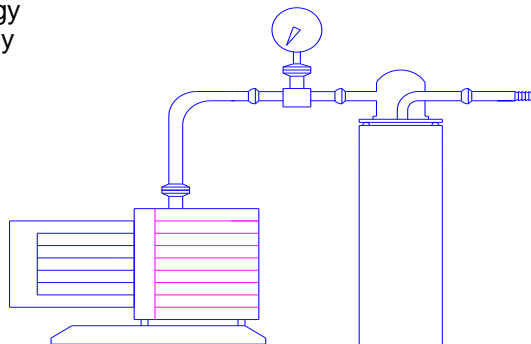


Technical data sheet for cold traps made of stainless steel Type KF54V with Dewar flask

Area of application

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

- laboratory technology
- medicinal technology
- biotechnology
- vacuum technology



Characteristics

- reliable and easy handling
- no stand material for holding the cold trap necessary
- Dewar flasks according to DIN 12492
- protective casing of Dewar flask made of blue coated metal, aluminum stucco or stainless steel
- for liquid cooling agents, e.g. LN₂
- for solid cooling agents CO₂ with solvent (CO₂-wire basket necessary)
- pressure-free cooling sphere inside the Dewar flask



Cold trap with Dewar flask
Type KF54V-K16-Z-18C



Cold trap with Dewar flask
Type KF54V-K16-Z-DSS2000

Description of the Dewar flasks

Dewar flask Type 18 C

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

Dewar flask Type DSS 2000

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 16
cold trap two-parted with KF NW 50

Cold trap material

V2A / 1.4301

Pressure range of the cold trap

up to 3 bar excess pressure
vacuum up to 10⁻⁶ mbar

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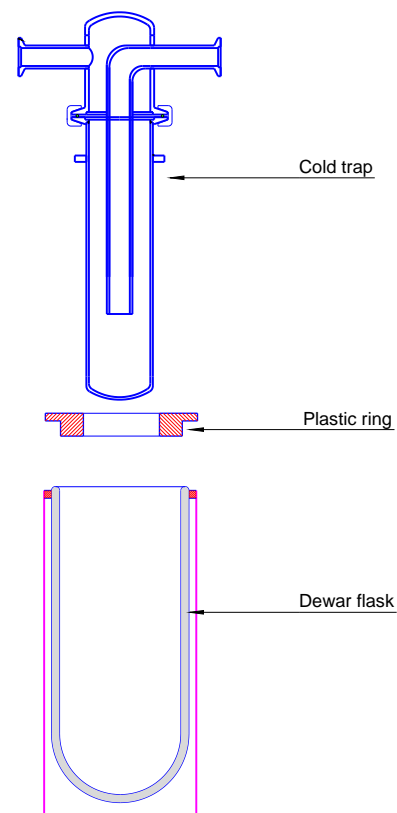


Technical data sheet for cold traps made of stainless steel Type KF54V with Dewar flask

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 trap Type S 54V-K16



Technical and order data for cold traps

Cold traps complete	Condensate capacity	Coolant capacity	Dewar Type	Cold trap joints	Art. No.
Typ KF 54V-K16-Z-18C	200 ml	1,6 Liter	18 C	KF NW 16	17110
Typ KF 54V-K16-Z-DSS2000	200 ml	1,2 Liter	DSS 2000	KF NW 16	17111

Spare parts	Art. No.
Cold trap S 54V-K16-Z	17115
Dewar made of glass Type 18 C	10220
Plastic ring, two-parted for Type 18 C	17116
Dewar made of stainless steel Type DSS 2000	2103
Plastic ring, two-parted for Type DSS 2000	17117

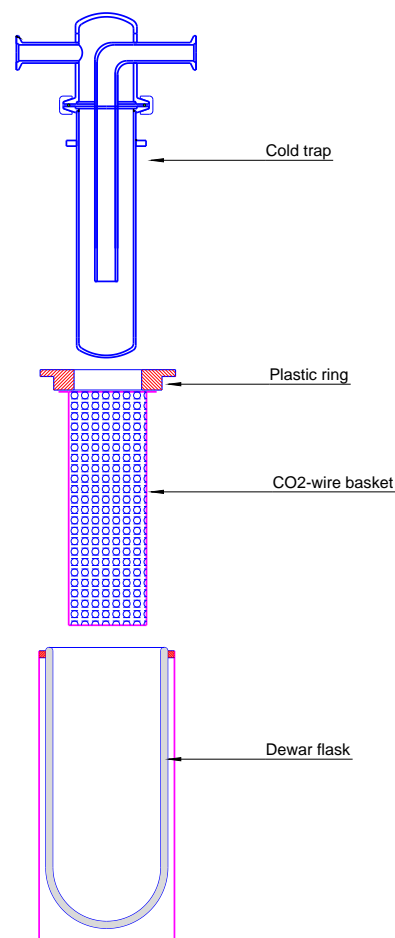


cold trap two-parted

Technical data sheet for cold traps made of stainless steel Type KF54V with Dewar flask



Dewar with CO₂-wire basket and plastic ring



Cold traps complete with CO ₂ wire basket	Condensate capacity	Coolant capacity	Dewar Type	Cold trap joints	Art. No.
Typ KF 54V-K16-Z-18C-CO ₂	200 ml	1,6 Liter	18 C	KF NW 16	17130
Typ KF 54V-K16-Z-DSS2000-CO ₂	200 ml	1,2 Liter	DSS 2000	KF NW 16	17131

Spare parts	Art. No.
Cold trap S 54V-K16-Z	17115
Dewar made of glass Type 18 C	10220
Plastic ring, two-parted for Type 18 C with wire basket	17120
Dewar made of stainless steel Type DSS 2000	2103
Plastic ring, two-parted for Type DSS 2000 with wire basket	17121



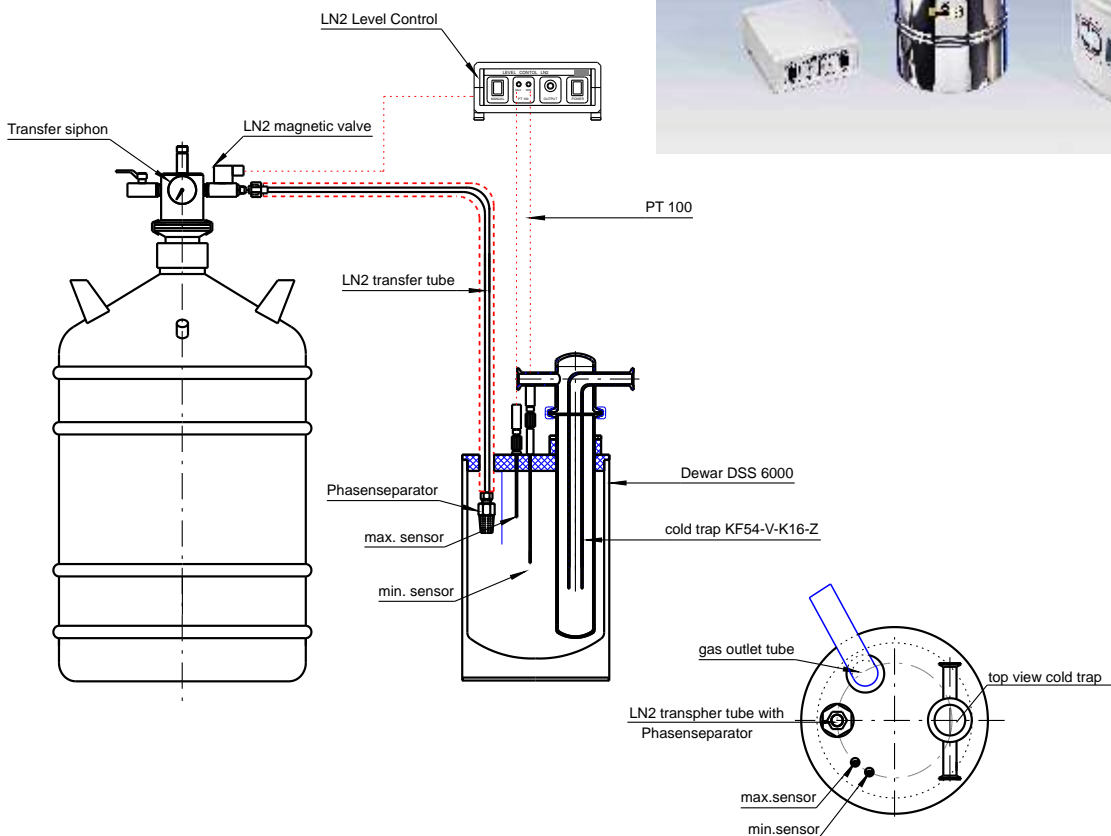
CO₂-wire basket with plastic ring (two-parted)

Automatic LN2 filling system with a cold trap KF54-V-K16-Z-DSS2000

consisting of:

- 1) LN2 Aluminium vessel with 35 Litre volume.
- 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 DSS 6000.
- 6) Lid with screw connections and distance ring for cold trap.
- 7) Cold trap type KF54-V-K16-Z
- 8) Gas outlet tube made of glass, vacuum insulated.

Best. Nr.: 2750



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.