

# VT 800 PL LED lighting system brochure



## VT 800 PL LED nuclear lighting system

**Radiation resistant lighting system for perfect illumination of large spent fuel pools from the air and under water**

### Features

- ▶ High illumination with an output of 95,000 lm
- ▶ Watertight up to 50 m
- ▶ Overheating protection
- ▶ LED light continuously dimmable
- ▶ High radiation resistant with optional non-browning glass
- ▶ Various frames and holders available, according to customer needs

### Applications

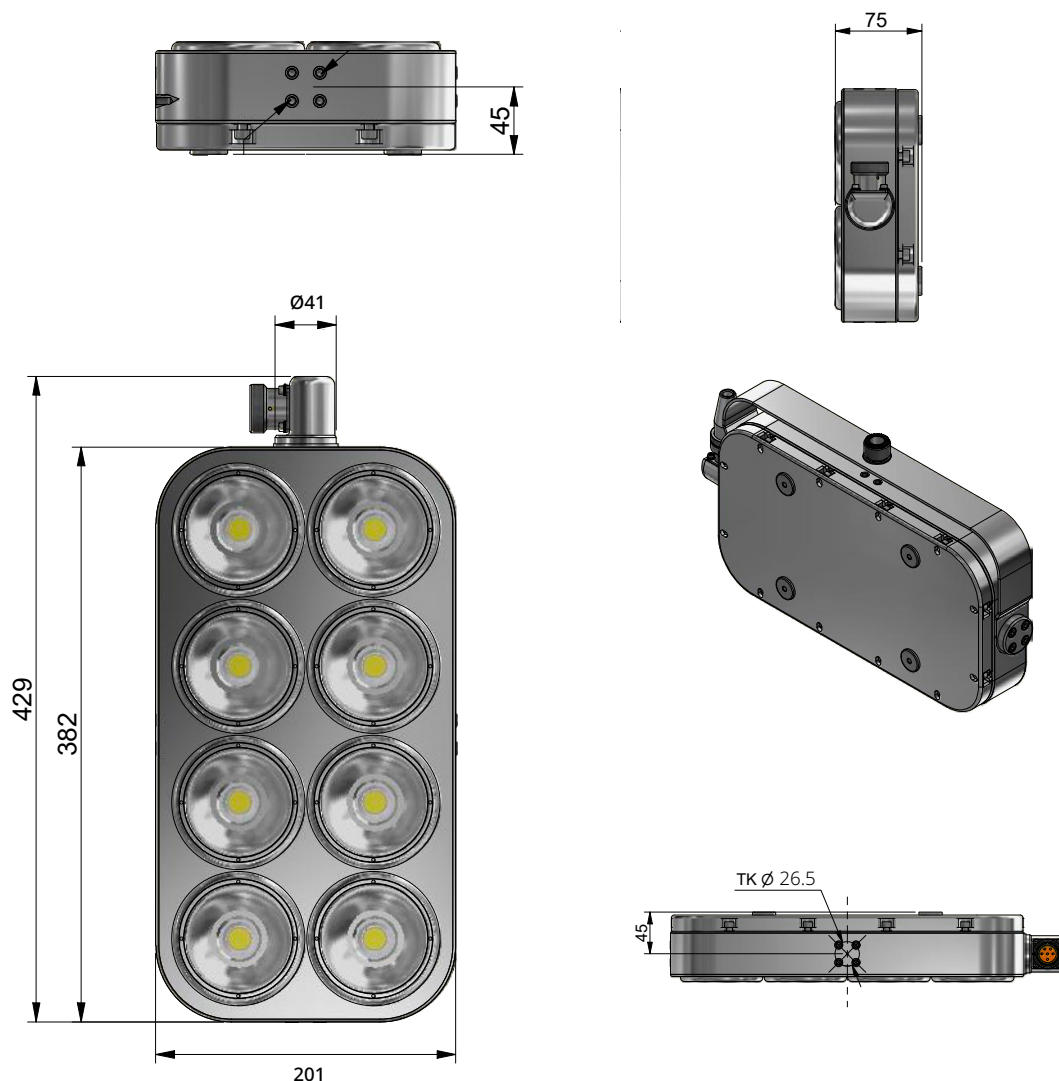
- ▶ Powerful, mobile lighting unit for illumination of all under-water and in-air applications where optimal visibility is needed
- ▶ Perfectly suited for all manners of longer illumination tasks in
  - ▶ reactor vessels or fuel pools
- ▶ Due to its internal temperature control features, it can also be used in-air with automatically controlled illumination intensity
- ▶ The FME approved design guarantees no loose parts in pool water

## Technical specifications - VT 800 PL LED lighting

This document is for general information only, please consult the system manual for detailed specifications

Material	stainless steel
Dimension (WxHxD)	429x201x75 mm
Weight	10.85 kg
Watertight	5 bar / 50 m
Lighting	8x LED
Luminous flux	95.000 lm
Automatic overheat protection	Step 1 over 80°C = 22,000 lm Step 2 over 90°C = 12,000 lm
Color tempereure	5.700 K
Lighting beam	36°
Operating temperature water	---
Operating temperature air	---
Radiation tolerant	192,500 rad/h (1,925 Gy/h)*
Total dose	4,810,000 rad (48,100 Gy)
Optionals	non-browning glass
*glass becomes brown	

\* unit in mm



# Setup

## Possible combinations



### 1 Lighting



VT 800 PL LED

### 2 Cabling



Cable drum with slip ring  
VT 800 PL SKT

\*similar picture



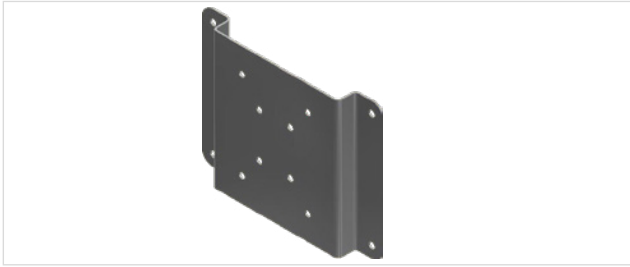
Cable  
VT 800 PL K

### 3 Control Unit



Control unit  
VT 800 PL CU

## Accessories



### Mounting panel (optional)

Customized brackets can be mounted on the back of the lighting system



### Mounting bracket (optional)

Mounting bracket with socket for the VT 29 GR carbon poles



### VT 29 carbon poles - 29 or 42 mm diameter

Connectable carbon poles for deployment of cameras and tools - standard lengths are 1 and 2 m



### Manhole holder

Versatile positioner for 29 or 42 mm carbon poles



### VT GH Vario tool holder

Variable railing bracket with stainless steel adapter for connecting the camera to 29 or 42 mm diameter carbon poles

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