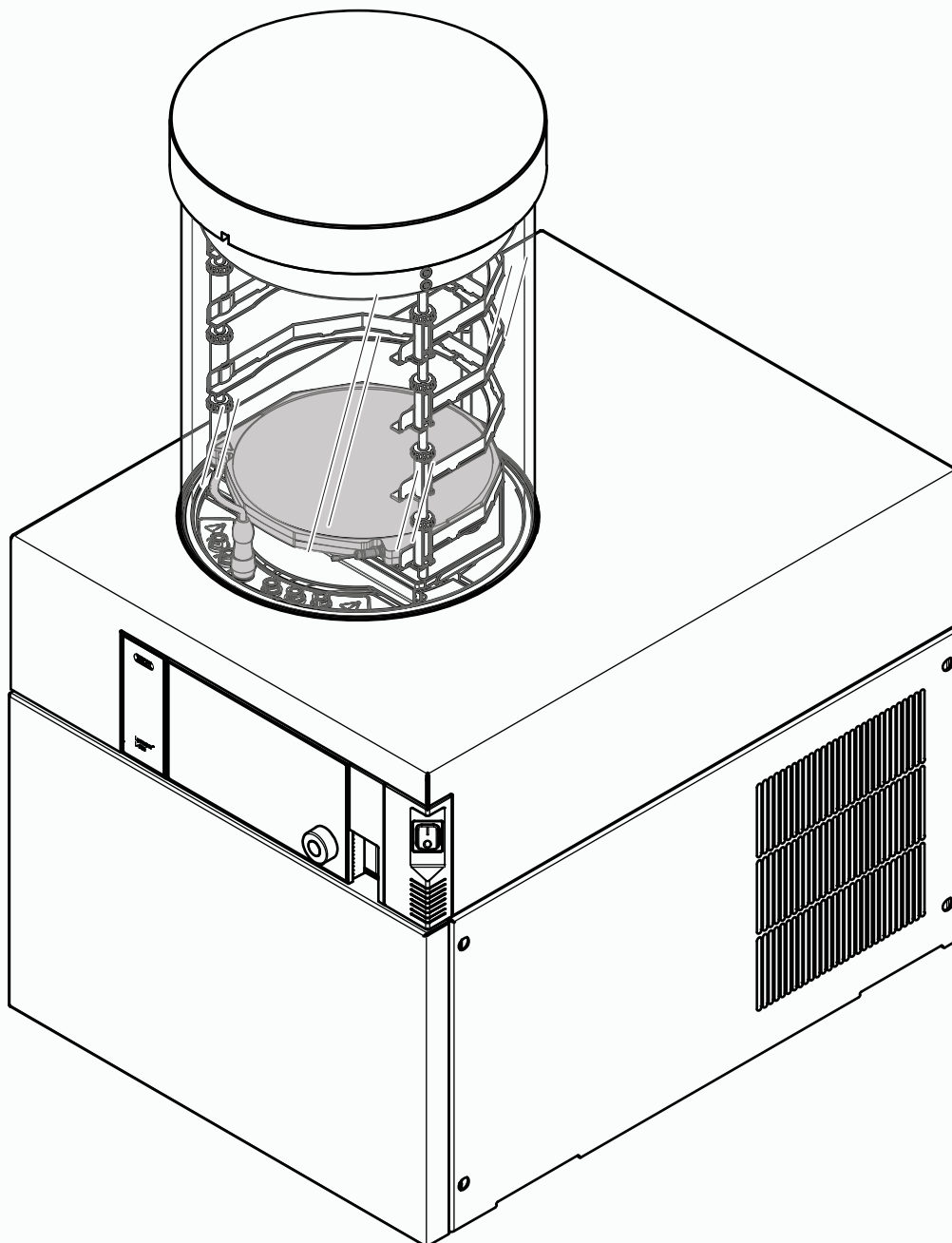




Technical data sheet

# Lyovapor™ L-210 Basic / L-210 Pro

The Lyovapor™ L-210 Basic / L-210 Pro with EcoStream™ technology offers high freeze drying performance (-55 °C, ≤ 6 kg) at low global warming potential and process time optimization by endpoint determination. Infinite Control™ allows easy method creation, data logging, chart recording in real-time and interrupting if needed at anytime - anywhere.



## Scope of delivery

All configurations are supplied ready to use.



### NOTE

The scope of delivery depends on the configuration of the purchase order.

Accessories are delivered as per the purchase order, order confirmation, and delivery note.

| Components                                      | Lyovapor™ L-210 |
|-------------------------------------------------|-----------------|
| Lyovapor™ L-210 Basic or<br>Lyovapor™ L-210 Pro | 1               |
| Power cord                                      | 1               |
| Operation Manual                                | 1               |
| Technical data sheet                            | 1               |
| Vacuum clamp, ISO-KF 16                         | 1               |
| Vacuum clamps, ISO-KF 25                        | 1               |
| O-ring, 300 mm                                  | 1               |
| Blind flange, ISO-KF 16                         | 1               |
| Blind flange, ISO-KF 25                         | 1               |

## Order code

Choose the configuration according to your needs:

### L-210 Basic bundle

|   |   |   |   |   |   |   |   |   |   |   |   |                        |
|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|
| 1 | 1 | L | 2 | 1 | 0 | I | N | 0 | 0 | 0 | 0 | L-210 Basic            |
| 1 | 1 | L | 2 | 1 | 0 | I | N | 1 | 0 | 0 | 0 | L-210 Basic Defrosting |

Vacuum control<sup>1</sup>

|   |   |   |   |   |   |   |   |                                                          |
|---|---|---|---|---|---|---|---|----------------------------------------------------------|
| 1 | 1 | 0 | 8 | 0 | 1 | 6 | 1 | No vacuum control<br>(only for manifold drying chambers) |
| 1 | 1 | 0 | 8 | 0 | 1 | 6 | 2 | Advanced vacuum control                                  |

Drying chamber<sup>1</sup>

|   |   |   |   |   |   |   |   |   |   |   |                                                     |
|---|---|---|---|---|---|---|---|---|---|---|-----------------------------------------------------|
| 1 | 1 | D | C | I | N | 0 | 1 | 0 | 0 | 0 | Drying rack manifold 12                             |
| 1 | 1 | D | C | I | N | 0 | 2 | 0 | 0 | 0 | Drying rack manifold 24                             |
| 1 | 1 | D | C | I | N | 1 | 4 | 1 | 0 | 0 | Drying chamber 4 shelves                            |
| 1 | 1 | D | C | I | N | 1 | 4 | 2 | 0 | 0 | Drying chamber 4 shelves<br>with top cover manifold |
| 1 | 1 | D | C | I | N | 1 | 4 | 3 | 0 | 0 | Drying chamber 4 shelves<br>with stoppering         |
| 1 | 1 | D | C | I | N | 1 | 6 | 1 | 0 | 0 | Drying chamber 6 shelves                            |
| 1 | 1 | D | C | I | N | 1 | 6 | 2 | 0 | 0 | Drying chamber 6 shelves<br>with top cover manifold |

Optional

|   |   |   |   |   |   |   |   |                                                                 |
|---|---|---|---|---|---|---|---|-----------------------------------------------------------------|
| 1 | 1 | 0 | 8 | 4 | 7 | 9 | 2 | Vacuum pump Edwards RV5                                         |
| 1 | 1 | 0 | 6 | 8 | 1 | 5 | 8 | Vacuum pump Edwards nXDS6iC                                     |
| 1 | 1 | 0 | 8 | 0 | 4 | 4 | 0 | Trolley                                                         |
| 1 | 1 | 0 | 7 | 6 | 7 | 2 | 0 | Upgrade Basic to Pro instrument                                 |
| 1 | 1 | 0 | 8 | 0 | 7 | 7 | 0 | Set for pressure difference test for<br>drying rack manifold 12 |

<sup>1</sup> Selection of one option is required

## L-210 Pro bundle

|   |   |   |   |   |   |   |   |   |   |   |   |                      |
|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| 1 | 1 | L | 2 | 1 | 0 | P | H | 0 | 0 | 0 | 0 | L-210 Pro            |
| 1 | 1 | L | 2 | 1 | 0 | P | H | 1 | 0 | 0 | 0 | L-210 Pro Defrosting |

### Vacuum control<sup>1</sup>

|   |   |   |   |   |   |   |   |                         |
|---|---|---|---|---|---|---|---|-------------------------|
| 1 | 1 | 0 | 8 | 0 | 1 | 6 | 2 | Advanced vacuum control |
|---|---|---|---|---|---|---|---|-------------------------|

### Drying chamber<sup>1</sup>

|   |   |   |   |   |   |   |   |   |   |   |                                                                             |
|---|---|---|---|---|---|---|---|---|---|---|-----------------------------------------------------------------------------|
| 1 | 1 | D | C | I | N | 0 | 1 | 0 | 0 | 0 | Drying rack manifold 12                                                     |
| 1 | 1 | D | C | P | H | 2 | 4 | 1 | 0 | 0 | Drying chamber 4 heatable shelves                                           |
| 1 | 1 | D | C | P | H | 2 | 4 | 1 | 0 | 1 | Drying chamber 4 heatable shelves with pressure difference test             |
| 1 | 1 | D | C | P | H | 2 | 4 | 2 | 0 | 0 | Drying chamber 4 heatable shelves with top cover manifold                   |
| 1 | 1 | D | C | P | H | 2 | 4 | 3 | 0 | 0 | Drying chamber 4 heatable shelves with stoppering                           |
| 1 | 1 | D | C | P | H | 2 | 4 | 3 | 0 | 1 | Drying chamber 4 heatable shelves with pressure difference test, stoppering |
| 1 | 1 | D | C | P | H | 2 | 6 | 1 | 0 | 0 | Drying chamber 6 heatable shelves                                           |
| 1 | 1 | D | C | P | H | 2 | 6 | 1 | 0 | 1 | Drying chamber 6 heatable shelves with pressure difference test             |
| 1 | 1 | D | C | P | H | 2 | 6 | 2 | 0 | 0 | Drying chamber 6 heatable shelves with top cover manifold                   |

### Optional

|   |   |   |   |   |   |   |   |                                                              |
|---|---|---|---|---|---|---|---|--------------------------------------------------------------|
| 1 | 1 | 0 | 6 | 4 | 0 | 3 | 1 | Sample temperature sensor                                    |
| 1 | 1 | 0 | 6 | 5 | 6 | 6 | 8 | Lyovapor™ software license                                   |
| 1 | 1 | 0 | 8 | 4 | 7 | 9 | 2 | Vacuum pump Edwards RV5                                      |
| 1 | 1 | 0 | 6 | 8 | 1 | 5 | 8 | Vacuum pump Edwards nXDS6iC                                  |
| 1 | 1 | 0 | 8 | 0 | 4 | 4 | 0 | Trolley                                                      |
| 1 | 1 | 0 | 8 | 0 | 7 | 7 | 0 | Set for pressure difference test for drying rack manifold 12 |

<sup>1</sup> Selection of one option is required

## Technical data

### Lyovapor™ L-210 Basic/L-210 Pro

| Specification                                     | L-210 Basic           | L-210 Pro             |
|---------------------------------------------------|-----------------------|-----------------------|
| Dimensions without drying attachments (W x D x H) | 503 x 645 x 510 mm    | 503 x 645 x 510 mm    |
| Weight                                            | 65.6 kg               | 67.4 kg               |
| Minimum clearance on all sides                    | 300 mm                | 300 mm                |
| Connection voltage                                | 200 – 240 VAC ±10%    | 200 – 240 VAC ±10%    |
| Rated power consumption                           | 1,300 VA              | 1,800 VA              |
| Fuse                                              | 10 A                  | 10 A                  |
| Frequency                                         | 50 / 60 Hz            | 50 / 60 Hz            |
| Overvoltage category                              | II                    | II                    |
| Protection rating                                 | IP20                  | IP20                  |
| Pollution degree                                  | 2                     | 2                     |
| Condensing capacity                               | 6 kg / 24 h           | 6 kg / 24 h           |
| Lowest condenser temperature                      | -55 °C                | -55 °C                |
| Temperature divergence                            | ±1.0 °C               | ±1.0 °C               |
| Condenser capacity                                | ≤ 6 kg                | ≤ 6 kg                |
| Condenser surface area                            | 1,524 cm <sup>2</sup> | 1,524 cm <sup>2</sup> |
| Refrigerants                                      | R290, R600, R170      | R290, R600, R170      |
| Refrigerant quantity                              | < 100 g               | < 100 g               |
| Vacuum generation time to 0.1 mbar                | Typically ≤ 10 min    | Typically ≤ 10 min    |
| Volume-based leakage rate                         | < 10 mbar L/h         | < 10 mbar L/h         |
| Lowest system vacuum                              | 0.03 mbar             | 0.03 mbar             |
| Control range vacuum                              | 0.1 – 1 mbar          | 0.1 – 1 mbar          |
| Shelf heating setting                             | -                     | max. 60 °C            |
| Shelf heating tolerance                           | -                     | ±1.0 °C               |
| Certificates                                      | CE/CSA/CB             | CE/CSA/CB             |
| Drying attachments operating height               | 1,100 mm              | 1,100 mm              |
| Noise emission to DIN 45635 (without vacuum pump) | < 60 dB(A)            | < 60 dB(A)            |
| Inert gas connection (relative)                   | 0.5 bar               | 0.5 bar               |
| Marking on type plate                             | Bas / BasD            | Pro / ProD            |
| Defrosting (optional, D on type plate)            | Yes                   | Yes                   |
| Condenser temperature during defrosting           | max. 60 °C            | max. 60 °C            |

## Ambient conditions

For indoor use only.

|                               |                                   |
|-------------------------------|-----------------------------------|
| Max. altitude above sea level | 2'000 m                           |
| Ambient temperature           | 5 - 30 °C <sup>1</sup>            |
| Maximum relative humidity     | 80 % for temperatures up to 30 °C |
| Storage temperature           | max. 70 °C                        |

## Drying chamber bundles

| Drying rack manifold                                             | Order no.   |
|------------------------------------------------------------------|-------------|
| Drying rack manifold 12<br>with 12 manifold valves and baseplate | 11DCIN01000 |
| Drying rack manifold 24<br>with 24 manifold valves and baseplate | 11DCIN02000 |

| Drying chamber non-heatable shelves                                                                                        | Order no.   |
|----------------------------------------------------------------------------------------------------------------------------|-------------|
| Drying chamber 4 shelves<br>with top cover, support ring and 4 non-heatable shelves                                        | 11DCIN14100 |
| Drying chamber manifold, 4 shelves<br>with top cover manifold, support ring, 4 non-heatable shelves and 12 manifold valves | 11DCIN14200 |
| Drying chamber<br>with stoppering cover, support ring and non-heatable shelves                                             | 11DCIN14300 |
| Drying chamber 6 shelves<br>with top cover, support ring and 6 non-heatable shelves                                        | 11DCIN16100 |
| Drying chamber manifold, 6 shelves<br>with top cover manifold, support ring, 6 non-heatable shelves and 12 manifold valves | 11DCIN16200 |

| Drying chamber heatable shelves                                                                             | Order no.   |
|-------------------------------------------------------------------------------------------------------------|-------------|
| Drying chamber 4 heatable shelves<br>with top cover                                                         | 11DCPH24100 |
| Drying chamber 4 heatable shelves<br>with top cover and pressure difference test                            | 11DCPH24101 |
| Drying chamber 4 heatable shelves<br>with top cover manifold and 4 heatable shelves                         | 11DCPH24200 |
| Drying chamber 4 heatable shelves<br>with stoppering cover and 4 heatable shelves                           | 11DCPH24300 |
| Drying chamber 4 heatable shelves<br>with stoppering cover, 4 heatable shelves and pressure difference test | 11DCPH24301 |
| Drying chamber 6 heatable shelves<br>with top cover and 6 heatable shelves                                  | 11DCPH26100 |
| Drying chamber 6 heatable shelves<br>with top cover, 6 heatable shelves and pressure difference test        | 11DCPH26101 |

## Drying chamber heatable shelves

Order no.

Drying chamber 6 heatable shelves  
with top cover manifold and 6 heatable shelves

11DCPH26200

## Spare parts and accessories

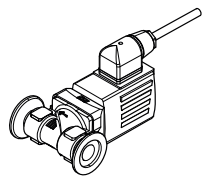
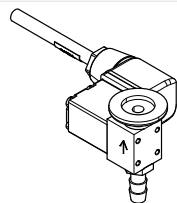
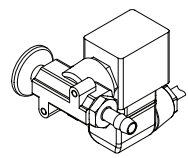
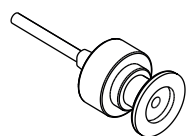
Use only genuine BUCHI consumables and spare parts in order to ensure correct, safe and reliable operation of the system.

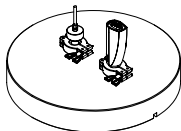
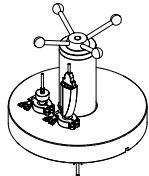
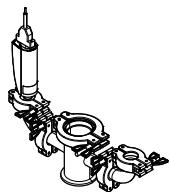
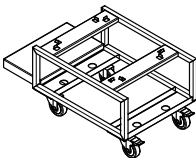
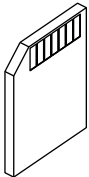
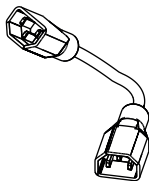
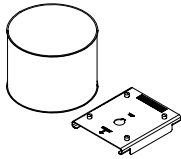
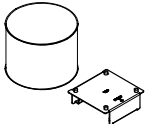
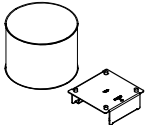


### NOTE

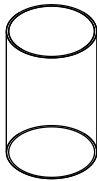
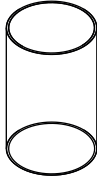
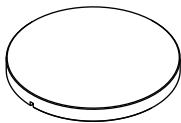
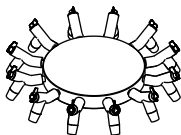
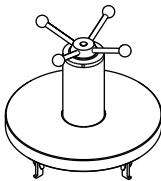
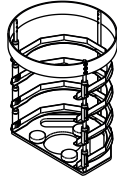
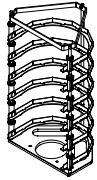
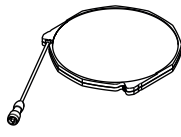
Any modifications of spare parts or assemblies are only allowed with the prior written permission of BUCHI.

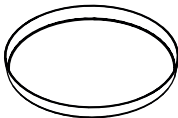
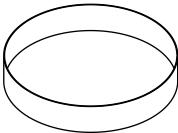
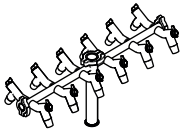
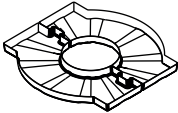
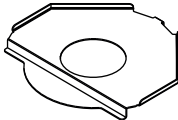
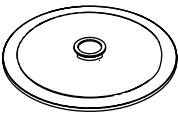
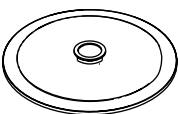
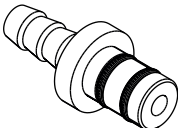
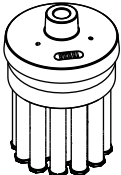
## Accessories

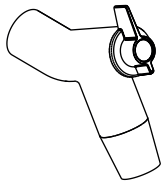
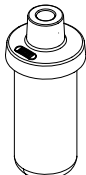
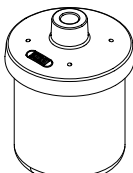
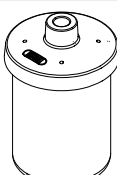
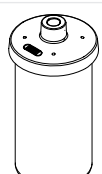
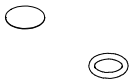
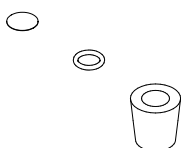
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|----------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Main valve                                   | 11076675  |    |
| Pressure regulation valve                    | 11076679  |   |
| Aeration valve                               | 11064724  |  |
| Pirani / Piezo pressure sensor               | 11062228  |  |
| Capacitive pressure sensor Inficon CDG 020 D | 11062230  |  |
| PT1000 sample temperature sensor             | 11064031  |  |

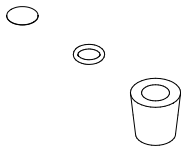
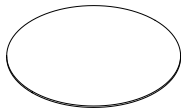
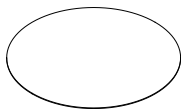
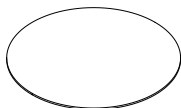
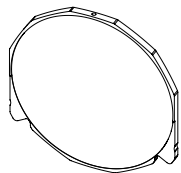
|                                                                                                                                                                                                                                                                                    | Order no. | Image                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Set for pressure difference test<br>incl. extension cable for PPG011 and CDG 020D sensors, PMMA top cover, seals and clamps                                                                                                                                                        | 11067590  |    |
| Set for pressure difference test<br>incl. extension cable of PPG011 and CDG 020D sensors, stoppering top cover, seals and clamps                                                                                                                                                   | 11070102  |    |
| Set for pressure difference test<br>Only for manifold rack steel with 12 connections                                                                                                                                                                                               | 11080770  |    |
| Trolley, stainless steel coated                                                                                                                                                                                                                                                    | 11080440  |   |
| SD-Card 1 GB                                                                                                                                                                                                                                                                       | 11064730  |  |
| Connection cable, for vacuum pump                                                                                                                                                                                                                                                  | 11064934  |  |
| Dewar accessory, set. Incl. Dewar container and adapter<br>For sample preparation in freeze drying. To be used with dry ice and ethanol / isopropanol / acetone or separately with liquid nitrogen. Compatible with Heating Bath (not plugged in during operation) and Rotavapor®. | 11066662  |  |
| Dewar accessory, set. Incl. Dewar container and adapter<br>For sample preparation in freeze drying. To be used with dry ice and ethanol / isopropanol / acetone or separately with liquid nitrogen. Compatible with Rotavapor® R-180.                                              | 11085087  |  |
| Dewar accessory, set. Incl. Dewar container and adapter.<br>For sample preparation in freeze drying. To be used with dry ice and ethanol / isopropanol / acetone or separately with liquid nitrogen. Compatible with Rotavapor® R-180.                                             | 11085088  |  |

## Top-mount drying rack accessories

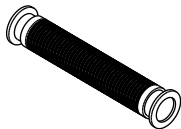
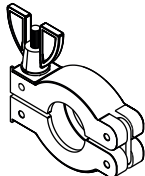
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|-------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Drying chamber tube, PMMA, for 4 shelves<br>L 368 mm, Ø 300 mm                                                                | 11063278  |    |
| Drying chamber tube, PMMA, for 6 shelves<br>L 480 mm, Ø 300 mm                                                                | 11065093  |    |
| Top cover, PMMA, without sealing<br>Ø 300 mm, H 50 mm                                                                         | 11062912  |    |
| Top cover manifold, PMMA, with 12 valves, without sealing<br>Ø 300 mm, W 546 mm, H 127 mm                                     | 11065595  |   |
| Top cover stoppering, without sealing<br>only for rack for 4 heatable and non- heatable shelf<br>Ø 300 mm, H 330 mm, W 320 mm | 11064314  |  |
| Rack for 4 heatable shelves<br>H 356 mm, Ø 265 mm , shelf distance 30-75 mm                                                   | 11065102  |  |
| Rack for 6 heatable shelves<br>H 468 mm, Ø 265 mm, shelf distance 30-75 mm                                                    | 11065103  |  |
| Heatable shelf, aluminum coated, with connection cable<br>Ø 219.5 mm, surface area 376 cm²                                    | 11064095  |  |

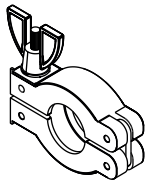
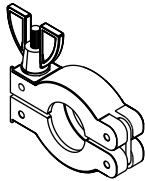
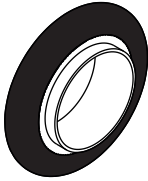
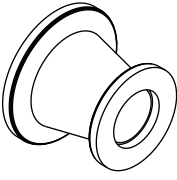
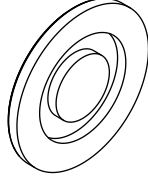
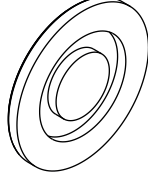
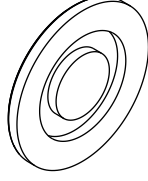
|                                                                              | Order no. | Image                                                                                 |
|------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Sample tray, stainless steel<br>Ø 220 mm, H 18.5 mm                          | 11061439  |    |
| Ferrule,<br>Ø 218 mm, H 40 mm                                                | 11065816  |    |
| Drying rack manifold, stainless steel, with 12 valves<br>H 340 mm, W 777 mm  | 11063664  |    |
| Drip pan, for manifold                                                       | 11066358  |    |
| Support for rack, stainless steel<br>H 4 mm                                  | 11063789  |  |
| Baseplate, stainless steel, for manifold rack                                | 11064953  |  |
| Baseplate, PMMA, for manifold rack                                           | 11065733  |  |
| Suction nipple<br>For manifold application to create vacuum in sample flasks | 11065819  |  |
| Ampoule adapter for manifold<br>with 19 ampoule connections and cap adapter  | 11065725  |  |

|                                                                                      | Order no. | Image                                                                                 |
|--------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Manifold valve, EPDM/Silicone, with SJ 29/32                                         | 11062300  |    |
| Flask beaker for manifold 100 mL<br>with cap adapter and integrated filter           | 11066140  |    |
| Flask beaker for manifold 200 mL<br>with cap adapter and integrated filter           | 11066141  |    |
| Flask beaker for manifold 600 mL<br>with cap adapter and integrated filter           | 11066142  |    |
| Flask beaker for manifold 800 mL<br>with cap adapter and integrated filter           | 11069474  |  |
| Flask beaker for manifold 1200 mL<br>with cap adapter and integrated filter          | 11066143  |  |
| Manifold flask filter set<br>with o-ring, incl. filter paper                         | 11066144  |  |
| Manifold flask filter set<br>with o-ring, incl. filter paper                         | 11067334  |  |
| Manifold flask adapter set, 24/40 joint size<br>with 12 adapters, incl. filter paper | 11066171  |  |

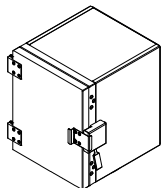
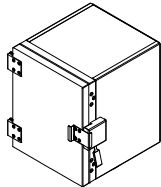
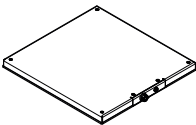
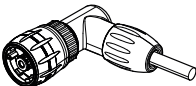
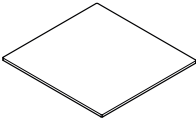
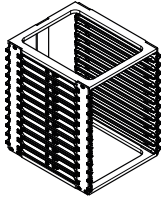
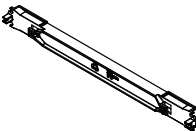
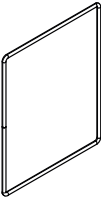
|                                                                                     | Order no. | Image                                                                                 |
|-------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Manifold flask adapter set, 24/40 joint size<br>with 6 adapters, incl. filter paper | 11067333  |    |
| Filter round 20mm Set à 100pcs<br>Filter for manifold valve                         | 11065801  |    |
| Filter round 47mm Set à 100pcs<br>Beaker flasks with volume above 600 mL            | 11065731  |    |
| Filter round 30mm Set à 100pcs<br>Beaker flasks with volume below 600 mL            | 11065728  |    |
| Unheatable shelf for stoppering                                                     | 11079991  |  |

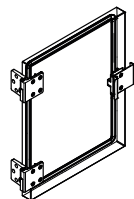
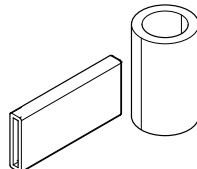
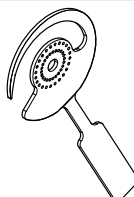
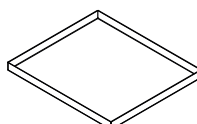
## Spare parts

|                               | Order no. | Image                                                                                 |
|-------------------------------|-----------|---------------------------------------------------------------------------------------|
| O-Ring Ø 300 mm               | 11065367  |  |
| Vacuum hose, KF 25, L 1000 mm | 11066031  |  |
| Vacuum clamp KF 16            | 11064939  |  |

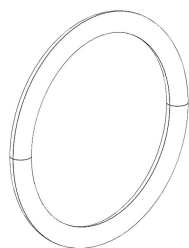
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|--------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Vacuum clamp ring KF 25                                | 11063662  |    |
| Vacuum clamp ring KF 40                                | 11063663  |    |
| Vacuum seal KF 16                                      | 11063455  |    |
| Vacuum seal KF 25                                      | 11063457  |   |
| Vacuum seal KF 40                                      | 11063659  |  |
| Vacuum flange adapter, stainless steel, KF 16 to KF 25 | 11064870  |  |
| Blind flange KF 16                                     | 11064902  |  |
| Blind flange KF 25                                     | 11063660  |  |
| Blind flange KF 40                                     | 11063661  |  |

## Frontloader spare parts

|                                                                  | Order no. | Image                                                                                 |
|------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Heatable Frontloader, cpl.<br>incl. 4 shelves, 4 cables and rack | 11084813  |    |
| Unheatable Frontloader, cpl.<br>incl. 4 shelves and rack         | 11084814  |    |
| Frontloader shelf, cpl.                                          | 11085186  |    |
| Cable for heatable shelves                                       | 11085205  |   |
| Drying chamber plate, unheatable                                 | 11085432  |  |
| Frontloader rack, cpl.                                           | 11085130  |  |
| Guide rails for Frontloader shelves                              | 11085064  |  |
| Frontloader door O-ring                                          | 11080752  |  |

|                                                                   | Order no. | Image                                                                                |
|-------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|
| Frontloader door<br>incl. hinge, handle and seals                 | 11080817  |   |
| Kit for door closure<br>incl. tube, handle protection and closure | 11085561  |   |
| Kit for handle<br>incl. metallic handle and plastic bearing       | 11085562  |   |
| Frontloader sample plate                                          | 11085470  |  |

## Wear parts

|                                              | Order no. | Image                                                                                 |
|----------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Mineral oil 1 L for vacuum pump Edwards RV5  | 11086495  |  |
| Maintenance kit for vacuum pump Edwards RV5  | 11086506  |                                                                                       |
| Tip seal kit for vacuum pump Edwards nXDS6iC | 11069617  |                                                                                       |
| Seals for drain valve, PTFE                  | 11081336  |                                                                                       |

## Software

|                            | Order no. |
|----------------------------|-----------|
| Lyovapor™ software licence | 11065668  |
| Lyovapor™ software USB     | 11065667  |

## **IQ/OQ kits**

|                 | <b>Order no.</b> |
|-----------------|------------------|
| IQ/OQ set en    | 11086293         |
| Repeating OQ en | 11086294         |

## **Maintenance kits**

|                                                                                                       | <b>Order no.</b> |
|-------------------------------------------------------------------------------------------------------|------------------|
| Customer kit for L-250 / L-210, with advanced vacuum control                                          | 11076718         |
| Frequently used wear and spare parts for self-servicing your device, conveniently gathered in one kit |                  |
| Customer kit for L-250 / L-210, with ultimate vacuum control                                          | 11076719         |
| Frequently used wear and spare parts for self-servicing your device, conveniently gathered in one kit |                  |



11594691D en Lyovapor™ L-210 Basic / L-210 Pro 05.2026  
Technical data are subject to change without notice  
Quality Systems ISO 9001

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