

**MANUAL BALLAST
HANDLEIDING BALLAST
ANLEITUNG VORSCHALTGERÄT
MANUEL BALLAST**

AIR-AQUA BALLAST



1. English

Thank you for purchasing an Air-Aqua Balast.

This guide aims to provide you with correct and complete information.

To ensure long-lasting satisfaction with this product, please read this manual carefully and follow our guidelines.

**PLEASE KEEP THIS USER GUIDE IN A SAFE PLACE!
WHEN CHANGING OWNERSHIP, PASS ON
THE COMPLETE USER GUIDE!**

If you are uncertain about the contents of this guide or do not fully understand the assembly instructions and/or anything regarding this product, please contact the shop where the product was purchased.

This manual is intended to inform you correctly and comprehensively, i.e. also over potential risks caused by this ballast. The user, fitter and maintenance technician is responsible for checking compliance with the procedures and advice in this manual. This ballast is built in compliance with existing safety regulations. Nevertheless this device may cause risks for individuals and for property if it is used improperly or not according to its designated use or if safety advice is ignored.

If the ballast is used improperly, the liability of the manufacturer and the operating permit are void. For safety reasons, children and juveniles under the age of 16 and people who do not recognise the possible risks or who are not familiar with this manual may not use the device.

The combination of water and electricity can cause serious threat to life and limb when not installed according to the directions or when used improperly.

The General Terms and Conditions of Air-Aqua apply to all products.

1.2 Defects and claims for compensation, disclaimer

1.2.1

Except in the case of a further claim, we are only liable for defects to the delivered goods until the risk has been transferred to the purchaser. Minor deviations between the appearance and workmanship of the product delivered and the specifications in the contract or minor limitations of usability will be deemed insignificant.

The warranted condition, endurance and usability of the product are solely subject to the specifications agreed in writing, in the product specification and/or in this guide. Further verbal agreements, especially from preliminary talks, advertising and/or in related industrial standards, are only valid as an integral part of a written contract. Only conditions and specifications

specifically laid down by us are valid. We do not accept conditions or specifications laid down by third parties. The specifications laid down in this guide are valid. If the customer wishes to use the product for a purpose other than the intended purpose, he or she is obliged to thoroughly explore the suitability of the product for this other purpose. We give no warranty and accept no liability for any use other than that explicitly approved by us in writing.

Any changes made to the product will result in the loss of warranty and all claims and rights will lapse.

The user is held responsible for the proper use of the ballast. The user guide does not discharge you from your liability for the proper and safe application, installation and operation of the ballast.

On using this guide, you agree that in no circumstances can or will the manufacturer be held liable for any personal injuries or damage to property that might result from using the device.

1.2.2

Our warranty for defects is strictly limited to supplementary performance. We will eliminate any defects or deliver substitute goods at our discretion. Where supplementary performance fails or is disputed or impossible, the customer has the right to withdraw from the contract. Air-Aqua explicitly limit the warranty to the ballast itself. We are not liable for any consequential damage or damage caused by a malfunction or failure of the ballast.

1.2.3

The customer is required to conduct a detailed inspection of the goods immediately after delivery. Any defects should be reported immediately in writing. Hidden defects should be reported immediately after their discovery. The customer should report any damage caused during transport within 24 hours to the carrier and/or the delivery service. If the customer fails to meet the requirement to inspect the goods and report any defects or damage, this will result in the loss of warranty.

1.2.4

We accept no liability for the improper application, use, maintenance or handling of the product by the customer or its subsidiaries, or for normal wear and tear. This applies specifically to the consequences of thermal, chemical, electrochemical or electrical influences as well as for infringements of our use and maintenance guides. The same applies to damage resulting from changes or adjustments made by the customer, which have not been approved by us beforehand.

1.2.5

In principle, the customer is responsible for damage directly attributed to the improper use of the product. If the customer returns the product, break-proof packaging should be used. The customer is liable for any damage that can be attributed to inappropriate packaging.

1.2.6

Claims against us expire within a year after the initial delivery of the goods to the customer. The same applies to damage claims, regardless of their legal cause. The limitation period does not apply to claims based on the malicious concealment of damage, injury to life, body or health or any other damage resulting from intent or wanton negligence.

1.2.7

If it becomes apparent during our examination of damage reported by the customer or in the course of repairing defects that the reported damage or claims were made wantonly or were unwarranted, we may charge for inspecting and repairing defects. The customer has the right to reject a necessary repair and to demand the return of the ballast. In general, every inspection of damage is bound to lump sum compensation if it appears that the customer is responsible for the damage.

1.2.8 Subject to alterations

The manufacturer is entitled to change the product at any time without prior notice being required, as long as these changes improve the reliability or quality of the product. No claims can be made if, for example, the design, functionality or performance of the ballast fundamentally changes. The confirmed ballast specifications are always guaranteed.

1.2.9 Guarantee

The guarantee of this product is 1 year after date of purchase.

1.3 Use of the ballast

CAUTION!

Before connecting the device, make sure there is no damage. Check the power cable mains plug carefully before connecting.

Compare the electrical specification on the type label of the device with the specification of the power supply. Make sure that the device is connected to an ELCB (earth leakage circuit breaker) with an assigned leakage rating of max. 30 mA (DIN VDE 0100T739). Only operate the device on a correctly installed power plug.

Keep the power plug and the wiring dry! Install the wiring protected in order to avoid damage.

THE WIRING OR THE POWER PLUG MUST NOT BE CUT. DOING SO WILL IMMEDIATELY INVALIDATE ALL WARRANTY AND LIABILITY OF THE MANUFACTURER.

Only use wiring, installations, adapters, extension cables and connection cables with grounding-type plugs with sufficient cable diameter. Do not pull on the wiring of the device or use the wiring to carry the device! If the wiring is damaged or broken, the device may no longer be used! Take care that the power plug never

falls into water or gets wet. Protect the plug and the wiring from heat, oil, UV light and sharp corners. The manufacturer is not liable in any way for any damage caused by improper installation or by the carelessness of the user or installer.

In general, when put out of service, the ballast must be stored in a dry, warm place to prevent condensation/ moisture getting into the electronics which could cause damage when used again.

Never open the case of the device or of the appending parts if this is not explicitly suggested in the user manual. Never apply technical modifications of the device.

1.4 Application/Installation

The ballast is only to be used for T5 lamps in the range of 40 to 105 Watt.

Environment temperature: 15 °C to +30 °C

Protection class: IP20

CAUTION:

Before you install the ballast, read the manual carefully. Damage caused because the manual was not read thoroughly does not fall under warranty.

When unpacking the ballast, check whether all parts have been delivered undamaged. Any damage detected must be reported to your retailer within 24 hours of purchasing the device. Please check the ballast for damage before you operate it. Do not use the ballast if it is damaged. Please inform your retailer immediately. If the ballast is used despite being damaged, any warranty and liability will then be invalid.

The ballast may not be used outdoors. It is only approved for indoor usage. Furthermore the ballast may not be exposed to direct sunlight or direct heat sources (powerful lamps, central heating etc.). The ballast produces heat itself. Adequate air ventilation has to be assured. Therefore a minimal distance of 10cm to each side from the next cabinet/shelf has to be assured. An adequate air ventilation of the room has to be assured. Remember a (garden) shed might get very warm during sunny days (above 40°C). The ballast has a protection class IP20. Remember that electronics and water are enemies. Provide good protection from moisture and a humid environment.

1.5 Function of LEDs and Display

The ballast displays the remaining lamp life in hours. Standard it's set on 13000 hours and the ballast will count down to zero. The display shows '30.00', where the dot means 10.000 hours extra. After counting down to zero, the counter shows 9999 (now without a dot).

If the reset button is shortly pressed (1-2 seconds) the display shows the ballast operation time in hours; this value can't be reset.

After 10 seconds the view of the display returns to the remaining life time of the connected lamp.

When there is no lamp connected or the lamp is broken/fails, the red LED (error) starts blinking and the buzzer is activated. This indicates an error of the lamp, not of the ballast.

At normal operating with lamp properly connected, green LED (OK) lights.

1.5.1 End of lamp life - A3

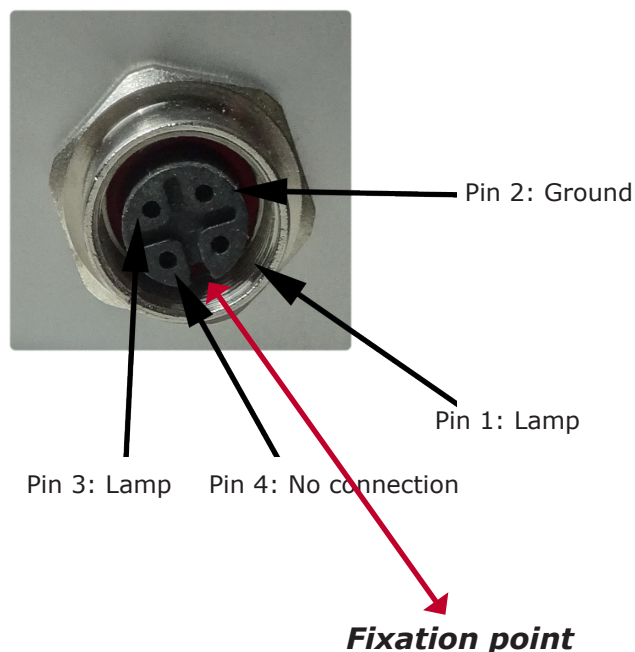
If the display shows "A3", this means end of life of the lamp. "A3" is also shown when the lamp is not properly connected to the ballast. The red LED will light discontinuously and the buzzer will sound, indicating lamp has to be replaced.

The "A3" display can be eliminated up to four times. Press the reset-button for 5 seconds. The buzzer stops and the internal lamp life will be set to 7 days. Display still shows "A3" and red LED still blinks. After 7 days, the buzzer will sound again. After given a reset 4 times buzzer will not be eliminated unless lamp has been changed.

1.5.2 Replacing a lamp/Resetting hours

When a lamp has been replaced you need to press the reset button for more than 10 seconds. The display shows "rSEt". Hold for another 1-2 seconds and the display shows '30.00'. Now release the button, lamp life has been resetted.

1.6 Pin-configuration



1.7 Technical Information

Power: 10-105 Watt

Voltage: 99-264 VAC

Lamp current: 1.10-1.30AA

Frequency: 50-60 Hz

Protection class: IP20

Ambient Temperature: 15-30C

Certificates/Compliance:

EN 55015:2013

EN 61000-3-2:2006+A1:2009+A2:2009

EN 61000-3-3:2013

EN 61547:2009

EN 61000-4-2:2009

EN 61000-4-3:2006+A1:2008+A2:2010

EN 61000-4-4:2012

EN 61000-4-5:2006

EN 61000-4-6:2014

EN 61000-4-8:2010

EN61000-4-11:2004

EN 61347-1:2008+A1:2011+A2:2013

EMC: 2004/108/EC

1.8 Distributor's declaration

Titles against Air-Aqua BV concerning the products described in this manual address the Air-Aqua BV guarantee clauses and general terms and conditions. Specifications may vary due technical improvements.

If the device fails to meet the demands you expect from Air-Aqua BV, please contact the dealer from whom you purchased this product. This is usually the best way for product support. However you may feel free to contact us.

If you have any questions or problems, consult an electrician, your dealer or Air-Aqua BV.

1.8.1 Distributor

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