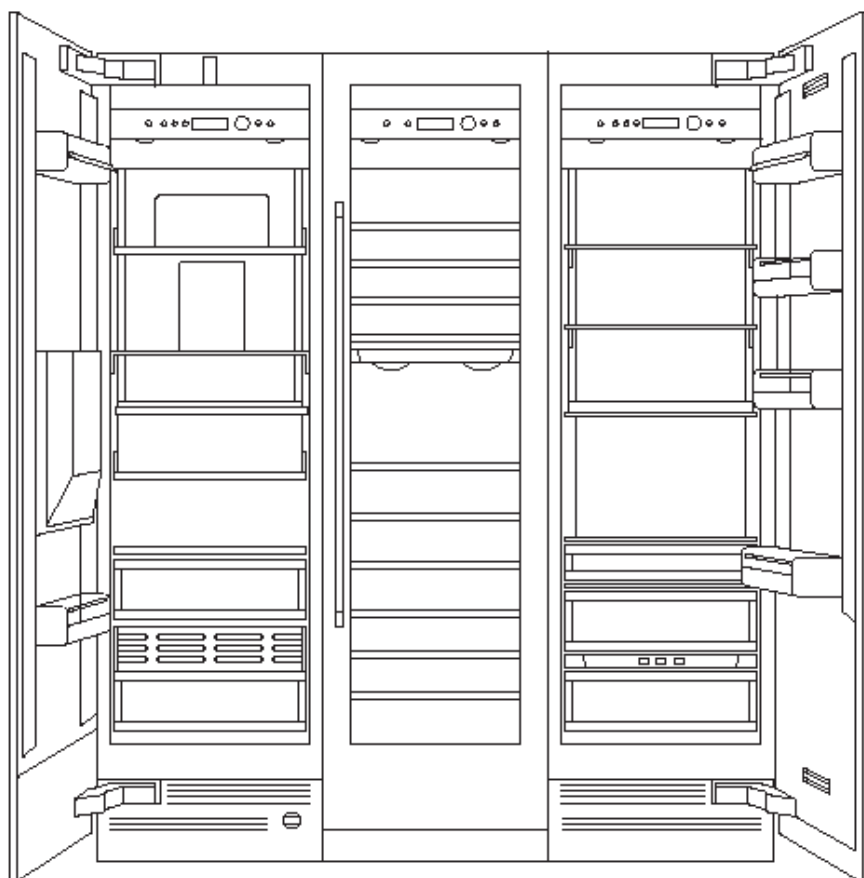


# Vario Cooling appliances



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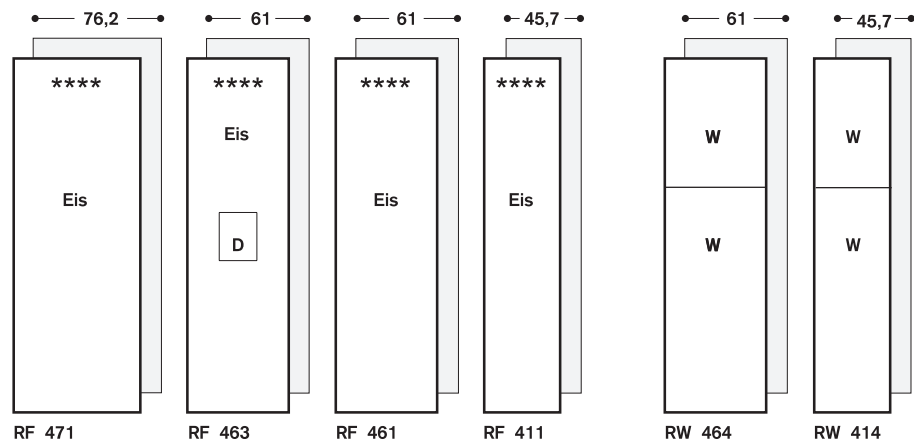
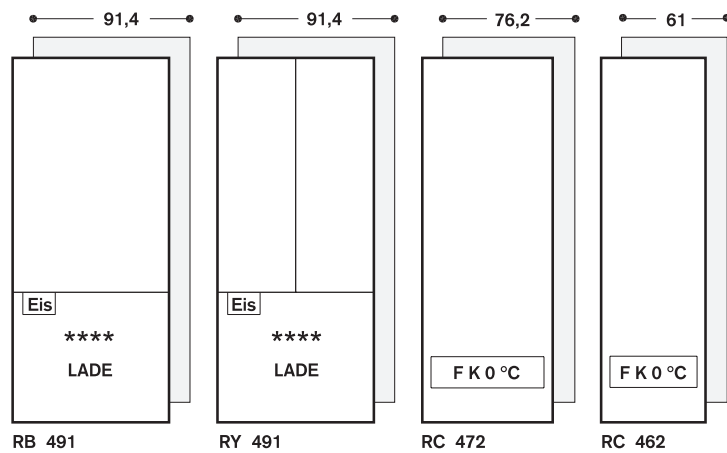
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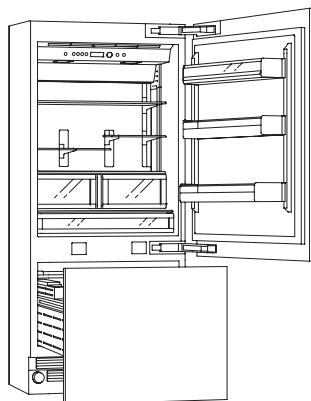
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## Overview of Vario fridges/Vario freezers/Vario wine storage cabinets

Niche 213 cm



Ice: Ice maker  
 FC 0 °C: Fresh cooling close to 0 °C  
 W: Wine  
 D: Ice and water dispenser



Vario fridge-freezer combination  
with integrated ice maker,  
fully integrated

**RB 491-200**

With one door and bottom freezer

**RY 491-200**

With two doors and bottom freezer

Included in the price:  
One ice scoop.

**RB/RV 491-200 \*\*\*\***

- Fully integrated appliances. Doors open to a 115-degree angle, so that the large drawers can be pulled out completely.
- One asymmetrically split shelf and one motorised glass shelf to make best use of the refrigerator's interior space.
- Integrated ice maker in the freezer drawer, with water connection.

Niche height 213.4 cm.  
Niche width 91.4 cm.  
Gross volume 560 litres.  
Net volume 530 litres.  
Energy consumption 1.15 kWh/24 h.  
**Energy efficiency class A+.**

Electronic temperature control with digital temperature display, Dynamic cold air distribution. Activated charcoal air filter. Automatic defrosting with defrost water evaporation. Energy-saving vacation mode. Open-door and malfunction warning system.

#### Cooling zone

Net volume 392 litres.  
No-frost technology with fast cooling.  
Temperature adjustable from +2° to +8 °C.  
Two continuous safety glass shelves with aluminium, one of which is motorised.  
One asymmetrically split shelf, manually adjustable.  
Three fully extendable drawers with transparent front, one of which is full width.  
Bright interior lighting with two ceiling spots and two halogen light pillars on the side.  
Solid aluminium door racks.  
One large bottle rack per door.  
Two height-adjustable racks per door.  
One rack with front flap per door.

#### Freezer zone

Net volume 138 litres.  
No-frost technology with fast freezing.  
Temperature adjustable from -14° to -25 °C.  
Four-star freezer compartment.  
Freezing capacity 23 kg/24 h.  
Storage time after a malfunction 22 h.  
Two fully extendable drawers.  
Interior lighting with two spots.

#### Ice maker

Integrated ice maker in the freezer compartment, can be switched off separately, with removable ice bin. Ice making capacity approx. 1.5 kg/24 h.  
Supply at normal operation approx. 1.5 kg/24 h.

#### Special accessories:

**RA 035-030** Aluminium bottle cooler.

**RA 450-010** Activated charcoal filter for water filter system including saturation indicator.

**RA 421-910** Stainless steel door panel with handles for RB 491.

**RA 421-912** Stainless steel door panel with handles for RY 491.

**RA 421-930** Aluminium door panel with handles for RB 491

**RA 421-932** Aluminium door panel with handles for RY 491.

**RA 461-910** Ventilation grille

Stainless steel, for RB 491 and RY 491.

**Flat hinge.**

Door hinge right, reversible (for RB 491-200).

The power socket can be planned behind the appliance.

**Planning note:**

**Rating:**

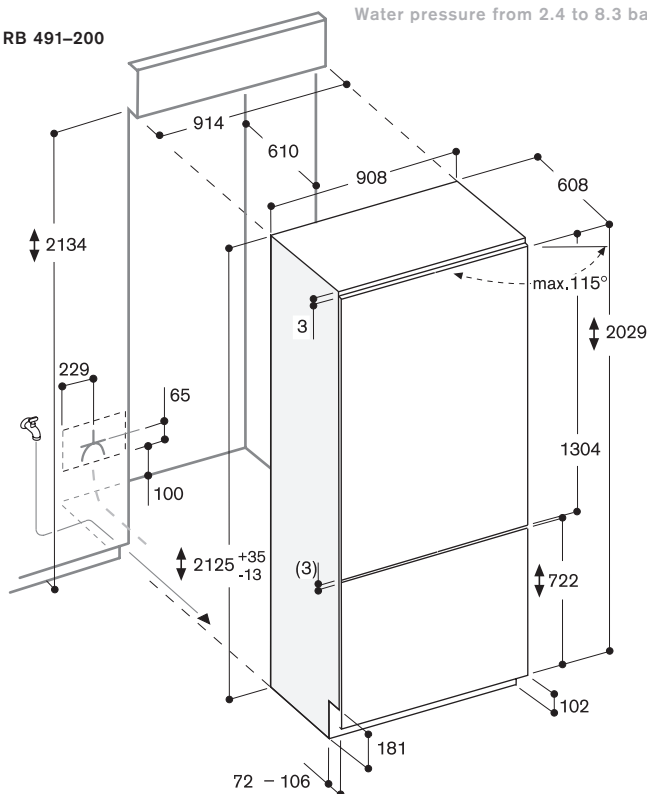
**Total connected load 0.57 kW.**

**Connecting cable length 2 m**, with plug.

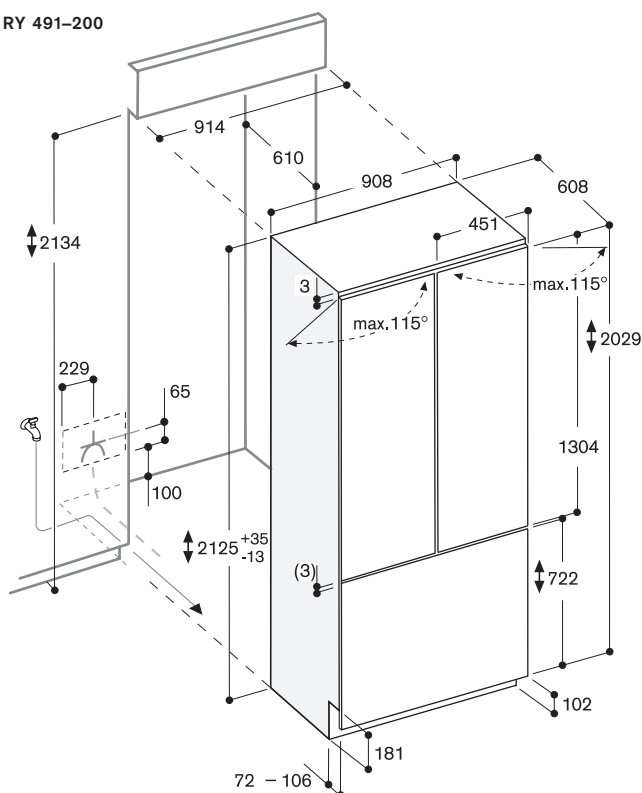
**Supply hose length 3 m**, with 3/4" connection.

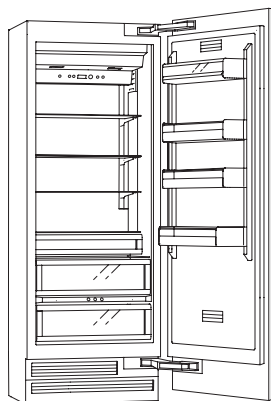
**Water pressure from 2.4 to 8.3 bar.**

**RB 491-200**



**RY 491-200**





Vario refrigerator,  
fully integrated

RC 462–200  
Width 61 cm

RC 472–200  
Width 76,2 cm

#### RC 4.2–200

##### – Fully integrated appliances.

Doors open to a 115-degree angle, so that the large drawers can be pulled out completely.

##### – Temperature control drawer

(0°C to 3°C) for the storage of delicate foods, such as fish, meat or vegetables.

– **Motorised glass shelf**, continuously variable, even when fully loaded. For highest volume efficiency.

Niche height 213.4 cm.  
Gross volume 381/496 litres.  
Net volume 365/477 litres.  
Energy consumption  
0.40/0.44 kWh/24 h.

**Energy efficiency class A+.**

Electronic temperature control with digital temperature display, Dynamic cold air distribution with Multi-Air-Flow.  
Activated charcoal air filter.  
Automatic defrosting with defrost water evaporation.  
Energy-saving vacation mode.  
Open-door and malfunction warning system.

##### Cooling zone

Net volume 314/410 litres.  
No-frost technology with fast cooling.  
Temperature adjustable from +2° to +8°C.  
Four safety glass shelves, three of which are adjustable (one motorised, two manual).  
Two fully extendable drawers (one shallow, one deep) with transparent front.  
Bright interior lighting with two ceiling spots and two halogen light pillars on the side.  
Solid aluminium door racks.  
One large bottle door rack.  
Two height-adjustable door racks.  
One rack with front flap.

##### Fresh cooling zone close to 0°

Net volume 51/67 litres.  
Separate automatic temperature control, with settings for fish, meat or vegetables.  
A large, fully extendable drawer with transparent front and integrated lighting.

#### Special accessories:

RA 421–610 Stainless steel door panel with handle for RC 462.

RA 421–630 Aluminium door panel with handle for RC 462.

RA 421–710 Stainless steel door panel with handle for RC 472.

RA 421–730 Aluminium door panel with handle for RC 472.

RA 461–612 Ventilation grille  
Stainless steel, for RC 462.  
Right-hinged.

RA 461–613 Ventilation grille  
Stainless steel, for RC 462.  
Left-hinged.

RA 461–712 Ventilation grille  
Stainless steel, for RC 472.  
Right-hinged.

RA 461–713 Ventilation grille  
Stainless steel, for RC 472.  
Left-hinged.

#### Planning note:

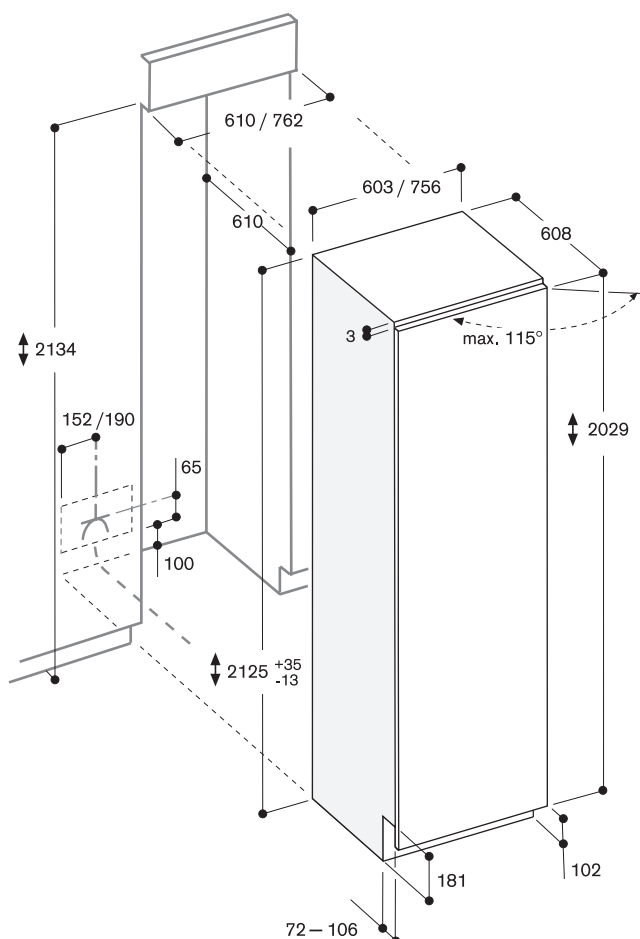
##### Flat hinge.

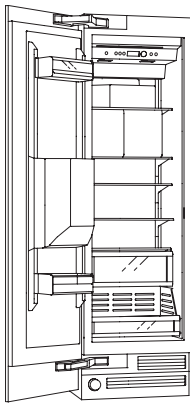
Door hinge right, reversible.  
The power socket can be planned behind the appliance.

#### Rating:

##### Total connected load

0.27/0.31 kW;  
**Connecting cable** length 2 m,  
with plug.





**Vario freezer**  
**With ice and water dispenser**  
**Width 61 cm**  
**Fully integrated**

**RF 463-200**  
**Right-hinged**

**RF 463-201**  
**Left-hinged**

**RF 463-20. \*\*\*\***

- **Fully integrated appliances.** Doors open to a 115-degree angle, so that the large drawers can be pulled out completely.
- **Stainless steel, aluminium and glass interior** to high hygiene standards, just like in a professional kitchen.
- **Integrated ice maker** with water connection and dispenser for ice cubes, crushed ice and chilled water.

Niche height 213.4 cm.  
 Gross volume 320 litres.  
 Net volume 294 litres.

Energy consumption  
 0.93 kWh/24 h.  
**Energy efficiency class B.**

Electronic temperature control with digital temperature display, Dynamic cool air distribution. Automatic defrosting with defrost water evaporation. Energy-saving vacation mode. Open-door and malfunction warning system.

#### Freezer zone

No-frost technology with fast freezing.  
 Temperature adjustable from -14 ° to -25 °C.  
 Four-star freezer compartment. Freezing capacity 18 kg/24 h. Storage time after a malfunction 19 h.  
 Four solid metal shelves, two of which are manually adjustable.  
 Two fully extendable drawers with transparent front; one large, one regular sized.  
 Interior lighting with two ceiling spots.  
 Four solid aluminium door racks, three of which are height-adjustable, one has a front flap.

#### Ice and water dispenser

Illuminated ice and water dispenser with pull-down flap accommodates large pitchers and sports bottles. Integrated ice maker, can be switched off separately, with removable ice bin. Ice cubes and crushed ice. Anti-Clump ice system. Ice making capacity approx. 1.5 kg/24 h. Supply at normal operation approx. 2.5 kg. Chilled water supply approx. 1.5 litres.

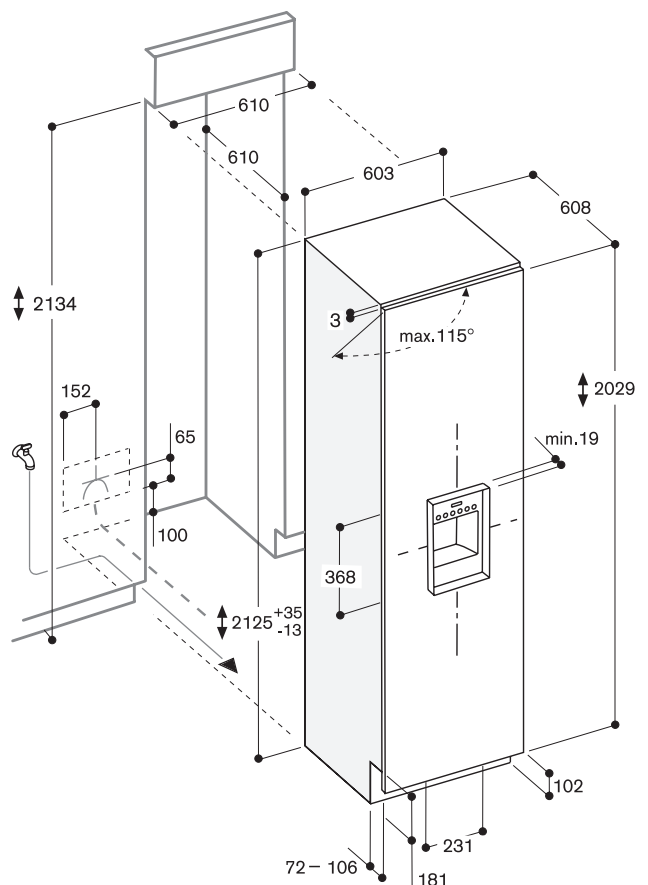
|                            |   |
|----------------------------|---|
| <b>Special accessories</b> | <b>RA 035-030 Aluminium bottle cooler</b>   |
|                            | <b>RA 450-010 Activated charcoal filter for water filter system including saturation indicator.</b> |
|                            | <b>RA 422-610 Stainless steel door panel with handle for RF 463.</b>                                |
|                            | <b>RA 422-630 Aluminium door panel with handle for RF 463.</b>                                      |
|                            | <b>RA 461-614 Ventilation grille</b><br>Stainless steel, for RF 463, right-hinged.                  |
|                            | <b>RA 461-615 Ventilation grille</b><br>Stainless steel, for RF 463, left-hinged.                   |

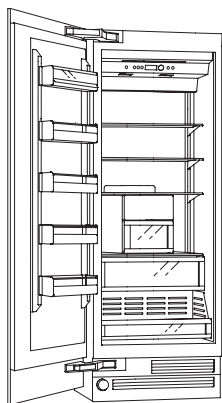
**Planning note:**

**Flat hinge.**  
 The power outlet can be planned behind the appliance.

**Rating:**

**Total connected load 0.57 kW.**  
**Connecting cable length 2 m with plug.**  
**Supply hose length 3 m with 3/4" connection.**  
**Water pressure 2.4 to 8.3 bar.**





**Vario freezer  
with integrated ice maker,  
fully integrated**

**RF 411–200**  
**Width 45.7 cm**

**RF 461–200**  
**Width 61 cm**

**RF 471–200**  
**Width 76.2 cm**

Included in the price:  
One ice scoop.

**RF 4.1–200 \*\*\*\***

- Fully integrated appliances.  
Doors open to a 115-degree angle,  
so that the large drawers can be  
pulled out completely.
- Stainless steel, aluminium and  
glass interior for hygienic stan-  
dards, just like in a professional  
kitchen.
- Integrated ice maker with water  
connection.

Niche height 213.4 cm.  
Gross volume 237/340/443 litres.  
Net volume 211/314/417 litres.  
Energy consumption  
0.84/0.96/1.16 kWh/24 h.  
**Energy efficiency class A+.**

Electronic temperature control  
with digital temperature display,  
Dynamic cold air distribution.  
Automatic defrosting with defrost  
water evaporation.  
Energy-saving vacation mode.  
Open-door and malfunction  
warning system.

#### Freezer

No-frost technology with fast  
freezing.  
Temperature adjustable from  
–14° to –25 °C.  
Four-star freezer compartment.  
Freezing capacity 18 kg/24 h.  
Storage time after a malfunction  
19 h.  
Four solid metal shelves, three of  
which are manually adjustable.  
Two fully extendable drawer with  
transparent front, one large, one  
regular sized.  
Interior lighting with two spots.  
Four solid aluminium door racks,  
three of which are height-  
adjustable, one has a front flap.

#### Ice dispenser

Integrated ice maker, can be  
switched off separately, with  
removable ice bin.  
Ice making capacity approx.  
1.5 kg/24 h.  
Supply at normal operation  
approx. 4 kg.

|                             |  |
|-----------------------------|--|
| <b>Special accessories:</b> | <b>RA 035–030</b> Aluminium bottle cooler.   |
|                             | <b>RA 450–010</b> Activated charcoral<br>filter for water filter system<br>including saturation indicator. |
|                             | <b>RA 421–110</b> Stainless steel door<br>panel with handle for RF 411.                                    |
|                             | <b>RA 421–130</b> Aluminium door panel<br>with handle for RF 411.  |
|                             | <b>RA 421–610</b> Stainless steel door<br>panel with handle for RF 461.                                    |
|                             | <b>RA 421–630</b> Aluminium door panel<br>with handle for RF 461.  |
|                             | <b>RA 421–710</b> Stainless steel door<br>panel with handle for RF 471.                                    |
|                             | <b>RA 421–730</b> Aluminium door panel<br>with handle for RF 471.  |
|                             | <b>RA 461–110</b> Ventilation grille<br>Stainless steel, for RF 411,<br>right-hinged.                      |

**RA 461–111** Ventilation grille  
Stainless steel, for RF 411,  
left-hinged.

**RA 461–610** Ventilation grille  
Stainless steel, for RF 461,  
right-hinged.

**RA 461–611** Ventilation grille  
Stainless steel, for RF 461,  
left-hinged.

**RA 461–710** Ventilation grille  
Stainless steel, for RF 471,  
right-hinged.

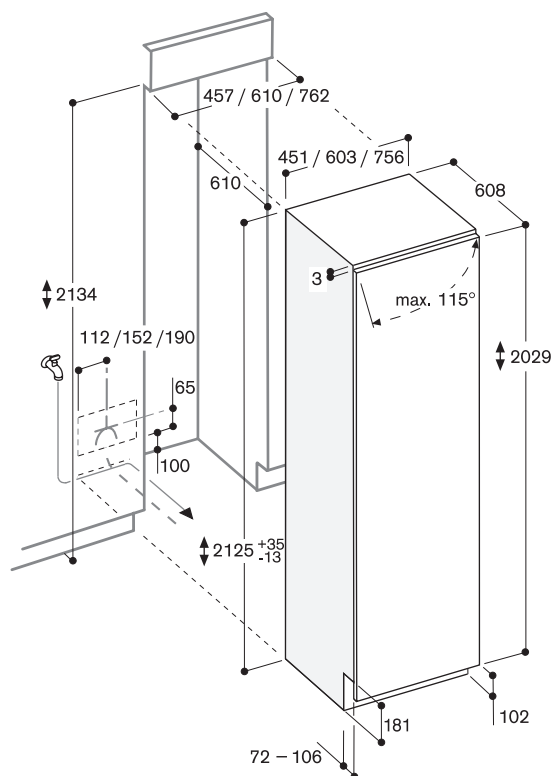
**RA 461–711** Ventilation grille,  
Stainless steel, for RF 471,  
left-hinged.

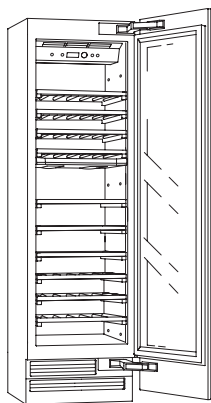
**Planning note:**

**Flat hinge.**  
Door hinge left, reversible.  
The power socket can be planned  
behind the appliance.

**Rating:**

**Total connected load**  
0.37/0.42./0.50 kW;  
**Connecting cable** length 2 m with  
plug.  
**Supply hose** length 3 m with 3/4" connection.  
Water pressure from 2.4 to 8.3 bar.





**Vario wine storage and temperature control cabinet with two temperature zones, fully integrated**

**RW 414–260**  
Width 45.7 cm

**RW 464–260**  
Width 61 cm

#### RW 4.4–260

- Fully integrated appliances with glass doors. Doors open to a 115 degree angle, so that trays can be pulled out completely.
- Two separate temperature zones, both continuously variable from 5 °C to 18 °C. For perfect storage conditions of red and white wines, or for storing and tempering both at the same time.
- Fully extendable trays in aluminium and beech with optional presenter to showcase valuable bottles and an aluminium shelf for opened bottles or decanters.

Niche height 213.4 cm.  
Gross volume 296/422 litres.  
Net volume 275/394 litres.  
Capacity 70/101 bottles  
(based on 0.75/l standard bottles)  
Energy consumption  
0.79/0.85 kWh/24 h.

Electronic temperature control with digital temperature display.  
Dynamic cold air distribution.  
Activated charcoal air filter.  
Automatic defrosting with defrost water evaporation.  
Energy-saving vacation mode.  
Open-door and malfunction warning system.

Temperature adjustable from +5° to +18 °C.  
Two separate temperature zones, both continuously variable.  
Ten full extendable bottle trays in beech and aluminium, up to four of which can also store magnum bottles.

Interior lighting integrated in the ceiling and the temperature divider, can be switched on in the lower temperature zone even when the door is closed.

#### Special accessories:

- RA 491–131** Bottle tray in beech and aluminium for RW 414, full extendable.
- RA 491–631** Bottle tray in beech and aluminium for RW 464, full extendable.
- RA 493–030** Presenter in aluminium (set of 3 for 3 bottles).
- RA 492–130** Aluminium shelf for RW 414, full extendable.
- RA 492–630** Aluminium shelf for RW 464.
- RA 421–111** Stainless steel door panel frame with handle for RW 414, left-hinged.
- RA 421–112** Stainless steel door panel frame with handle for RW 414, right-hinged.
- RA 421–131** Aluminium door panel frame with handle for RW 414, left-hinged.
- RA 421–132** Aluminium door panel frame with handle for RW 414, right-hinged.
- RA 421–611** Stainless steel door panel frame with handle for RW 464, left-hinged.

**RA 421–612** Stainless steel door panel frame with handle for RW 464, right-hinged.

**RA 421–631** Aluminium door panel frame with handle for RW 464, left-hinged.

**RA 421–632** Aluminium door panel frame with handle for RW 464, right-hinged.

**RA 461–112** Ventilation grille Stainless steel, for RW 414, right-hinged.

**RA 461–113** Ventilation grille Stainless steel, for RW 414, left-hinged.

**RA 461–612** Ventilation grille Stainless steel, for RW 464, right-hinged.

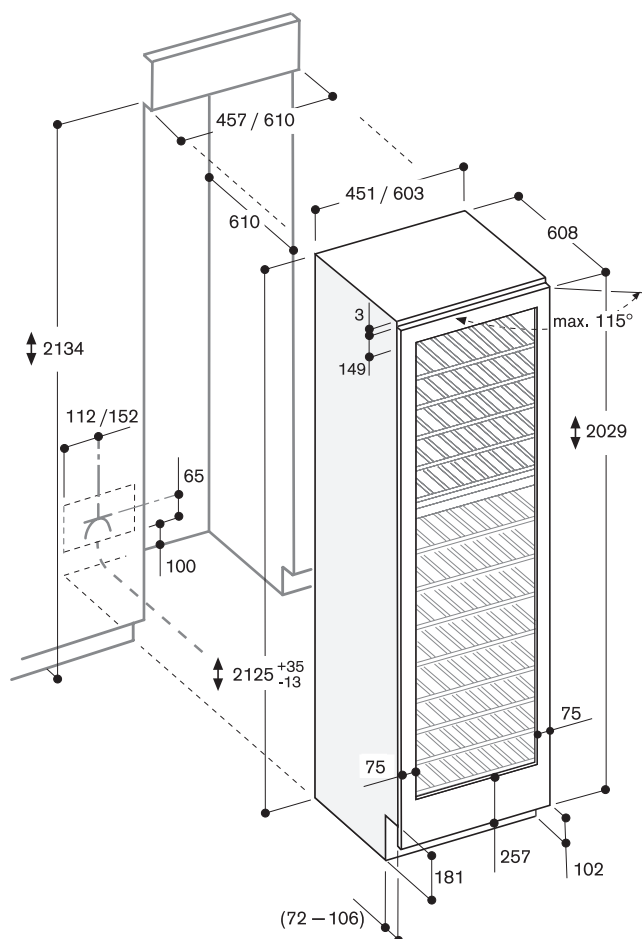
**RA 461–613** Ventilation grille Stainless steel, for RW 464, left-hinged.

#### Planning note:

**Flat hinge.**  
Door hinge right, reversible.  
The power socket can be planned behind the appliance.

#### Rating:

**Total connected load** 0.12/0.13 kW.  
**Connecting cable** length 2 m with plug.





## Additional planning notes

### Vario cooling appliances

Vario cooling appliances are fixed at the top and bottom of the niche, on the side opposite the hinge. There is no fixation on the hinge side of the appliance, because the finger protection slides in between the appliance and the adjacent cabinetry. The side walls of the adjacent cabinetry have to be dimensionally stable.

Vario cooling appliances can be installed handle-to-handle as a side-by-side solution. In this case, the side-by-side installation kit RA 460-000 is required.

With all appliance combinations, the additional heating element RA 460-011 needs to be installed between the appliances to avoid condensation. This additional heating element is not necessary if the distance between the appliances is greater than 160 mm, or when the appliances are installed side-by-side. The heating element does not take up additional space. It is already included in the niche dimensions and does not interfere with the finger protection.

If Vario cooling appliances are joined together hinge-to-hinge, one must plan an additional, dimensionally stable plinth between the appliances for the finger protection to function properly. If usability limitations are acceptable (opening both appliance doors at the same time is not possible), appliances can be joined directly, using the additional heating element RA 460-011.

When installing a Vario cooling appliance next to a BO/BS oven, a side clearance of 60 mm is required if the BO/BS handle bar is on the same side as the hinge of the Vario cooling appliance.

## Installation accessories

**RA 460-000** Accessory for side-by-side installation.

**RA 460-011** Additional side heating element.

**RA 460-020** Connecting element for vertically split appliance fronts (for a flush front).

**RA 460-030** Connecting element for vertically split fronts (for fridge-freezer combination with one door).

**RA 460-040** Finger protection for extra long furniture fronts.

**RA 425-110** Handle bar Stainless steel, long. Length 1131 mm, with three brackets. Drilling distance between each bracket 554 mm.

**RA 425-130** Handle bar Aluminium, long. Length 1131 mm, with three brackets. Drilling distance between each bracket 554 mm.

**RA 425-910** Handle bar Stainless steel, short. Length 810 mm with two brackets. Drilling distance between the brackets 787 mm.

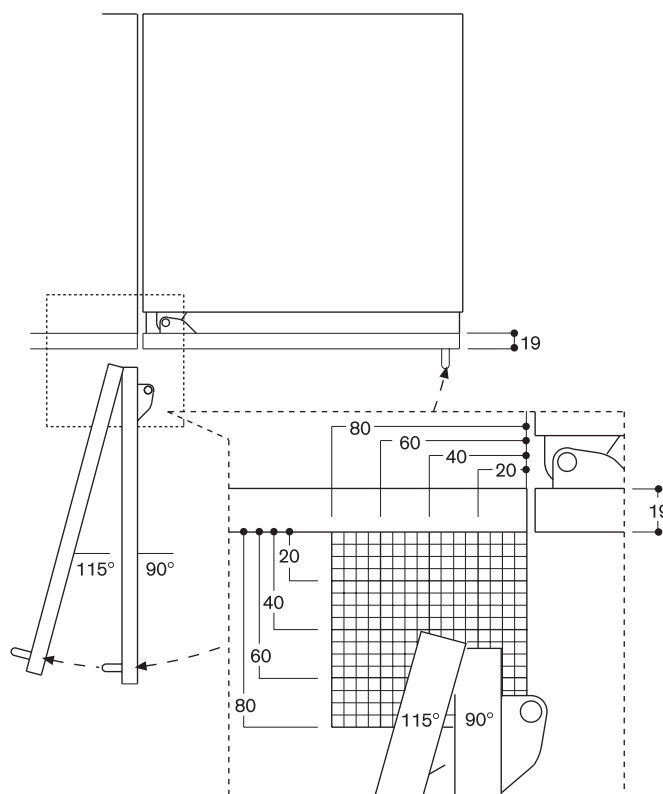
**RA 425-930** Handle bar Aluminium, short. Length 810 mm with two brackets. Drilling distance between the brackets 787 mm.

## Door opening angle

To ensure correct kitchen planning it is essential to take into account the opening angle of the appliance door (plus fitted cabinet door and handle). There should be no possibility of collision with other kitchen furnishings (worktops, handles of other cabinetry etc.) or parts of the room (walls, protrusions etc.).

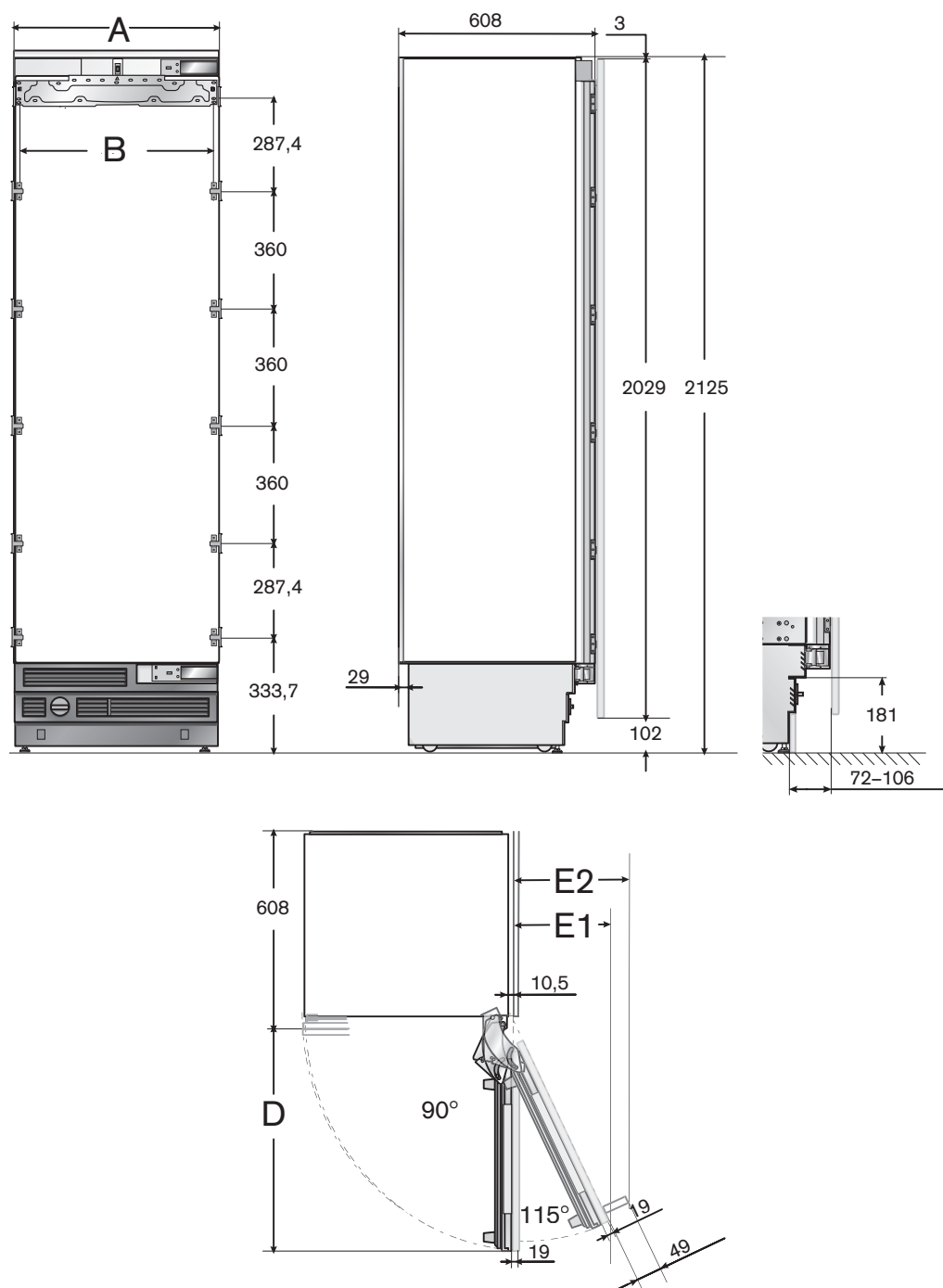
The space needed for the hinge and the consequential distance to the adjacent cabinetry and its handle can, depending on the panel thickness, be seen in the following drawing. The drawing assumes a panel thickness of 19 mm.

- Restrict the door opening angle to 90° (standard 115°)
- Fit a spacer between the appliance and the cabinetry that and the cabinet that it would collide with.
- Rearrange surrounding cabinetry or appliance.



## Appliance dimensions

### Wall clearance RC/RF/RW



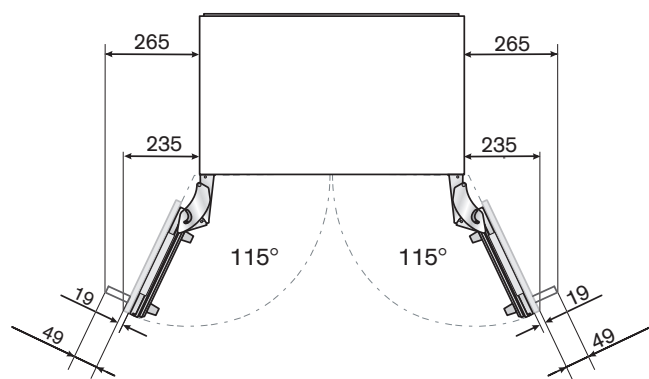
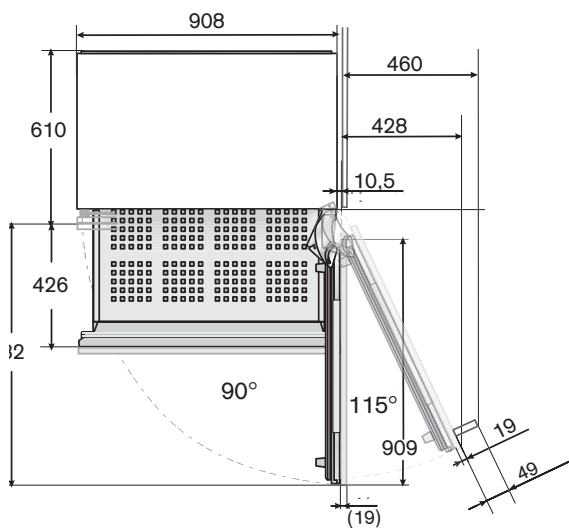
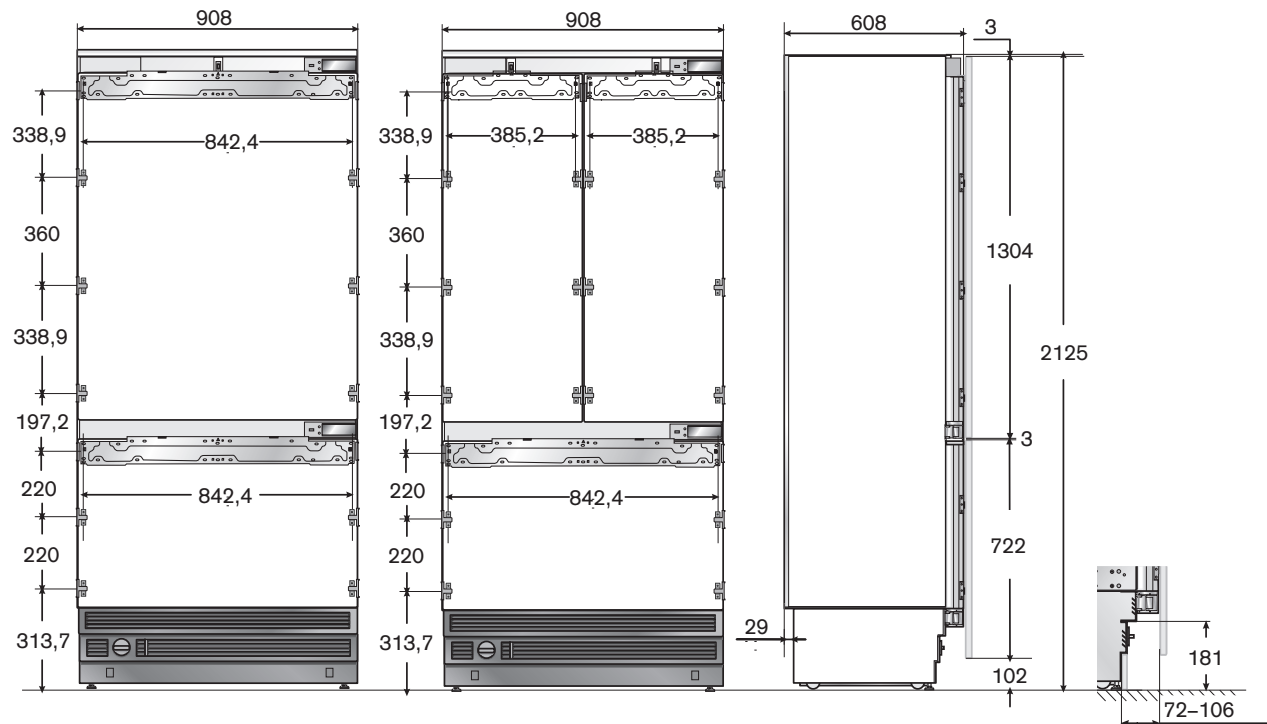
| Appliance type | A      | B      | D      | E1     | E2     |
|----------------|--------|--------|--------|--------|--------|
| 45.7 cm        | 451 mm | 385 mm | 525 mm | 235 mm | 265 mm |
| 61.0 cm        | 603 mm | 538 mm | 677 mm | 299 mm | 330 mm |
| 76.2 cm        | 756 mm | 690 mm | 830 mm | 363 mm | 395 mm |

#### Notes

- The adjustable feet have an adjustment range of +35 mm to -13 mm. The standard height displayed in the pictures is 0 mm.
- For proper ventilation of the appliance, the clearance between the floor and bottom edge of the cabinet front must be at least 100 mm.
- Dimension B details the securing position for the door hinge parts.
- The panel thickness of customised doors can range from between 19 mm and 38 mm.

## Appliance dimensions

### Wall clearance RB/RV



#### Notes

- The adjustable feet have an adjustment range from +35 mm to -13 mm. The standard height displayed in the pictures is 0 mm.
- For proper ventilation of the appliance, the clearance between the floor and bottom edge of the cabinet front must be at least 100 mm.
- The panel thickness of customised doors can range from between 19 mm and 38 mm.

## Installation niche – Dimensions

### Important!

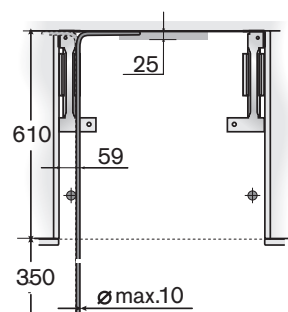
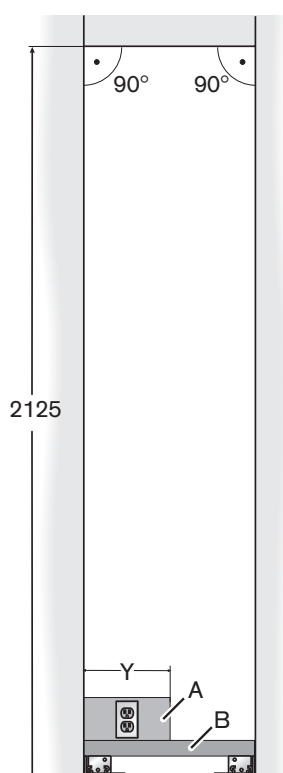
The walls and the crown of the installation niche must be made of a solid material with a thickness of at least 16 mm, to guarantee the secure installation of the appliance.

The side walls of the installation niche must be completely even and flat along their entire depth.

Unlike conventional built-in appliances, Vario refrigerators stand on the floor.

This means that the installation niche is a space in a line of kitchen units.

### Installation niche for an individual appliance:



| Appliance type | Y      |
|----------------|--------|
| 45.7 cm        | 224 mm |
| 61.0 cm        | 304 mm |
| 76.2 cm        | 380 mm |
| 91.4 cm        | 458 mm |

### Installation niche for a side-by-side solution:

In a side-by-side solution, there are many ways to combine the appliances.

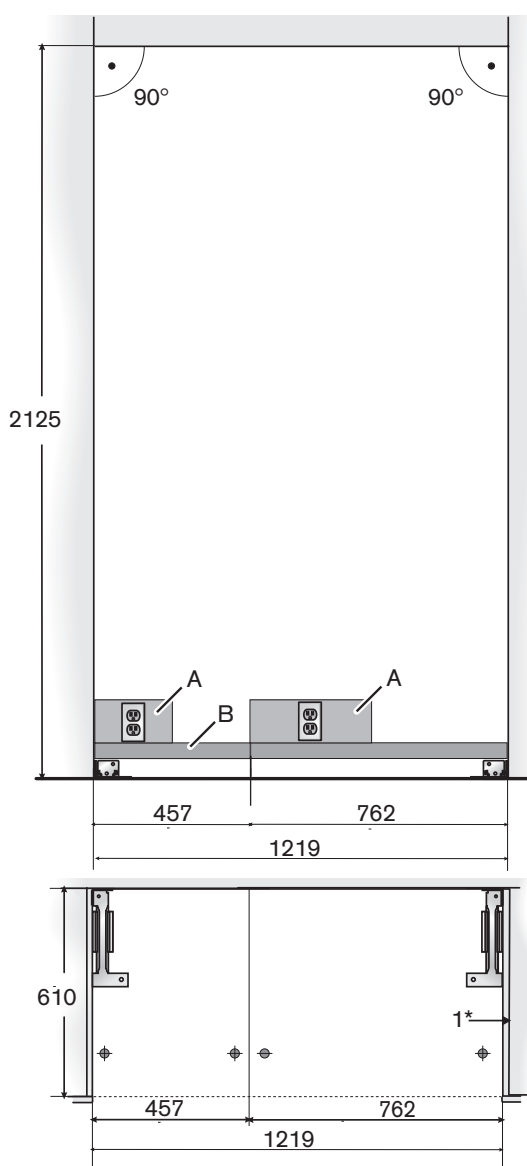
The width of the installation niche is calculated from the sum of the widths of the individual appliances.

The picture shows an example of an installation niche with a width of 1,219 mm, for installing a freezer (45.7 cm) on the left-hand side and a refrigerator (76.2 cm) on the right-hand side.

The height and depth of the installation niche correspond to the specifications for the individual appliances.

It is important to comply with the dimensions in the area set aside for electric and water connections.

For the precise dimensions, please refer to the details given for individual appliances.



A: Area where the electrical connection is installed (appliance socket).

B: Area for laying the water connection line (if required). It is very important to position the stop tap of the water connection so that maintenance and repair work is possible without dismantling the appliance.

## Dimensions of the special accessories door fronts/door front frames

The cabinetry, the height of the base board, the overall height of the kitchen and other determining dimensions of the kitchen must be taken into account, in order to plan the exact positioning of the cabinet door so that the appliance integrates perfectly into the overall picture of the kitchen. The following diagrams show the basic dimensions of the special accessories door fronts/door front frames for various appliances.

The dimensions of the doors shown are designed for the following basic specifications:

- Height of the base board: 102 mm
- Overall height of the installation niche: 2134 mm
- Gap: 3 mm
- Panel thickness: 19 mm

These specifications provide you with a good starting point for a variety of kitchen designs.

When designing a customised cabinet door, please ensure that the back of the cabinet door is visible to a height of 205 mm over the floor when opening the appliance door and adapt to the front design.

### Important!

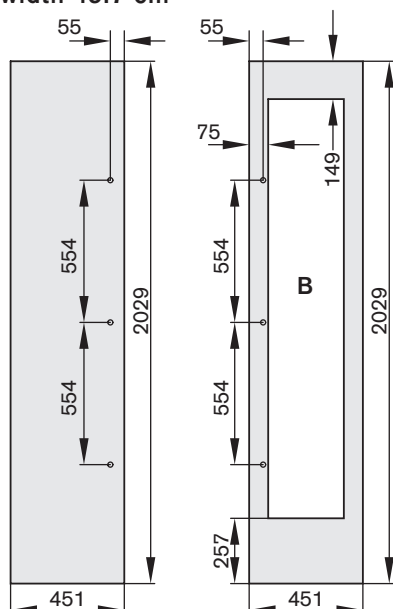
The following diagrams are not a substitute for detailed designs. Compliance with specified requirements relating to kitchen design is essential.

### Maximum permitted door front weight (for each door front)

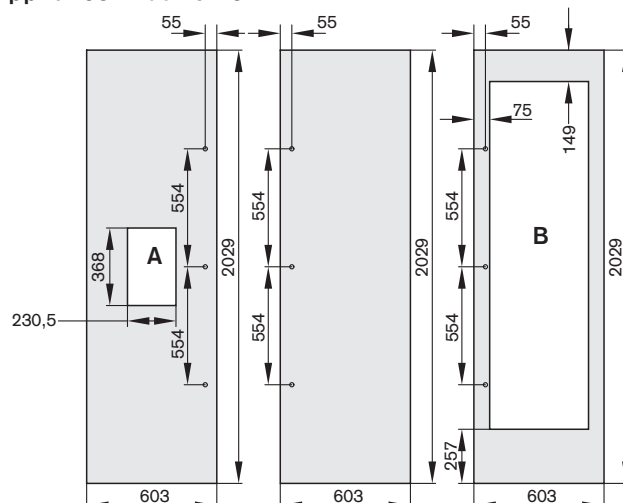
#### Appliance width

|         |  |
|---------|--|
| 45.7 cm | 17 kg  |
| 61.0 cm | 23 kg  |
| 76.2 cm | 29 kg  |
| 91.4 cm | Cooling zone with one door (RB 491) 25 kg    |
|         | Cooling zone with two doors (RY 491) 25 kg   |
|         | Freezer compartment drawer (RB/RY 491) 10 kg |

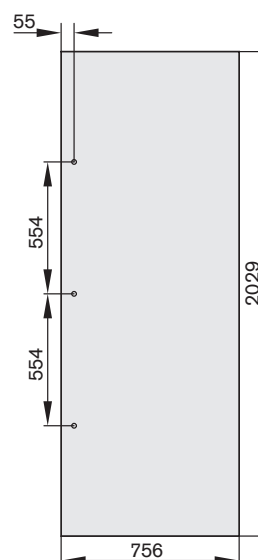
#### Appliance width 45.7 cm



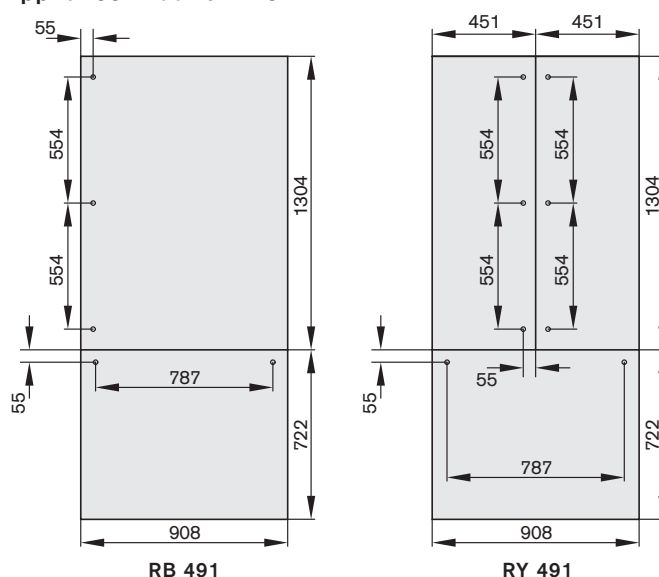
#### Appliance width 61 cm



#### Appliance width 76.2 cm



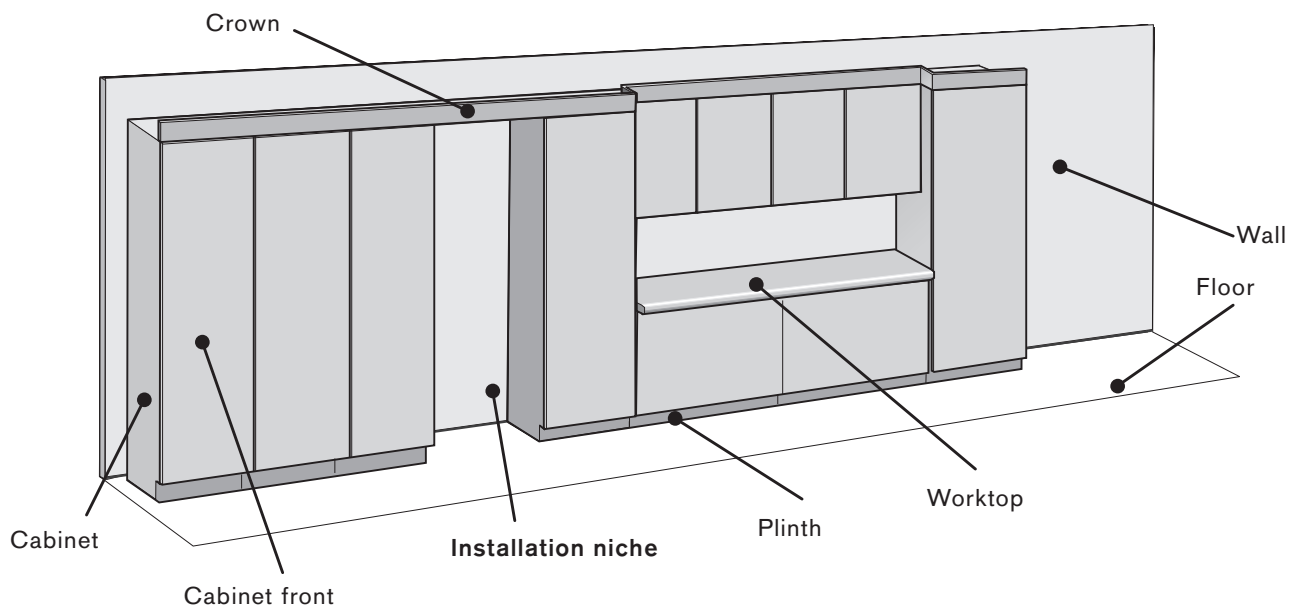
#### Appliance width 91.4 cm



A: The cut out for the ice and water dispenser is centred horizontally and vertically.

B: The width of the side frame parts of the door for the Vario wine storage cabinet can be between 65 and 82 mm. A width of 75 mm is recommended.

## Planning principle for an individual appliance



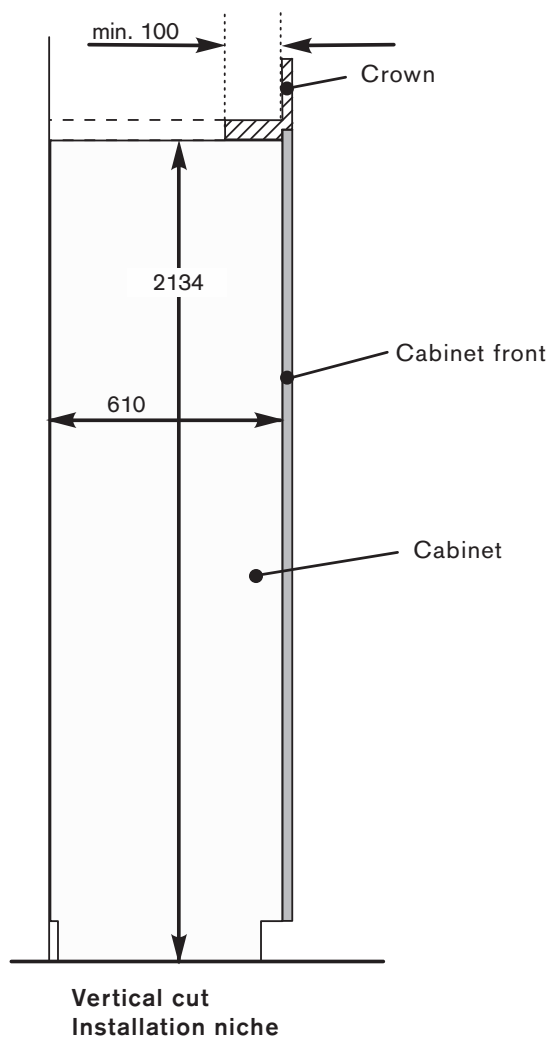
### Installation niche for an individual cooling appliance (e.g. 76.2 cm wide)

In this example, the installation niche is formed by two tall cupboards (left and right) with an appropriate crown to the niche.

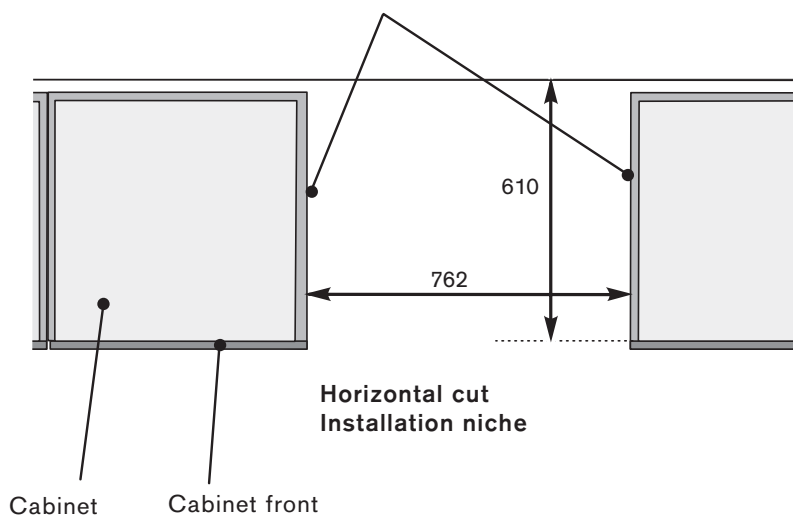
The cabinet door for the appliance comes in an identical design to the other kitchen fronts.

Requirements for the installation niche:

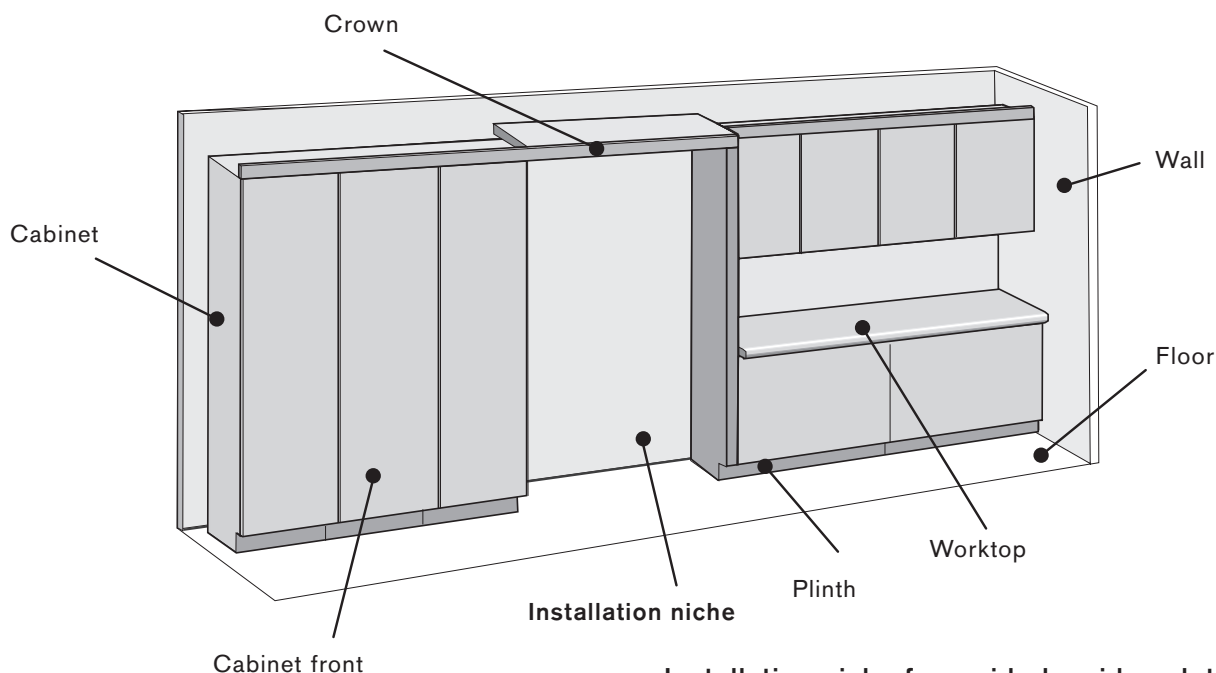
- The side walls of the installation niche must be completely even and flat along their entire depth
- Crown is at least 100 mm deep and made of a solid material (min. 16 mm thick)
- Width of the installation niche: 762 mm
- Depth of the installation niche: 610 mm



The side walls of the installation niche must be completely even and flat along their entire depth.



## Planning principle for a side-by-side solution



### Installation niche for a side-by-side solution

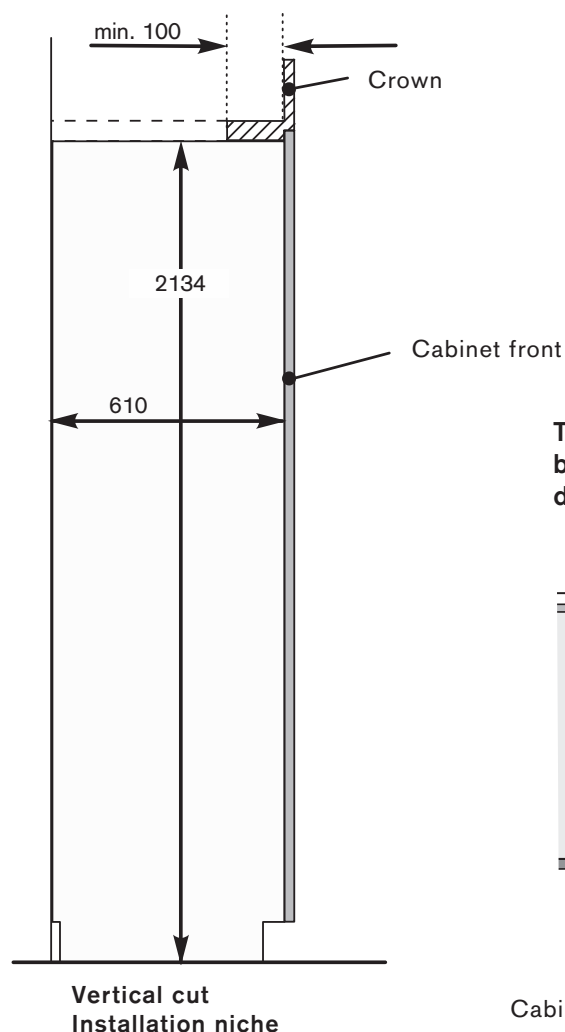
- 61.0 cm cooling appliance (right)
- 45.7 cm freezer (left)

In this example, the installation niche is formed by a tall cupboard (left) and a stable plinth (right) together with an appropriate crown for the niche.

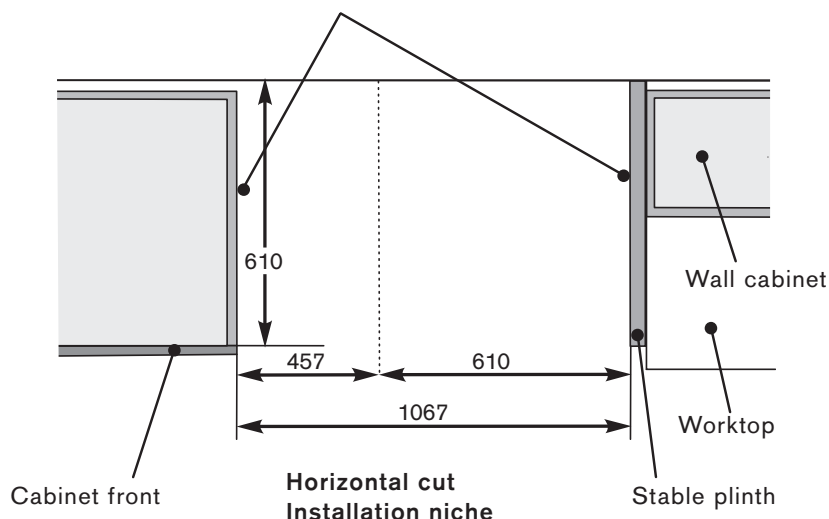
The cabinet door for both appliances comes in an identical design to the other kitchen fronts.

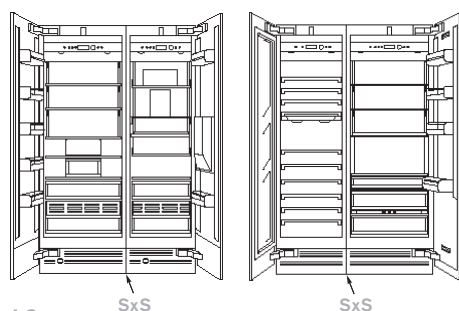
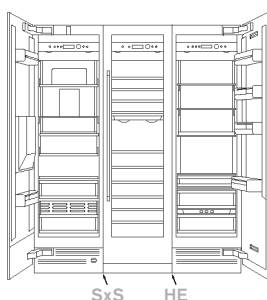
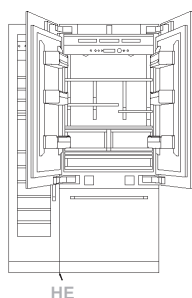
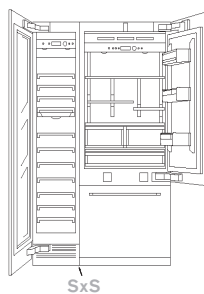
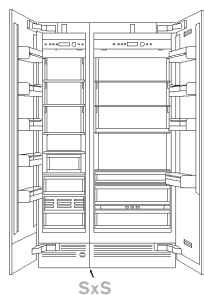
Requirements for the installation niche:

- The side walls of the installation niche must be completely even and flat along their entire depth
- Crown is at least 100 mm deep and made of a solid material (min. 16 mm thick)
- Width of the installation niche:  
 $610 \text{ mm} + 457 \text{ mm} = 1067 \text{ mm}$
- Depth of the installation niche: 610 mm



The side walls of the installation niche must be completely even and flat along their entire depth.





### Side-by-side solution

#### RF 414 / RC 472

**Usability limitations:** No limitation.

**Installation accessories:** 1 x RA 460 000 installation accessories for side-by-side installation (SxS).

**Notes:** Door hinges on the outside.

### Side-by-Side solution with RB 491

#### RW 414 / RB 491

**Usability limitations:** No limitation.

**Installation accessories:** 1x RA 460-000 SxS\*.

**Notes:** Side-by-side combination of a single pillar with a fridge-freezer, door hinges on the outside. Change door hinge of RW.

### Side-by-Side solution with RY 491

#### RW 414 / RY 491

**Usability limitations:** Not all doors can be opened at the same time. The left door of the RY may collide with the handle of the RW.

**Installation accessories:** 1 x RA 460 011 Additional side heating element (HE).

**Notes:** All of the fixing parts delivered with the RA 460 011 must be fitted.

Fitting the left RY doors at 90°. Change door hinge of RW.

### Combination of 3

#### RF 463 / RW 464 / RC 462

**Usability limitations:** The doors of RW and RC cannot be opened at the same time.

**Installation accessories:**

1 x RA 460 000 SxS\* (between RF and RW)

1 x RA 460 011 HE\* (between RW and RC)

**Notes:** All three appliances must be connected to each other before installation and pushed together into the installation niche. Between RW and RC: to guarantee proper functioning of the finger protection, all of the fixing parts delivered with the RA 460 011 must be fitted, with the exception of the bottom front.

### Max. distance

#### RF 471 / RF 463 / RW 464 / RC 472

**Usability limitations:** No limitation.

All doors can be opened fully.

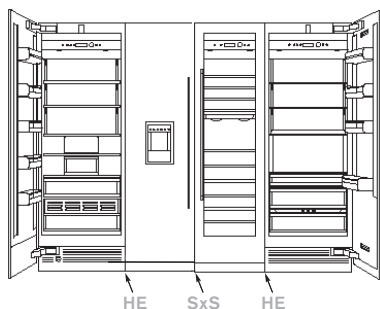
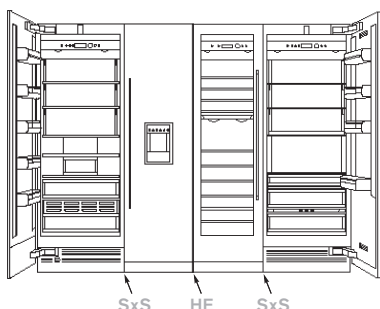
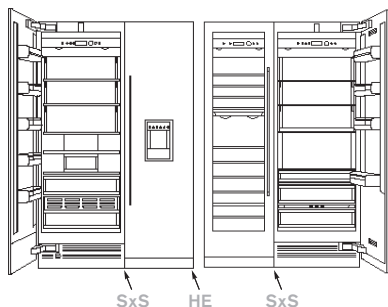
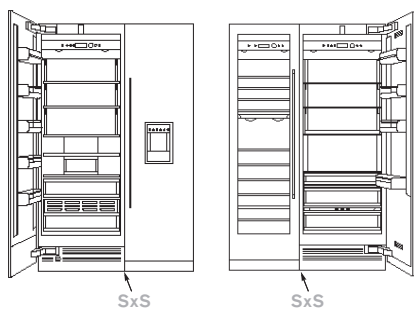
**Installation accessories:** 2x RA 460 000 SxS\*.

**Notes:** Two separate installation niches.

Clearance is large enough to open all doors at the same time (see page 10).

Change door hinge of RF 471 and RW.





\*SxS installation accessories for side-by-side installation

\*HE additional side heating element

#### Distance $\geq 160$ mm

##### RF 471 / RF 463 / RW 464 / RC 472

**Usability limitations:** The middle doors cannot be opened at the same time.

**Installation accessories:** 2 x RA 460 000 SxS\*.

**Notes:** Two separate installation niches. The clearance between the two installation niches is greater than 160 mm. Change door hinge of RF 471 and RW.

#### Distance $\leq 160$ mm

##### RF 471 / RF 463 / RW 464 / RC 472

**Usability limitations:** It may be necessary to open the middle doors one after the other, rather than at the same time.

**Installation accessories:** 2x RA 460 000 SxS\*.  
1x RA 460 011 HE\*.

**Notes:** Two separate installation niches with a stable plinth between them.

The clearance between the two installation niches is less than 160 mm. Therefore, an additional side heating element is required.

Change door hinge of RF 471 and RW.

#### Combination of 4

##### RF 471 / RF 463 / RW 464 / RC 472

**Usability limitations:** Only one of the middle doors can be opened at once.

**Installation accessories:** 2x RA 460-000 SxS\*.  
1x RA 460-011 HE\*.

**Notes:** All 4 appliances must be connected to each other before installation and pushed together into the installation niche.

Between RF 463 and RW:

to guarantee proper functioning of the finger protection of both appliances all of the fixing parts delivered with the RA 460 011 must be fitted, with the exception of the front at the bottom.

Change door hinge of RF 471 and RW.

#### Combination of 4 – alternative

##### RF 471 / RF 463 / RW 464 / RC 472

**Usability limitations:** If the middle door is open, then neither of the outer doors can be opened.

**Installation accessories:** 1x RA 460 000 SxS\* (between RF 463 und RW).

2x RA 460 011 HE\* (between RF's and RW/RC).

**Notes:** The appliances in the middle are connected side-by-side. Connecting the others will require additional side heating elements.

To guarantee proper functioning of the finger protection, all of the fixing parts must be fitted, with the exception of the bottom front. All 4 appliances must be connected to each other before installation and pushed together into the installation niche.

Change door hinge of RF 471.

## Installation conditions

### Location



#### Important!

Do not install appliance

- outdoors
- in damp rooms
- in rooms with a risk of frost

The appliance should be installed in a dry, well ventilated room.

The location of the appliance should not be subject to direct sunlight or near a source of heat, such as a cooker, a radiator, etc. If installation next to a heat source is unavoidable, use a suitable insulating plate or observe the following minimum distances from the heat source:

- 30 mm from an electric cooker,
- 300 mm from an oil or solid-fuel-fired cooker.

### Climate classes

The climate class is given on the rating plate.

It provides details about the range of room temperatures the appliance can be operated at.

| Climate class | Permissible room temperatures |
|---------------|-------------------------------|
| SN            | +10 °C to 32 °C               |
| N             | +16 °C to 32 °C               |
| ST            | +18 °C to 38 °C               |
| T             | +18 °C to 43 °C               |

### Installation niche

The specified dimensions of the installation niche must be observed to guarantee the proper installation of the appliance and the design of the cabinet front.

It is particularly important that the installation niche is square. The side walls must be smooth, not have any protrusions or unevenness.

Use the appropriate tools, e.g. spirit level, diagonal measurements, etc. to determine whether the installation niche is square.

The side walls and the crown of the installation niche must be at least 16 mm thick.

### Neighbouring cabinetry

The new appliance is screwed firmly in place with the neighbouring cabinet parts.

Care should be taken to ensure that all cupboards onto which something is fastened, are connected firmly to the floor or the wall.

The Plinth can be a maximum 19 mm thick.

### Surface



#### Important!

A fully loaded appliance is very heavy

Can weigh up to 540 kg.

To ensure that the appliance is installed securely and functions properly, the surface must be level and even.

The floor must consist of a hard, rigid material.

The floor in the installation area must have the same height as the floor in the rest of the room.

Due to the heavy weight of a fully loaded appliance, the floor beneath must be stable.

If in doubt, consult an architect, structural engineer or construction expert.



#### Important!

Never install and operate an appliance without finger protection.

The finger protection feature is a safety device which is fitted on the hinge side of the appliance door.

When the appliance door is open, it prevents children from putting their hands in the gap between the appliance door and the appliance and injuring themselves when the door is closed.

### Electrical connection



#### Important!

Never connect the appliance to an energy-saving plug or a converter that transforms direct current into 230 V alternating current, (e.g. solar installations, power supply on board a ship).

Do not use an extension cable, adapter or distributor. To connect this appliance use a built-in wall socket.

The socket used for connecting the appliance must be easily accessible.

Connect the appliance to a 220 – 240 V/50 Hz alternating current using a socket which has been properly installed. The socket must be protected using a 10 amp fuse or higher.

With appliances operated in non-European countries, check the rating plate to see if the specified voltage and type of current is compatible with the values of the power supply. The location of the rating plate is specified in the "Contacting customer service/rating plate" section. If a mains cable must be replaced, this can only be done by a skilled professional.

### Water connection

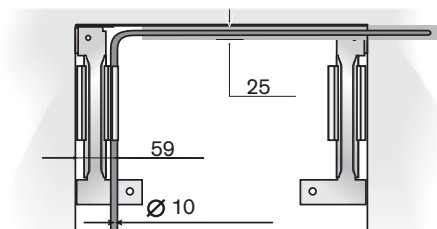
A cold-water connection is required to operate the automatic ice maker. The water pressure must be between 1.7 and 10 bar. The installation must be in compliance with local plumbing regulations.

A separate stop valve must be installed in the cold water supply. The stop valve must not be located behind the appliance. It is advisable to install the stop valve directly next to the appliance or in another, easily accessible location (keywords service/repair).

When installing the water connection, the permitted installation areas for water pipes must be observed.

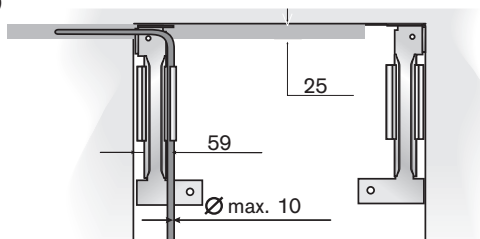
The cold water connection can be fitted on the right-hand side (a) or on the left-hand side (b).

a)



Top view

b)



Top view

## Base area/Crown of the niche

### Base area



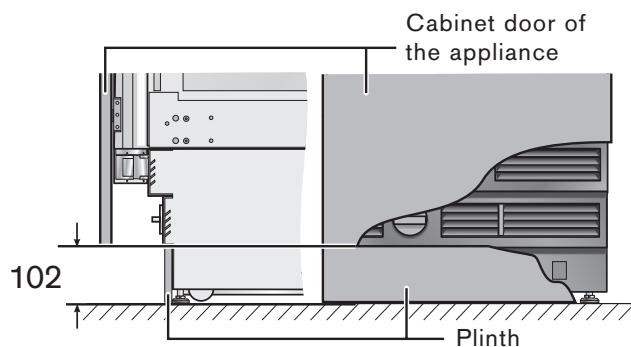
#### Important!

Poor ventilation leads to damage to the appliance. Under no circumstances is it permitted to cover the air inlets and the exhaust air outlets of the appliance in the lower base area.

You must observe the minimum distance of 100 mm between the upper edge of the floor and the bottom edge of the cabinet door of the appliance. Take this into consideration when adjusting the appliance feet also.

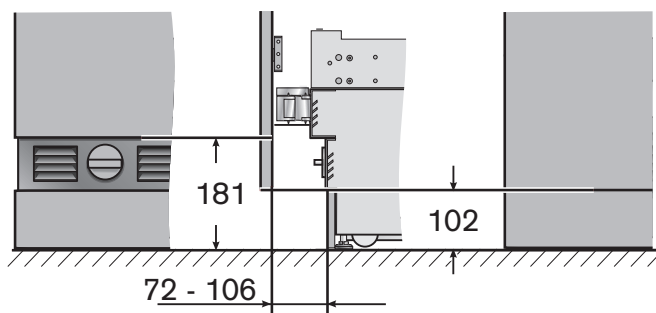
In relation to the standard height, the maximum height of the base board is 102 mm. The plinth can be maximum 19 mm thick.

Adhesive connectors are supplied on the front panel of the appliance for fitting the base board. The air inlets and the exhaust air outlets of the appliance, as well as the access to the water filter (if available) are located above the base board. They must not be covered.



For design reasons, it may be necessary to increase the distance between the upper edge of the floor and the bottom edge of the cabinet door of the appliance, so that it extends beyond the standard dimension of 102 mm. The maximum dimension is 181 mm.

If this is the case, air inlets and exhaust air outlets and access to the water filter would become visible.



### Crown

The height of the cabinet door on the appliance is dependent on:

- the overall height of the appliance,
- the distance from the bottom edge of the cabinet door to the floor,
- the appliance type (one-door or multi-door appliances).

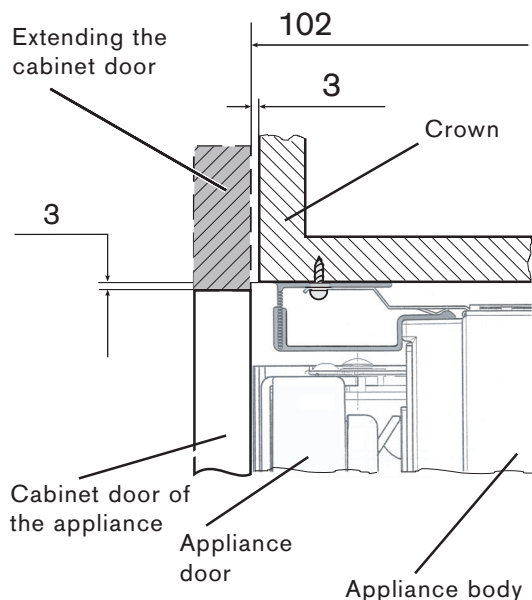
The overall height of the appliance is 2,134 mm.

The height can be adjusted within a range of -13 mm to +35 mm.

You must observe the minimum distance of 100 mm between the upper edge of the floor and the bottom edge of the cabinet door of the appliance.

This height can vary depending on the conditions at the site.

It is possible, e.g. for design reasons, to lengthen the cabinet door upwards by extending it beyond the top of the appliance.



**It must be ensured that the crown of the installation niche always has a depth of at least 100 mm (measured from the front edge of the appliance). Only then can the secure installation of the appliance in the installation niche be guaranteed.**

## Explanation of the installation accessories

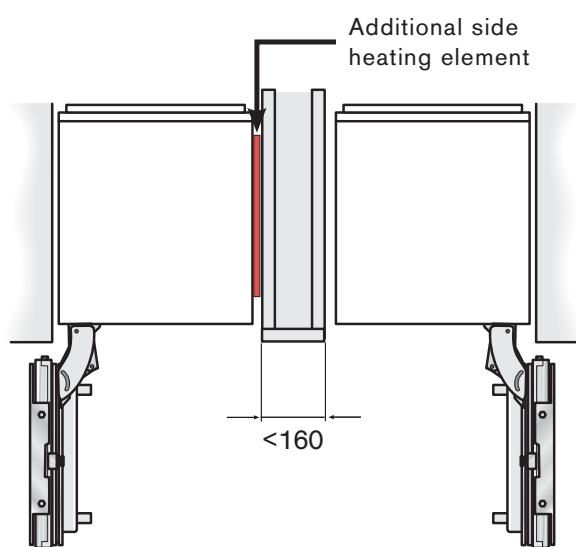
The following special accessories are available for installing and configuring the appliance.

### RA 460 000 Side-by-Side installation

This sealing set will be required if two appliances are to be joined in a side-by-side combination. It contains various parts for ensuring the secure connection of two appliances, including a sealing mat, which is fitted in-between the appliances. This sealing mat prevents condensation from forming in the gap between the appliances. In addition, it contains a decorative strip for covering the gap between the two appliances.

### RA 460 011 Additional side heating element

If two appliances are being installed separately next to each other and the distance between them is less than 160 mm, then an additional side heating element must be installed. This also applies when two appliances are connected directly, however, due to the side of the door hinge chosen and the installation requirements of the corresponding finger protection, the normal installation accessories for the side-by-side installation cannot be used. The additional side heating element contains a thin heating mat that must be fitted to the right-side wall of the appliance on the left-hand side. The additional side heating element prevents condensation on the side wall of the appliance. With distances greater than 160 mm, the additional heating element is not required. The additional side heating element does not take up additional space. It is already included in the niche dimensions and does not interfere with the finger protection.



### RA 460 040 Finger protection – extra long

If the standard height has been exceeded when designing the cabinet doors, the extra long finger protection must be installed to hide the entire gap created between the appliance door and the neighbouring cabinetry. This can be individually cut to size.

### RA 460 020 / 030 Connecting element for cabinet doors

For appliances with a width of 762 mm, as well as for fridge-freezers with a width of 914 mm, it is possible to form the cabinet door using two narrow cabinet doors, e.g. for design reasons. In order to connect these two doors, a metal strip is installed on the rear.

### RA 461 ... Stainless steel ventilation grille

A stainless steel version of the ventilation grille at the base of the appliance front panel may be fitted. Please note that stainless-steel grilles are available for all models and installation options for left-hinged or right-hinged doors.

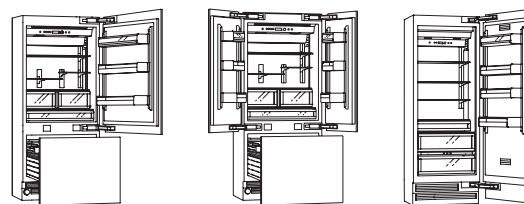
### Spare parts boxes for service technicians

All of the parts needed for installing the appliances and their fronts are supplied with the appliances. Nevertheless, even service technicians, who install many of these appliances may require appropriate installation parts. Two special spare parts boxes have been put together for this purpose. The spare parts boxes can only be ordered via customer service.

ET 479177 Spare parts box (small parts) e.g. screws, mounting brackets, etc.

ET 479178 Spare parts (large parts) e.g. cover strips, finger protection, etc.

## Technical data



RB 491

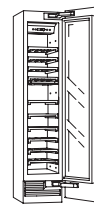
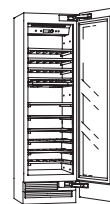
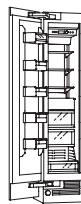
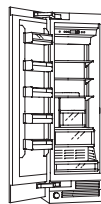
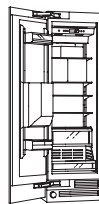
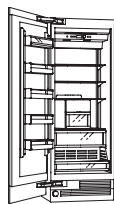
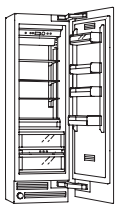
RY 491

RC 472

| Version  | Bottom-Freezer   | Bottom-Freezer | Refrigerator |
|--|------------------|----------------|--------------|
| Fully integrated, with one door, 91.4 cm niche                     | RB 491–200       |                |              |
| Fully integrated, with two doors, 91.4 cm niche                    |                  | RY 491–200     |              |
| Fully integrated, 76.2 cm niche                                    |                  |                | RC 472–200   |
| Fully integrated, 61 cm niche                                      |                  |                |              |
| Fully integrated, 45.7 cm niche                                    |                  |                |              |
| Fully integrated, with glass-framed door, 61 cm niche              |                  |                |              |
| Fully integrated, with glass-framed door, 45.7 cm niche            |                  |                |              |
| <b>Dimensions</b>  |                  |                |              |
| Height   | (mm) 2125 – 2170 | 2125 – 2170    | 2125 – 2170  |
| Width  | (mm) 914         | 914            | 762          |
| Depth including wall clearance                                     | (mm) 608         | 608            | 608          |
| Weight when empty  | (kg) 254         | 260            | 202          |
| Shipping weight  | (kg) 271         | 277            | 222          |
| Weight maximum load  | (kg) 616         | 622            | 564          |
| <b>Type and identification</b>                                     |                  |                |              |
| Door hinge right/left/reversible                                   | */-/*            | */*/-          | */*/*        |
| Full stainless steel panelling/door panelling                      | -/°              | -/°            | -/°          |
| <b>Volume/energy efficiency</b>                                    |                  |                |              |
| Cooling modes: cooling/freshcooling/freezing/wine                  | */*/*/-          | */*/*/-        | */*/*/-      |
| Total gross volume/total net volume                                | (l) 560/530      | 560/530        | 496/477      |
| – Net volume of cooling zone                                       | 392              | 392            | 410          |
| – Net volume of fresh cooling zone close to 0 °C                   | –                | –              | 67           |
| – Net volume of fresh cooling zone                                 | –                | –              | –            |
| – Net volume of star compartments                                  | 138              | 138            | –            |
| Storage capacity 0.75 litre bottles                                | (Number)         | –              | –            |
| Energy efficiency class  | A+               | A+             | A+           |
| Annual energy consumption DIN EN 153                               | (kWh) 420        | 420            | 160          |
| Daily energy consumption per 100 l of net volume                   | (kWh) 0.22       | 0.22           | 0.09         |
| Climate class  | SN – ST          | SN – ST        | SN – ST      |
| <b>Features</b>  |                  |                |              |
| Electronic temperature control                                     | •                | •              | •            |
| Vacation mode  | •                | •              | –            |
| Fresh cooling zones with humidity control                          | –                | –              | 1            |
| Cooling zones with humidity control                                | –                | –              | –            |
| Ice and water dispenser with clear ice/ice cubes/crushed ice/water | -/-/-/-          | -/-/-/-        | -/-/-/-      |
| Temperature display internal/external                              | */–              | */–            | */–          |
| Automatic defrosting: cooling/fresh cooling/freezer compartment    | */*/*            | */*/*          | */*/*        |
| Malfunction, visual/audible warning signal                         | •/*              | •/*            | •/*          |
| Door open, visual/audible warning signal or door lock indication   | -/*              | -/*            | -/*          |
| <b>Cooling/fresh cooling with dynamic cold air distribution</b>    |                  |                |              |
| Fast cooling   | •                | •              | •            |
| Egg racks  | (No. of eggs) –  | –              | –            |
| Door compartments with flap or sliding door                        | (No.) 1          | 2              | 1            |
| Door racks and/or containers                                       | (No.) 2          | 4              | 3            |
| Glass shelves in the cooling compartment continuous/split          | (No.) 1/2        | 1/2            | 3/–          |
| Containers/drawers in the cooling zone                             | 3                | 3              | 3            |
| Wine and champagne rack  | –                | –              | •            |
| Aluminium door racks   | 3                | 6              | 4            |
| <b>Freezing</b>  |                  |                |              |
| Star rating  | ****             | ****           | –            |
| Fast freezing  | •                | •              | –            |
| Freezing capacity  | (kg/24h) 23      | 23             | –            |
| Storage time after a malfunction                                   | (hrs.) 22        | 22             | –            |
| Interior compartments/containers/ice cube trays                    | (No.) –/2/1      | –/2/1          | –            |
| <b>Rating</b>  |                  |                |              |
| Total connected load   | (W) 574          | 574            | 311          |
| Water connection inlet/outlet                                      | •/–              | •/–            | –/–          |

• Standard    ° Special accessory    – Not available

<sup>1</sup> RF 463–200 right only, not reversible; RF 463–201 left only, not reversible.



RC 462

RF 471

RF 463

RF 461

RF 411

RW 464

RW 414

Refrigerator

Freezer

Freezer

Freezer

Freezer

Wine

Wine

RC 462–200

RF 471–200

RF 463–200<sup>1</sup>/–201<sup>1</sup>

RF 461–200

RF 411–200

RW 464–260

RW 414–260

2125 – 2170

2125 – 2170

2125 – 2170

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## Technical data

| Description | RB 491-200 | RY 491-200 | RC 462-200 |
|-------------|------------|------------|------------|
|-------------|------------|------------|------------|

### Door panels / door panel frames

|  |            |            |            |
|--|------------|------------|------------|
| Stainless steel door panel with handles, panel thickness 19 mm | RA 421-910 | RA 421-912 | RA 421-610 |
| Aluminium door panel with handles, panel thickness 19 mm       | RA 421-930 | RA 421-932 | RA 421-630 |
| Stainless steel door panel frame with handle, left-hinged      |            |            |            |
| Stainless steel door panel frame with handle, right-hinged     |            |            |            |
| Aluminium door panel frame with handle, left-hinged            |            |            |            |
| Aluminium door panel frame with handle, right-hinged           |            |            |            |

### Ventilation grille

|                               |            |            |            |
|-------------------------------|------------|------------|------------|
| Stainless steel               | RA 461-910 | RA 461-910 |            |
| Stainless steel, right-hinged |            |            | RA 461-612 |
| Stainless steel, left-hinged  |            |            | RA 461-613 |

### Wine accessories

|   |
|---|
| Fully extendable bottle trays in beech and aluminium        |
| Fully extendable shelves in aluminium                       |
| Presenter in aluminium for single bottle display (set of 3) |

### Handles

|            |  |   |   |   |
|------------|--|---|---|---|
| RA 425-110 | Stainless steel, long length 1131 mm with three brackets<br>drilling distance between each bracket 554 mm. | • | • | • |
| RA 425-130 | Aluminium, long length 1131 mm with three brackets<br>drilling distance between each bracket 554 mm.       | • | • | • |
| RA 425-910 | Stainless steel, long length 810 mm with two brackets<br>drilling distance between each bracket 787 mm.    | • | • |   |
| RA 425-930 | Aluminium, long length 810 mm with two brackets<br>drilling distance between each bracket 787 mm.          | • | • |   |
| RA 035-030 | Bottle cooler in aluminium   | • | • |   |
| RA 450-010 | Activated charcoal filter for water filter system<br>including saturation indicator                        | • | • |   |



| RC 472-200 | RF 411-200 | RF 461-200 | RF 471-200 | RF 463-200 | RF 463-201 | RW 414-260 | RW 464-260 |
|------------|------------|------------|------------|------------|------------|------------|------------|
|            |            |            |            |            |            |            |            |
| RA 421-710 | RA 421-110 | RA 421-610 | RA 421-710 | RA 422-610 | RA 422-610 |            |            |
| RA 421-730 | RA 421-130 | RA 421-630 | RA 421-730 | RA 422-630 | RA 422-630 |            |            |
|            |            |            |            |            |            | RA 421-111 | RA 421-611 |
|            |            |            |            |            |            | RA 421-112 | RA 421-612 |
|            |            |            |            |            |            | RA 421-131 | RA 421-631 |
|            |            |            |            |            |            | RA 421-132 | RA 421-632 |
|            |            |            |            |            |            |            |            |
|            |            |            |            |            |            |            |            |
| RA 461-712 | RA 461-110 | RA 461-610 | RA 461-710 | RA 461-614 |            | RA 461-112 | RA 461-612 |
| RA 461-713 | RA 461-111 | RA 461-611 | RA 461-711 |            | RA 461-615 | RA 461-113 | RA 461-613 |
|            |            |            |            |            |            |            |            |
|            |            |            |            |            |            |            |            |
|            |            |            |            |            |            | RA 491-131 | RA 491-631 |
|            |            |            |            |            |            | RA 492-130 | RA 492-630 |
|            |            |            |            |            |            | RA 493-030 | RA 493-030 |
|            |            |            |            |            |            |            |            |
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9000300552 (8708)

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