

AQUALUC mini Standard frosted

- fully encapsulated flexible LED light line with thermal conductive polyurethane-ceramic compound and IP 67* protection
- only one bin per color according to 3 step MacAdam
- high efficiency with Barthelme LEDlight flex High Efficiency LED strip of up to 129 lm/W (at light color 840, clear version)
- resistant to water, UV radiation, abrasion and chemicals
- compact dimensions of only 10,5 x 5 mm
- small bending radius of only 50 mm (only one axis)
- available in clear and frosted; frosted reduces the glare effect
- current limiter and high amount of copper in FPC enable a long lifetime



Please observe the installation and safety instructions at <https://www.barthelme.de/content/en/manuals.aspx> !

When ordering, please note the article number scheme at the end of the data sheet.

PHOTOMETRIC DATA



| | AQUA-2002-0027 | AQUA-2002-0031 | AQUA-2002-0040 | AQUA-2002-0055 |
|------------------------------------|-------------------------------------|----------------|----------------|----------------|
| Type of color | White | | | |
| Encapsulation | frosted | | | |
| Typ. color temperature | 2700 K | 3100 K | 4000 K | 5500 K |
| Light color | warm white | white | cold white | daylight |
| Typ. total luminous flux per metre | 520 lm/m | 525 lm/m | 562 lm/m | 551 lm/m |
| Efficiency | 98 lm/W | 99 lm/W | 106 lm/W | 104 lm/W |
| EEC of installed light source(s) | D | | | |
| Typ. color rendering index | 85 | | | |
| Beam angle | 120 ° | | | |
| Dimming | dimmable | | | |
| LED strip used | LEDlight flex 12 8p High Efficiency | | | |
| L90/B10 bei Ta < 55°C | >60.000 h | | | |

PHOTOMETRIC DATA TOLERANCES IN THE AQUALUC FAMILY: The stated photometric data of the AQUALUC products are typical values which in practice are influenced by the binning of the LED's as well as the individual production steps in the encapsulation process. Factors such as layer thickness, type of encapsulation and the light color of the uncoated LED's have an influence on the resulting color temperature of the finished AQUALUC product. As each of these factors are subject to process and production related tolerances the resulting photometric data of the AQUALUC products can deviate from the stated typical values.

ELECTRICAL DATA

| | AQUA-2002-0027 | AQUA-2002-0031 | AQUA-2002-0040 | AQUA-2002-0055 |
|-------------------|----------------|----------------|----------------|----------------|
| Operating voltage | 24 V DC | | | |
| Power per meter | 5,3 W/m | | | |

MECHANICAL DATA

| | AQUA-2002-0027 | AQUA-2002-0031 | AQUA-2002-0040 | AQUA-2002-0055 |
|--------------------|----------------|----------------|----------------|----------------|
| Width | 10,5 mm | | | |
| Height | 5 mm | | | |
| Bending radius | 50 | | | |
| Type of protection | IP 67 | | | |

Aqualuc products have a length tolerance +/- 5 mm at < 1 m and +/- 0.2 % at > 1 m

GENERAL DATA

| | AQUA-2002-0027 | AQUA-2002-0031 | AQUA-2002-0040 | AQUA-2002-0055 |
|--------------------------------------|--|----------------|----------------|----------------|
| Ambient temperature Ta | -20 ° C ~ +55 ° C | | | |
| Max. temperature Tc | 68 ° C | | | |
| Max. operable length | 9660 mm | | | |
| Max. buildable length with 1 m cable | 9651 mm | | | |
| Remarks | Connection/forwarding cable: optionally 1 - 6 m with free wire ends or 0.35 m with M8 plug | | | |

ACCESSORIES

| | 40100107 | 40100108 |
|-----------------------|---|----------|
| Description | AQUALUC mini polycarbonate plastic support profile with adhesive tape, UV resistant | |
| Material | Plastics | |
| Length | 1000 mm | 2000 mm |
| Width | 13 mm | |
| Height | 9,9 mm | |
| Fire protection class | B2 (DIN 4102) | |
| Ambient temperature | -40 ~ +130 ° C | |
| Remarks | Material: Polycarbonat | |

| | 30033019 | 63500033 |
|-------------|--|---|
| Description | heat resistant double-sided tape, with excellent adhesive properties | Silicone adhesive and sealant, one-component, transparent, cartridge 290 ml |
| Material | Acryl | |
| Length | 33000 mm | |
| Width | 9 mm | |
| Height | 0,4 mm | |
| Remarks | 33 m x 9 mm | not suitable for PC-plastic profiles |

| | 66313203 | 66313210 | 66313230 |
|-----------------------|--|----------|----------|
| Description | M8 connector, stainless steel, 2-pole, screwable, moulded on cable with cross section 2x 0.5 mm ² | | |
| Indoor/Outdoor | Outdoor | | |
| Cable sheath material | PUR | | |
| Halogen-free | Yes | | |
| Color of cable | white | | |
| Wire cross-section | 2x 0,5 mm ² | | |
| Length | 350 mm | 10000 mm | 3000 mm |



ARTICLE NUMBER SCHEME

| AQUA | XXXX | XXXX | XXXX | XX | XXX | XXX |
|------|--------------------------------|---|---------------------------------------|--|---|--|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| | TYP TYPE | LICHTFARBE LIGHT COLOUR | WUNSCHLÄNGE IN MM WISH LENGTH IN MM | KABEL-ZUFÜHRUNG CABLE FEED | ZULEITUNG CABLE IN-FEED | WEITERLEITUNG CABLE OUT-FEED |
| | 2001 – clear 2002 – frosted | 0027 - 2700 K 0030 - 3000 K 0031 - 3100 K 0033 - 3300 K 0040 - 4000 K 0043 - 4300 K 0055 - 5500 K 0065 - 6500 K 0625 – Rot Red 0525 – Grün Green 0470 – Blau Blue 0593 – Amber | | 21 – einseitig one-sided 22 – beidseitig double-sided | 001 – 1 m-Kabel cable 002 – 2 m-Kabel cable 003 – 3 m-Kabel cable 004 – 4 m-Kabel cable 005 – 5 m-Kabel cable 006 – 6 m-Kabel cable 101 - 0,35-m-Kabel mit M8-Stecker 0,35 m cable with M8 connector | 000 – keine Weiterleitung no cable out-feed 001 – 1 m-Kabel cable 002 – 2 m-Kabel cable 003 – 3 m-Kabel cable 004 – 4 m-Kabel cable 005 – 5 m-Kabel cable 006 – 6 m-Kabel cable 102 - 0,35-m-Kabel mit M8-Buchse* 0,35 m cable with M8 socket* |

IN INDIVIDUELLEN LÄNGEN, MIT BEIDSEITIGER UND RÜCKSEITIGER EINSPEISUNG ERHÄLTlich | AVAILABLE IN INDIVIDUAL LENGTHS, WITH OPTIONAL IN-FEED ON BOTH SIDES AND REAR SIDE

NOTE

During the production of encapsulated luminaires, air bubbles may be enclosed in the material. These bubbles are production-related and do not constitute a defect. If the bubbles are within the beam path of an LED, this can constitute a defect.

NOTE CHEMICALS

The AQUALUC encapsulation materials have successfully passed various test series in which resistance to salt, water, UV radiation, abrasion, dust and chemicals were tested. Each AQUALUC light line is ideally suited for indoor and outdoor illumination. For example on facades and bridges, in wellness oases and swimming pools, from maritime areas to industrial applications and vehicle technology - AQUALUC is already being used successfully everywhere. Despite the use of high quality materials and a robust design, there are chemical-related limitations in the areas of application. Please refer to the following link:

<https://www.barthelme.de/shared/download/katalog/AQUALUC-Chemische-Mittel-Chemical-Agents.pdf>

The guarantee period for the product is 5 years and begins on the day of shipment. Reference is the date of the delivery bill. The guarantee period may differ for accessories.