



NanoPower®

**The ultimate underwater light behind window. "Seeing is believing!"**

### Why they need to be seen to be believed

With its NanoPower® series, WaterVision optimises the lighting effect in the water. This is in contrast to the WaterVision Kelvin® series, which is optimised for the best lumen/watt ratio, as is usual with underwater lighting. **But does more light really lead to better visibility?**

With NanoPower, WaterVision strives to optimise the lighting effect in water to offer:

1. **Safety:** a higher contrast between swimmers and their surroundings leads to better visibility of the swimmer, especially in the peripheral vision.
2. **Light efficiency:** by (a) minimising light attenuation in the water and (b) keeping the light in the water for as long as possible, the lighting effect is significantly improved.
3. **Good distribution of the light:** with a minimum of lamps it is still possible to clearly light all corners of the swimming pool.
4. **Pleasant light:** (a) minimal glare in and above water and (b) light composition that makes people feel comfortable.
5. **Total lighting effect in all facets:** roughly 90% of pools can be divided into three categories: stainless steel pools, pools tiled with hard-glazed tiles and outdoor natural pools. WaterVision offers optimised floodlights for each category.

Lumen values are therefore not representative of the optimal light effect in the water. That's why we say: "Seeing is believing". We would also be happy to put you in touch with one of our many satisfied NanoPower users, so that they can share their experiences with you.

- Fewer lamps
- Lower energy consumption
- More light
- Good visibility
- Improved safety
- Quick installation
- Sustainable
- Proven quality
- Since 2004
- Made in Holland

# WV17/19 NanoPower®

LED underwater floodlights behind window

Series 2024

# WaterVision

MORE LIGHT LESS ENERGY

## The lighting colours

The WV17 & WV19 NanoPower lamps are available in two natural water colours: Mediterranean Blue and Bright White. These light colours add different effects and atmospheric experiences. Every indoor or outdoor pool can usually be (invisibly) matched with an optimal colour and experience. Below, you can find advice on which colour best matches which situation:

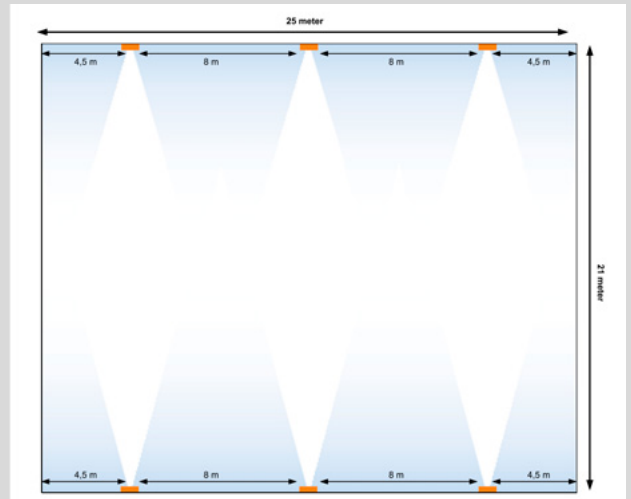
NanoPower® colours	Race pools	Recreation pools	Instruction pools	Outside pools	Divepools
Mediterranean Blue	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Bright White	✓✓✓	✓	✓✓	✓	✓✓✓

## Where is NanoPower used?

NanoPower comes into its own when light has to pass through water over longer distances (>7m). This is generally in pools larger than 100m<sup>2</sup>. With NanoPower, the opposite pool wall is lit, as a rule. Typically, when the two lamps shine opposite each other, the middle of the pool is lit most intensely. For example, a pool of 25 by 21 metres can be fully illuminated using only six 80 Watt lamps (see illustration below).

## Durable and robust

The WV17 & WV19 behind window underwater floodlights are Dutch quality products. The WV17 is normally used to replace the 150W and 250W metal halide lamp and the WV19 usually replaces the 400W metal halide lamp. Thanks to substantial energy cost savings, the lamps pay for themselves within a very short time.



6x WaterVision WV17 NanoPower LED Bright White 80 watt



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## Articlelist WV17 - Series 2024

Part number	Description	Voltage	(Input) Watt
V1717146	WV17 NanoPower Bright White	24V	80
V1717147	WV17 NanoPower Bright White	24V	120
V1717148	WV17 NanoPower Mediterranean Blue	24V	80
V1717150	WV17 NanoPower Bright White for stainless steel pool	24V	80
V1717161	WV17 NanoPower Bright White for stainless steel pool	24V	120
V1717152	WV17 NanoPower Mediterranean Blue stainless steel pool	24V	80
V1717143	WV17 RGBxW ColorWave, ACC	24V	80



The WV17 floodlights come standard without a connection cable and LED driver. These must be ordered separately.

## Articlelist WV19 - Series 2024

Part number	Description	Voltage	(Input) Watt
V1917156	WV19 NanoPower Bright White	230V	160
V1917157	WV19 NanoPower Bright White	230V	240
V1917158	WV19 NanoPower Mediterranean Blue	230V	160
V1917160	WV19 NanoPower Bright White for stainless steel pool	230V	160
V1917162	WV19 NanoPower Mediterranean Blue stainless steel pool	230V	160
V1917155	WV19 RGBW ColorWave, ACC	230V	160



The WV19 floodlights come standard with LED driver and 1.5 metre power cord.

## Parts list WV17 & Wv19 accessories

Part number	Description
V0005	80 Watt 24Vdc LED driver in housing
V0069	320 Watt 24Vdc LED driver in housing
V0128	590 Watt 24Vdc LED driver in housing



80 Watt LED driver in 24V (DC) housing  
Part nr. V0005  
Size: 254(h) x 180(w) x 62(d)mm



320 Watt LED driver in 24V (DC) housing  
Part nr. V0069  
Size: 400(h) x 200(w) x 80(d)mm



590 Watt LED driver in 24V (DC) housing  
Part nr. V0128  
Size: 400(h)x300(w)x155(d)mm

## On-site demo?

Nothing is more convincing than a practical demonstration. WaterVision has a demonstration team that can show you the effect in your own pool. Interested? Please feel free to contact us.

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## Easy to install

The WV17 & WV19 behind glass underwater floodlights can be installed quickly and easily. However, please note the following important points:

- Always keep the logo on the bottom when positioning the lamp.
- Use the strips supplied to position the lamp in the centre of the glass window using the size chart at the bottom of the page. These sizes apply to the WV19. The WV17 does not usually need a strip.
- Always position the fitting as far as possible against the glass window. This provides good air circulation around the fitting and ensures proper light distribution.

## WV17 dimensions



## WV19 dimensions



Mounting hole Ø	Strip length
355mm	169mm
365mm	189mm
375mm	208mm
385mm	226mm
395mm	242mm

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## Technical specifications

Part	Value
Operating voltage	WV17: 24V (DC) WV19: 24V (DC) and 220V (DC)
LED driver	Integrated in the lamp housing
Output	WV17: 80W, 120W WV19: 160W, 240W
Light output	NanoPower principle
Application	Swimming pools
Lighting colours	Bright White, Mediterranean Blue, RGBxW
Ambient temperature (C)	-20° to +42° (standard).
Safety features	Multiple safety features protect against overheating, voltage peaks and electromagnetic effects. Impact- and vibration-proof.
Material	Aluminium housing and acrylate light window
Cooling	Forced aircooling
Protection class	IP68; hermetically sealed, water seal at cable inlet.
Dimensions	WV17: 170 x 170 x 120 mm WV19: 170 x 170 x 255 mm

Part	Value
Dimmable	Optional
Safety class	III
Warranty	2 years
Conformity	CE
Country of origin	Netherlands



## Installation diagrams

24V / 320 Watt driver .....to N Watt



De WV19 is delivered plug-and-play. An additional driver is not necessary





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