

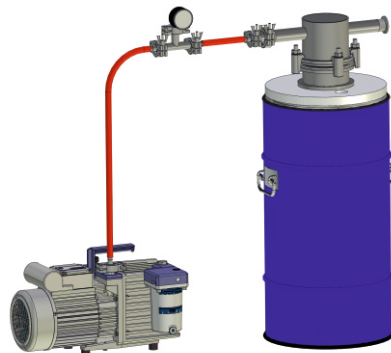


Technical data sheet for cold traps / cold finger made of stainless steel Type ISO-K-100-Z with Dewar flask

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 ISO-K100-Z-33C

Characteristics

- baffles for optimized condensation
- reliable and easy handling
- no stand material for holding the cold trap necessary
- Dewar flasks made of glass according to DIN EN ISO16496
- protective casing of glass Dewar flask made of blue coated metal, aluminum stucco or stainless steel
- for liquid cooling agents, e.g. LN2 (aprox. -196°C)
- for solid cooling agents CO2 with solvent (CO2-wire basket necessary)



Cold trap / Cold finger
Type KF ISO-K100-Z-
33CAL-CO2



Cold trap / Cold finger
Type KF ISO-K100-Z-
DSS-D250/450

Description of the Dewar flasks

Dewar flask Type 33C / 33CAL

(DURAN) Borosilicate glass 3.3 ISO 3585 (DURAN)
pressure-free coolant sphere inside the Dewar flask

Dewar flask Type DSS-D250/450

stainless steel
pressure-free coolant sphere inside the Dewar flask

Plastic ring = PE, white, two-parted

Description of the cold trap

connectors of the cold trap: KF NW 25
cold trap two-parted with ISO-K 100

Cold trap material

V2A / 1.4301 (1.4404 on request)

Pressure range of the cold trap

up to 1 bar excess pressure
vacuum up to 10^{-6} mbar

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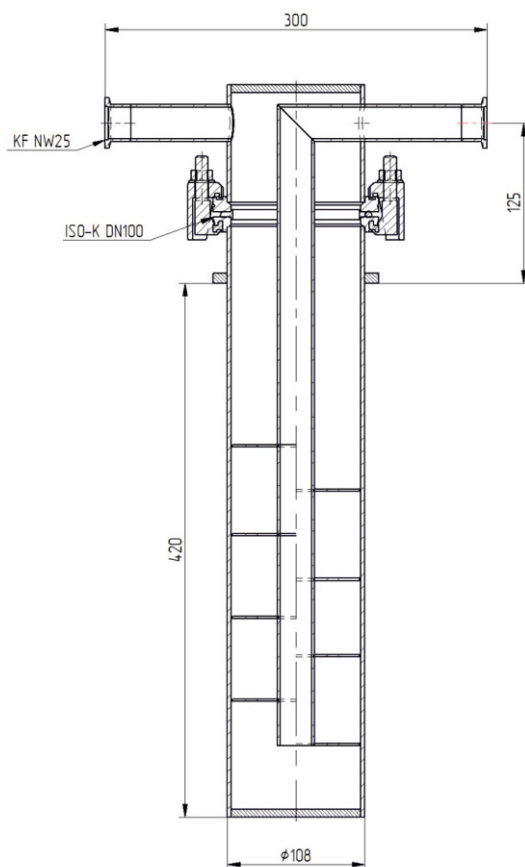
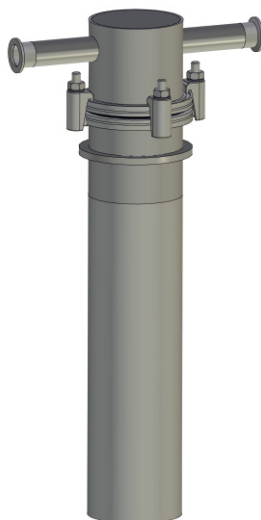


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Safety advises and regulations

- 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"

Cold finger Type ξ



Technical and order data for cold traps

Cold traps complete	Condensate capacity	Coolant capacity	Dewar Type	Cold trap joints	Art. No.
Typ ISO-K100-Z-33C	1,5 l	16 l	33 C	KF NW 25	17150
Typ ISO-K100-Z-DSS-D250/450	1,5 l	18 l	DSS-D250/450	KF NW 25	17151

Spare parts	Article.No.
cold finger S-K100-Z	17154
Dewar made of glas Type 33C	1244
Dewar made of stainless steel DSS-D 250/450	2407
Plastic ring for Type 33	17155
Plastic ring for Type DSS-D250/450	17156
claw clamp for S-K100Z	17159
O-ring with centerring ring for ISO-K100	17160

Cold finger Type S-K100-Z
two sections

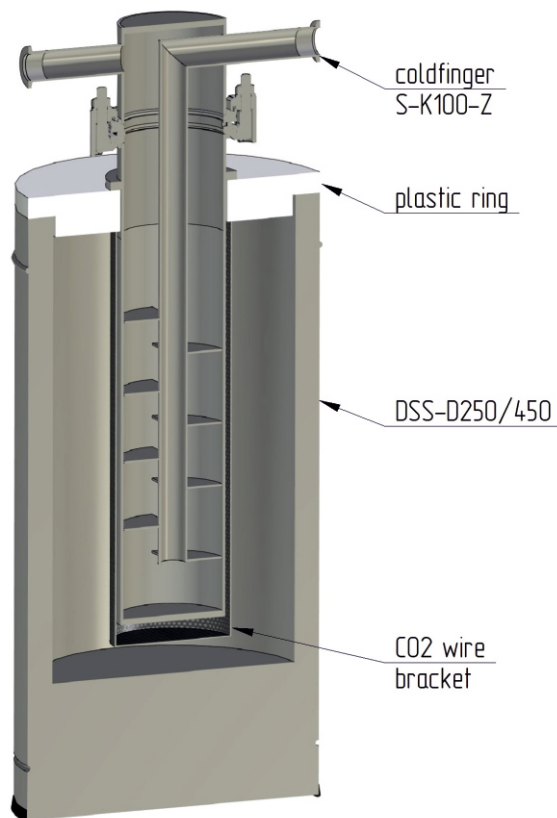




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Dewar with CO2-wire basket
and plastic ring



Cold traps complete	Condensate capacity	Coolant capacity	Dewar Type	Cold trap joints	Art. No.
Typ ISO-K100-Z-33CAL-CO2	1,5 l	16 l	33 CAL	KF NW 25	17152
Typ ISO-K100-Z-DSS-D250/450-CO2	1,5 l	18 l	DSS-D250/450	KF NW 25	17153

Spare parts	Article.No.
cold finger S-K100-Z	17154
Dewar made of glas Type 33CAL	1254
Dewar made of stainless steel DSS-D 250/450	2407
Plastic ring for Type 33	17155
Plastic ring for Type DSS-D250/450	17156
claw clamp for S-K100Z	17159
O-ring with centerring ring for ISO-K100	17160
CO2-Gitter für Auflagering 33 für V2A Kühlfalle	17157
CO2-Gitter für Auflagering DSS-D für V2A Kühlfalle	17158

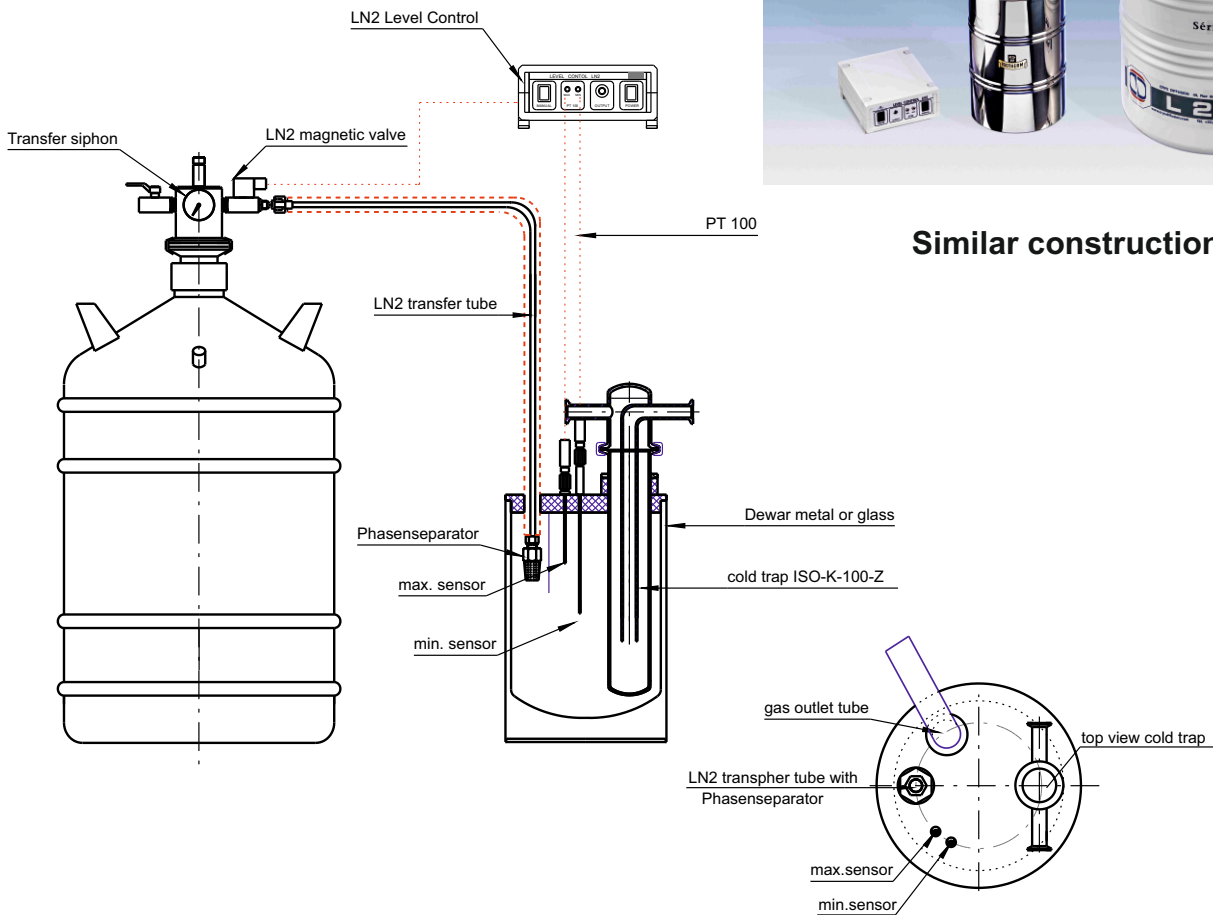


CO2-wire
basket with
plastic ring
(two-parted)

Automatic LN2 filling system with a cold trap ISO-K-100-Z

consisting of:

- 1) LN2 vessel.
- 2) Transfer siphon with safety valve and LN2 magnetic valve.
- 3) LN2 transfer tube with phase separator and insulating.
- 4) LN2 level controller with cable and two PT100 sensors, metal covered.
- 5) Dewar vessel made of stainless steel or glass.
- 6) Lid with screw connections and distance ring for cold trap.
- 7) Cold trap type ISO-K-100-Z
- 8) Gas outlet tube made of glass, vacuum insulated.



Similar construction type

The level control works as follows:

The minimum sensor sends a signal to the Level Control as soon as the LN2 level sinks below it. The Control opens the 24 Voltage solenoid valve, then. LN2 will be withdrawn by existing over pressure inside of the LN2 storage container and is led through a transfer line into the cold trap Dewar flask. LN2 is now running into the cold trap Dewar flask until the maximum sensor dives into it. Then, the maximum sensor will be cooled down and sends signal to the Level Control. It will interrupt the power supply of the solenoid valve. It closes automatically. The LN2 supply is now stopped. This above mentioned procedure will be repeated after some time as soon as the level sinks under the minimum sensor again.