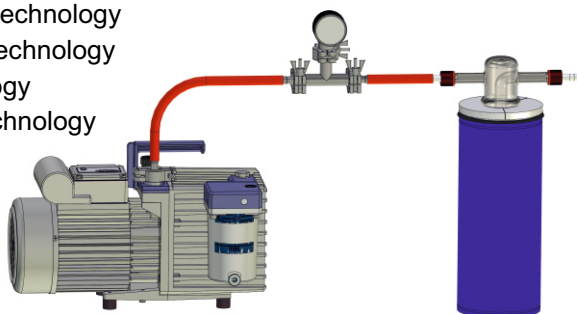


Technical data sheet for cold traps / coldfinger type S29 with dewar flask made of glass

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

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. LN₂ (-196°C)
- for solid cooling agents CO₂ (-77°C) with solvent (CO₂-wire basket necessary)
- pressure-free coolant sphere inside the Dewar flask



Cold trap / Coldfinger
Type KF 29-NW16

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 5x10⁻⁵ 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 10⁻⁶ 1/K
(in between 20-300°C)
- density: 2,23 g/cm³
- specific thermal capacity: 910 J/kg K
- transformation temperature: 525°C



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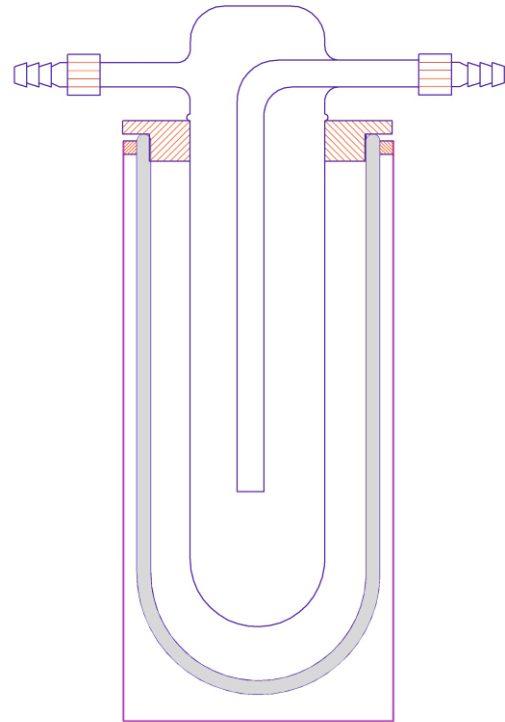


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Vacuum connections for the cold trap

- 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	Art. No.	spare coldfinger
Type	theoret.Vol.	theoret.Vol.	Type	connection		
Type KF 29-K	150 ml	1000 ml	12 C	S 29	1731	coldfinger S 29
Type KF 29-OK	150 ml	1000 ml	12 C	O 29	1735	coldfinger S 29 O
Type KF 29-GL	150 ml	1000 ml	12 C	GL 18	1740	coldfinger S 29 GL
Type KF 29-NW16	150 ml	1000 ml	12 C	NW16	1731-NW16	coldfinger S 29 NW16
Type KF 29-NW25	150 ml	1000 ml	12 C	NW25	1731-NW25	coldfinger S 29 NW25
Type KFL 29-K	250 ml	2000 ml	18 C	S 29	17360	coldfinger SL 29
Type KFL 29-OK	250 ml	2000 ml	18 C	O 29	17361	coldfinger SL 29 O
Type KFL 29-GL	250 ml	2000 ml	18 C	GL 18	17362	coldfinger SL 29 GL
Type KFL 29-NW16	250 ml	2000 ml	18 C	NW16	17360-NW16	coldfinger SL 29 NW16
Type KFL 29-NW25	250 ml	2000 ml	18 C	NW25	17360-NW25	coldfinger SL 29 NW25



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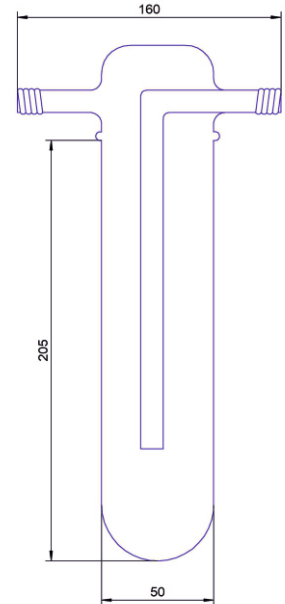
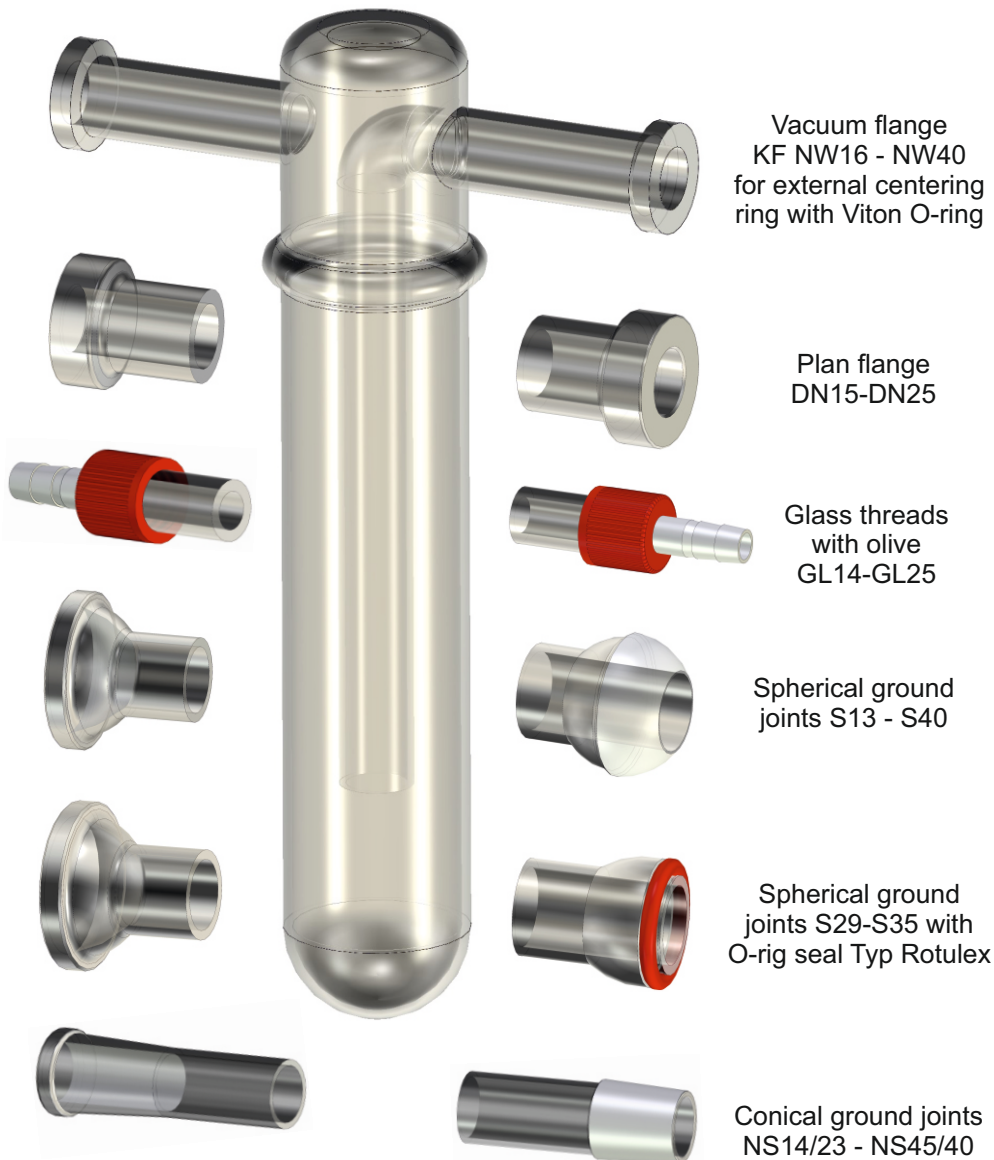
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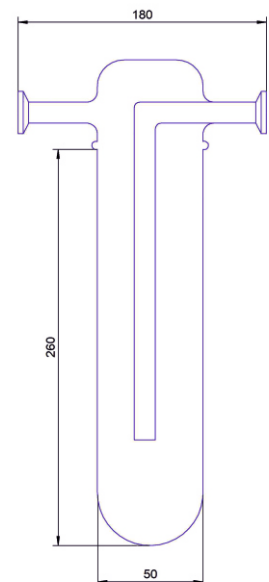
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Connection variants cold traps



Cold trap / Coldfinger Type S 29-GL18



Cold trap / Coldfinger Type SL 29-NW16



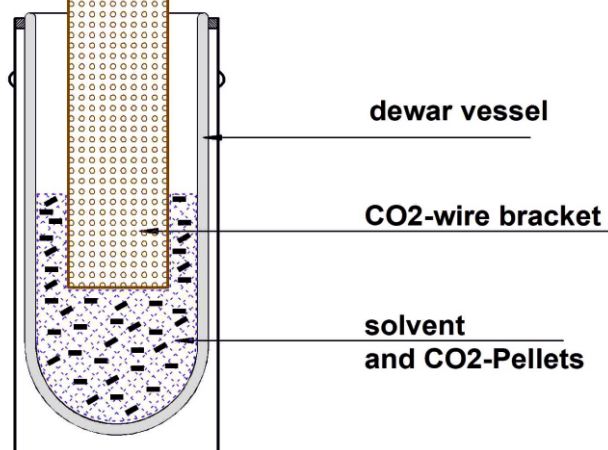
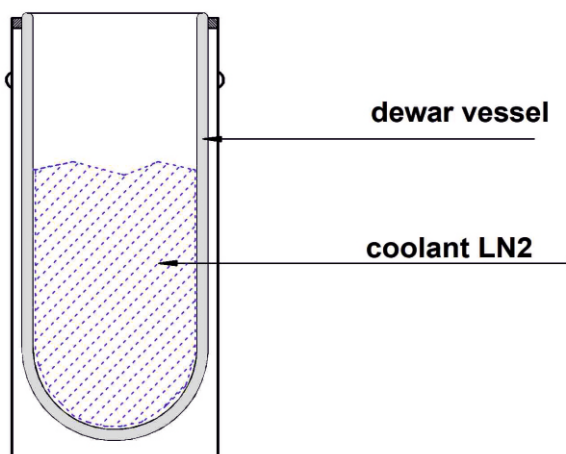
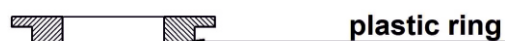
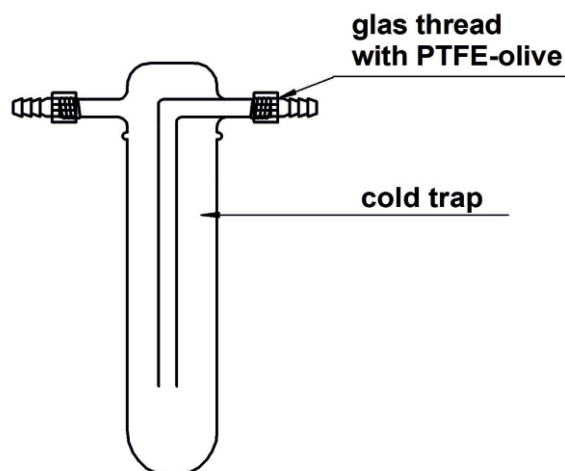
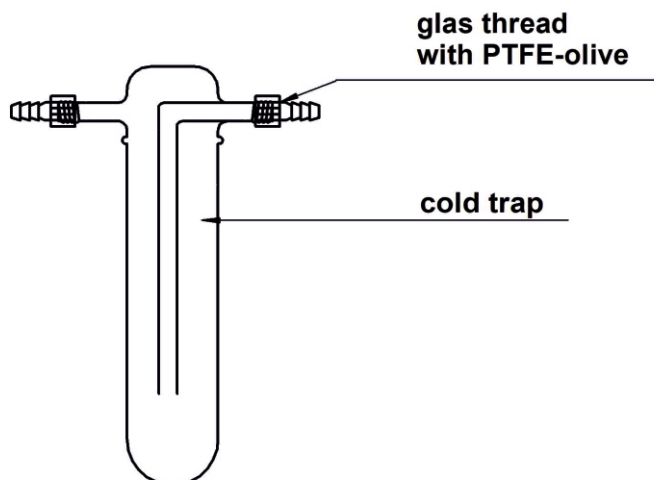
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CO2-wire bracket for
dewar vessel Type

12 C

18 C