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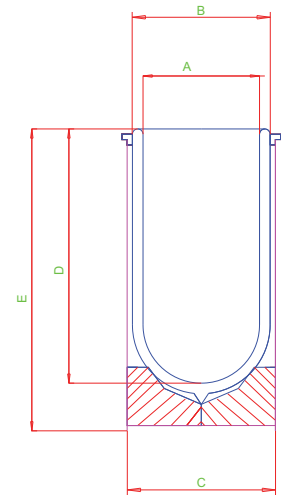
Dewar flasks cylindrical



Typ C



Typ G-C



Technical specification							LN2					
Type	max.capacity ca. [ml]	A mm	B mm	C mm	D mm	E mm	evapoation rate ca. [Liter / day]	Type	Art. No.	Type	Art. No.	
00 C	100	40	56	63	90	135	0,3	00 C	1021			
0 C	200	40	56	63	170	215	0,2	0 C	1022	G 0 C	1061	
1 C	300	47	60	72	190	240	0,2	1 C	1023	G 1 C	1062	
2 C	450	47	60	72	270	310	0,25	2 C	1024	G 2 C	1063	
3 C	500	57	70	81	210	260	0,35	3 C	1025	G 3 C	1064	
4 C	750	57	70	81	310	370	0,3	4 C	1026	G 4 C	1065	
5 C	1250	57	70	81	500	550	0,25	5 C	1027			
6 C	800	67	80	90	240	295	0,35	6 C	1028	G 6 C	1066	
7 C	1200	67	80	90	350	395	0,3	7 C	1029	G 7 C	1067	
8 C	1700	67	80	90	500	560	0,3	8 C	10210			
9 C	1000	77	95	105	235	290	0,35	9 C	10211	G 9 C	1068	
10 C	1500	77	95	105	345	395	0,4	10 C	10212	G 10 C	1069	
11 C	2100	77	95	105	500	550	0,4	11 C	10213			
12 C	1500	90	115	124	245	300	0,5	12 C	10214	G 12 C	10610	
13 C	2000	90	115	124	340	390	0,5	13 C	10215	G 13 C	10611	
14 C	3200	90	115	124	600	665	0,45	14 C	10216			
15 C	1500	100	120	130	240	300	0,7	15 C	10217	G 15 C	10612	
16 C	2000	100	120	130	290	345	0,6	16 C	10218	G 16 C	10613	
17 C	4000	100	120	130	600	660	0,65	17 C	10219			
18 C	2500	110	130	140	290	345	0,7	18 C	10220	G 18 C	10614	
19 C	5000	110	130	140	600	660	0,6	19 C	10221			
20 C	3000	138	160	165	230	280	1,2	20 C	10222	G 20 C	10615	
S 21 C	4000	138	160	165	310	375	1,0	S 21 C	10223	GS 21 C	10616	
S 22 C	8000	138	160	165	600	660	0,9	S 22 C	10224	GS 22 C	10617	

Characteristics

Dewar flasks made of Borosilikatglass 3.3 DIN/ISO 3585, for storing and transporting of LN2, CO2 and other cooling liquids. Temperature range from -200 to +200°C.

The Dewar flasks are vacuum insulated and silvered. They have a blue coated metal cover.

Standard versions

Type C = cylindrical with cover

Type G-C = cylindrical with cover and side grip

Custom made versions

Dewar flasks with viewing strips

Dewar flasks shortened

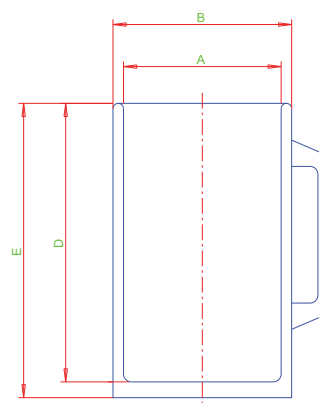
Dewar flasks made of stainless steel



Type GSS



Type DSS

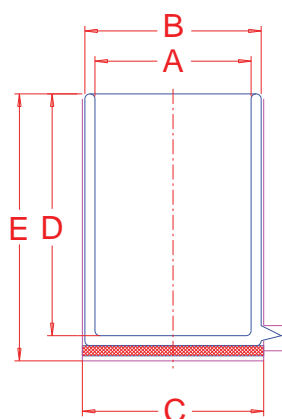


Technical specification							LN2				
Type	capacity	A	B	D	E	evaporation rate	Type	Art.No.	Type	Art.No.	
	ca. [ml]	mm	mm	mm	mm	ca. [L / d]					
GSS 500	500	65	87	180	203	1,0	GSS 500	2304	DSS 500	2100	
GSS 1000	1000	85	107	206	231	0,9	GSS 1000	2300	DSS 1000	2101	
GSS 1000 W	1000	100	122	157	177	1,6	GSS 1000 W	2301	DSS 1000 W	2102	
GSS 2000	2000	100	122	285	312	1,1	GSS 2000	2303	DSS 2000	2103	
GSS 3000	3000	185	200	160	190	3,1	GSS 3000	2302	DSS 3000	2104	
GSS 6000	6000	185	200	270	300	2,9	GSS 6000	2305	DSS 6000	2105	

Characteristics

The Dewar flasks are made of stainless steel and vacuum insulated. The Dewar flasks type GSS have a side grip and a handle. The flasks type DSS have only a handle. The Dewar flasks have a temperature range from -200 to +200°C.

Dewar flasks with flat bottom

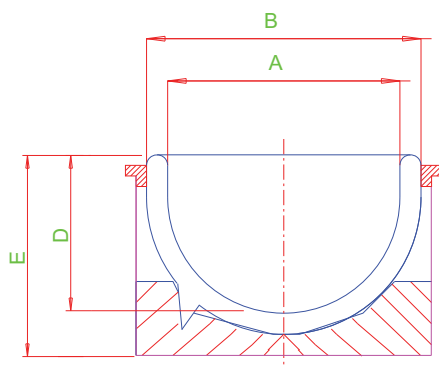


Characteristics

Dewar flasks made of Borosilikatglass 3.3 DIN/ISO 3585, for storing and transporting of LN2, CO2 and other cooling liquids. Temperature range from -200 to +200°C. The Dewar flasks have a flat bottom and they are vacuum insulated and silvered. They have a Stucco aluminum cover. The cover is antimagnetic and stainless.

Technical specification							LN2		
Type	capacity	A	B	C	D	E	evaporation rate	Type	Art.No.
	ca. [ml]	mm	mm	mm	mm	mm	ca. [L / d]		
FB 0 CAL	150	37	50	58	140	170	0,25	FB 0 CAL	1151
FB 1 CAL	250	47	60	72	140	170	0,35	FB 1 CAL	1152
FB 3 CAL	450	57	70	81	185	220	0,35	FB 3 CAL	1153
FB 6 CAL	650	67	80	90	185	220	0,4	FB 6 CAL	1154
FB 9 CAL	850	77	95	105	185	220	0,55	FB 9 CAL	1155
FB 12 CAL	1200	90	115	124	185	225	0,7	FB 12 CAL	1156
FB 18 CAL	2100	107	130	140	235	275	0,9	FB 18 CAL	1157

Dish- shaped Dewar flasks



Characteristics

Dewar flasks made of Borosilikatglass 3.3 DIN/ISO 3585, for storing and transporting of LN₂, CO₂ and other cooling liquids. Temperature range from -200 to +200°C. The Dewar flasks is vacuum insulated and silvered. They have a Stucco aluminum cover. The cover is antimagnetic and stainless.

Type SCH 9 CAL

Type	max. capacity ca. [ml]	A mm	B mm	C mm	D mm	E mm	Type	article No.	Type	article No.
SCH 6 CAL	80	67	80	90	40	75	SCH 6 CAL	1191	SCH 6 C-E	1191 E
SCH 9 CAL	120	77	95	110	50	90	SCH 9 CAL	1192	SCH 9 C-E	1192 E
SCH 15 CAL	260	100	120	130	65	110	SCH 15 CAL	1193	SCH 15 C-E	1193 E
SCH 18 CAL	400	110	130	138	70	115	SCH 18 CAL	1194	SCH 18 C-E	1194 E
SCH 20 CAL	680	138	160	170	80	125	SCH 20 CAL	1195	SCH 20 C-E	1195 E
SCH 30 CAL	1600	170	205	215	110	145	SCH 30 CAL	1196	SCH 30 C-E	1196 E
SCH 31 CAL	3000	200	230	238	125	160	SCH 31 CAL	1197	SCH 31 C-E	1197 E
SCH 33 CAL	5800	250	280	292	150	195	SCH 33 CAL	1198	SCH 33 C-E	1198 E

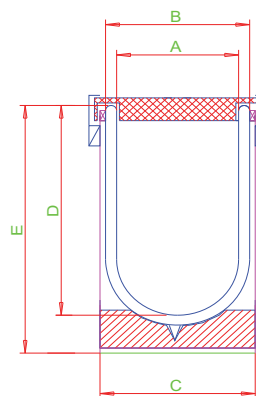
Dewar carrying flasks



Type B



Type B-E



Technical specification							LN ₂			
Type	capacity ca. [L]	A mm	B mm	C mm	D mm	E mm	evaporation rate ca. [L / d]	Type	article No.	Type
26 B (26BE)	1	100	120	130	150	215	1,1	26 B	1211	26 BE
27 B (27BE)	2	138	160	165	170	245	1,7	27 B	1212	27 BE
28 B (28BE)	3	138	160	165	230	305	1,5	28 B	1213	28 BE
29 B (28BE)	4	138	160	165	310	385	1,3	29 B	1214	29 BE

Characteristics

Dewar flasks made of Borosilikatglass 3.3 DIN/ISO 3585, for storing and transporting of LN₂, CO₂ and other cooling liquids. Temperature range from -200 to +200°C. They are vacuum insulated and silvered. The cover has a handle, clamps and a lid.

Versions

Type B = metal - cover, blue coated.

Type B-E = stainless steel cover

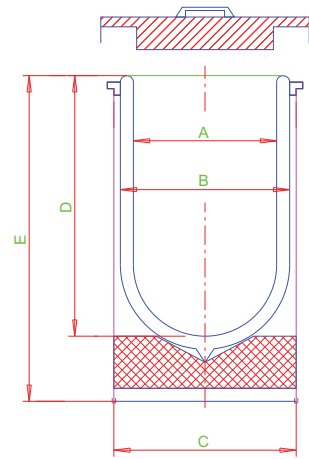
Large insulating Dewar flasks



Type C



Type CAL



Technical specification											
	capacity	A	B	C	D	E	CO2				
							evaporation rate				
Type	ca. [L]	mm	mm	mm	mm	mm	ca. [kg / d]	Type	Art. No.	Type	Art. No.
30/4	4	158	183	210	250	340	0,45	30 / 4 C	1248	30/4 CAL	1258
30/7	7	158	183	210	400	490	0,4	30 / 7 C	1249	30/7 CAL	1259
30	7	200	230	250	275	385	0,45	30 C	1241	30 CAL	1251
31	10	200	230	250	350	475	0,4	31 C	1242	31 CAL	1252
32	14	200	230	250	500	610	0,4	32 C	1243	32 CAL	1253
33	21	250	280	300	480	615	0,6	33 C	1244	33 CAL	1254
34	28	250	280	300	620	750	0,6	34 C	1245	34 CAL	1255
35	40	280	330	355	650	780	0,9	35 C	1246	35 CAL	1256

Characteristics

Dewar flasks made of Borosilikatglass 3.3 DIN/ISO 3585, for storing and transporting of LN2, CO2 and other cooling liquids. Temperature range from -200 to +200°C. The Dewar flasks are vacuum insulated and silvered. The cover has a handle or side grips and a lid.

Versions

Type C = metal - cover, blue coated.

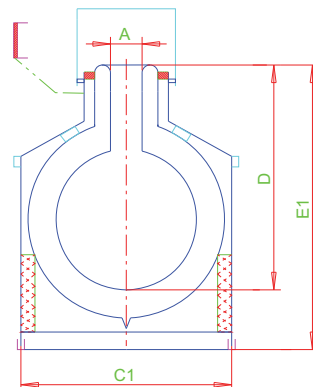
Type CAL = Stucco aluminum cover

Type C- E = stainless steel on request

Spherical Dewar flasks for LN2



Type AL



Characteristics

Dewar flasks made of Borosilikatglass 3.3 DIN/ISO 3585, for storing and transporting of LN2. The Dewar flasks are vacuum insulated and silvered. They have a aluminum cover with handle and a lid.

Custom made versions

Dewar flasks with viewing strips

Technical specification						LN2	
Type	max. capacity	A	D	C1	E1	evaporation rate	
	ca. [L]	mm	mm	mm	mm	ca. [Liter / day]	article No.
21 AL	1	30	235	175	300	0,2	1291
22 AL	3	60	305	225	380	0,4	1292
23 AL	5	60	350	260	450	0,4	1293
24 AL	10	65	380	330	480	0,6	1294

Vacuum-insulated stainless steel container for liquid nitrogen Type APOLLO Typ Apollo

Characteristics

High mechanical stability, the container is made of stainless steel. Low evaporation rate by multi-layer superinsulation in the vacuum space. Very durable by robust constructive design, production and choice of material. Long holding time by the use of adsorption and getter materials.

Standard equipment

Integrated safety devices at the container neck
 Vacuum lock with safety valve
 Easy running castors
 Mini-flange-joint NW 50 KF
 Transfer siphon with transfer hose covered with metallic tissue
 Hand and protection ring
 Contents gauge
 Pressure attachment by fluid removal without external power supply



Liquid nitrogen container made of stainless steel for storage and transport of liquid nitrogen						
Typ Apollo		50	100	150	200	350
Art.-No.		2507	2508	2509	2510	2513
Capacity	(l)	49,5	99,2	149,5	198,5	348
Max. operating overpressure	(bar)	1,3	1,3	1,3	2,0	2,0
Weight empty	(kg)	44	62	79	100	160
Weight full	(kg)	85	145	204	266	450
Overall height	(cm)	80	114	146	117	165
Diameter	(cm)	50	50	50	70	70
Overall width	(cm)	65	65	65	80	80
Evaporation rate static	(% / 24h)	2,0	1,2	1,0	0,6	0,5

Accessoires and more info see our homepage www.kgw-isotherm.de

Liquid nitrogen container made of aluminium

Characteristics

Light aluminium container with compound materials in the neck range
 Low own weight
 Superinsolation foil in the vacuum space
 Low evaporation rate

Standard equipment

Handle
 Vacuum valve
 Mini-flange NW 50 KF
 Loose lid plug



Liquid nitrogen container made of aluminium for storage and transport of liquid nitrogen								
Typ ALU		7	10	20	26	35	60	100
Art.-No.		2515	2516	2517	2518	2519	2521	2522
Capacity	(l)	7	12	21	26	34	60	99
Max. operating overpressure	(bar)	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Weight empty	(kg)	6	7,5	11	13,5	16	21,5	29,5
Weight full	(kg)	12	17,5	28,5	34,5	43	70	110
Overall height	(mm)	480	584	605	670	655	870	986
Diameter	(mm)	308	308	388	388	468	468	510
Evaporation rate static	(L / day)	0,2	0,2	0,18	0,2	0,24	0,4	0,55
Static holding time (days)		36	67	119	130	140	150	180
Roller base				2640	2640	2641	2641	2642



Accessories

Transfer siphon incl. safety valve, manometer, pressure reduction valve made of stainless steel and fluid valve made of stainless steel
 Transfer hose made of stainless steel
 Transfer tube with phase separator
 Screw coupling with tube fitting for pipe joint (D.a.=8 mm)
 Screw adapter
 Clamp and O-ring with centering



Best.-Nr. 2611
 Best.-Nr. 2612
 Best.-Nr. 2613
 Best.-Nr. 2614
 Best.-Nr. 2615
 Best.-Nr. 2618+2619

Cold traps with Dewar flask



Typ KF 29 K



Typ KF 29 OK -A



Typ KF 29 GL



Typ KF 29 GL-A

Cold traps complete	Condensate	Coolant	Dewar	Cold trap	Art. No.	Assesoirs	Art. No.
Type	capacity	capacity	Type	joints		Cold trap	Art. No.
Typ KF 29-K	150 ml	1000 ml	12 C	S 29	1731	Cold trap S 29	1732
Typ KF 29-OK	150 ml	1000 ml	12 C	O 29	1735	Cold trap S 29 O	1736
Typ KF 29-GL	150 ml	1000 ml	12 C	GL 18	1740	Cold trap S 29 GL	1741
Typ KFL 29-K	250 ml	2000 ml	18 C	S 29	17360	Cold trap SL 29	17365
Typ KFL 29-OK	250 ml	2000 ml	18 C	O 29	17361	Cold trap SL 29 O	17366
Typ KFL 29-GL	250 ml	2000 ml	18 C	GL 18	17362	Cold trap SL 29 GL	17367
Typ KF 29-K-A	150 ml	1000 ml	12 C	S 29	17370	Cold trap S 29-A	17375
Typ KF 29-OK-A	150 ml	1000 ml	12 C	O 29	17371	Cold trap S 29 O-A	17376
Typ KF 29-GL-A	150 ml	1000 ml	12 C	GL 18	17372	Cold trap S 29 GL-A	17377
Typ KFL 29-K-A	250 ml	2000 ml	18 C	S 29	17380	Cold trap SL 29-A	17385
Typ KFL 29-OK-A	250 ml	2000 ml	18 C	O 29	17381	Cold trap SL 29 O-A	17386
Typ KFL 29-GL-A	250 ml	2000 ml	18 C	GL 18	17382	Cold trap SL 29 GL-A	17387

Characteristics

Cold traps and Dewar flasks are made of Borosilikatglass 3.3 DIN/ISO 3585 for LN2 in vacuum application. The Dewar flasks are silvered and evacuated. The Dewar flasks have an aluminum casing and a plastic ring for fixing the cold trap. So the customers do not need clamps to fix the cold trap.

You can have the cold trap:

- with spherical joint = Type S29
- with glass screw thread and PTFE Olive = Type S29 GL
- with spherical joint with O-ring = Type S29 O
- with condensate outlet = Type -A

Volume of the complete cold trap

- 1) cold trap
- 2) fixing ring
- 3) Dewar flask

For more cold traps
please visit our home page:
WWW.KGW-ISOTHERM.COM