

Vacuum pumps/Aspiration systems-Vacuum drying/Desiccators

1


1 BioChem-VacuuCenter BVC 21 NT/BVC 01

- Powerful or gentle aspiration of fluid supernatants down to microlitre volumes using thumb-wheel fine tuning VACUUBRAND
- Automatic vacuum control without need for a hand or foot switch
- Vario models with variable vacuum level for gentle or powerful aspiration. Quiet, smooth operation due to speed-controlled pump.
- Handset removable without spilling or loss of vacuum due to self-closing quick-release coupling.
- Double connector allowing a second user reduces investment cost.

BVC 21 NT supplied with chemistry diaphragm pump. BVC 01 (without pump) to connect to a vacuum network.

Dimensions (WxDxH): 275 x 450 x 520mm
 Supply requirements: 230V 50/ 60Hz

Type	Weight kg	Supply requirements V	PK	Cat. No.
BVC 01	4.0	CEE	1	9.882 972
BVC 01	4.0	CH	1	9.882 973
BVC 21 NT	11.8	CEE	1	9.881 375
BVC 21 NT	11.8	CH	1	9.881 376

2


2 Accessories for BioChem-VacuuCenter BVC 21 NT/ BVC 01

VACUUBRAND

Type	PK	Cat. No.
VacuuHandControl VHC handset with tubing	1	9.882 974
VacuuTransContainer VTC	1	9.882 976
Quick coupling to connect VHC-VTC	1	9.882 978
Protection filter 0.2µm, hydrophobic, with tubing	1	9.882 979

To connect a second handset please order 9.882 974 and 9.882 978!

3


3 Desiccators, glass, knob lid

DURAN®. Clear glass. With ground flange and knob lid. Without disc or plate. Vacuum-tight. DIN 12491.

DURAN Group

DN	Height mm	PK	Cat. No.
100	187	1	9.042 019
150	252	1	9.042 031
200	309	1	9.042 038
250	357	1	9.042 043
300	433	1	9.042 047

4


4 Desiccators, glass, vacuum

DURAN®. Clear glass. With ground flange and Novus stopcock assembly in lid. Without disc or plate. Vacuum-tight. To DIN 12491.

DURAN Group

DN	Height mm	Tube socket NS	PK	Cat. No.
100	174	24 / 29	1	9.042 119
150	239	24 / 29	1	9.042 131
200	296	24 / 29	1	9.042 138
250	344	24 / 29	1	9.042 143
300	420	24 / 29	1	9.042 147

1 Desiccator lids

DURAN®. Clear glass. Knob lid. Fits all desiccator bases with the corresponding flat flange. Vacuum-tight. DIN 12491.

DURAN Group

DN	Height	ID Flange	OD Flange	PK	Cat. No.
	mm	mm	mm		
100	75	119	153 ± 2	1	9.042 319
150	98	172	215 ± 2	1	9.042 331
200	107	224	270 ± 2	1	9.042 338
250	122	274	320 ± 2	1	9.042 343
300	150	332	380 ± 2	1	9.042 347



2 Desiccator lids

DURAN®. Clear glass. Tube top, for Novus stopcock assembly. Without stopcock. Vacuum-tight. DIN 12491.

DURAN Group

DN	Height	NS	ID Flange	OD Flange	PK	Cat. No.
	mm		mm	mm		
100	62	24 / 29	119	153 ± 2	1	9.042 419
150	85	24 / 29	172	215 ± 2	1	9.042 431
200	94	24 / 29	224	270 ± 2	1	9.042 438
250	109	24 / 29	274	320 ± 2	1	9.042 443
300	137	24 / 29	332	380 ± 2	1	9.042 447

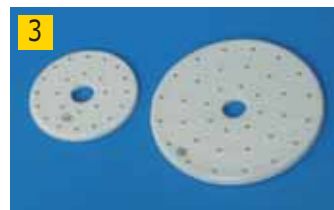


3 LLG Plate for desiccator, porcelain

NEW!

DIN 12911

Dia. mm	PK	Cat. No.
90	1	9.042 801
140	1	9.042 802
190	1	9.042 803
235	1	9.042 804
280	1	9.042 805



4 Desiccator plates, porcelain

Perforated. Without feet. To DIN 12911. 20mm diameter central hole and 5mm diameter outer holes.

Haldenwanger

Dia. mm	PK	Cat. No.
90	1	9.042 509
140	1	9.042 514
190	1	9.042 519
235	1	9.042 523
280	1	9.042 528



5 Desiccator disc, Type 5312, enamel

Light-green, ceramic-metal composite. With numbered quadrants. Autoclavable. Recommended for use with 7.048 802 and 9.042 690.

Nalgene

Type	Ext. diam. mm	PK	Cat. No.
5312	230	1	9.042 573



6 Desiccator stopcock

Borosilicate glass 3.3. With PTFE spindle. To fit side outlet. For NOVUS-type desiccators.

Lenz

Length mm	NS	PK	Cat. No.
108	24 / 29	1	9.042 500





1 Desiccator stopcock

Borosilicate glass 3.3. With PTFE spindle. To fit tube top lid. For NOVUS-type desiccators.

Lenz

Length mm	NS	PK	Cat. No.
124	24 / 29	1	9.042 505



2 Desiccators, vacuum, O- ring seals

Soft rubber. These O-ring seals make glass lubrication unnecessary. Suitable for desiccators, Witt jars etc.

For DN mm	PK	Cat. No.
100	1	9.042 710
150	1	9.042 715
200	1	9.042 720
250	1	9.042 725
300	1	9.042 730



3 Desiccators, plastic, vacuum, PC/PP

Crystal clear, PC dome lid. PP. Lower section and desiccant tray. Venting stopper with non-return valve in lid. Polychlorbutadiene rubber (CK) O-ring seal between lid and base which is compressed when vacuum is applied. Lightweight and easy to use.

Kartell

Nominal dia. mm	Dia. mm	Height mm	PK	Cat. No.
150	170	195	1	9.042 615
200	235	240	1	9.042 620
250	285	300	1	9.042 625



4 Spare O-Rings

Neoprene rubber.

Kartell

Dia. mm	PK	Cat. No.
150	1	9.042 681
200	1	9.042 682
250	1	9.042 683



5 Desiccator plates, PP

PP. For use at room temperature. Not suitable for use with hot crucibles.

Kartell

Dia. mm	PK	Cat. No.
141	1	9.042 674
189	1	9.042 675
238	1	9.042 676



6 Accessory venting stopper for desiccators, PC

PC. With non-return valve.

BRAND

Type	PK	Cat. No.
Desiccators	1	9.042 684

1 Desiccators, Type 5309, 5310, PC, blue

NEW!

Nalgene

Transparent PC bell and blue PP lower part. Will not break or implode under vacuum provided that the operating instructions are obeyed. Lower part is resistant to diluted acids, alkalis and other common desiccants. Vacuum connection at lower part. TFE stopcock is suitable for vacuum tubing 6.4mm i.d. For air tight sealing it is sufficient to grease sealing surface a little. No additional sealing ring is necessary. The additional rim at the bell prevents grease stains on lab benches.

External diameter: 330mm
Internal diameter: 246mm

Type	Description	PK	Cat. No.
5309	Desiccator, without stopcock	1	7.048 801
5310	Desiccator, with stopcock (not autoclavable)	1	7.048 802



2 Desiccator, Type 5311, PC

Nalgene

Transparent, lightweight, unbreakable, for vacuum or non-vacuum use. With stopcock. Large, stable base. No danger of implosion. Capable of maintaining 0.95bar negative pressure over a 24 hour period. With silicone O-ring, no lubrication required. Suitable for 230mm diameter desiccator discs or plates. Max. height over plate 195mm. Plate not included.

External diameter: 280mm
Internal diameter: 251mm

Type	PK	Cat. No.
5311	1	9.042 690



Vacuum drying ovens please see page 786



3 Desiccator cabinets, Mini desiccators, PS

SICCO

Transparent polystyrene. Air tight doors with rubber seals and two chrome-plated catches for quick closure. Door opens downwards and can be folded away into the base. Stackable. Supplied with desiccant beads.

Width mm	Depth mm	Height mm	PK	Cat. No.
224	200	168	1	9.042 646
224	200	336	1	9.042 647
224	200	504	1	9.042 648



4 Desiccator Star, PMMA

SICCO

Desiccators are designed for storing or drying humidity-sensitive products, using silica gel. The tight fitting door protects the contents from atmospheric contamination. The controlled environment inside the desiccators are ideal for storing reference materials, library samples, metallographic specimens, tobacco and DNA-samples. Includes four transparent acrylic shelves, tray, hygrometer and desiccant, with positions for up to 26 shelves and stackable.

- reinforced aluminium frame with acrylic panels
- door with magnetic catch and circular rubber seal
- non-slip rubber feet
- easy to read electronic hygrometer
- variable height shelves made of acrylic glass
- telescopic shelves
- desiccant tray
- silica gel included

Properties

Panels: clear
Material: PMMA
Temperature resistance: -20°C to + 70°C
Usable volume/Total volume: 42/45L
Use: normal pressure
Stand: rubber feet
Maximum all-over load per shelf: 10kg
Total all-over load: 30kg

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Star - Desiccator	260 x 330 x 480	310 x 375 x 525	7.0	1	9.042 651





1 Desiccators Super Star, PMMA

Gas filling Desiccators provide ideal conditions for the safe and secure storing of poisonous chemicals. An inert gas such as nitrogen can be introduced as soon as the door is closed tightly. Unlike the ambient air, the inert gas does not react with the stored substances. Includes four transparent acrylic shelves, positions for up to 26 shelves, hygrometer, tray, desiccant and tubing with quick coupling for gas filling and door lock.

SICCO

- reinforced aluminium frame with acrylic panels
- door with magnetic catch, circular rubber seal and cylinder lock
- non-slip rubber feet
- extra big electronic hygrometer
- variable height shelves made of acrylic glass
- telescopic shelves
- two connections for gas filling with quick couplings
- non-return valve and tubing

Properties

Panels:	clear
Material:	PMMA
Temperature resistance:	from -20°C to +70°C
Usable volume/Total volume	42/45L
Use:	normal pressure
Stand:	rubber feet
Maximum all-over load per shelf	10kg
Total all-over load	30kg

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Super-Star	260 x 330 x 480	310 x 375 x 525*	7.1	1	6.800 667

* Additional space requirement for coupling, 150mm per side.



2 Desiccator Auto-Star, PMMA

With automatic drying that can maintain a constant humidity of between 20% and 30%, Automatic Desiccators are highly suitable for long-term storage. Even frequent opening of the door is compensated for automatically. The ideal solution for storing reference materials, electronics, photo equipment, papers, historical artefacts and much more. With four transparent acrylic shelves and hygrometer with positions for up to 26 shelves and stackable.

SICCO

- reinforced aluminium frame with acrylic panels
- door with magnetic catch and circular rubber seal
- non-slip rubber feet
- easy to read electronic hygrometer
- variable height shelves made of acrylic glass
- telescopic shelves
- automatic drying
- constant low interior humidity between 20% and 30%

Properties

Panels:	clear
Material:	PMMA
Temperature resistance:	-20°C to +70°C
Usable volume/Total volume:	42/45L
Use:	normal pressure
Stand:	rubber feet
Maximum all-over load per shelf	10kg
Total all-over load	30kg

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Auto-Star	260 x 330 x 480	310 x 375 x 525	7.3	1	6.201 892



1 Desiccator Auto-Big-Star, PMMA

NEW!

SICCO

Including two shelves made of stainless steel, tray and hygrometer, usable with up to 17 shelves, stackable.

- Reinforced aluminium frame with acrylic panels
- Door with magnetic catch and circular rubber seal
- Four casters (two of the casters with brakes)
- Easy to read electronic hygrometer
- Variable height shelves made of stainless steel
- Telescopic shelves
- Automatic drying
- Constant low interior humidity between 20% and 30%

Properties

Excess length of drying unit:	100mm
Usable volume:	140L
Total volume:	150L
Maximum all-over load per shelf:	30kg
Total all-over load:	80kg

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Auto-Big-Star	495 x 540 x 500	560 x 580 x 560	22.0	1	9.042 007



2 Desiccator Big Star, PMMA

SICCO

To protect sensitive materials from humidity or dust during storage. This is achieved by addition of silica gel which reduces significantly the humidity inside the desiccator. The desiccator is made of a strong aluminium frame with transparent acrylic panels. For easy handling, the door is equipped with a magnetic strip and lined with foam rubber gasket. The standard equipment includes a digital precision hygrometer which displays temperature and humidity as well as two removable and adjustable shelves made of stainless steel and a tray for silica gel. The desiccator can be equipped with up to 17 shelves.

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Big Star	502 x 502 x 502	585 x 560 x 555	18.0	1	6.300 334



3 Desiccator Star-Vitrium, borosilicate glass 3.3

NEW!

SICCO

Panels made of borosilicate glass 3.3, including four shelves made of stainless steel, tray, hygrometer and desiccant, usable with up to 26 shelves, stackable.

- Reinforced aluminium frame with borosilicate glass panels
- Door with magnetic catch and circular rubber seal
- Non slip rubber feet
- Easy to read electronic hygrometer
- Variable height shelves made of stainless steel
- Telescopic shelves
- Desiccant tray
- Silica gel included

Properties

Usable volume:	42L
Total volume:	45L
Maximum all-over load per shelf:	10kg
Total all-over load:	30kg

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Star-Vitrium	260 x 330 x 480	310 x 375 x 525	14.0	1	9.042 006





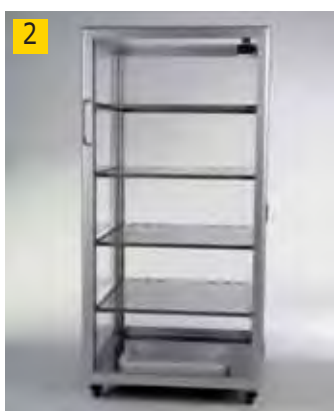
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1 Desiccator Horizontal-Star, PMMA

To protect sensitive materials from humidity or dust during storage. This is achieved by addition of silica gel which reduces significantly the humidity inside the desiccator. The desiccator is made of a strong aluminium frame with transparent acrylic panels. For easy handling, the door is equipped with a magnetic strip and lined with foam rubber gasket. The standard equipment includes a digital precision hygrometer which displays temperature and humidity as well as two removable and adjustable shelves made of PMMA and a tray for silica gel. The desiccator can be equipped with up to 13 shelves.

SICCO

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Horizontal-Star	480 x 320 x 260	520 x 375 x 340	7.0	1	6.800 632



2

Desiccators Maxi 1 and Maxi 2, PMMA

NEW!

SICCO Desiccators are designed for storing or drying humidity sensitive products using silica gel. The tight fitting door protects the contents from contamination from the atmosphere. The controlled environment inside the desiccators are ideal for storing reference materials, retained samples, metallographic specimen, tobacco and DNA-samples.

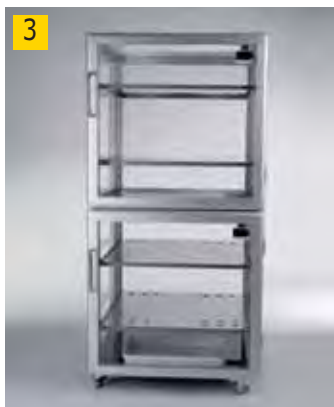
SICCO

- Reinforced aluminium frame with acrylic panels
- Door with magnetic catch and circular rubber seal
- Four casters (two of the casters with brakes)
- Easy to read electronic hygrometer
- Variable height shelves made of stainless steel
- Telescopic shelves
- Desiccant tray

Maxi 1: Including four shelves made of stainless steel, tray and hygrometer, usable with up to 34 shelves.

Maxi 2: Two chambers, two doors, each chamber usable with up to 17 shelves. Including two shelves per chamber, two trays and two hygrometers.

9.042 643



3

Properties	Maxi 1/Maxi 2
Usable volume:	280/140L
Total volume:	300/150L
Maximum all-over load per shelf:	30/80kg
Total all-over load:	160kg

Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Maxi 1	495 x 1030 x 540	560 x 1150 x 580	30.0	1	9.042 643 2
Maxi 2	495 x 500 x 450*	560 x 1150 x 580	80.0	1	9.042 644 3

* per chamber.

9.042 644



4

4 LLG Desiccant beads

NEW!

With orange indicator colour. Grain size 1 to 3mm. This self-indicating drying agent (white silica gel) is free from any heavy metals and therefore environmentally compatible. The gel is naturally orange when active and at a 6 weight-% saturation level. As the gel adsorbs moisture, the colour changes into white. The total adsorption capacity is approximately 23 in weight-% at 40% RH. The range of application is identical with that of white silica gel. The colour change, however, represents a great advantage since it allows monitoring of the saturation level. The gel can be regenerated when heated at a temperature of maximum 120°C until it turns to its original orange colour.

Container	Capacity kg	PK	Cat. No.
Box	1	1	9.042 555
Box	3	1	9.042 556
Bucket	8	1	9.042 557
Cardboard box	25	1	9.042 558

1 Condensation traps, borosilicate 3.3

Borosilicate 3.3 glass, comprising bottle with ground glass cone neck fitting a separate inlet/outlet head with choice of tubing or ground joint connections.

Capacity	Cone	Socket	Connection	PK	Cat. No.
ml	NS	NS			
100	29	29	Tubing connections	1	9.305 350
250	45	45	Tubing connections	1	9.305 351
100	29	29	Cone / socket NS 29	1	9.305 352
250	45	45	Cone / socket NS 29	1	9.305 353



2 Cold traps, borosilicate 3.3

Borosilicate 3.3 glass, one-piece, with GL 45 neck and cap closure, GL 14 threaded side connections with caps and plastic tubing adapters.

Capacity	PK	Cat. No.
ml		
250	1	9.305 349



Cold traps with Dewar flask, borosilicate glass 3.3

Cold traps with Dewar flasks are made from 3.3 DIN/ISO 3585 borosilicate glass to hold LN₂ for vacuum applications. The flasks are vacuum insulated and silver-plated. They are encased in metal sheet, blue coated for protection and have a plastic ring collar, into which the cold trap is inserted. Thus no additional support is needed for the cold trap. The Dewar flask has got a theoretical coolant capacity of 1.0L or 2.0L respectively. The cold trap has got a theoretical condensate capacity of 150ml or 250ml respectively.

KGW

Items supplied: Cold trap, Dewar-flask, plastic ring.

Dewar type 12C/18C: see no. 9.032.024/9.032.030

Versions Cold trap joints:

S29 = spherical joints

GL18 = glass screwthead with PTFE olive 10mm

O 29 = spherical joints S29 with O-ring seal

Type	Condensate capacity	Coolant capacity	Dewar	Cold trap	PK	Cat. No.
	ml	ml	Type	joints		
KF 29-K	150	1000	12 C	S 29	1	9.032 065 3
KF 29-OK	150	1000	12 C	O 29	1	9.032 066 5
KF 29-GL	150	1000	12 C	GL 18	1	9.032 067 4
KFL 29-K	250	2000	18 C	S 29	1	9.032 068
KFL 29-OK	250	2000	18 C	O 29	1	9.032 069
KFL 29-GL	250	2000	18 C	GL 18	1	9.032 070
KF 29-K-A	150	1000	12 C	S 29	1	9.032 071
KF 29-OK-A	150	1000	12 C	O 29	1	9.032 072
KF 29-GL-A	150	1000	12 C	GL 18	1	9.032 073 6
KFL 29-K-A	250	2000	18 C	S 29	1	9.032 074
KFL 29-OK-A	250	2000	18 C	O 29	1	9.032 075
KFL 29-GL-A	250	2000	18 C	GL 18	1	9.032 076



9.032 065



9.032 067



9.032 066



9.032 073

1


1 Cold traps, SKF H, stainless steel

Cold traps protect both the vacuum system and the pump. They extend maintenance intervals and improve the overall performance of the vacuum installation.

VACUUBRAND

- sturdy, easy-to-clean design
- easy to disassemble
- double-wall design without separate insulating vacuum for good conductance
- long operating time with one filling
- easy condensate drain and cleaning without disassembling

Type	Connection	Length mm	Width mm	Height mm	PK	Cat. No.
SKF H 25	KF DN 25	166	140	303	1	9.882 855
SKF H 40	KF DN 40	166	140	319	1	9.882 856

2


2 Woulff bottles, DURAN®

Erlenmeyer pattern (5000ml is bottle-shaped), with reinforced walls, for work under vacuum and plastic coating to act as a splinter and implosion protection. A glass insert is fitted with removable PP tubing connections, vent valve head and analogue pressure gauge with 2 scale ranges (1000 to 0mbar, 760mm to 0mm Hg).

Capacity ml	Dia. mm	PK	Cat. No.
500	110	1	9.305 340
1000	140	1	9.305 341
2000	170	1	9.305 342
5000	185	1	9.305 343
10000	240	1	9.305 344
15000	255	1	9.305 345
20000	290	1	9.305 346

3


3 Woulff bottles, DURAN®

DIN 12480. With 3 NS standard ground joints. Without base tubulature. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

DURAN Group

Capacity	Dia.	Neck	PK	Cat. No.
L	mm	NS		
0.50	87	19/26	1	9.305 319
1.00	113	24/29	1	9.305 324
2.00	135	29/32	1	9.305 329
5.00	185	34/35	1	9.305 336



1 Vacuum Concentrator Concentrator Plus

The new Concentrator plus features a new LCD display and user-friendly control panel with clearly labelled function keys. The new Concentrator Plus from Eppendorf is available in two configurations: Complete system with an integrated, service-free, diaphragm pump and Basic concentrator for connecting to an existing vacuum source. The Concentrator's heating technology optimizes the evaporation process. No matter which configuration you choose, you're assured of quick, efficient and gentle vacuum concentration of your samples (e.g. DNA/RNA, proteins). The complete system includes a vapour condenser that purifies the exhaust air by up to 85%. This serves as protection against unpleasant vapours. At the same time, an automatic condensate drain extends the service life of all components that come into contact with the vapours. A wide range of fixed-angle rotors and the microplate rotor A-2-VC enable the Concentrator Plus to be used for various applications in the laboratory.

Eppendorf AG



Product features:

- Narrow 32cm width saves valuable bench space
- Chemically-resistant, PTFE diaphragm pump
- Chemically-resistant, stainless steel chamber
- Extremely quiet operation, even when pump running
- Choice of three application modes (aqueous, alcohol or high vapour pressure) to correspond with sample solvent, reduction of processing time up to 20%
- Choice of four heating levels (room temperature, 30°C, 45°C, 60°C) allows safe and efficient concentration of various samples
- Centrifugation and Desiccator function
- Concentrator junction system adds extra flexibility. Simply connect the port to any external device that requires vacuum (e.g. gel dryer).

Description	PK	Cat. No.
Concentrator junction system with integrated vacuum pump and 48 x 1.5/2.0ml fixed angle rotor	1	9.776 536
Concentrator junction system with integrated vacuum pump and port for external devices, without rotor	1	9.776 537
Concentrator junction system with integrated vacuum pump, without rotor	1	9.776 538
Concentrator single device with 48 x 1.5/2.0ml fixed angle rotor	1	9.776 539

Rotors for Concentrator plus

Eppendorf AG

Type	Description	PK	Cat. No.
A-2-VC	for 2 x 96 tubes 0.2ml (128 x 86 x 27 mm)	1	9.776 496
F-45-8-17	for 8 tubes 15ml (Falcon) (17 x 120mm)	1	9.776 490
F-45-48-11	for 48 tubes 1.5/2.0ml (11 x 41/11 x 47mm)	1	9.776 465



9.776 490

Accessories for Concentrator Plus

Eppendorf AG

Description	PK	Cat. No.
Kit for upgrading from basic concentrator to complete system	1	9.776 533
Spacer for using fixed angle rotors in sandwich mode	1	9.776 534
CombiSlide® Adapter	1	9.776 451
Adapter, 0.5ml reaction tube and 0.6ml microtainer	6	9.776 488
Adapter for 0.2ml PCR tubes, for F-45-24-11	6	9.776 504
Work tray for 96 x 0.2ml PCR tubes	10	9.283 623
Frame for work tray	5	9.283 624



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