

## Flow-through Cooler / Fluid-Gas Heat Exchanger

### Flow-through Cooler

for cooling of loop circuits

The JULABO flow-through cooler is designed for applications below ambient temperature. The cooler is connected with tubing into the loop circuit, e.g. in the return line of a circulator. In combination with a heating circulator, almost every application can be equipped with cooling capability.

- Allows applications below ambient temperature with heating circulators and circulating pump
- Liquid flow through tubing into the cooler
- Environmentally friendly by saving precious tap water

#### Applications

For applications with heating circulators below the ambient temperature, integration into loop circuits



### FD200

<b>Order No.</b>	<b>9 655 825</b>	
<b>Model</b>	<b>FD200</b>	
Working temperature range °C	+10 ... +30	
Cooling capacity kW	<b>+20 °C</b> 0.22	<b>+10 °C</b> 0.18
Dimensions cm	W x L x H 18 x 27 x 39	

Included in delivery: two barbed fittings each for tubing 8 and 12 mm ID



### Fluid-Gas Heat Exchanger

<b>Order No.</b>	<b>8 810 100</b>	
<b>Model</b>	<b>Fluid-Gas Heat Exchanger</b>	
Working temperature range °C	-95 ... +210	
Gas OUT	-90 ... +200	
Gas IN	-40 ... +60	
Suitable fluids	JULABO Thermal, water, ethanol, water-glycol, silicon oil	
Viscosity max. cSt	30	
Housing material	Stainless steel	
Gas flow rate	l/min	0 ... 100
Pressure stability	bar	6
Gas connectors	In: 1/4" NPT quick connector Out: 1/4" NPT female	
Fluid connectors	M16 x 1 male	
Attachment	Flange with holes dia. = 6 mm	
Weight kg	1.3	
Dimensions cm	W x L x H 25.5 x 7 x 7.2	

### Fluid-Gas Heat Exchanger

The stainless steel design of the Fluid-Gas Heat Exchanger provides excellent resistivity against chemical effects. The specially developed insulation and the extraordinary design of the Fluid-Gas Heat Exchanger provide high efficiency at small overall dimensions.

#### The solution

The new JULABO Fluid-Gas Heat Exchanger merges the advantages of fluid based temperature control and your gas process requirements. Wide temperature ranges, high temperature stability, high stability against environmental effects.

#### Requirement of gas properties

nonflammable, non condensing, non corrosive

