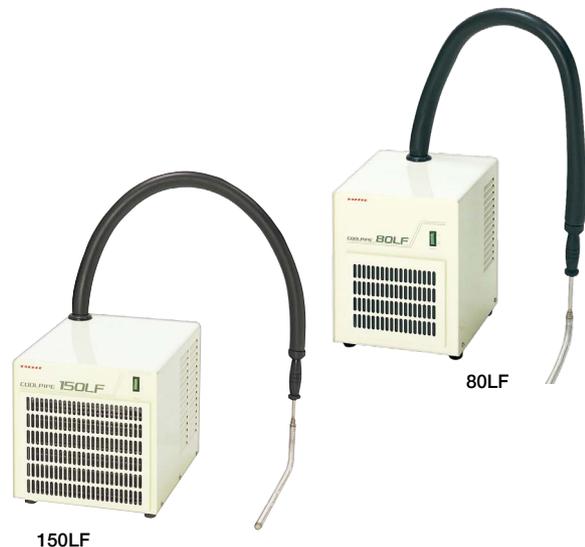


# Cool Pipe 80LF/150LF

Easy to insert the tip of the cooling pipe in the object for use. For making the Thermominder, a Low temp. constant bath and Cooling for trapping vessels for Concentrator.

•Unit water bath "Thermominder" in combination --> P.135



Model	80LF	150LF
Temperature range (*1)	-10°C to +30°C	-15°C to +30°C
Cooling capacity (*2)	Approx. 150 W	Approx. 290 W
Condenser (Air-cooled) output	80 W	150 W
Cooling Pipe Structure	Stainless steel Flexible tube	
Pipe Immersing part dim.	φ16 mm × 330 mm	φ16 mm × 500 mm
Pipe Thermal insulation length	1 m	
Unit Dimensions (WxDxH)	270 × 260 × 350 mm	310 × 410 × 320 mm
Weight	Approx. 21 kg	Approx. 28 kg
Power supply	AC100V/2.5A (Need a step-down transformer)	AC100V/4A (Need a step-down transformer)

(\*1) Not equipped with a Temperature control function. Use together with Thermominder, etc. if necessary. The Min. temp. may not be reached depending on the ambient temperature.

(\*2) The value under the conditions of ambient temp. 25°C and liquid temp. 10°C at 50 Hz.

•When using a temperature controller, the temp controller that controls the heater is recommended to protect the refrigerator.

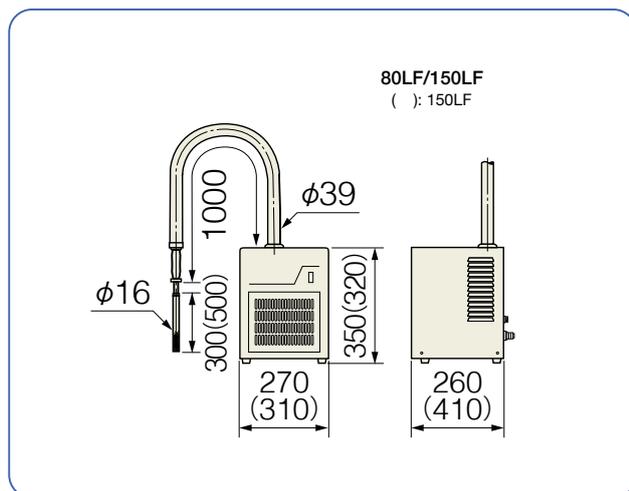
•Use a heater with capacity larger than cooling capacity of this product when using together Thermominder, etc.

•Use an antifreeze that does not corrode Stainless steel, Chemically and Thermally stable and a viscosity of below 30 mm<sup>2</sup>/s (specific gravity 1.0) in within operational temp. range

•Do not bend the Cooling pipe too much (Min bending radius is 50 mm for fixed bending). It may crack and cause gas leakage if bent forcibly. Do not immerse the heat insulation part of the Cooling pipe (the part where the black insulation material is wound) in liquid.

•Cannot be used with Seawater.

## Dimensions



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## Features

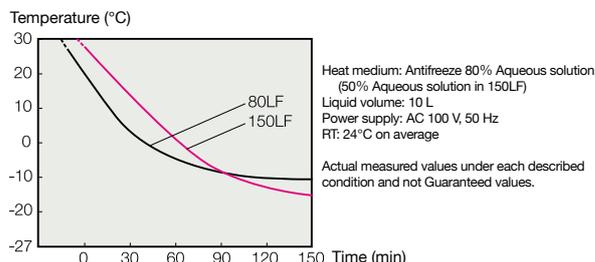
- Easy to insert the tip of the cooling pipe in the object for use
- Cooling pipe made of stainless steel and has movable flexibly
- Cooling function, but without the Temperature control function

## Applications

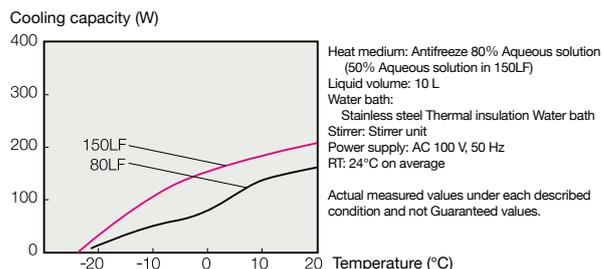
- Combined with Constant temperature Water bath
- Cooling for trapping vessels and Reaction container
- Cooling for Samples

## Cooling curve and Cooling capacity curve

### Cooling curve



### Cooling capacity curve



Heat medium: Antifreeze is "Showbrine Blue". See below for details.

## Optional accessories/Related products

Model	Descriptions
<b>Heat medium for Low temp. Showbrine Blue</b>	For below 7°C (Concentration 80% at around -40°C).