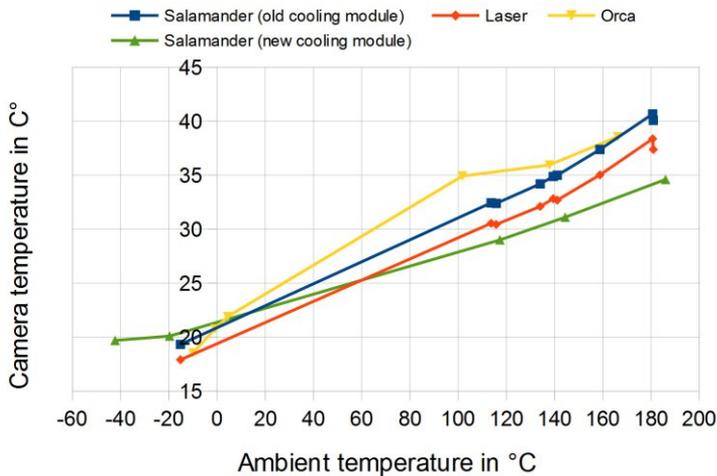## Benefits:
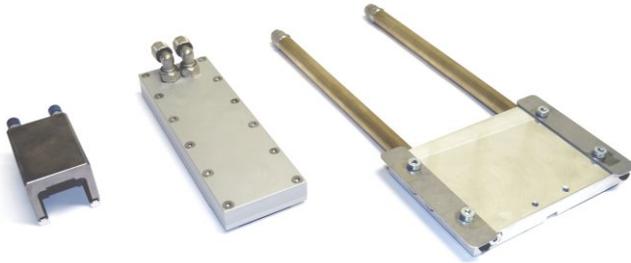
- Extends the temperature range
  for the use of cameras up
  to -50°C to +200°C
- Automatic cooling and heating
  therefore perfect for the use
  in climate chambers
- High efficiency
- Cooling or heating of up to five enclosures
  with one single Cooling Unit
- Manifold safety features
- No cooling liquid is pumped through the enclosure
  (exception: Mammoth cooling module)
- Easy handling

Camera and Laser temperature with water cooling

all values valid for our testing conditions only!

Legend: Salamander (old cooling module), Laser, Orca, Salamander (new cooling module)

X-axis: Ambient temperature in °C
Y-axis: Camera temperature in C°

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Laser Cooling Module	
Tube Connectors	4mm
Filling Capacity	Approx. 10ml
Dimensions (l x w x h)	90 x 28 x 35mm
Weight	Approx. 150g
Order Number	60.100.030

Please order divider 60.100.071 and 4mm tube 60.101.476 separately!

Standard Cooling Module	
Tube Connectors	1/4" (~8mm)
Filling Capacity	Approx. 40ml
Dimensions (l x w x h)	195 x 64 x 50mm min. enclosure M
Weight	Approx. 650g
Order Number	60.100.010

Mammoth Cooling Module	
Tube Connectors	1/4" (~8mm)
Filling Capacity	Approx. 40ml
Dimensions (l x w x h)	321x 160 x 16mm
Weight	Approx. 1250g
Order Number	60.100.020

Water Cooling Unit	High Power
Tube Connectors	1/4" (~8mm)
Volume Flow	3l/min
Max. Camera Distance	20m
Max. Pumping Height	2.5m
Input Voltage	12V/DC
Filling Capacity	Approx. 400ml
Max. Power Consumption	Approx. 25W
Max. Switching Power	Approx. 5W
Safety Features (incl. alarm function)	Constant monitoring of: - Camera temperature, flow and fan
Dimensions (l x w x h)	456 x 105 x 203mm
Weight	Approx. 5.40kg
Order Number	60.101.520
Leveling Feet for Cooling Unit Order Number	60.101.521

Included in the system:

- **Water Cooling Unit**
- **250ml cooling concentrate**
- **6m Polyurethane tube**
- **3m high temp. thermometer cable incl. sensor**
- **DC power cable**
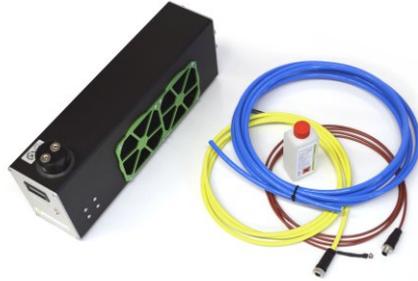
Accessories:

Product	Image	Order Number
8 x 1mm Polyurethane (PU) water tube, -20 to +80°C, filling capacity ~50ml/m, price per meter		60.101.478
6.35 x 9.5mm Polyurethane (PU) water tube, drag chain usable, -20 to +60°C, filling capacity ~40ml/m, price per meter		60.101.474
8 x 1mm Teflon high temperature water tube, -40 to +200°, filling capacity ~50ml/m, price per meter		60.101.477
Fitting to connect two 8 x 1mm water tubes		60.100.501
Quick disconnect coupling for two 8 x 1mm water tubes, 0 – 71°C, max. 8.3bar		60.101.480
Pressure control valve (TÜV safety valve) with connectors		60.101.479
Divider for parallel cooling of camera (8mm tube) and laser (4mm) enclosures		60.100.071
4 x 1mm Polyethylene (PE) water tube (Laser), -30°C to +80°C, price per meter		60.101.476
250ml cooling concentrate		60.101.333
Thermometer cable extension (>3m), price per meter		60.100.500
Power supply 12V/DC, 40W, Din rail mount		60.101.422

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Benefits:

- Controlled heating, no overheating possible
- High IP rating
- Numerous plates with one controller possible
- Easy handling
- Usable in combination with the sun roof

Product	Image	Order Number
Controlled heating plate for Orca/Gecko/Salamander from size S, IP65, incl. controller and 5m cable, 75W@24V/DC, operating temperature -40°C to +80°C.		70.100.018
Set of two heating plates for Orca/Gecko/Salamander from size S, IP65, with one controller and 5m cable, 75W@24V/DC, operating temperature -40°C to +80°C.		70.100.019

Sun Roof

Benefits:

- Highly reflective stainless steel
- Insulated to enclosure
- Easy assembly
- Adjustable position
- Usable in combination with electric heating plate

	Sun roof for Salamander and Gecko			Sun roof for Orca		
Size	S	M	L	S	M	L
Length	192mm	245mm	275mm	187mm	237mm	307mm
W x H	108 x 78mm	108 x 78mm	108 x 78mm	140 x 90mm	140 x 90mm	140 x 90mm
Weight	400g	480g	550g	490g	600g	770g
Order Number	20.010.001	20.010.002	20.010.003	20.011.001	20.011.002	20.011.003