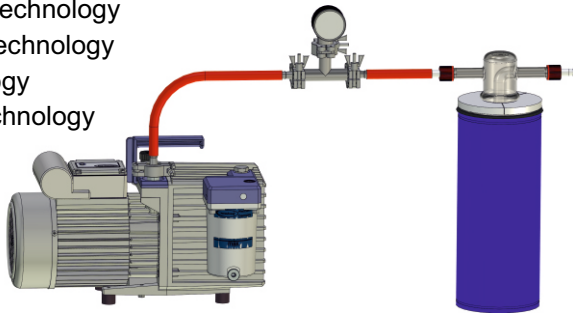


# Technical data sheet for cold traps / coldfinger type S29 with dewar flask made of glass

## Area of application

For condensing water, solvents or gases in connection with a vacuum pump

- laboratory technology
- medicinal technology
- biotechnology
- vacuum technology



Cold trap / Coldfinger  
Type KF 29-GL



Cold trap / Coldfinger  
Type KF 29-NW16

## Characteristics

- reliable and easy handling
- no stand material for holding the cold trap necessary
- Dewar flasks according to DIN 12492
- glass material according to ISO 3585 (DURAN)
- protective casing of Dewar flask made of blue coated metal or aluminum
- for liquid cooling agents, e.g. LN<sub>2</sub> (-196°C)
- for solid cooling agents CO<sub>2</sub> (-77°C) with solvent (CO<sub>2</sub>-wire basket necessary)
- pressure-free coolant sphere inside the Dewar flask

## Description of complete cold trap with Dewar flask

### Types and accessories

- C = blue-coated protective casing out of metal
- CAL = structured aluminium casing
- plastic ring = polyethylene (PE), white, two-parted
- connections for cold trap = flange KF NW, GI18 / olive, spherical joint S29 with and without o ring seal

### Temperature ranges for the Dewar flasks and the plastic ring

- glass refill from - 196°C to + 150°C
- plastic ring to + 100°C

### Pressure range in the cold trap

- up to 1 bar excess pressure
- vacuum up to 5x10<sup>-5</sup> mbar

## Description of the glass for the cold trap and the Dewar flask

### Material

- borosilicate glass 3.3 ISO 3585

### Chemical characteristics

- hydrolytic resistance: according to ISO 719 (98°C)
- hydrolytic resistance: according to ISO 720 (121°C)
- acid resistance: according to ISO 1776
- alkaline resistance: according to ISO 695-A2

### Physical characteristics

- linear expansion coefficient: 3,3 x 10<sup>-6</sup> 1/K (in between 20-300°C)
- density: 2,23 g/cm<sup>3</sup>
- specific thermal capacity: 910 J/kg K
- transformation temperature: 525°C



02.51.12.70.01

Batailler-labo.fr



Contact@batailler-labo.fr

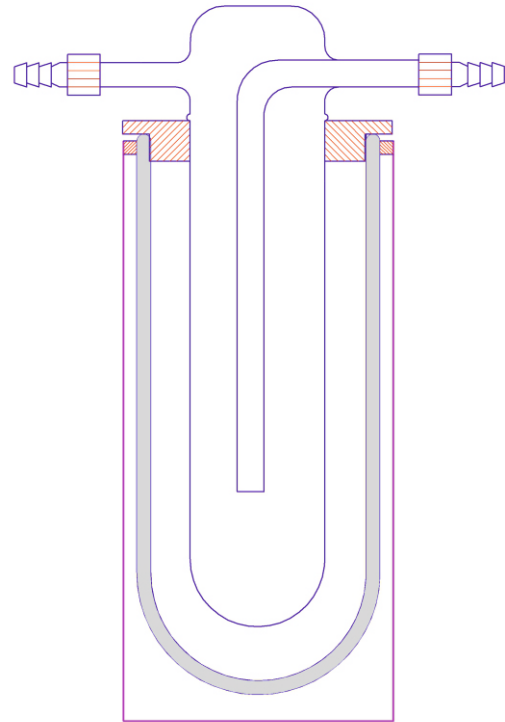
# Technical data sheet for cold traps / coldfinger type S29 with dewar flask made of glass

## Vacuum connections for the cold trap

- glass threads with screw-on cap and PTFE-olive, e.g. GL18
- vacuum glass flanges, e.g. KF NW 16
- plane flanges, e.g. DN 25
- conical ground joints NS 29/32
- spherical ground joints S 29
- spherical ground joints Rotulex S 29 with O-ring seal

## Safety advises and regulations

- always wear protective glasses and protective gloves
- national regulations for laboratories
- company-internal regulations
- safety regulations for handling with liquid gases
- Pressure calculation according to "AD Merkblätter"



## Dimensions and article numbers of standard cold traps

cold trap completely	condensate	coolant	dewar	cold trap
Type	theoret.Vol.	theoret.Vol.	Type	connection
Type KF 29-K	150 ml	1000 ml	12 C	S 29
Type KF 29-OK	150 ml	1000 ml	12 C	O 29
Type KF 29-GL	150 ml	1000 ml	12 C	GL 18
Type KF 29-NW16	150 ml	1000 ml	12 C	NW16
Type KF 29-NW25	150 ml	1000 ml	12 C	NW25
Type KFL 29-K	250 ml	2000 ml	18 C	S 29
Type KFL 29-OK	250 ml	2000 ml	18 C	O 29
Type KFL 29-GL	250 ml	2000 ml	18 C	GL 18
Type KFL 29-NW16	250 ml	2000 ml	18 C	NW16
Type KFL 29-NW25	250 ml	2000 ml	18 C	NW25

spare coldfinger
coldfinger S 29
coldfinger S 29 O
coldfinger S 29 GL
coldfinger S 29 NW16
coldfinger S 29 NW25
coldfinger SL 29
coldfinger SL 29 O
coldfinger SL 29 GL
coldfinger SL 29 NW16
coldfinger SL 29 NW25



02.51.12.70.01

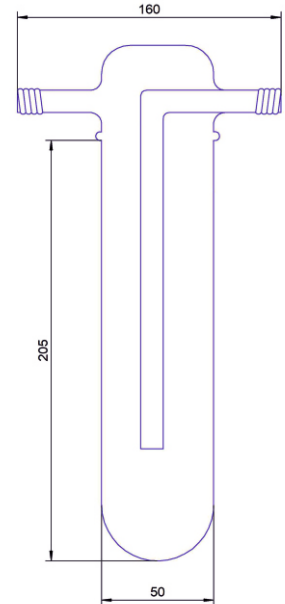
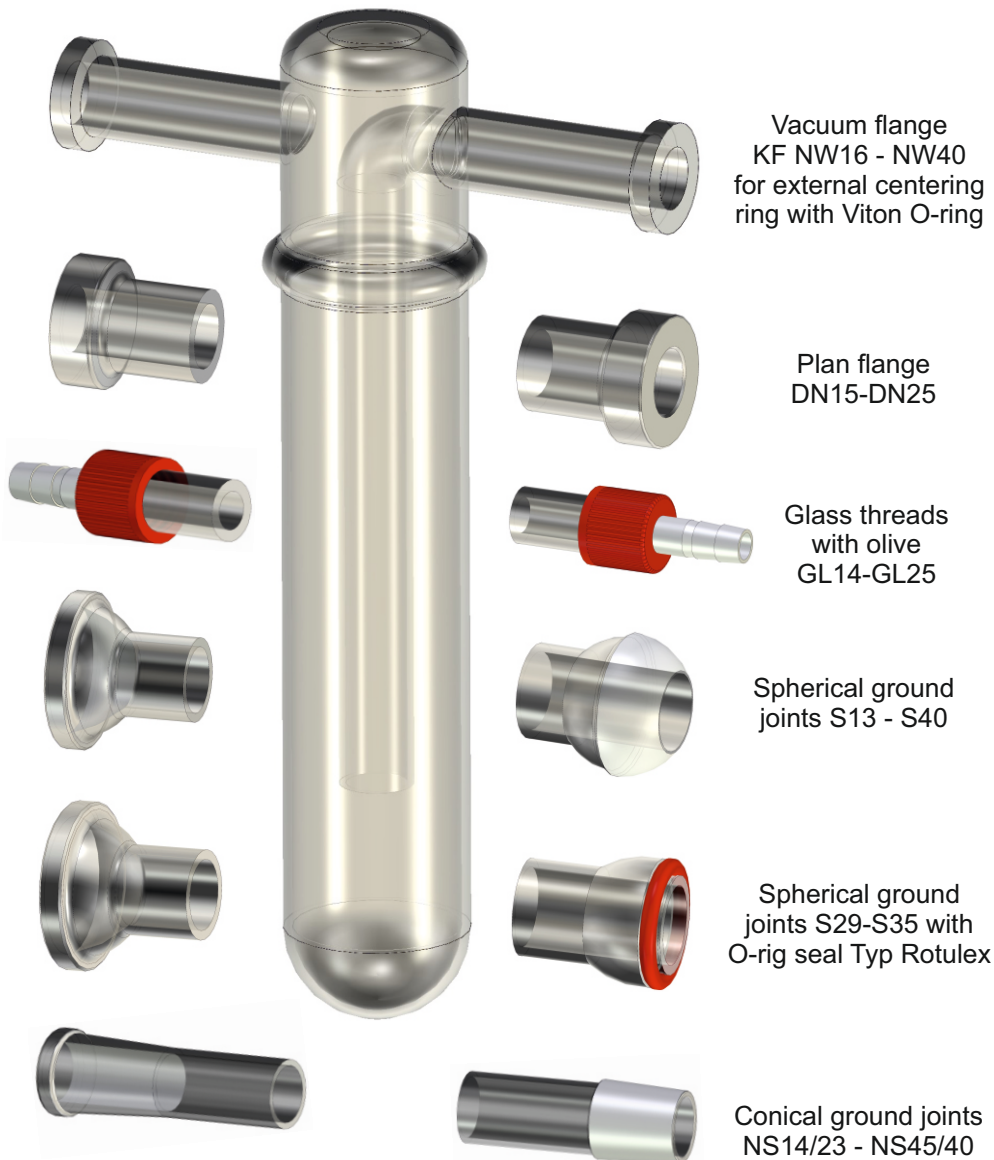
Batailler-labo.fr



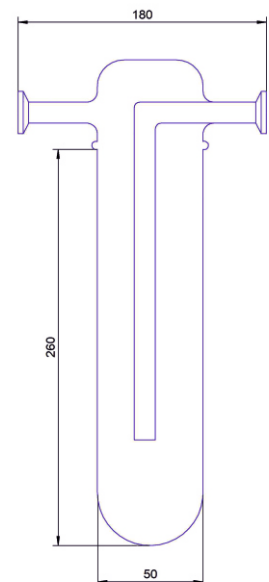
Contact@batailler-labo.fr

# Technical data sheet for cold traps / coldfinger type S29 with dewar flask made of glass

## Connection variants cold traps

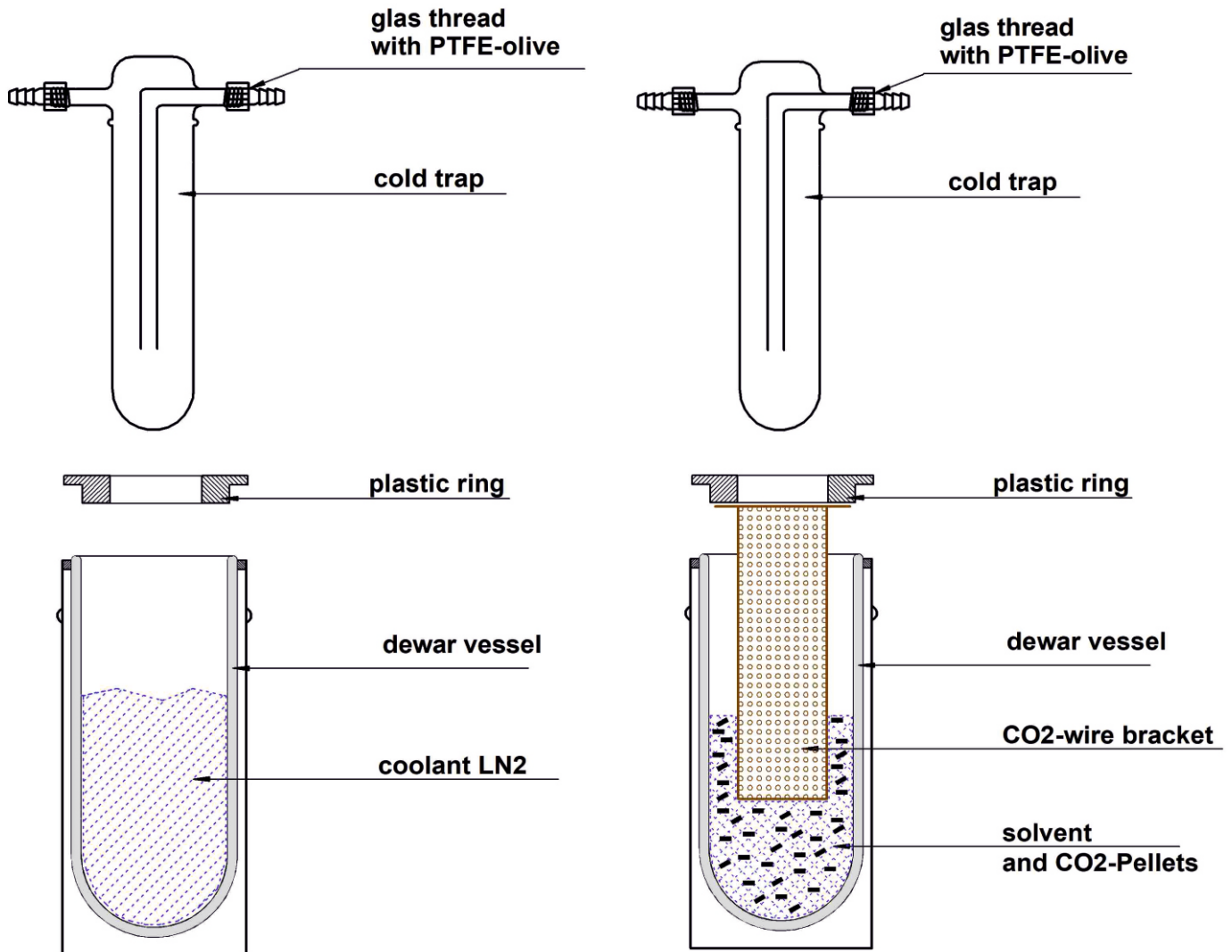


Cold trap / Coldfinger Type S 29-GL18



Cold trap / Coldfinger Type SL 29-NW16

## Technical data sheet for cold traps / coldfinger type S29 with dewar flask made of glass



CO2-wire bracket for  
dewar vessel Type

12 C

18 C