LEDtube HF 1200mm HO 14W830 T8	14 kWh
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	14 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	14 kWh
929003553702	MAS LEDtube HF 1500mm HO 20W830 T8	20 kWh
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	20 kWh
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	20 kWh
929003554002	MAS LEDtube HF 1200mm UO 16W830 T8	16 kWh
929003554102	MAS LEDtube HF 1200mm UO 16W840 T8	16 kWh
929003554202	MAS LEDtube HF 1200mm UO 16W865 T8	16 kWh
929003554302	MAS LEDtube HF 1500mm UO 24W830 T8	24 kWh
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	24 kWh

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Order Code	Full Product Name	Energy Consumption kWh/1000 h
929003554502	MAS LEDtube HF 1500mm UO 24W865 T8	24 kWh
929001393102	MAS LEDtube HF 600mm HO 8W830 T8	8 kWh
929001393132	MAS LEDtube HF 600mm HO 8W830 T8	8 kWh
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	8 kWh
929001393302	MAS LEDtube HF 600mm HO 8W865 T8	8 kWh
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	8 kWh

