

*Spare part list:*

# BioUltra UL570 Std./Hybrid – HC/HFC – 50/60Hz

*Item number: 765042334 Rev. 009  
Release date: 17-09-2025  
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## Introduction, intended use and important notes

### BioUltra UL570

BioUltra ultra-low temperature bio storage cabinets are designed and built to last, ensuring maximum ROI as well as effective use of resources. They are meticulously engineered to use the least possible energy to greatest possible effect. Designed for an operating range between -60°C and -86°C, with a maximum ambient temperature of +30°C and a maximum relative humidity of 70%.

### Keeping temperatures stable

BioUltra cabinets ensure consistent temperatures throughout the storage space, and rapid temperature recovery after you have opened the door. This enables you to store blood, tissue and other lab material under the safest, most stable conditions possible.

### Hybrid

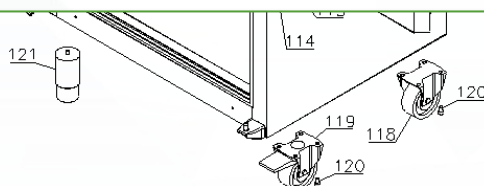
Besides a regular air-cooled condenser, the BioUltra is also available with a hybrid water/air-cooled condenser option (Requires process water supply). The hybrid option combines the convenience of minimal heat and noise emission from water cooling, with the safety of a redundant condensing system in the event of interruptions in the supply of process water - securing maximum item safety and cabinet uptime.

This spare part document is intended for the **BioUltra UL570** product series.

### Important note concerning understanding spare list

Please note that when ordering a spare part, the item number only applies to ordering one single spare part!

For this reason, there is a column in the tables with name “**Orig. used [pcs]**” that shows the amount of the spare parts that is originally used on the product. Eg. when ordering new legs, the item number only applies to one single piece, but the column informs that 4 pieces have been used. In columns with “**Introduced**” and “**Terminated**”, a six-digit number is given, which means product release year and week (YYYY-WW).

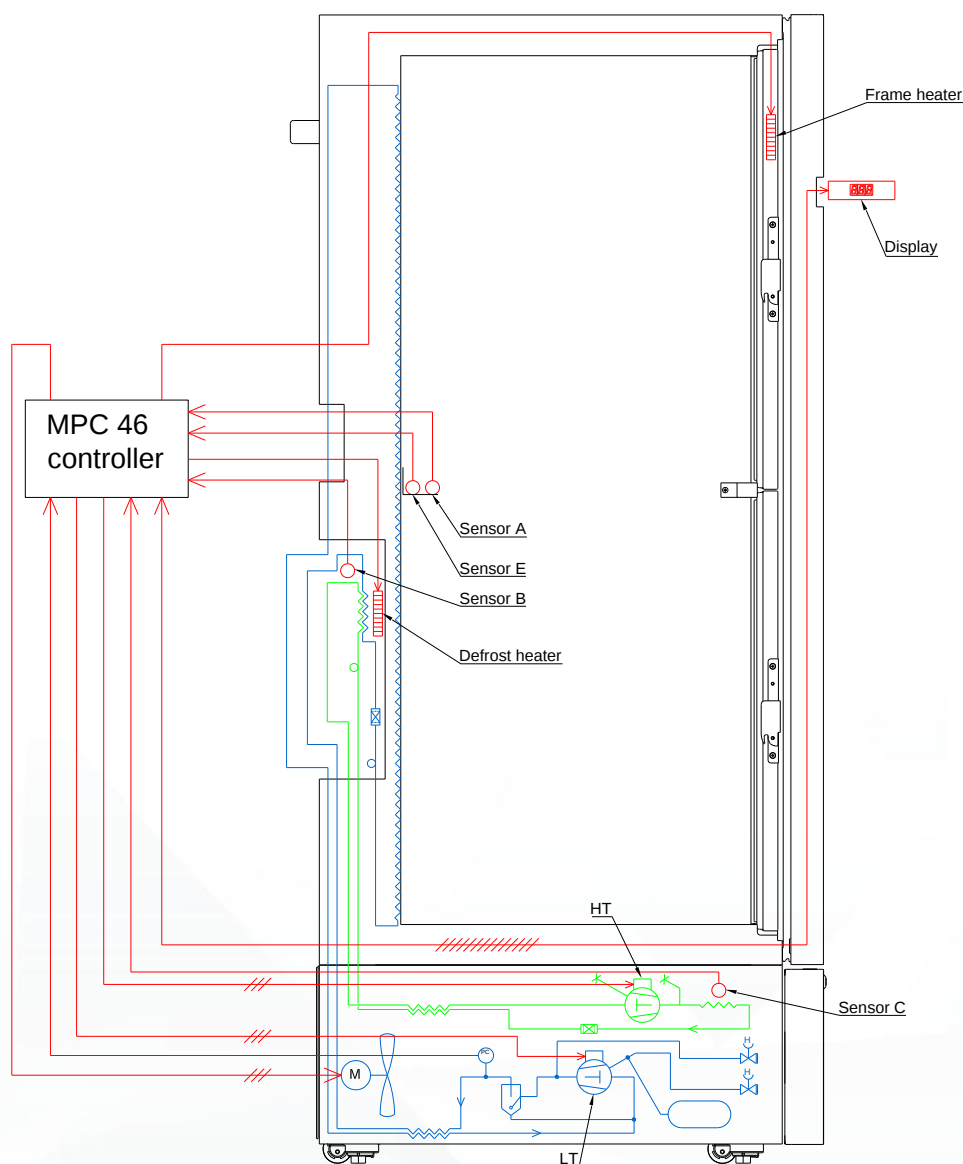


| Item no. | Description                           | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|---------------------------------------|------------------|---------------|------------|------------|
| 118      | Straight castor H = 125 mm            | 2                | 480270520     | 2016-37    |            |
| 119      | Swivel castor H = 125 mm w/brake 360° | 2                | 480260050     | 2016-37    |            |
| 120      | Screw M8x12                           | 16               | 422715000     | 2016-37    |            |
| 121      | Leg H = 100-130 mm                    | 4                | 765080118     | 2016-37    |            |
| 121      | Leg H = 134-200 mm                    | 4                | 765080115     | 2016-37    |            |
| 121      | Leg H = 180-250 mm                    | 4                | 765080116     | 2016-37    |            |

## Overall drawings of BioUltra UL570 cabinet

Sectional drawing of BioUltra cabinet with Electrical and Piping system represented.

LT piping system in blue, HT piping system in green and electrical system in red



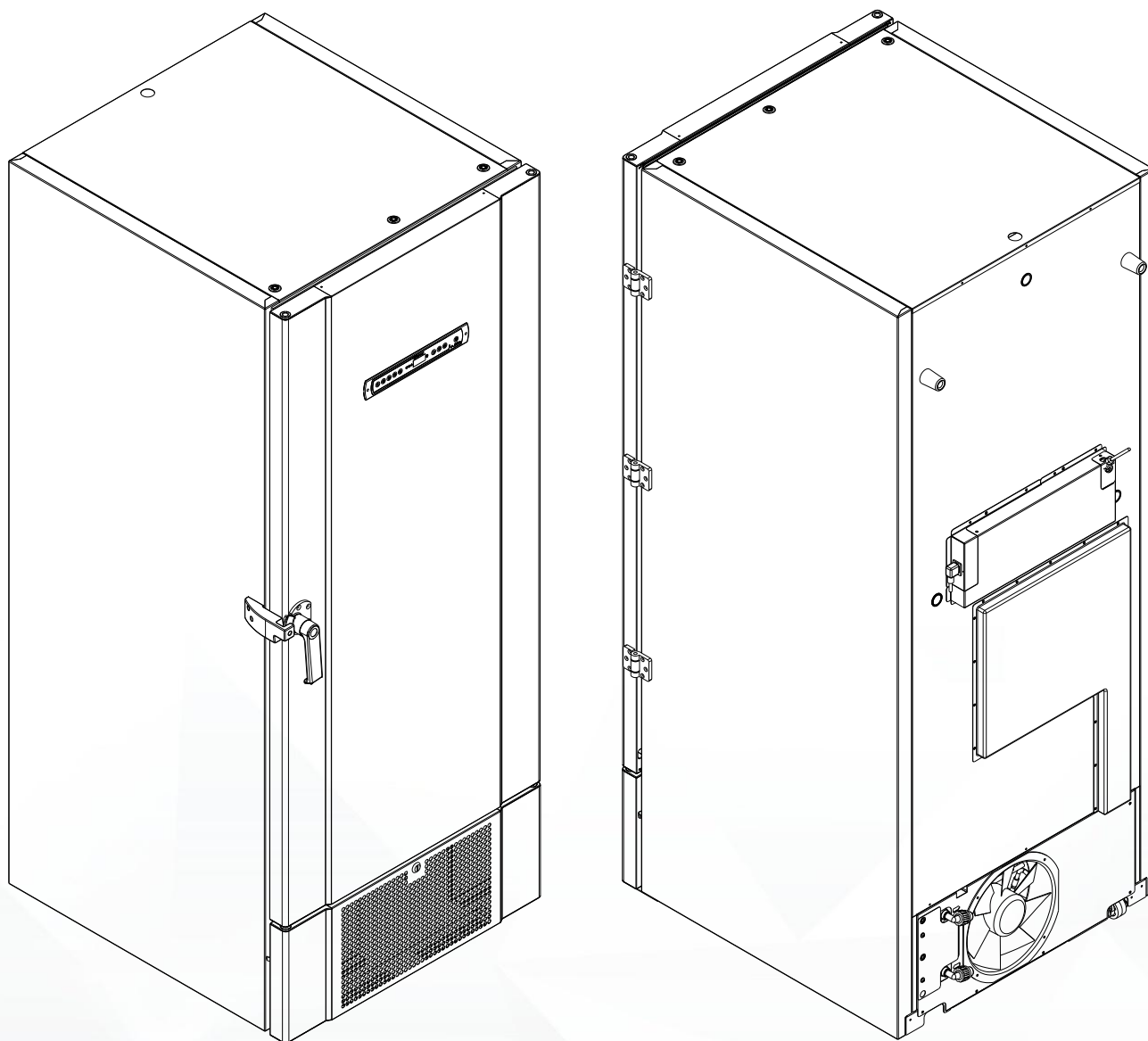
### Sensors and sensor positioning

| Item no. | Description                | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|----------------------------|------------------|---------------|------------|------------|
| A        | Room sensor (2000 mm)      | 1                | 453531513     | 2014-01    |            |
| B        | Cascade sensor (600 mm)    | 1                | 453531538     | 2014-01    | 2023-15    |
| B        | Cascade sensor (1500mm)    | 1                | 453531542     | 2023-16    |            |
| C        | Condenser sensor (2500 mm) | 1                | 453531504     | 2014-01    |            |
| E        | Reference sensor (2000 mm) | 1                | 453531513     | 2014-01    |            |

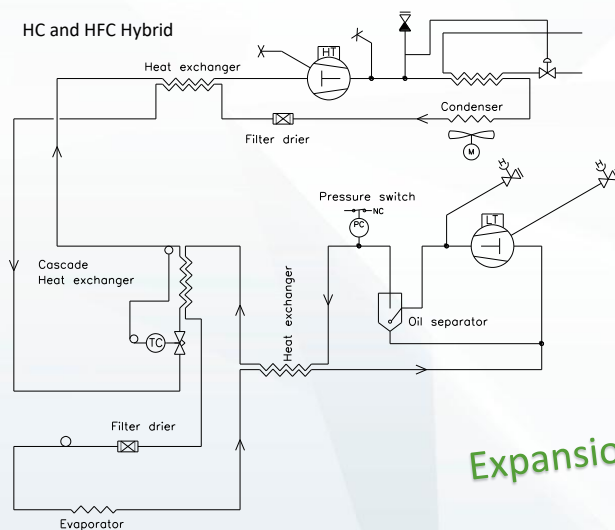
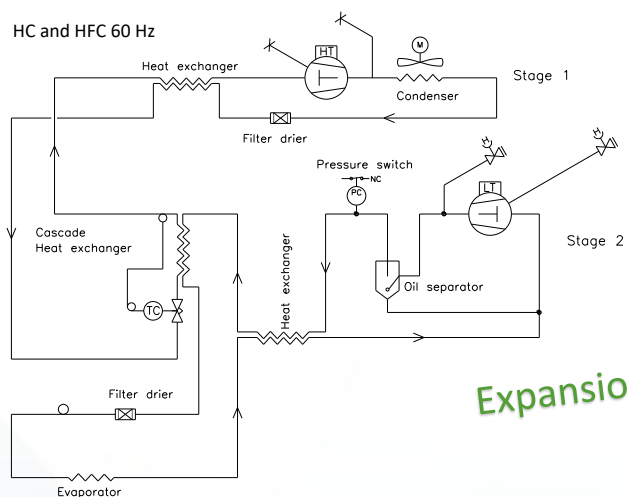
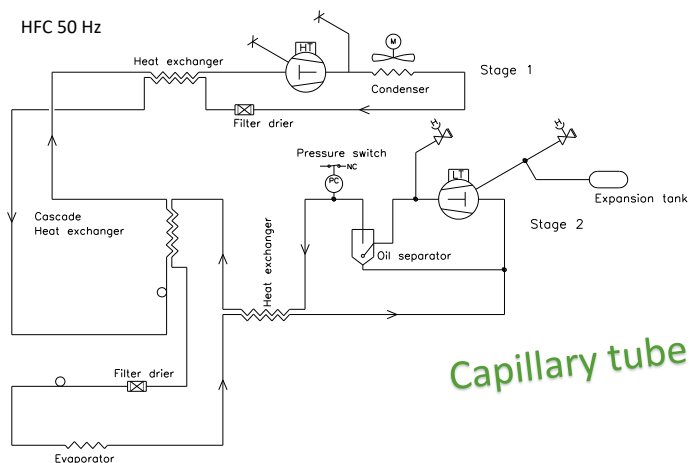
## Front and back view of BioUltra cabinet

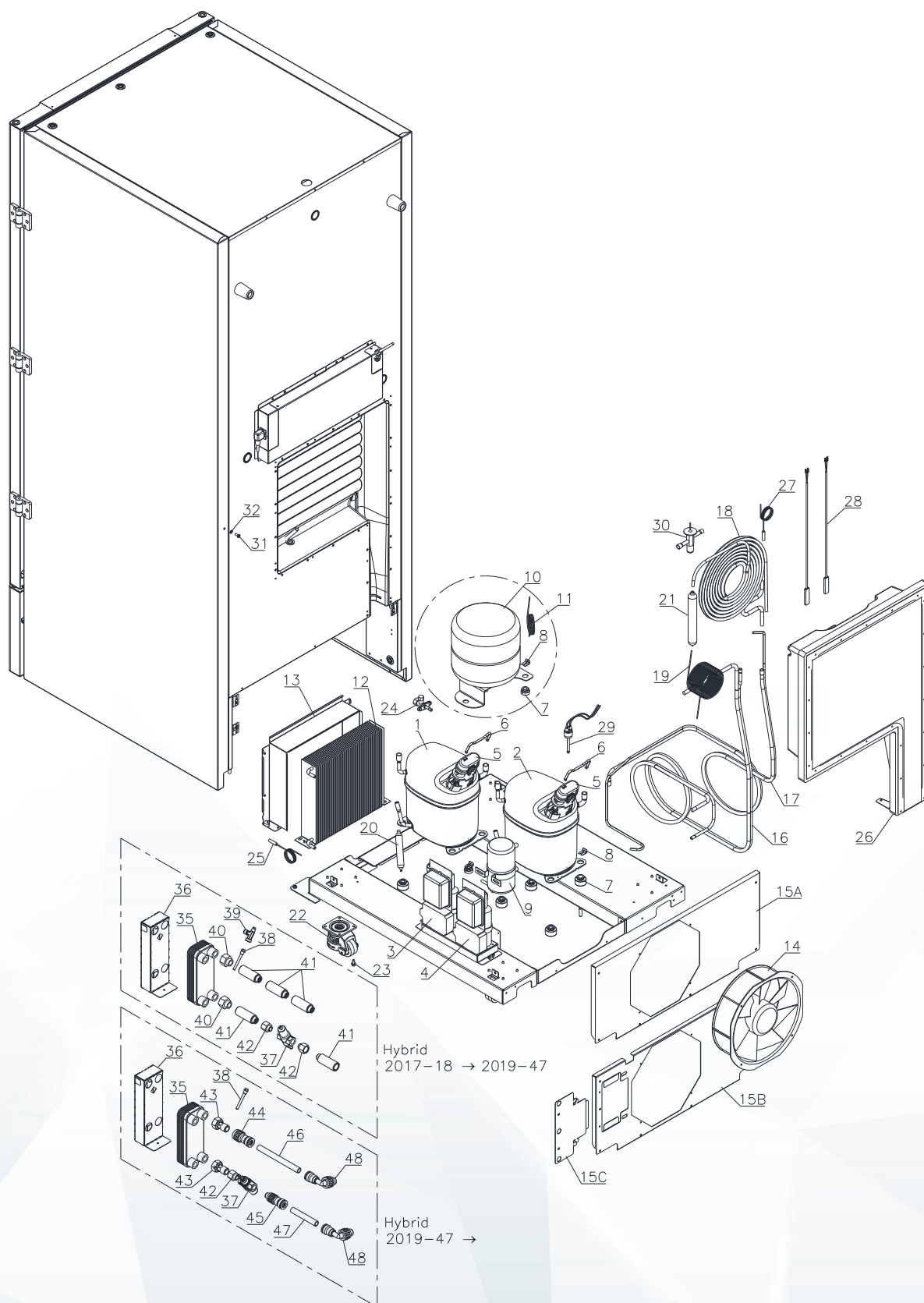
Front of cabinet (left) seen from left upper corner and down. Back of cabinet (right) seen from right upper corner and down.

Note: On backside at bottom the pipe spigots ready for water connection. This is not standard, but additional and only applicable for Hybrid versions.



## Refrigeration diagram and cooling parts





| Item no. | Compressor parts HC 50 Hz (R290/R170) | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|---------------------------------------|------------------|---------------|------------|------------|
| 1        | Compressor GS26CLX (HT) 50Hz          | 1                | 500550600     | 2020-08    |            |
| 2        | Compressor GS26CLX (LT) 50Hz          | 1                | 500550600     | 2020-08    |            |
| 3-4      | Starting device (GS26CLX) 50Hz        | 2                | 453051005     | 2020-08    |            |

| Item no. | Compressor parts HFC 50 Hz (R404A/R507) | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|-----------------------------------------|------------------|---------------|------------|------------|
| 1        | Compressor GS26CLX (HT) 50Hz            | 1                | 500550600     | 2014-01    |            |
| 2        | Compressor GS34CLX (LT) 50Hz            | 1                | 500550601     | 2014-01    | 2015-15    |
| 2        | Compressor GS26CLX (LT) 50Hz            | 1                | 500550600     | 2015-15    |            |
| 3-4      | Starting device (GS26CLX) 50Hz          | 2                | 453051005     | 2014-01    |            |
| 4        | Starting device (GS34CLX) 50Hz          | 1                | 453051006     | 2014-01    | 2015-15    |

| Item no. | Compressor parts HFC 60 Hz (R404A/R507) | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|-----------------------------------------|------------------|---------------|------------|------------|
| 1        | Compressor GS26CLX (HT) 60Hz            | 1                | 500550604     | 2019-18    |            |
| 2        | Compressor GS26CLX (LT) 60Hz            | 1                | 500550604     | 2019-18    |            |
| 3-4      | Starting device (GS26CLX) 60Hz          | 2                | 453050042     | 2019-18    |            |

| Item no. | Description                                | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|--------------------------------------------|------------------|---------------|------------|------------|
| 5        | Cover                                      | 2                | 452440281     | 2014-01    |            |
| 6        | Clamp                                      | 2                | 452440284     | 2014-01    |            |
| 7        | Rubber bush                                | 2 x 4            | 760080519     | 2014-01    |            |
| 8        | Compressor clip                            | 2 x 4            | 760082367     | 2014-01    |            |
| 9        | Oil separator                              | 1                | 600020052     | 2014-01    |            |
| 10       | Expansion tank                             | 1                | 600020020     | 2014-01    | 2019-46    |
| 11       | Capillary tube to exp. tank L=700 mm       | 1                | 760000340     | 2014-01    | 2016-09    |
| 12       | Condenser                                  | 1                | 765080166     | 2014-01    |            |
| 13       | Condenser shroud, white                    | 1                | 761238666     | 2014-01    |            |
| 13       | Condenser shroud, stainless                | 1                | 761238731     | 2014-01    |            |
| 14       | Condenser fan                              | 1                | 761238534     | 2014-01    |            |
| 15A      | Fan shroud, standard                       | 1                | 761238669     | 2014-01    |            |
| 15B      | Fan shroud 1, hybrid                       | 1                | 761238773     | 2019-10    |            |
| 15C      | Fan shroud 2, hybrid                       | 1                | 761238774     | 2019-10    |            |
| 16       | Heat exchanger LT                          | 1                | 760000337     | 2014-01    |            |
| 17       | Heat exchanger HT, Capillary tube          | 1                | 760000338     | 2014-01    |            |
| 17       | Heat exchanger HT, Expansion valve         | 1                | 760000449     | 2019-51    |            |
| 18       | Cascade heat exchanger                     | 1                | 760080969     | 2014-01    |            |
| 19       | Capillary tube LT                          | 1                | 760000341     | 2014-01    |            |
| 20       | Filter drier HT Ø6,1/2,6 (Capillary tube)  | 1                | 765080158     | 2014-01    |            |
| 20       | Filter drier HT Ø6,1/6,1 (Expansion valve) | 1                | 765080159     | 2019-51    |            |
| 21       | Filter drier LT                            | 1                | 765080194     | 2014-01    |            |
| 22       | Castor, adjustable                         | 4                | 480260105     | 2014-01    |            |
| 23       | Screw M6x12                                | 4 x 4            | 422712010     | 2014-01    |            |
| 24       | Auxiliary 2-way service valve              | 2                | 460978041     | 2016-17    |            |
| 25       | Condenser sensor (2500 mm)                 | 1                | 453531504     | 2014-01    |            |
| 26       | Cover for cascade system                   | 1                | 761238683     | 2014-01    |            |
| 27       | Cascade sensor (600 mm)                    | 1                | 453531538     | 2014-01    | 2023-15    |
| 27       | Cascade sensor PT10k                       | 1                | 453531542     | 2023-16    |            |

| Item no. | Description                        | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|------------------------------------|------------------|---------------|------------|------------|
| 28       | Defrost heater                     | 1                | 765072758     | 2014-01    | 2021-30    |
| 28       | Defrost heater                     | 2                | 765073329     | 2021-31    |            |
| 29       | Pressure switch                    | 1                | 410222000     | 2014-01    |            |
| 30       | Expansion valve TUB                | 1                | 413165030     | 2017-18    |            |
| 31       | M5 Screw for equipotential bonding | 1                | 422733001     | 2020-07    |            |
| 32       | Washer for equipotential bonding   | 1                | 421748009     | 2020-07    |            |

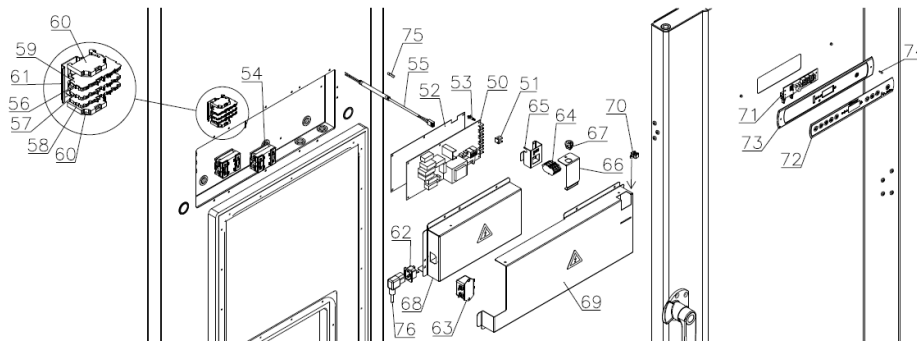
### Parts for Hybrid versions

| Item no. | Description                           | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|---------------------------------------|------------------|---------------|------------|------------|
| 35       | Condenser 2 kW                        | 1                | 765080221     | 2017-18    |            |
| 36       | Condenser holder                      | 1                | 761238588     | 2017-18    |            |
| 37       | Water valve                           | 1                | 765080149     | 2017-18    | 2019-47    |
| 37       | Water valve                           | 1                | 765080527     | 2019-47    |            |
| 38       | Schrader valve                        | 1                | 765080148     | 2017-18    |            |
| 39       | T-nipple w/schrader valve             | 1                | 765080519     | 2017-18    |            |
| 40       | Taper socket 1/2" x 3/4" brass        | 2                | 460318068     | 2017-18    | 2019-47    |
| 41       | Tap extension 1/2" 65 mm              | 5                | 460318067     | 2017-18    | 2019-47    |
| 42       | Taper socket 1/2" x 3/8" brass        | 2                | 460318065     | 2017-18    |            |
| 43       | Screwed coupling 1/2" x 3/4"          | 2                | 460318069     | 2019-47    |            |
| 44       | Alupex fitting 16 mm x 1/2" inside    | 1                | 460318076     | 2019-47    |            |
| 45       | Alupex fitting 16 mm x 3/8" outside   | 1                | 460318075     | 2019-47    |            |
| 46       | 16 x 2 mm Alupex tube L=166 mm        | 1                | 761234139     | 2019-47    |            |
| 47       | 16 x 2 mm Alupex tube L=100 mm        | 1                | 761234138     | 2019-47    |            |
| 48       | Alupex fitting 16 mm x 1/2" outs. 90° | 2                | 460318074     | 2019-47    |            |

## Electrical parts (50/60Hz)

### Controller and electrical terminal box

Controller (back) and Door (front):

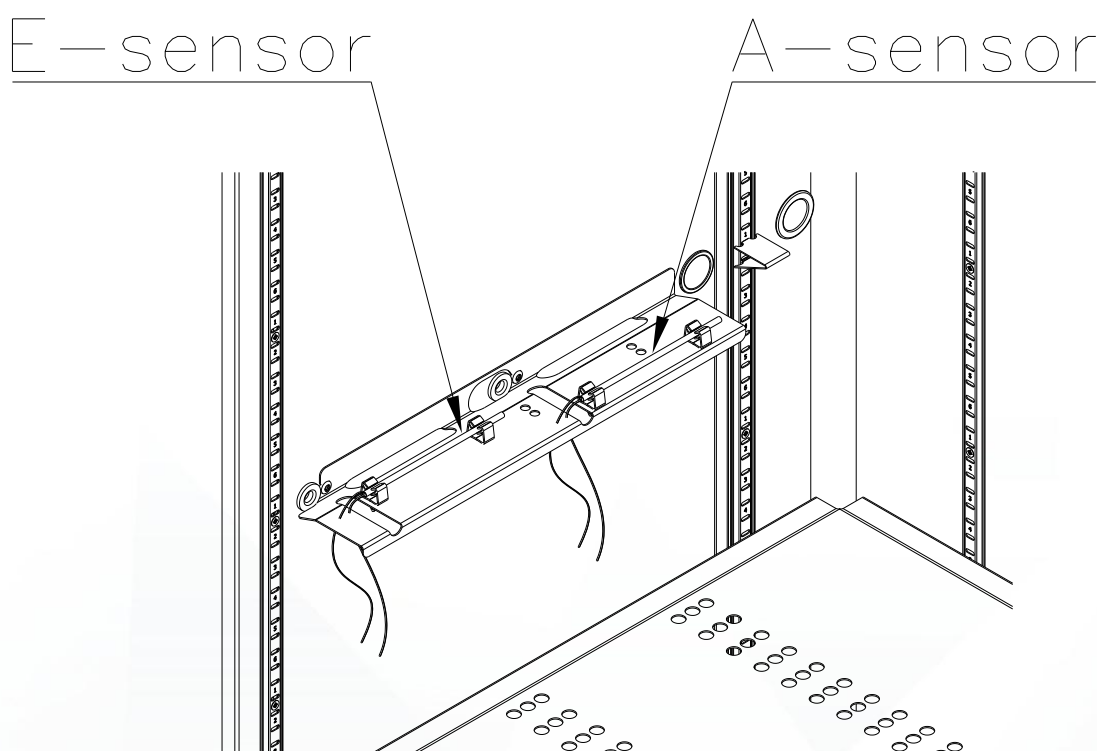


| Item no. | Description                                  | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|----------------------------------------------|------------------|---------------|------------|------------|
| 50       | Controller power part E3+ (Capillary tube)   | 1                | 761256142     | 2014-01    | 2023-15    |
| 50       | Controller power part E6+ (Expansion valve)  | 1                | 761256171     | 2019-47    | 2023-15    |
| 50       | Controller power part E7+ (Capillary tube)   | 1                | 761256176     | 2023-16    |            |
| 50       | Controller power part E8+ (Expansion valve)  | 1                | 761256177     | 2023-16    |            |
| 50       | Controller power part E8+ Incl. Sensor       | 1                | 761250804     | 2023-16    |            |
| 50       | Controller power part E7+ Incl. Sensor       | 1                | 761250805     | 2023-16    |            |
| 51       | AMP Duo Plug 2.5 frame                       | 4                | 452260601     | 2014-01    |            |
| 52       | Plastic foil                                 | 1                | 765040777     | 2014-01    |            |
| 53       | Spacer                                       | 6                | 451119515     | 2014-01    |            |
| 54       | Contactor B6-40-00                           | 2                | 450241000     | 2014-01    | 2015-35    |
| 54       | SSR relay                                    | 2                | 450200300     | 2015-35    |            |
| 55       | Cable to SSR incl. resistance                | 2                | 765071445     | 2015-35    |            |
| 56       | Terminal block, grey                         | 1                | 765070706     | 2014-01    |            |
| 57       | Terminal block, blue                         | 1                | 765070707     | 2014-01    |            |
| 58       | Terminal block, yellow/green                 | 1                | 765070708     | 2014-01    |            |
| 59       | Terminal block end plate                     | 1                | 765070709     | 2014-01    |            |
| 60       | Terminal block end stop                      | 2                | 765070711     | 2014-01    |            |
| 61       | DIN rail                                     | 1                | 760254475     | 2014-01    |            |
| 62       | Appliance inlet                              | 1                | 451022002     | 2014-01    |            |
| 63       | EMC/EMI filter                               | 1                | 451022004     | 2020-13    |            |
| 64       | Terminal block for alarm                     | 1                | 765070705     | 2014-01    |            |
| 65       | Bracket for alarm terminal                   | 1                | 761232157     | 2014-01    |            |
| 66       | Cover for alarm terminal                     | 1                | 761238673     | 2014-01    |            |
| 67       | Cord relief                                  | 1                | 422210002     | 2014-01    |            |
| 68       | Cover for high current parts                 | 1                | 761234092     | 2014-01    |            |
| 69       | Cover for low current parts                  | 1                | 761234093     | 2014-01    |            |
| 70       | Cable clamp                                  | 2                | 452470001     | 2014-01    |            |
| 71       | Display PCB                                  | 1                | 612900058     | 2014-01    | 2025-38    |
| 71       | Display PCB                                  | 1                | 612900059     | 2025-39    |            |
| 72       | Keypad – 9 buttons                           | 1                | 765041752     | 2014-01    |            |
| 73       | Display holder                               | 1                | 761238685     | 2014-01    |            |
| 74       | Plug for display holder                      | 2                | 765081251     | 2014-01    |            |
| 75       | 10 A Time-delay fuses 5 x 20 mm              | 2                | 765070719     | 2015-35    |            |
| 76       | Power cord EU (1,0 mm <sup>3</sup> / 3000mm) | 1                | 765072566     | 2014-01    |            |
| 76       | Power cord UK (1,0 mm <sup>3</sup> / 3000mm) | 1                | 765072567     | 2014-01    |            |
| 76       | Power cord DK (1,0 mm <sup>3</sup> / 3000mm) | 1                | 765072568     | 2014-01    |            |

## Sensors and sensor positioning

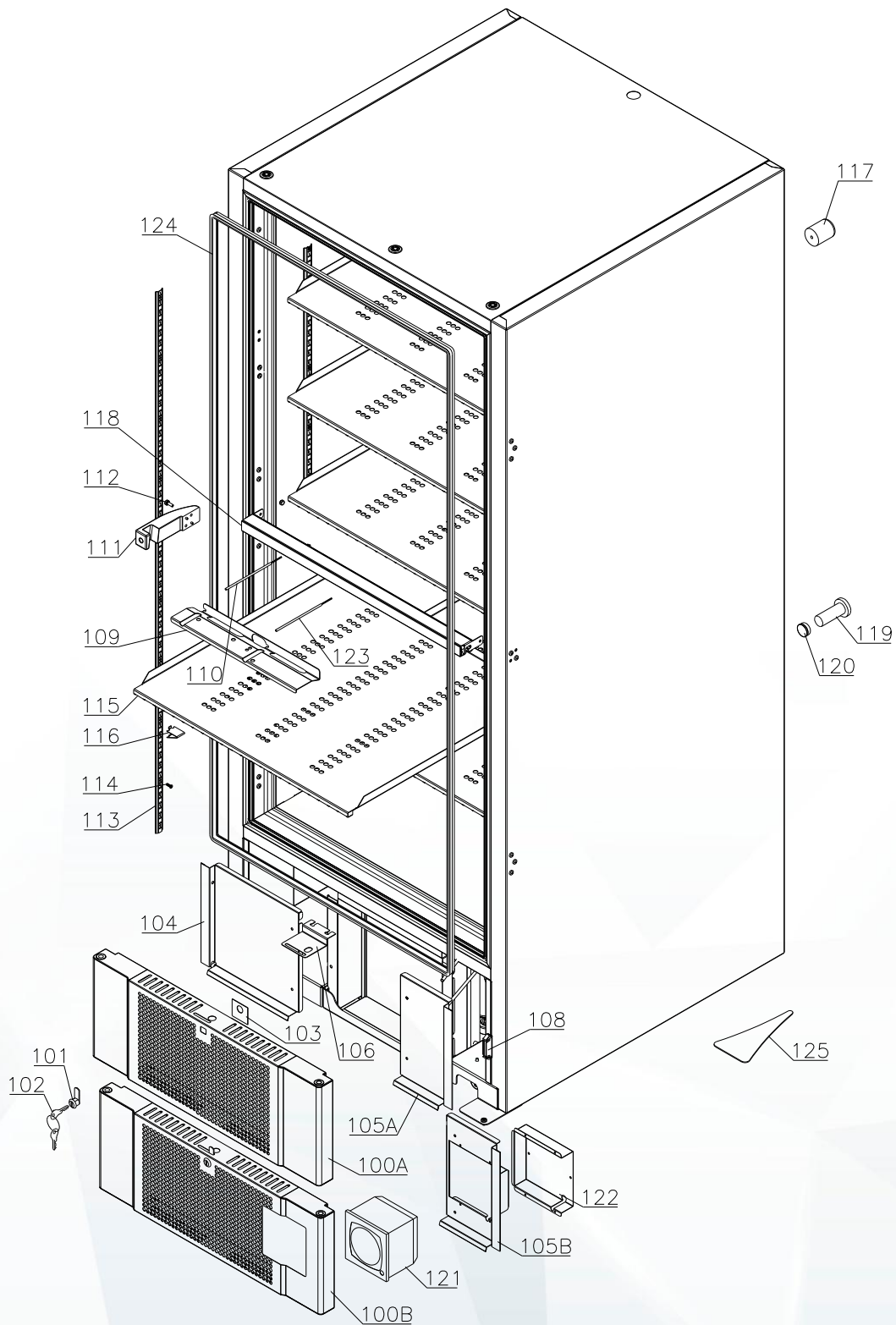
| Item no. | Description                | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|----------------------------|------------------|---------------|------------|------------|
| <b>A</b> | Room sensor (2000 mm)      | 1                | 453531513     | 2014-01    |            |
| <b>B</b> | Cascade sensor (600 mm)    | 1                | 453531538     | 2014-01    | 2023-15    |
| <b>B</b> | Cascade sensor (1500mm)    | 1                | 453531542     | 2023-16    |            |
| <b>C</b> | Condenser sensor (1500 mm) | 1                | 453531504     | 2014-01    |            |
| <b>E</b> | E-sensor (2000 mm)         | 1                | 453531513     | 2014-01    |            |

**Note:** For A- and E-sensor, see section for Mechanical parts. For B- and C-sensor see section for Refrigeration parts



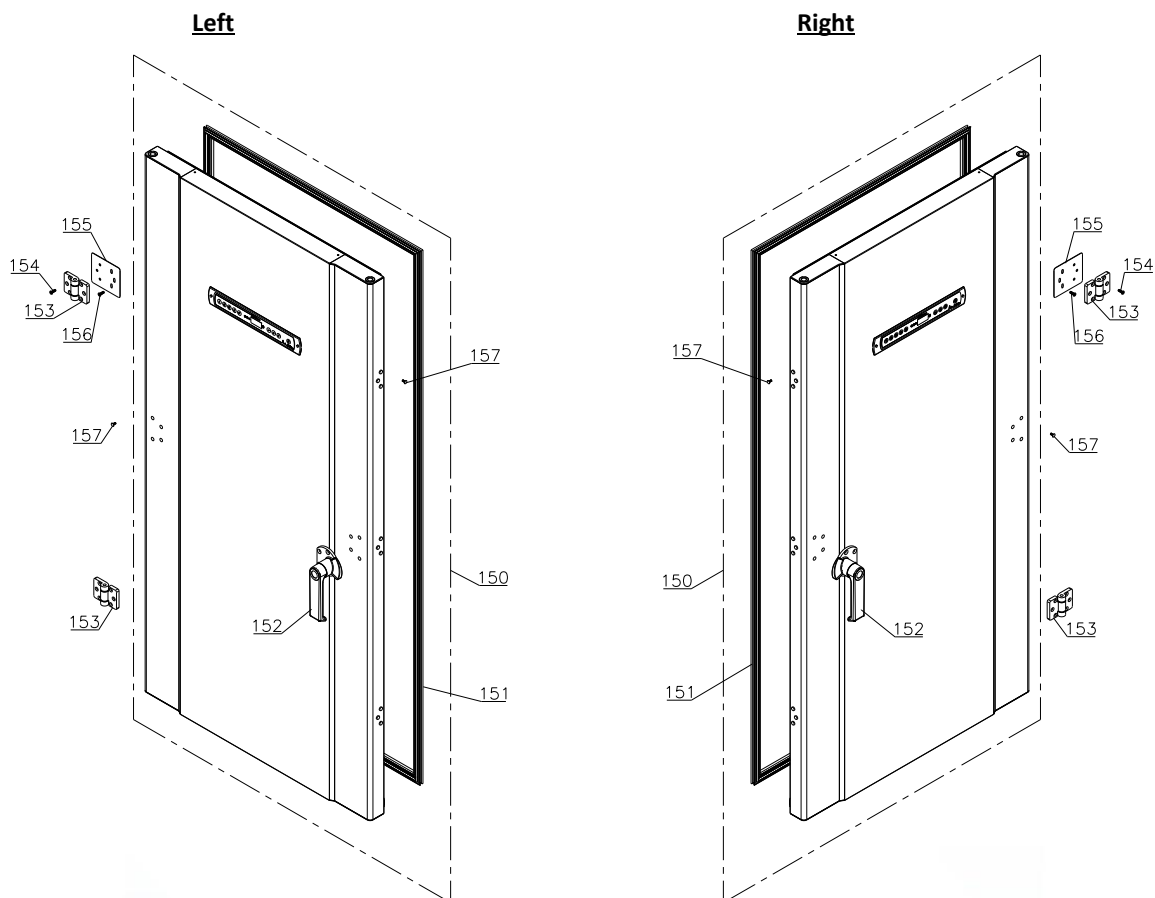
## Mechanical parts

### Cabinet



| Item no. | Description                                                       | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|-------------------------------------------------------------------|------------------|---------------|------------|------------|
| 100A     | Front panel complete, white                                       | 1                | 761231490     | 2014-01    |            |
| 100A     | Front panel complete, stainless                                   | 1                | 761234033     | 2014-01    |            |
| 100B     | Front panel complete for chart – white                            | 1                | 761234034     | 2014-01    |            |
| 100B     | Front panel complete for chart – stainless                        | 1                | 761234083     | 2014-01    |            |
| 101      | Lock complete B842/58/2 - w/2 keys<br>(random combination number) | 1                | 765080092     | 2014-01    |            |
| 102      | Key no. 1 (25010)                                                 | 1                | 765080340     | 2014-01    |            |
| 102      | Key no. 2 (25020)                                                 | 1                | 765080341     | 2014-01    |            |
| 102      | Key no. 3 (25030)                                                 | 1                | 765080342     | 2014-01    |            |
| 102      | Key no. 4 (25040)                                                 | 1                | 765080343     | 2014-01    |            |
| 102      | Key no. 5(25050)                                                  | 1                | 765080344     | 2014-01    |            |
| 102      | Master key                                                        | 1                | 765080385     | 2014-01    |            |
| 103      | Lock bracket                                                      | 1                | 760091149     | 2014-01    |            |
| 104      | Condenser screen, left                                            | 1                | 761238664     | 2014-01    |            |
| 105A     | Condenser screen, right                                           | 1                | 761238663     | 2014-01    |            |
| 105B     | Condenser screen, right, f. chart recorder                        | 1                | 761238739     | 2014-01    |            |
| 106      | Lock backstop bracket                                             | 1                | 761238562     | 2014-01    |            |
| 108      | Magnet for front panel                                            | 1                | 761253312     | 2014-01    |            |
| 109      | Sensor shelf                                                      | 1                | 761238553     | 2014-01    |            |
| 110      | Reference sensor (E-sensor, 2000 mm)                              | 1                | 453531513     | 2014-01    |            |
| 111      | Strike side-mount, right hand                                     | 1                | 765080471     | 2014-01    |            |
| 111      | Strike side-mount, left hand                                      | 1                | 765080473     | 2014-01    |            |
| 112      | Screw for striker                                                 | 2                | 420182020     | 2014-01    |            |
| 113      | Wall rail                                                         | 6                | 761238594     | 2014-01    |            |
| 114      | Screw for wall rail                                               | 24               | 420168170     | 2014-01    |            |
| 115      | Shelf                                                             | 5                | 761238599     | 2014-01    |            |
| 116      | Shelf support                                                     | 30               | 761238592     | 2014-01    |            |
| 117      | Spacer bush L = 50 mm                                             | 2                | 762251184     | 2014-01    |            |
| 118      | Cabinet crossbar                                                  | 1                | 761238628     | 2014-01    |            |
| 119      | Insulation plug for access port                                   | 6                | 765080563     | 2014-01    |            |
| 120      | Plastic cap                                                       | 3                | 501020023     | 2014-01    |            |
| 121      | Chart recorder                                                    | 1                | 761256515     | 2014-01    |            |
| 122      | Back cover                                                        | 1                | 761238740     | 2014-01    |            |
| 123      | Room sensor (A-sensor, 2000 mm)                                   | 1                | 453531513     | 2014-01    |            |
| 124      | Gasket inside cabinet frame (4200 mm)                             | 1                | 761238629     | 2014-01    | 2022-05    |
| 124      | Gasket inside cabinet frame                                       | 2                | 761238866     | 2022-05    |            |
| 125      | Ice scraper GRAM                                                  | 1                | 765080526     | 2014-01    |            |

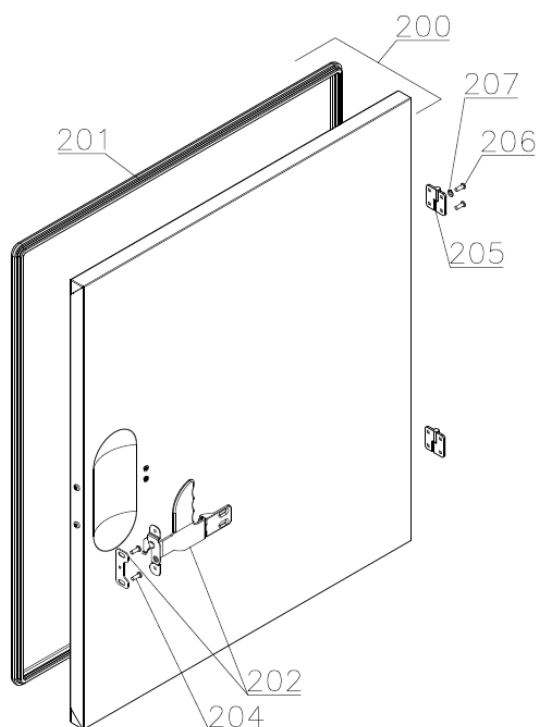
## External Door



| Item no. | Description                                                        | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|--------------------------------------------------------------------|------------------|---------------|------------|------------|
| 150      | Door complete, white – Right<br>(handle pos. 152 not included)     | 1                | 761231489     | 2014-01    |            |
| 150      | Door complete, white – Left<br>(handle pos. 152 not included)      | 1                | 761234084     | 2014-01    |            |
| 150      | Door complete, stainless – Right<br>(handle pos. 152 not included) | 1                | 761234035     | 2014-01    |            |
| 150      | Door complete, stainless – Left<br>(handle pos. 152 not included)  | 1                | 761234085     | 2014-01    |            |
| 151      | Gasket                                                             | 1                | 761238641     | 2014-01    | 2022-05    |
| 151      | Gasket                                                             | 1                | 761238678     | 2022-05    |            |
| 152      | Handle, right hand                                                 | 1                | 765080470     | 2014-01    |            |
| 152      | Handle, left hand                                                  | 1                | 765080472     | 2014-01    |            |
| 153      | Hinge                                                              | 3                | 424180030     | 2014-01    |            |
| 154      | Screw for hinge                                                    | 18               | 420182025     | 2014-01    |            |
| 155      | Transport security plate                                           | 2                | 761238573     | 2014-01    |            |
| 156      | Screw for transport security plate                                 | 12               | 420182000     | 2014-01    |            |
| 157      | Plastic cover plug, white                                          | 17               | 765080504     | 2014-01    | 2021-34    |
| 157      | Plastic cover plug, grey                                           | 17               | 765080501     | 2014-01    | 2021-34    |
| 157      | Screws                                                             | 17               | 420182000     | 2021-35    |            |

**Note:** All items 150 includes Display, Wiring and Gasket. Handles and hinges must be ordered separately

## Internal Door



| Item no. | Description                                                                       | Orig. used (pcs) | Gram part no. | Introduced | Terminated |
|----------|-----------------------------------------------------------------------------------|------------------|---------------|------------|------------|
| 200      | Internal door complete (top – Right hinged) (Inner door lock set not included)    | 1                | 761234019     | 2014-01    |            |
| 200      | Internal door complete (bottom – Right hinged) (Inner door lock set not included) | 1                | 761234126     | 2014-01    |            |
| 201      | Gasket                                                                            | 2                | 761238649     | 2014-01    | 2022-05    |
| 201      | Gasket                                                                            | 2                | 761238867     | 2022-05    |            |
| 202      | Inner door lock set - Right                                                       | 2                | 761238555     | 2014-01    |            |
| 202      | Inner door lock set - Left                                                        | 2                | 761238556     | 2014-01    |            |
| 204      | Inner door striker screw                                                          | 4                | 420340098     | 2014-01    |            |
| 205      | Hinge                                                                             | 4                | 424180032     | 2014-01    |            |
| 206      | Screw for hinge                                                                   | 16               | 420182025     | 2014-01    |            |
| 207      | Washer for hinge                                                                  | 8                | 421708005     | 2014-01    |            |



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## Log book

Continuous changes are introduced in the log book.

### Version 009:

- **17. September 2025:**
  - o Pos. 71 Display 612900058 replaced by 612900059

### Version 008:

- **19. January 2024:**
  - o Pos. 28 Defrost heater, 1 -> 2 pcs.
  - o Pos. 76 Power cord added.

### Version 007:

- **28. April 2023:**
  - o Pos. 27 Cascade sensor PT10k replace Cascade sensor 300Ohm NTC.
  - o Pos. 50 Controller power part E7+ (Capillary tube) added.
  - o Pos. 50 Controller power part E8+ (Expansion valve) added.
  - o Pos. 50 Controller power part E8+ Incl. Sensor added.
  - o Pos. 50 Controller power part E7+ Incl. Sensor added.

### Version 006:

- **30. January 2023:** Pos. 203 striker removed from Spare Part document.

### Version 001-005:

- **21. December 2022:** First release of this Spare Part document.

|                                                                                                            |                            |                                     |                              |               |                            |
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## Notes

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