



# Quick installation guide Philips LED tubes

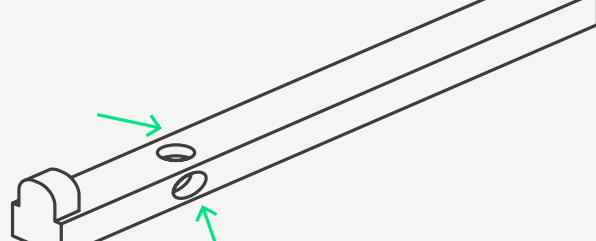
LED tubes provide the fastest and simplest way to convert existing luminaires to LED technology. The installation is 100% safe and totally unproblematic, due to lamp-for-lamp replacement.

Use our quick guides below for instant guidance on how to install a LED tube on which existing ballast.

## Which type of LED tube do you need?



Choose the correct installation guide according to the ballast type below.



Does your luminaire have a starter?

Yes No

**T8** Installation instructions for **Electro-magnetic Ballast (EM)**

- Turn off power supply
- Remove lamp
- Remove starter
- Install LED starter
- Install LED tube (T8; EM/Mains or UN) with light opening facing downwards
- Turn on power supply

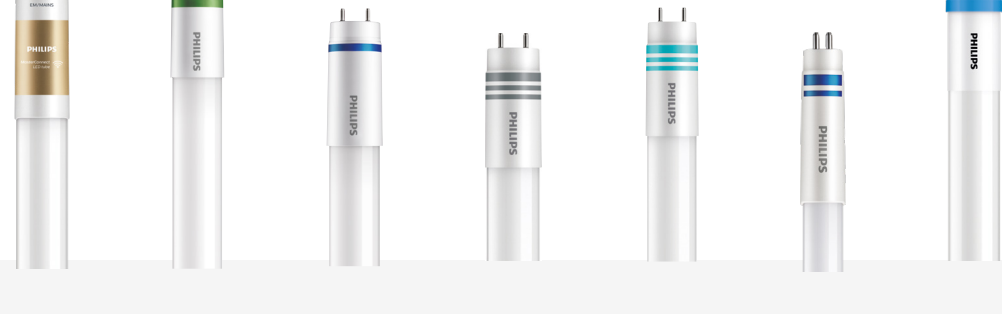
**T8** **T5** Installation instructions for **High-frequency Electronic Ballast (HF)**

- Check HF electronic ballast version
- Verify HF electronic ballast compatibility  
Once ballast compatibility is confirmed
- Turn off power supply
- Remove lamp
- Install LED tube (InstantFit HF or UN) with light opening facing downwards
- Turn on power supply

**T8** **T5** Installation instructions for **direct mains connection**

- Turn off power supply
- Remove lamp
- Remove cover to expose ballast
- Cut wires and remove ballast
- LED tube (T8 or T5; EM/Mains, Mains or UN)
  - 5a. Applicable for T8 EM/Mains, T8 UN and T5 Mains
  - 5b. Applicable for T8 EM/Mains
- Turn on power supply

## There's a Philips LED tube for every application



Simplicity and ultra-efficiency make Philips LED tubes the quickest and easiest way to upgrade to LED for immediate energy savings over a long and reliable lifetime.

Finding the right LED tubes for different plans, needs and budgets is easy with the extensive Philips portfolio. It ensures that you always have a quality solution at the price you want.

[philips.com/ledtube](http://philips.com/ledtube)

## Pro tip for choosing a Philips LED tube: Watch out for the rings!

**T8** One ring: EM/Mains (Electro-magnetic ballast or direct mains)

**T8** Two rings: HF (High-frequency Electronic ballast)

**T8** Three rings: UN (Universal)

**T5** No ring/one ring: Mains (Electro-magnetic ballast or direct mains)

**T5** Two rings: HF (High-frequency Electronic ballast)

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