



ABSORPTION CELLS

MACRO CELLS

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
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	glass lid
	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	glass lid
	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	glass lid
	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	
	20	45 x 12.5 x 22.5	9.5	1.5	7000	100-20-46	
	40	45 x 12.5 x 42.5	9.5	1.5	14000	100-40-46	
	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
402.000-OG	10	40 x 23.6 x 15	18.5	2	4500	402-10-10	
	20	40 x 23.6 x 25	18.5	2	9000	402-20-10	
	50	40 x 23.6 x 55	18.5	2	22500	402-50-10	
110-OS	1	52 x 12.5 x 3.5	9.5	1.5	350	110-1-20	from 40 mm with 2 stoppers
	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	
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	
	2	52 x 12.5 x 4.5	9.5	1.5	700	110-2-46	
	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	
	20	46 x 12.5 x 22.5	9.5	1.5	7000	110-20-46	

WINDOW MATERIAL

- OG ■ Optical Glass
- OS ■ Special Optical Glass

360 nm–2500 nm
320 nm–2500 nm

- QS ■ Quartz SUPRASIL®
- QX ■ Quartz SUPRASIL® 300

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 x W x D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE-NO.	REMARKS
404.000-QX	1	47.5 x 23.6 x 7.5	18.5	2.5	700	404-1-46	with 2 stoppers
	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	without lid
	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	with lid

SEMI-MICRO CELLS

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
6040-OG	10	45 x 12.5 x 12.5	4	3.2	1400	6040-10-10	with lid
6040-UV	10 (± 0.05)	45 x 12.5 x 12.5	4	3.2	1400	6040-UV-10-531	with lid
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	
	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 H0Q310H

360 nm–2500 nm
 320 nm–2500 nm
 260 nm–2500 nm

■ QS Quartz SUPRASIL®
■ QX Quartz SUPRASIL® 300

200 nm–2500 nm
 200 nm–3500 nm



404.000
10 mm



6030
10 mm



6030-UV
10 mm



6040
10 mm



6040-UV
10 mm



104
10 mm



ABSORPTION CELLS

SEMI-MICRO CELLS

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
104B-OS	10	45 x 12.5 x 12.5	4	3.2	1400	104B-10-20	black side walls and base
104B-QS	10	45 x 12.5 x 12.5	4	3.2	1400	104-B-10-40	black side walls and base
108-OS	10	45 x 12.5 x 12.5	4	9	1000	108-000-10-20	
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-OS	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 x W x D mm	INSIDE WIDTH mm	BASE THICKN. mm	VOL. µl	ARTICLE-NO.	REMARKS
104.002-OS	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-OS	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	
105B-QS	10	25 x 12.5 x 12.5	2	1.5	300	105-B-10-40	black side walls and base
108.002-QS	10	45 x 12.5 x 12.5	2	9	500	108-002-10-40	

WINDOW MATERIAL

■ OS ■ Special Optical Glass

320 nm–2500 nm

■ QS ■ Quartz SUPRASIL®

200 nm–2500 nm



104B
10 mm



108
10 mm



108B
10 mm



114
10 mm



114B
10 mm



104.002
10 mm



104.002B
10 mm



105
10 mm



105B
10 mm



108.002
10 mm

MICRO CELLS

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
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

ULTRA-MICRO CELLS

with PE stopper or open with pipette tips

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	CENTER HEIGHT mm	OUTSIDE DIM. H x W x D mm	APERTURE H x W mm	CHAMBER VOL. µl	FILLING VOL. µl	ARTICLE-NO.	REMARKS
105.200-QS	10	15	45 x 12.5 x 12.5	8 x 2	160	180	105-200-15-40	
	10	8.5	45 x 12.5 x 12.5	8 x 2	160	180	105-200-85-40	
105.201-QS	10	15	45 x 12.5 x 12.5	5 x 2	100	120	105-201-15-40	
	10	8.5	45 x 12.5 x 12.5	5 x 2	100	120	105-201-85-40	
105.202-QS	10	15	45 x 12.5 x 12.5	2.5 x 2	50	70	105-202-15-40	
	10	8.5	45 x 12.5 x 12.5	2.5 x 2	50	70	105-202-85-40	
105.203-QS	10	15	45 x 12.5 x 12.5	Ø 2.5	50	70	105-203-1015-40	Discontinued item
	10	8.5	45 x 12.5 x 12.5	Ø 2.5	50	70	105-203-1085-40	
105.204-QS	10	15	45 x 12.5 x 12.5	Ø 1.5	20	40	105-204-1015-40	Discontinued item
	10	8.5	45 x 12.5 x 12.5	Ø 1.5	20	40	105-204-1085-40	
105.020-QS	10	4.5	8.1 x 12.6 x 12.6	6 x 2	120	130	105-020-40	
105.025-QS	10	4.5	12 x 12.5 x 12.5	5 x 2	120	320	105-025-40	
105.210-QS	5	15	40 x 12.5 x 12.5	Ø 0.8	2.5	5	105210-515-40	
	5	8.5	40 x 12.5 x 12.5	Ø 0.8	2.5	5	105210-585-40	
	10	15	40 x 12.5 x 12.5	Ø 0.8	5	10	1052101015-40	
	10	8.5	40 x 12.5 x 12.5	Ø 0.8	5	10	1052101085-40	

WINDOW MATERIAL

■ QS ■ Quartz SUPRASIL®

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	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)

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	
117.200-QS	10	56 x 12,5 x 1,25	9,5	1.5	3500	117-200-10-40	Closed screw caps
117.104-QS	10	56 x 12.5 x 12.5	4	1.25	1400	117-104-10-40	
117.204-QS	10	56 x 12,5 x 1,25	4	1,25	1400	117-204-10-40	Closed screw caps

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 SUPRASIL® 200 nm–2500 nm



109.000
10 mm



109.004
10 mm



119.000
10 mm



119.004
10 mm



117.100
10 mm



117.104
10 mm



220
10 mm

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-OS	10	22	19	12.5	2800	120-10-20	from 50 mm with 2 stoppers
	50	22	19	52.5	14000	120-50-20	
	100	22	19	102.5	28000	120-100-20	
120-QS	1	22	19	3.5	280	120-000-1-40	from 50 mm with 2 stoppers
	2	22	19	4.5	560	120-000-2-40	
	5	22	19	7.5	1400	120-5-40	
	10	22	19	12.5	2800	120-10-40	
	20	22	19	22.5	5600	120-20-40	
	50	22	19	52.5	14000	120-50-40	
	100	22	19	102.5	28000	120-100-40	
120-QX	10	22	19	12.5	2800	120-10-46	
121.000-QS	0.1	22	13	20	160	121-0.10-40	2 ports and stoppers
	0.2	22	13	20	170	121-0.20-40	
	0.5	22	13	20	210	121-0.50-40	
	1	22	13	20	280	121-1-40	

TEMPERATURE CONTROLLED CELLS

macro

TYPE/WINDOW MATERIAL	OPTICAL PATH LENGTH mm	OUTSIDE-DIAMETER mm	INSIDE-DIAMETER mm	OUTSIDE DEPTH mm	VOL. µl	ARTICLE-NO.	REMARKS
165-QS	1	22	9	30	160	165-1-40	2 stoppers 1 port and stopper
	10	22	10	12.5	800	165-10-40	

CELL WITH TWO CHAMBERS

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
238-QS	2 x 4.375	46 x 12.5 x 12.5	9.5	1.5	2 x 1000	238-000-40	with 2 stoppers

WINDOW MATERIAL

■ OS ■ Special Optical Glass
■ QS ■ Quartz SUPRASIL®

320 nm–2500 nm
200 nm–2500 nm

■ QX ■ Quartz SUPRASIL® 300

200 nm–3500 nm



120
1 mm



120
10 mm



120
50 mm



121.000
1 mm



165
1 mm



165
10 mm



238
2 x 4.375 mm



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 x W x D mm	APERTURE H x 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	all dim.	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-OS	10	15	45 x 12.5 x 12.5	11 x 6.5	750	175-000-10-20	
	10	8.5	38.5 x 12.5 x 12.5	11 x 6.5	750	175-85-10-20	
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 x W x D mm	APERTURE H x W mm	VOL. µl	ARTICLE-NO.	REMARKS
170.700-QS	0.1	all dim.	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 optimisation
	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 x W x D mm	APERTURE H x W mm	VOL. µl	ARTICLE-NO.	REMARKS
174-QS	10		48 x 12.5 x 12.5	36 x 4	1500	174-10-40	
176.000-QS	10	15	45 x 12.5 x 12.5	11 x 4	450	176-15-10-40	
	10	8.5	38.5 x 12.5 x 12.5	11 x 4	450	176-85-10-40	
	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 SUPRASIL®

200 nm–2500 nm

Subject to change without notice.



130
10 mm



137
10 mm



170
1 mm



175.000
10 mm



170.700
1 mm



174
10 mm



176.000
10 mm

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 x W x D mm	APERTURE H x 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	
	50	8.5	35 x 12.5 x 52.5	11 x 3.5	1950	1767008550-40	
176.703-QS	10	15	35 x 12.5 x 12.5	8 x 2	160	176703-215-40	
	10	8.5	35 x 12.5 x 12.5	8 x 2	160	176703-10-85-4	

micro, ultra-micro, with in/outlet tubes

178.010-OS	10	15	45 x 12.5 x 12.5	Ø 3	80	1780101015-20	optical path length 50 mm on request
	10	8.5	38.5 x 12.5 x 12.5	Ø 3	80	178010-85-20	
178.010-QS	10	15	45 x 12.5 x 12.5	Ø 3	80	1780101015-40	
	10	8.5	38.5 x 12.5 x 12.5	Ø 3	80	178-010-10-40	
	50	15	45 x 12.5 x 52.5	Ø 3	370	178-010-50-40	
	50	8.5	38.5 x 12.5 x 52.5	Ø 3	370	178010-50-85-40	
178.011-OS	10	15	45 x 12.5 x 12.5	Ø 2	30	178011-15-20	
	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-OS	10	15	35 x 12.5 x 12.5	Ø 3	80	178-710-20	
	10	8.5	35 x 12.5 x 12.5	Ø 3	80	178-710-10-20	
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	
	50	8.5	35 x 12.5 x 52.5	Ø 3	370	178-710-50-40	
178.711-OS	10	15	35 x 12.5 x 12.5	Ø 2	30	178-711-10-20	
	10	8.5	35 x 12.5 x 12.5	Ø 2	30	1787118510-20	
178.712-OS	10	8.5	35 x 12.5 x 12.5	Ø 1.5	18	178712-10-20	
178.712-QS	10	15	35 x 12.5 x 12.5	Ø 1.5	18	1787121510-40	
	10	8.5	35 x 12.5 x 12.5	Ø 1.5	18	1787128510-40	
178.765-OS*	10	8.5	45 x 12.5/17 x 12.5	Ø 1.5	18	178-765-10-20	Further information see page 6.

*Please order tubes separately – see page 23.

Subject to change without notice.

WINDOW MATERIAL

■ OS ■ Special Optical Glass

320 nm–2500 nm

■ QS ■ Quartz SUPRASIL®

200 nm–2500 nm

