



VALTAVALO® E3 LED TUBES

INSTALLATION GUIDE

This document describes installation of LED tubes in retrofit use. Valtavalo E3 LED tube is designed to replace a traditional T8/G13 fluorescent tube in a luminaire with magnetic ballast.

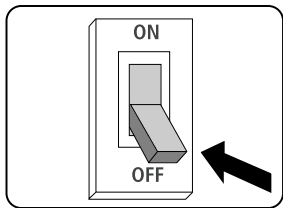
Please note that technical specifications of LED tubes are different from those of fluorescent tubes, and that needs to be taken into account when installing LED tubes. For more information about Valtavalo LED tubes please see www.valtavalo.com.

Delivery content

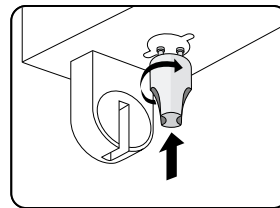
Valtavalo LED tube, a starter and installation instructions.



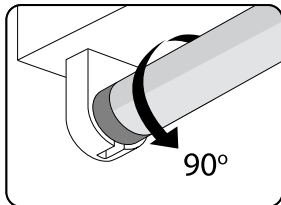
Easy and quick retrofit-installation into luminaires with magnetic ballast



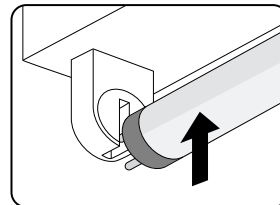
1. Switch off electricity and make sure to clear any obstacles from the immediate environment.



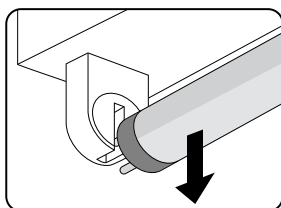
5. Insert Valtavalo LED starter.



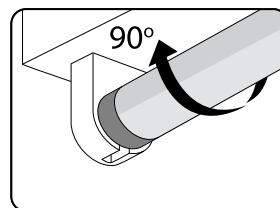
2. Unlock the old fluorescent tube by rotating it by 90°.



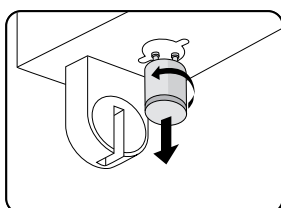
6. Install Valtavalo LED tube.



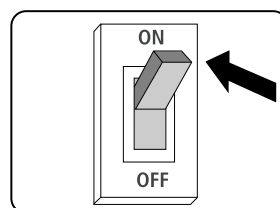
3. Remove the old fluorescent tube.



7. Lock the LED tube by rotating it by 90°.

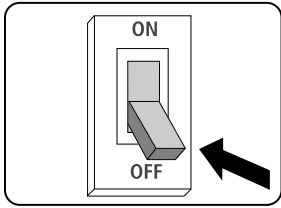


4. Remove the old starter.

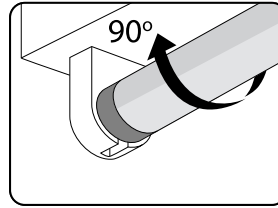


8. Switch electricity back on and check the operation of the tubes. Defective products must be retired immediately.

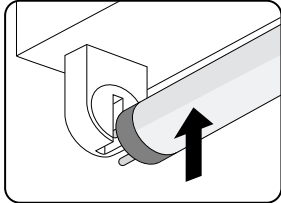
Installation into Valtavalo LED luminaire



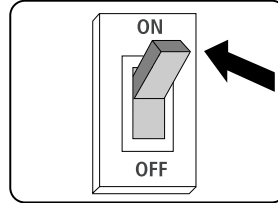
1. Switch off electricity and make sure to clear any obstacles from the immediate environment.








3. Lock the LED tube by rotating it by 90°.



2. Install Valtavalo LED tube.

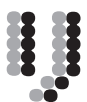
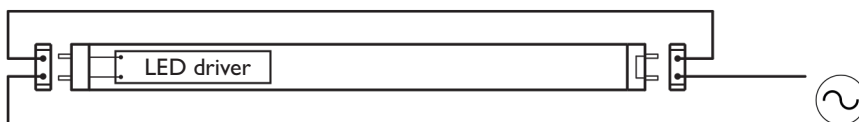


4. Switch electricity back on and check the operation of the tubes. Defective products must be retired immediately.

	Valtavalo LED tube is suitable for 50/60 Hz operation. It is not suitable for high frequency operation of electronic control gear.
	Valtavalo LED tube is not suitable for dimming.
	Valtavalo LED tube is not suitable for emergency exit lighting.
	When installing Valtavalo LED tube, the starter of the luminaire needs to be replaced with a Valtavalo LED-starter.
	Valtavalo LED tube must be installed in dry environment or in a luminaire that provides splash guard protection.

Ambient temperature range of E-series LED tubes is -20°C ...+40°C. They may not be suitable for use in all applications where traditional fluorescent tubes are used. The temperature range of the tube differs from the temperature range of a fluorescent lamp (-20°C...+60°C). In cases of doubt regarding the suitability of the application, please contact Valtavalo or your local Valtavalo distributor.

Valtavalo LED tube is designed for general lighting service. Compatibility of this lamp with the luminaire shall be checked with the luminaire manufacturer. In retrofit use defined by the standard, no modifications are to be made to the luminaire, in which the LED tube is to be used. If modifications (removal of compensation capacitor or bypass of electronic ballast) are needed, please ask for more information from Valtavalo. Wiring example below.



valtavalo



Valtavalo Ltd

Sammaltie 14
90620 Oulu
Finland

www.valtavalo.com
info@valtavalo.fi
tel. +358 207 789 880