# cool.Jacket 2.0

Active housing cooling: High Definition meets High Temperatures

### Datasheet.

### Features.

#### Compatible with

All ExCam of the VA2.X series

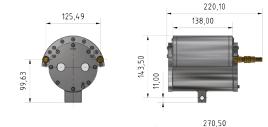
#### Conzept

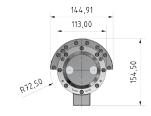
Intercooler-System for process water: The cooling element is flooded with cooling water. So the inside temperature is kept below the maximum permitted value of the camera module by the principle of heat exchange. So the functional ambient temperature range could be extended. The water flow could be controlled automatically or, if needed, manually.

## Dimensions.

### cool.Jacket-VA2.X

Rear view Side view right Front view





# Data.

Downgrade of the temperature class (of the camera) due to the increased ambient temperature

### **Mechanical Characteristics**

Range of Temperature

Aluminum EN AW 7075, PTFE (Teflon), Material:

brass, stainless steel

0°C to +120°C

Weight (cool.Jacket): 1.5 / 1.7 / 2.05 / 2.5 kg

-30°C to +120°C (optional) with antifreeze, ethanol-based

Water Supply

Optional:

Type of regulation: Unregulated (constant waterflow),

regulated or controlled Cooling appliance

(not in the scope of delivery) NW5 for 9 mm tube

NW5 for 9 mm tube Output: Medium: neutral water @ 20°C < 1bar

Volumetric flow rate:  $Q_{min} = 10 \text{ l/min}$ 

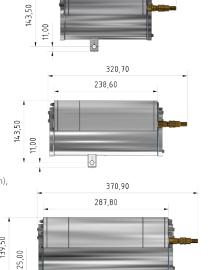
The customer has to ensure solid water supply and temperatures below 20° C at the inlet to the cool. Jacket. The unregulated variant is permanently flown through the supplying water. The water supply has to be manually turned off/on depending on hot and cold periods. Furthermore it has to be guaranteed that the exrelevant ambient temperature (of the camera) is not exceeded.

### **Physical Characteristics:**

Specific thermal conductivity: I = 130-160 W/(m\*K) c = 862 J/(m\*K)Specific heat capacity:

### Optional accessories:

Tubes, Insulation (Armaflex), Water cooling unit



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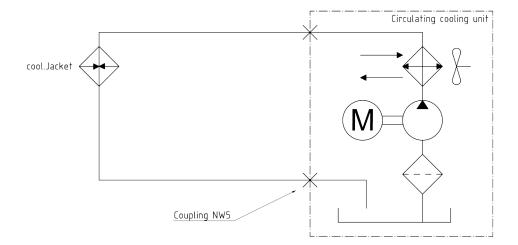




## Concept.

# Hydraulic plan.

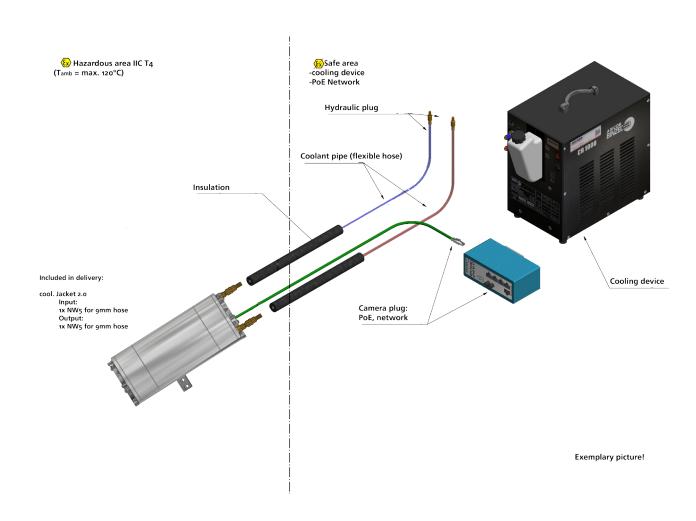
cool.Jacket-VA2.X





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