

ABSORPTION CELLS

MACRO CELLS

with PTFE lid or stopper

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H × W × D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE NO.	REMARKS
100-OS	1	45 x 12.5 x 3.5	9.5	1.5	350	100-1-20	glass lid
	2	45 x 12.5 x 4.5	9.5	1.5	700	100-2-20	
	5	45 x 12.5 x 7.5	9.5	1.5	1750	100-5-20	
	10	45 x 12.5 x 12.5	9.5	1.5	3500	100-10-20	
	20	45 x 12.5 x 22.5	9.5	1.5	7000	100-20-20	
	40	45 x 12.5 x 42.5	9.5	1.5	14000	100-40-20	
	50	45 x 12.5 x 52.5	9.5	1.5	17500	100-50-20	
	100	45 x 12.5 x 102.5	9.5	1.5	35000	100-100-20	glass lid
100-QS	1	45 x 12.5 x 3.5	9.5	1.5	350	100-1-40	glass lid
	2	45 x 12.5 x 4.5	9.5	1.5	700	100-2-40	
	5	45 x 12.5 x 7.5	9.5	1.5	1750	100-5-40	
	10	45 x 12.5 x 12.5	9.5	1.5	3500	100-10-40	
	20	45 x 12.5 x 22.5	9.5	1.5	7000	100-20-40	
	40	45 x 12.5 x 42.5	9.5	1.5	14000	100-40-40	
	50	45 x 12.5 x 52.5	9.5	1.5	17500	100-50-40	
	100	45 x 12.5 x 102.5	9.5	1.5	35000	100-100-40	glass lid
100-QX	1	45 x 12.5 x 3.5	9.5	1.5	350	100-1-46	glass lid
	2	45 x 12.5 x 4.5	9.5	1.5	700	100-2-46	
	5	45 x 12.5 x 7.5	9.5	1.5	1750	100-5-46	
	10	45 x 12.5 x 12.5	9.5	1.5	3500	100-10-46	
	50	45 x 12.5 x 52.5	9.5	1.5	17500	100-50-46	
	100	45 x 12.5 x 102.5	9.5	1.5	35000	100-100-46	glass lid
110-OS	1	52 x 12.5 x 3.5	9.5	1.5	350	110-1-20	
	2	52 x 12.5 x 4.5	9.5	1.5	700	110-2-20	
	5	46 x 12.5 x 7.5	9.5	1.5	1750	110-5-20	
	10	46 x 12.5 x 12.5	9.5	1.5	3500	110-10-20	
	50	46 x 12.5 x 52.5	9.5	1.5	17500	110-50-20	with 2 stoppers
110-QS	1	52 x 12.5 x 3.5	9.5	1.5	350	110-1-40	from 40 mm with 2 stoppers
	2	52 x 12.5 x 4.5	9.5	1.5	700	110-2-40	
	5	46 x 12.5 x 7.5	9.5	1.5	1750	110-5-40	
	10	46 x 12.5 x 12.5	9.5	1.5	3500	110-10-40	
	20	46 x 12.5 x 22.5	9.5	1.5	7000	110-20-40	
	40	46 x 12.5 x 42.5	9.5	1.5	14000	110-40-40	
	50	46 x 12.5 x 52.5	9.5	1.5	17500	110-50-40	
	100	46 x 12.5 x 102.5	9.5	1.5	35000	110-100-40	
110-QX	1	52 x 12.5 x 3.5	9.5	1.5	350	110-1-46	
	5	46 x 12.5 x 7.5	9.5	1.5	1750	110-5-46	
	10	46 x 12.5 x 12.5	9.5	1.5	3500	110-10-46	

WINDOW MATERIAL

OG

Optical Glass

OS

Special Optical Glass

360 nm – 2500 nm

320 nm – 2500 nm

QS

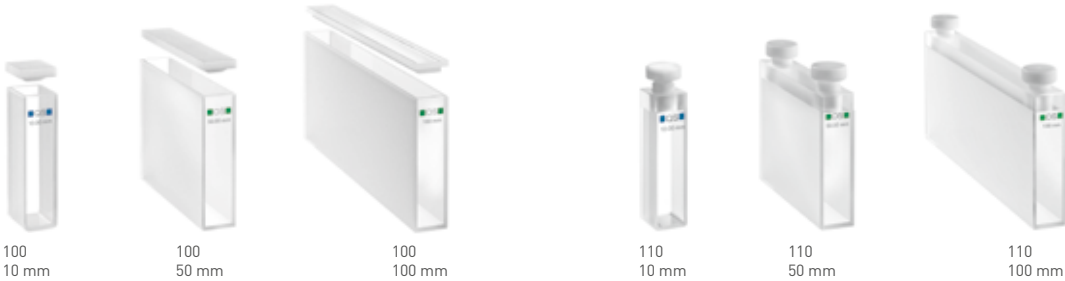
Quartz Glass High Performance

QX

Quartz Glass Extended Range

200 nm – 2500 nm

200 nm – 3500 nm



MACRO CELLS

with PTFE lid or stopper

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H × W × D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE NO.	REMARKS
402.000-OG	10	40 x 23.6 x 15	18.5	2.5	6000	402-10-10	
	50	40 x 23.6 x 55	18.5	2.5	30000	402-50-10	
404.000-QX	1	47.5 x 23.6 x 7.5	18.5	2.5	700	404-1-46	
	2	47.5 x 23.6 x 7.5	18.5	2.5	1400	404-2-46	
	10	47.5 x 23.6 x 12.5	18.5	2.5	7000	404-10-46	
6030-OG	10	45 x 12.5 x 12.5	9.5	1.5	3500	6030-10-10	
	20	45 x 12.5 x 22.5	9.5	1.5	7000	6030-20-10	
	40	45 x 12.5 x 42.5	9.5	1.5	14000	6030-40-10	
	50	45 x 12.5 x 52.5	9.5	1.5	17500	6030-50-10	
6030-UV	10 (± 0.05)	45 x 12.5 x 12.5	9.5	1.5	3500	6030-UV-10-531	

SEMI-MICRO CELLS

with PTFE lid or stopper

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H × W × D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE NO.	REMARKS
6040-OG	10	45 x 12.5 x 12.5	4	3.2	1400	6040-10-10	
6040-UV	10 (± 0.05)	45 x 12.5 x 12.5	4	3.2	1400	6040-UV-10-531	
104-OS	10	45 x 12.5 x 12.5	4	3.2	1400	104-10-20	
	50	45 x 12.5 x 52.5	4	3.2	7000	104-50-20	
104-QS	5	45 x 12.5 x 7.5	4	3.2	700	104-5-40	
	10	45 x 12.5 x 12.5	4	3.2	1400	104-10-40	
	20	45 x 12.5 x 22.5	4	3.2	2800	104-20-40	
	50	45 x 12.5 x 52.5	4	3.2	7000	104-50-40	
104-QX	10	45 x 12.5 x 12.5	4	3.2	1400	104-10-46	

WINDOW MATERIAL

OG

Optical Glass

OS

Special Optical Glass

UV

Quartz Glass

360 nm – 2500 nm

320 nm – 2500 nm

260 nm – 2500 nm

QS

Quartz Glass High Performance

QX

Quartz Glass Extended Range

200 nm – 2500 nm

200 nm – 3500 nm



ABSORPTION CELLS

SEMI-MICRO CELLS

with PTFE lid or stopper

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H × W × D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. μl	ARTICLE NO.	REMARKS
104B-QS	10	45 x 12.5 x 12.5	4	3.2	1400	104-B-10-40	black side walls and base
108-QS	10	45 x 12.5 x 12.5	4	9	1000	108-000-10-40	
108B-QS	10	45 x 12.5 x 12.5	4	9	1000	108B-10-40	black side walls and base
114-QS	10	46 x 12.5 x 12.5	4	3.2	1400	114-10-20	
114-QS	10	46 x 12.5 x 12.5	4	3.2	1400	114-10-40	
114B-QS	10	46 x 12.5 x 12.5	4	3.2	1400	114B-10-40	black side walls and base

MICRO CELLS

with PTFE lid or stopper

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H × W × D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. μl	ARTICLE NO.	REMARKS
104.002-QS	10	45 x 12.5 x 12.5	2	3.2	700	104-002-10-20	
104.002-QS	10	45 x 12.5 x 12.5	2	3.2	700	104-002-10-40	
104.002B-QS	10	45 x 12.5 x 12.5	2	3.2	700	104002B-10-20	black side walls and base
104.002B-QS	10	45 x 12.5 x 12.5	2	3.2	700	104002B-10-40	black side walls and base
105-QS	10	25 x 12.5 x 12.5	2	1.5	300	105-10-40	
108.002-QS	10	45 x 12.5 x 12.5	2	9	500	108-002-10-40	
108.002B-QS	10	45 x 12.5 x 12.5	2	9	500	108002B-10-40	black side walls and base
115-QS	10	40 x 12.5 x 12.5	2	1.25	400	115-10-40	
115B-QS	10	40 x 12.5 x 12.5	2	1.25	400	115B-10-40	black side walls and base

WINDOW MATERIAL

OS Special Optical Glass 320 nm – 2500 nm QS Quartz Glass High Performance 200 nm – 2500 nm



ULTRA-MICRO CELLS

with PE stopper or open with pipette tips

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	CENTER HEIGHT mm	OUTSIDE DIM. H × W × D mm	APERTURE H × W mm	CHAMBER VOL. μl	FILLING VOL. μl	ARTICLE NO.	REMARKS
105.200-QS	10 10	15 8.5	45 x 12.5 x 12.5 45 x 12.5 x 12.5	8 x 2 8 x 2	160 160	180 180	105-200-15-40 105-200-85-40	
105.201-QS	10 10	15 8.5	45 x 12.5 x 12.5 45 x 12.5 x 12.5	5 x 2 5 x 2	100 100	120 120	105-201-15-40 105-201-85-40	
105.202-QS	10 10	15 8.5	45 x 12.5 x 12.5 45 x 12.5 x 12.5	2.5 x 2 2.5 x 2	50 50	70 70	105-202-15-40 105-202-85-40	
105.210-QS	10 10	15 8.5	40 x 12.5 x 12.5 40 x 12.5 x 12.5	Ø 0.8 Ø 0.8	5 5	10 10	1052101015-40 1052101085-40	

TRAYCELL® FOR MICRO VOLUME ANALYSIS

105.800-UVS and 105.810-UVS – For more information see pages 36 to 39.

DEMOUNTABLE CELLS WITH SMALL VOLUME

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H × W × D mm	THICKNESS mm	INSIDE WIDTH mm	VOL. μl	ARTICLE NO.	REMARKS
106-QS	0.01 ± 0.003 0.1 ± 0.005 0.2 ± 0.005 0.5 ± 0.010	45 x 12.5 45 x 12.5 45 x 12.5 45 x 12.5	2.5 2.6 2.7 3	9 9 9 9	2.6 26 52 130	106-0.01-40 106-0.10-40 106-0.20-40 106-0.50-40	demountable rectangular cells Please order cell holder separately – see article no. 013-000-71
013.000		55 x 12.5 x 12.5				013-000-71	cell holder for cell type 106

WINDOW MATERIAL

QS Quartz Glass High Performance 200 nm – 2500 nm



ABSORPTION CELLS

CELLS FOR MAGNETIC STIRRERS

macro, semi-micro, with PTFE lid or stopper

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H x W x D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE NO.	REMARKS
109.000-QS	10	45 x 12.5 x 12.5	9.5	5	3500	109-000-10-40	
109.004-QS	10	45 x 12.5 x 12.5	4	5	1500	109-004-10-40	
119.000-QS	10	49.5 x 12.5 x 12.5	9.5	5	3500	119-10-40	
119.004-QS	10	49.5 x 12.5 x 12.5	4	5	1500	119-004-10-40	
332.300		6 x 3				332-300-VE10	10-pack PTFE coated magnetic stir bar

SEALABLE CELLS

macro, semi-micro, for anaerobic applications

(with ISO thread GL 14 and screw cap with silicone rubber seal, accessories see page 33)

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H x W x D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE NO.	REMARKS
117.100-QS	10	56 x 12.5 x 12.5	9.5	1.5	3500	117-100-10-40	Open screw cap
117.200-QS	10	56 x 12.5 x 12.5	9.5	1.5	3500	117-200-10-40	Closed screw cap
117.104-QS	10	56 x 12.5 x 12.5	4	1.25	1400	117-104-10-40	Open screw cap
117.204-QS	10	56 x 12.5 x 12.5	4	1.25	1400	117-204-10-40	Closed screw cap

CELLS WITH TUBES

macro, tube Ø 8 mm, tube length 80 mm

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE DIM. H x W x D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE NO.	REMARKS
220-QS	10	40 x 12.5 x 12.5	9.5	1.5	3500	220-10-40	Quartz/DURAN® tube

WINDOW MATERIAL

■ QS ■ Quartz Glass High Performance 200 nm – 2500 nm



CYLINDRICAL CELLS

macro, with PTFE stopper

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE-DIAMETER mm	INSIDE-DIAMETER mm	OUTSIDE DEPTH mm	VOL. µl	ARTICLE NO.	REMARKS
120-QS	50 100	22 22	19 19	52.5 102.5	14000 28000	120-50-20 120-100-20	from 50 mm with 2 stoppers
120-QS	1 2 5 10 20 50 100	22 22 22 22 22 22 22	19 19 19 19 19 19 19	3.5 4.5 7.5 12.5 22.5 52.5 102.5	280 560 1400 2800 5600 14000 28000	120-000-1-40 120-000-2-40 120-5-40 120-10-40 120-20-40 120-50-40 120-100-40	from 50 mm with 2 stoppers
120-QX	10	22	19	12.5	2800	120-10-46	
121.000-QS	0.1 0.2 0.5 1	22 22 22 22	13 13 13 13	20 20 20 20	160 170 210 280	121-0.10-40 121-0.20-40 121-0.50-40 121-1-40	2 ports and stoppers
225-BF	10	22	18	12.5	2600	225-10-23	Cell with tube Tube: Duran
165-QS	10	22	10	12.5	800	165-10-40	Temperature controlled cell 1 stopper and 2 thermostat ports

DEMOUNTABLE CELLS WITH SMALL VOLUME

TYPE	OPTICAL PATH LENGTH mm	OUTSIDE-DIAMETER mm	THICKNESS mm	INSIDE-DIAMETER mm	VOL. µl	ARTICLE NO.	REMARKS
124-QS	0.01 ± 0.003 0.1 ± 0.005 0.2 ± 0.005 0.5 ± 0.005	22 22 22 22	2.51 2.6 2.7 3	15 15 15 15	2 18 35 85	124-0.01-40 124-0.1-40 124-0.2-40 124-0.5-40	demountable circular cell Please order cell holder separately! Article No.: 020-001-761
020.001	0.01 – 1	27 x 23.5 x 11.5				020-001-761	cell holder for cell type 124 and 201/202
202-QS	1.25	22				202-40	circular window made of Quartz Glass High Performance
202-QX	1.25	22				202-46	circular window made of Quartz Glass Extended Range
201	1 ± 0.01	21				201-1-23	ring made of Duran for cell holder 020.001

WINDOW MATERIAL

■ OS ■ Special Optical Glass 320 nm – 2500 nm
■ BF ■ Borosilicate Glass 330 nm – 2500 nm

■ QS ■ Quartz Glass High Performance 200 nm – 2500 nm
■ QX ■ Quartz Glass Extended Range 200 nm – 3500 nm



ABSORPTION CELLS

CELLS FOR FLOW-THROUGH MEASUREMENTS

macro, with in/outlet tubes

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	CENTER HEIGHT mm	OUTSIDE DIM. H × W × D mm	APERTURE H × W mm	VOL. µl	ARTICLE NO.	REMARKS
130-QS	10		45 x 12.5 x 12.5	33 x 9.5	3200	130-10-40	
137-QS	1		45 x 12.5 x 3.5	20 x 9	260	137-1-40	
	2		45 x 12.5 x 4.5	20 x 9	520	137-2-40	
	5		45 x 12.5 x 7.5	20 x 9	1300	137-5-40	
	10		45 x 12.5 x 12.5	20 x 9	2600	137-10-40	
170-QS	1	8.5 – 15	35 x 12.5 x 12.5	17.5 x 6.5	120	170-000-1-40	
	2		35 x 12.5 x 12.5	17.5 x 6.5	240	170-000-2-40	
175.000-QS	10	15	45 x 12.5 x 12.5	11 x 6.5	750	175-15-10-40	
	10	8.5	38.5 x 12.5 x 12.5	11 x 6.5	750	175-85-10-40	

compact, with 2 screw connectors M 6 x 1 and FEP tubes

[outside Ø 1.9 mm, inside Ø 1.1 mm, 500 mm long]

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	CENTER HEIGHT mm	OUTSIDE DIM. H × W × D mm	APERTURE H × W mm	VOL. µl	ARTICLE NO.	REMARKS
170.700-QS	0.1	8.5 – 15	35 x 12.5 x 12.5	17.5 x 3.5	6.2	170700-0.1-40	up to 0.5 mm with bypass for flow optimization
	0.2		35 x 12.5 x 12.5	17.5 x 3.5	12.4	170700-0.2-40	
	0.5		35 x 12.5 x 12.5	17.5 x 3.5	31	170700-0.5-40	
	1		35 x 12.5 x 12.5	17.5 x 3.5	62	170-700-1-40	
	2		35 x 12.5 x 12.5	17.5 x 3.5	124	170-700-2-40	

semi-micro, with in/outlet tubes

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	CENTER HEIGHT mm	OUTSIDE DIM. H × W × D mm	APERTURE H × W mm	VOL. µl	ARTICLE NO.	REMARKS
176.000-QS	10	15	45 x 12.5 x 12.5	11 x 4	450	176-15-10-40	
	50	15	45 x 12.5 x 52.5	11 x 4	2250	176-50-40	
	50	8.5	38.5 x 12.5 x 52.5	11 x 4	2250	176-50-85-40	

WINDOW MATERIAL

OS Special Optical Glass 320 nm–2500 nm QS Quartz Glass High Performance 200 nm – 2500 nm



CELLS FOR FLOW-THROUGH MEASUREMENTS

compact, with 2 screw connectors M 6 x 1 and FEP tubes

[outside Ø 1.9 mm, inside Ø 1.1 mm, 500 mm long]

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	CENTER HEIGHT mm	OUTSIDE DIM. H × W × D mm	APERTURE H × W mm	VOL. µl	ARTICLE NO.	REMARKS
176.700-QS	5	15	35 x 12.5 x 12.5	11 x 3.5	195	1767005-15-40	
	5	8.5	35 x 12.5 x 12.5	11 x 3.5	195	1767005-85-40	
	10	15	35 x 12.5 x 12.5	11 x 3.5	390	1767001510-40	
	10	8.5	35 x 12.5 x 12.5	11 x 3.5	390	1767008510-40	
	50	15	35 x 12.5 x 52.5	11 x 3.5	1950	1767001550-40	

micro, ultra-micro, with in/outlet tubes

178.010-QS	10	8.5	38.5 x 12.5 x 12.5	Ø 3	80	178-010-10-40	
178.011-QS	10	8.5	38.5 x 12.5 x 12.5	Ø 2	30	178011-85-20	

compact, with 2 screw connectors M 6 x 1 and FEP tubes

[outside Ø 1.9 mm, inside Ø 1.1 mm, 500 mm long]

178.710-QS	10	15	35 x 12.5 x 12.5	Ø 3	80	178-710-10-40	
	10	8.5	35 x 12.5 x 12.5	Ø 3	80	1787108510-40	
	50	15	35 x 12.5 x 52.5	Ø 3	370	1787101550-40	
178.711-QS	10	8.5	35 x 12.5 x 12.5	Ø 2	30	1787118510-20	
178.712-QS	10	8.5	35 x 12.5 x 12.5	Ø 1.5	18	178712-10-20	
178.712-QS	10	8.5	35 x 12.5 x 12.5	Ø 1.5	18	1787128510-40	
178.765-QS*	10	8.5	45 x 12.5/17 x 12.5	Ø 1.5	18	178-765-10-20	without tubes

* Please order tubes separately – see page 33.

WINDOW MATERIAL

OS Special Optical Glass 320 nm – 2500 nm QS Quartz Glass High Performance 200 nm – 2500 nm

