
Fully Integrated Appliances

Design Guide

LIEBHERR

Refrigeration and Freezing







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The Fully Integrated Appliances

The fully integrated appliances are not only impressive in terms of convenience and freshness technologies, but also with regard to design, materials and energy efficiency.

Simple and timeless on the outside, exclusive with plenty of glass and elegant stainless steel on the inside, the new design language adds the finishing touch to every kitchen. These eye-catching appliances are super silent, and always keep your produce fresh for longer.

Whether basic or high-end, your Liebherr appliance will do everything it can to make your life easier with fresh ideas.



General Planning Information

Location

IMPORTANT

Do not install appliances

- ▲ outdoors
- ▲ in damp rooms

Positioning

- Do not install appliance in direct sunlight.
- Only fit the appliance into solid kitchen units.
- If the appliance is installed in a very humid environment, condensation can build up on the outside of the unit. Always ensure good airflow and ventilation in the installation location.

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

Do not operate the appliance outside the specified room temperature range.

The appliance should not be exposed to constant direct sunlight or excessive heat.

There should be no covering or blocking of external ventilation openings as this could impair the efficiency of the appliance, increase electricity consumption and could cause damage to the components.

NOTE:

When wine cabinet or fridge is installed next to a heat source, it may cause external condensation on the external doors, door frame and result in damages of the cabinetry.

Furniture / Fixtures

During installation, the appliance is fastened to adjacent furniture/ fixtures and it is therefore essential that all such furniture/fixtures are well secured to the substructure or adjacent wall.

Appliance can overheat, which can reduce the service life of various parts of the appliance and lead to operational impairments.

- ▲ Always make sure there is good ventilation.
- ▲ Always keep vents or ventilation grids in the appliance housing and in the kitchen furniture (fully integrated appliance) unobstructed.

When installing multiple appliances

Risk of damage due to condensate!

Do not install the appliance directly alongside a further refrigerator/ freezer.

Do not install the appliance directly above another refrigerator or freezer. These appliances are designed for a variety of installation options. Only combine appliances that are designed to be installed in combination.

Build each appliance into a separate recess.

Flooring / Substructure

Verify the following:

- Floors can support appliance's weight plus approximately 544 kg of food weight.
- Finished kitchen floor height is level. Refrigerator must be shimmed to the floor level or leveled to make sure air vents are not obstructed.
- Remove anything attached to the rear or side walls that can obstruct appliance opening.
- Cut out dimensions are accurate.
- Electrical outlet is in correct location.

Supporting Floor

- The floor of the installation site must be horizontal and even.
- If you are installing the unit in a cabinet standing on an uneven floor: level the cabinet.

The floor of the installation site must be horizontal and even.

Do not install your Liebherr model next to any other refrigerator, freezer or wine column except another Liebherr model. Liebherr models are designed to allow for Side-by-Side installation. They are equipped with a heating system to eliminate condensation when units are installed Side-by-Side. Installing this unit next to any other refrigerator, freezer or wine column can cause condensation or cause damage to the Liebherr unit.

IMPORTANT

To protect the refrigerator from possible damage, allow the appliance to stand 1 hour in place before turning the electricity on. This allows the refrigerant and lubrication system to reach equilibrium.

Electrical Requirement & Safety

The socket must be easily accessible so that the appliance can be disconnected quickly from the electricity in an emergency.

It must not be located in the area behind the appliance.



Keep ventilation openings, in the appliance enclosure or in the built-in structure must be clear of obstruction.

Danger of tipping and falling:

Do not misuse the plinth, drawers, doors etc. as a step or for support. This applies particularly to children.

Electrocution hazard.

Electrical grounding required.

- ▲ Do not remove the round grounding prong from the plug.
- ▲ Do not use extension cords or ungrounded (two-prong) adapters.
- ▲ Do not use a power cord that is frayed or damaged.
- ▲ Do not use a power strip.

Failure to follow these instructions may result in fire, electrical shock or death.

Only operate the appliance with alternating current (AC).

The maximum voltage and frequency depend on the appliance design for the country concerned. The type of current and voltage at the installation site complies with the information on the type plate. Sockets must be properly earthed and protected by a fuse.

Sockets must not be situated behind the appliance and must be easily accessible to disconnect the appliance from the mains if necessary.

A separate circuit for the appliance is recommended to prevent food defrosting or spoiling due to a power failure caused by other appliances.

It is recommended to plan it in the cabinet above the appliance. Please refer to individual product's installation diagram for details.

In event if power cord is too short, an optional 3-meter power cord is available for purchase from your local Liebherr aftersales service for selected models. The receptacle should be installed by a licensed electrician only. For the installation position of the receptacle refer to individual product's installation diagrams.



The refrigerant R600a contained within the appliances is environmentally friendly, but flammable. Leaking refrigerant can ignite. To prevent possible ignition, designed ventilation is required.

Water Requirements

The IceMaker is fitted in the freezer compartment of the combined refrigerator-freezer/ full freezer. It must be connected to the mains water supply to work.

The appliance must be levelled to ensure that all the chambers in the ice-cube tray of the IceMaker are completely filled with water.

A water supply line with a water shut-off valve and an R 3/4" connector is required for the IceMaker.



The water shut-off valve must not be situated behind the appliance and must be easily accessible to disconnect the appliance from the water supply if necessary.

The rear of appliance is accessible so that you can connect the appliance to the drinking water supply.

Do not damage or kink the hose during installation.

Water Pressure

The water pressure must be between **0.15 and 0.62 MPa (1.5 - 6.2 bar)**.

If the water filter is inserted in the appliance, the water pressure must lie between **0.3 and 0.6 MPa (3 - 6 bar)**.

If the water pressure with the inserted water filter is too low, this may cause the ice maker to malfunction.

Only use the supply hose provided with the appliance to connect the IceMaker to the water supply.

The water supply to the appliance must be through a cold water pipe that can withstand the operating pressure and complies with the hygiene regulations.

Safety instructions and warnings

- Do not connect to the water supply while the combined refrigerator-freezer is connected to the electricity supply.
- **The connection to the mains water supply may only be made by trained personnel.**
- **The water quality must comply with the drinking water directives of the country in which the appliance is used.**
- The IceMaker is designed exclusively to make ice cubes in quantities required by a household and may only be operated with drinking water.
- All repairs and work on the ice maker may only be carried out by customer service personnel or other trained personnel.
- **The manufacturer cannot accept liability for damage caused by a faulty connection to the mains water supply. The water shut-off valve must not sit directly above the socket! The gap between the water shut-off valve and the socket must comply with the regulations of the country in which the appliance is used!**

Model Overview

Refrigerator-Freezers

Model	Door Hinge (Factory-fitted)	Panel	IceMaker	Niche Dimensions
ICBNh 5173	Left, reversible	Custom panels	Yes	
ICNh 5173	Right, reversible	Custom panels	No	
ICNh 5133	Right, reversible	Custom panels	Yes, water tank	
ICNh 5123	Right, reversible	Custom panels	No	
ICNh 5103	Right, reversible	Custom panels	No	

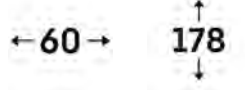
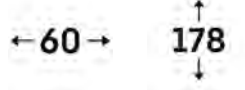
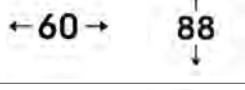

Refrigerators

Model	Door Hinge (Factory-fitted)	Panel	Niche Dimensions
IRBPh 5170	Right, reversible	Custom panel or stainless steel panel as accessory	
IRBh 5170	Right, reversible	Custom panel or stainless steel panel as accessory	
IRBh 5120	Right, reversible	Custom panel or stainless steel panel as accessory	
SIKB 3550	Right, reversible	Custom panel or stainless steel panel as accessory	

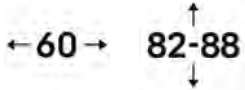
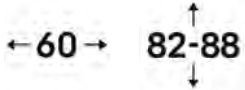
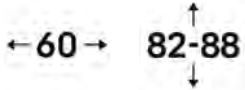
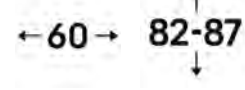
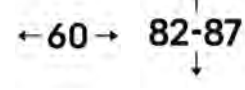
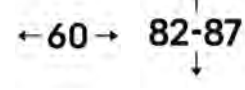
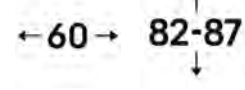
Freezers

Model	Door Hinge (Factory-fitted)	Panel	IceMaker	Niche Dimensions
SIFNh 5188	Left, reversible	Custom panel or stainless steel panel as accessory	Yes	
SIFNh 5128	Left, reversible	Custom panel or stainless steel panel as accessory	No	
SIGN 3576	Left, reversible	Custom panel or stainless steel panel as accessory	Yes	

Wine Cabinets

Model	Door Hinge (Factory-fitted)	Panel	Niche Dimensions
EWTgb 3583	Right, reversible	Fixed Door	
EWTdf 3553 (HW 8000)	Right, reversible	Custom panel or stainless steel panel as accessory	
EWTdf 1653	Right, reversible	Custom panel or stainless steel panel as accessory	
WKEes 553	Right, reversible	Fixed Door	

Under-Counters

Model	Door Hinge (Factory-fitted)	Panel	Niche Dimension
SUIK 1510	Right, reversible	Custom panel	
SUIKo 1550	Pull-out	Custom panel	
SUIG 1514	Left, reversible	Custom panel	
UKes 1752	Right, reversible	Fixed Door	
UWTgb 1682 (WUgb 3400)	Right reversible	Fixed Door	
UWTes 1672	Right, reversible	Fixed Door	
UWKes 1752 (WU 4500)	Right, reversible	Fixed Door	



Single Unit



Refrigerator-Freezer

Applicable models: ICBNh 5173, ICNh 5173, ICNh 5133, ICNh 5123, ICNh 5103



Type of Appliance

Setup and installation/Design	Built-in appliance/Cabinet
Door assembly	door-on-door

Installation

Product dimensions (h/w/d) mm	1770 / 559 / 546
Recess dimensions (h/w/d) mm	1722 - 1778 / 560 - 570 / min. 550
Door panel options	Custom panel

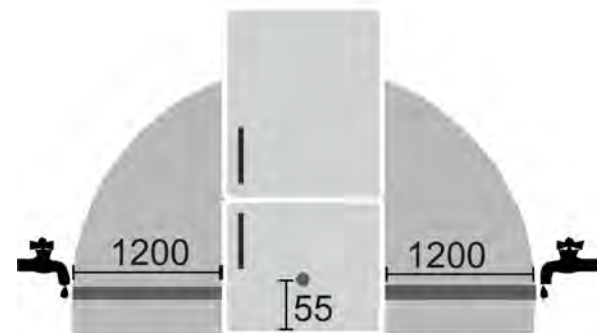
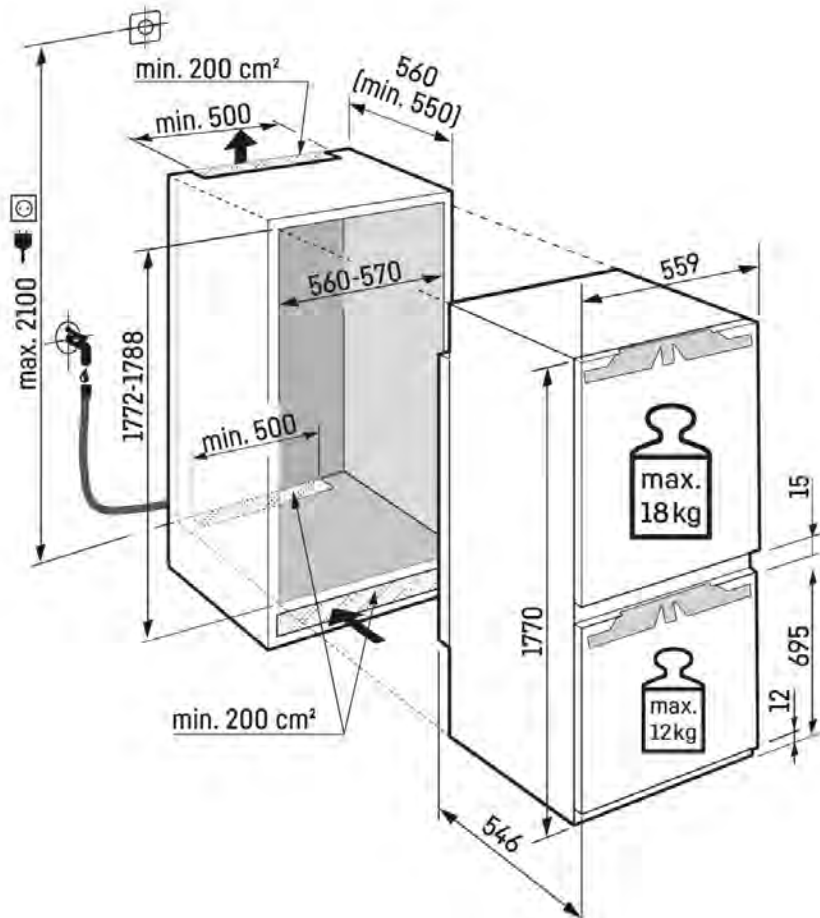
Max. kitchen unit door weight	Fridge Door-18 kg Freezer Door-12 kg
Door panel thickness	min. 16- max. 19
Door hinges	Right/Left reversible
Door opening angle	115°
Ventilation	Kitchen unit ventilation

Other

Power cord length mm	2200
Water Connection mm	3/4" water connection, 2000
Accessories*	FreshAir activated charcoal filter SoftSystem for built-in appliances Door opening limiter, SmartDeviceBox

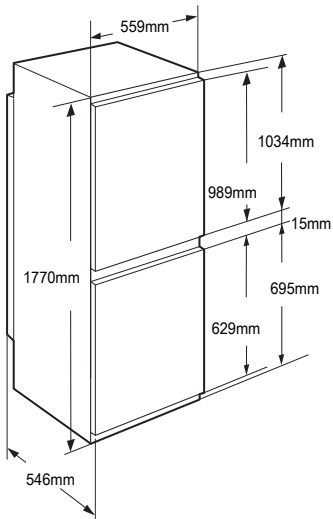
*Please refer to the Accessories Overview on page 39 for more details

Dimensional Drawing

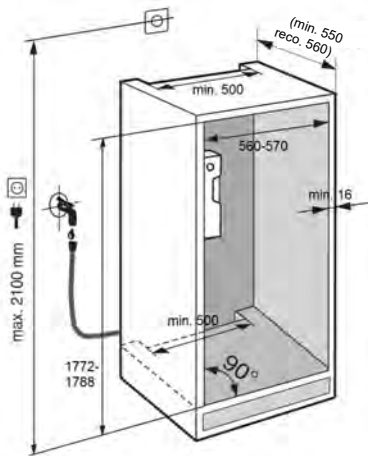


Please refer to Model Overview for models with IceMaker. For more details about water connection requirements, please refer to the General Planning Information on page 8.

Product Dimensions



Installation Dimensions



The appliance is built-in and therefore completely enclosed by a kitchen unit.

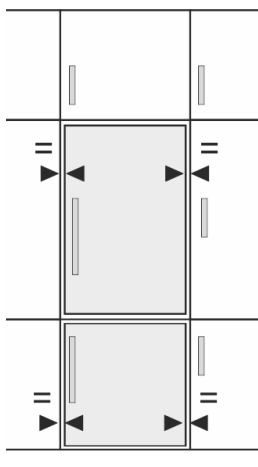
The kitchen unit must be built exactly to the prescribed dimensions and allow for sufficient ventilation, both at air inlet and outlet, to ensure proper appliance operation. For more details about ventilation requirements, please refer to page 36.

The wall thickness of the adjoining cabinets must be min. 16 mm thick.

We recommend that the power outlet be located outside the dedicated cabinet box for easy access.

Please refer to Model Overview for models with icemaker. For more details about water connection requirements, please refer to the General Planning Information on page 8.

Door Panel Dimensions



Two doors are required for this kitchen unit: the upper for the refrigerator and the lower for the freezer compartment. When both doors are closed, the gap between the upper and lower door must be min. 3 mm.

The size of the cabinet door(s) depends on the overall recess size, on the style of the kitchen and on the gap size between the door panels of the cabinet. Custom panels should cover the front of the dedicated cabinet box.

Vertical gap between cabinet doors must be min. 4 mm.
Horizontal gap between cabinet doors must be min. 4 mm.

Panel and handle max. weight has to be considered based on the recommendation stated. Heavy cabinet fronts increase the stress on the hinge. The hinge may be damaged. As such, refer to the individual diagram for the maximum weight specification for your appliance. To support the height of oversized custom door panel, additional hinges may be installed. Additional hinges not included.

Refrigerator/Freezer

Applicable Models: IRBPh 5170, IRBh 5170, IRBh 5120, SIKB 3550, SIFNh 5188, SIFNh 5128, SIGN 3576



Type of Appliance

Setup and installation/Design Built-in appliance/Cabinet

Door assembly door-on-door

Installation

Product dimensions (h/w/d) mm 1770 / 559 / 546

Recess dimensions (h/w/d) mm 1722 - 1778 / 560 - 570 / min. 550

Door panel options Custom panel
or Stainless Steel Panel as accessory

Max. kitchen unit door weight 26 kgs

Door panel thickness min. 16- max. 19 Right/

Door hinges Left reversible

Door opening angle 115°

Ventilation Kitchen unit ventilation

Other

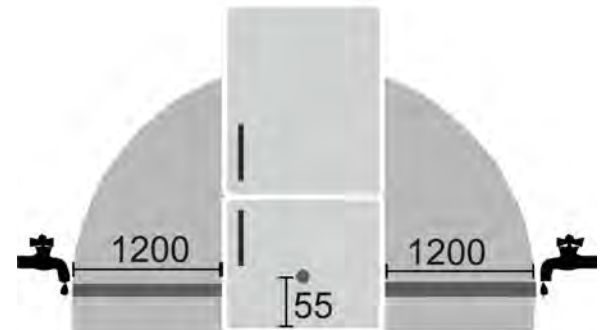
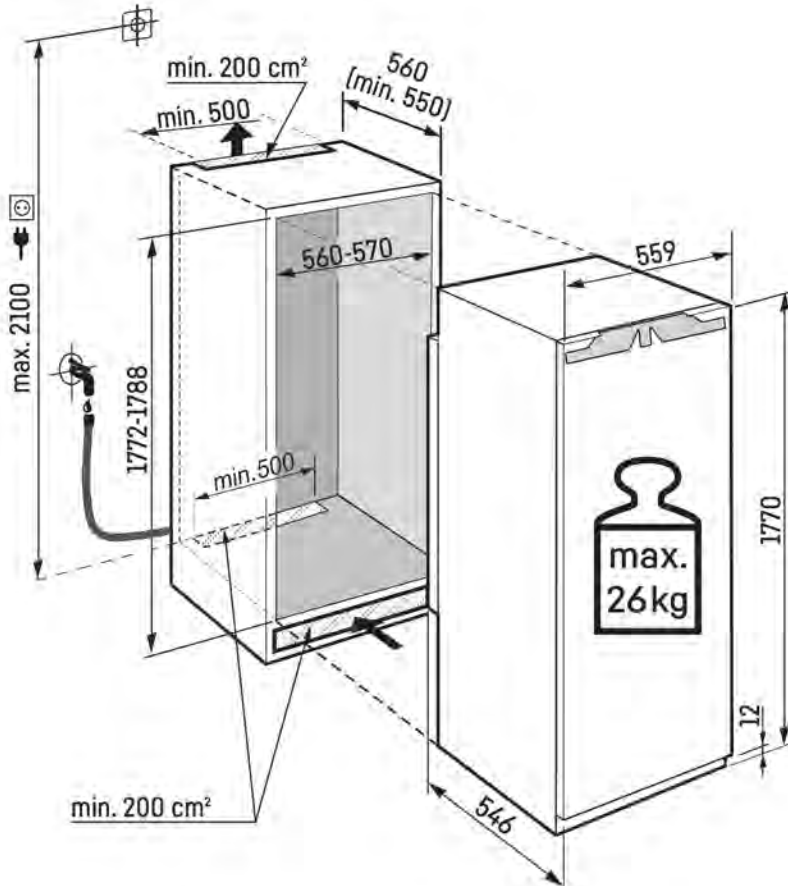
Power cord length mm 2200

Water Connection mm 3/4" water connection, 2000

Accessories* FreshAir activated charcoal filter
Set of door panel and handles
Door opening limiter,
SmartDeviceBox

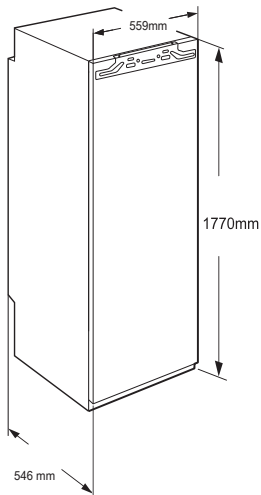
*Please refer to the Accessories Overview on page 39 for more details

Dimensional Drawing

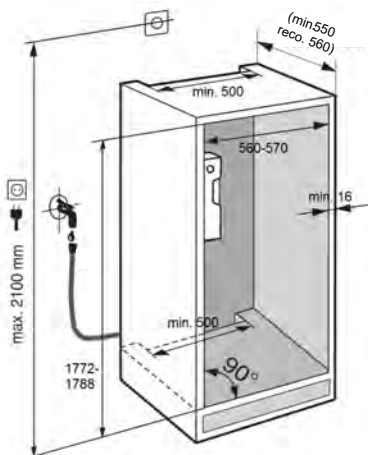


Please refer to Model Overview for models with IceMaker. For more details about water connection requirements, please refer to the General Planning Information on page 8.

Product Dimensions



Installation Dimensions



The appliance is built-in and therefore completely enclosed by a kitchen unit.

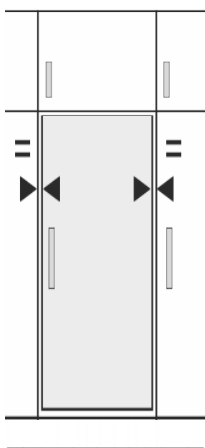
The kitchen unit must be built exactly to the prescribed dimensions and allow for sufficient ventilation, both at air inlet and outlet, to ensure proper appliance operation. For more details about ventilation requirements, please refer to page 36.

The wall thickness of the adjoining cabinets must be min. 16 mm thick.

We recommend that the power outlet be located outside the dedicated cabinet box for easy access.

Please refer to Model Overview for models with icemaker. For more details about water connection requirements, please refer to the General Planning Information on page 8.

Door Panel Dimensions



One door is required for the kitchen unit.

The size of the cabinet door depends on the overall recess size and the style of the kitchen cabinet. Custom panels should cover the front of the dedicated cabinet box.

Vertical gap between cabinet doors must be min. 4 mm.

Horizontal gap between cabinet doors must be min. 4 mm.

Panel and handle max. weight has to be considered based on the recommendation stated. Heavy cabinet fronts increase the stress on the hinge. The hinge may be damaged. As such, refer to the individual diagram for the maximum weight specification for your appliance. To support the height of oversized custom door panel, additional hinges may be installed. Additional hinges not included.

Wine Cabinet

Applicable model: EWTdf 3553 (HW 8000), EWTgb 3583, EWTdf 1653



Type of Appliance

Setup and installation/Design	Built-in appliance/Cabinet
Door assembly	door-on-door

Installation

Product dimensions (h/w/d) mm	1770* 872** / 557 / 553
Recess dimensions (h/w/d) mm	1722 - 1778* 874-890** / 560 - 570 / min. 550
Door panel options	Custom panel or Stainless Steel Panel as accessory (Glass black for EWTgb 3583)

Max. kitchen unit door weight

20kg

Door panel thickness

min. 16- max. 22 (max. 19mm if part of a Trio)

Door hinges

Right reversible

Door opening angle

115°

Ventilation

Kitchen unit ventilation

Other

Power cord length mm

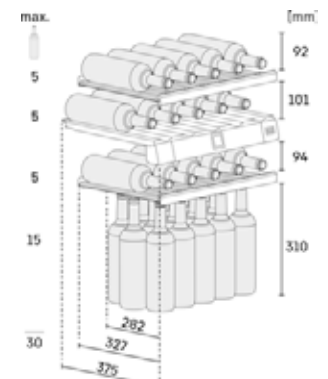
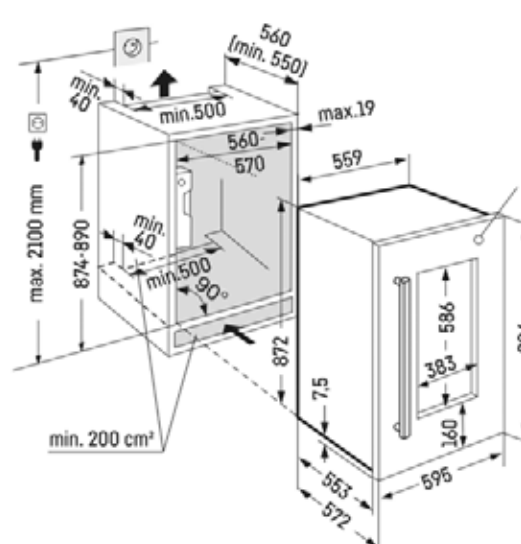
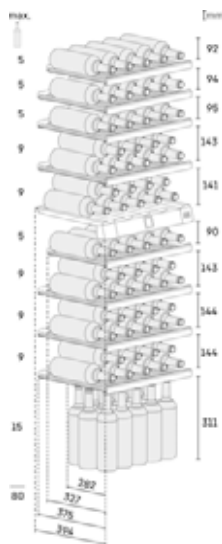
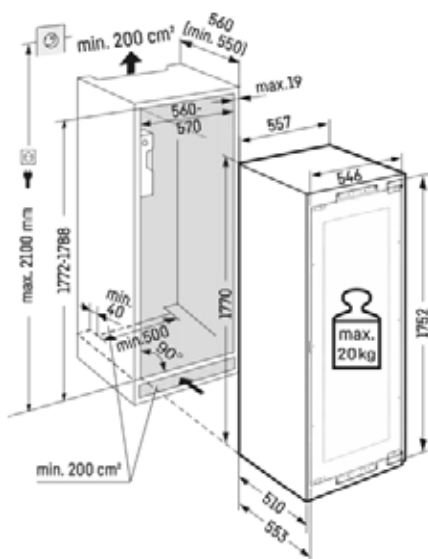
2800* 2000**

Accessories*

FreshAir activated charcoal filter
Set of door panel and handles
Door opening limitation

*Please refer to the Accessories Overview on page 39 for more details

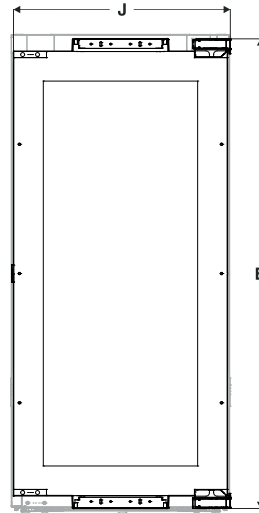
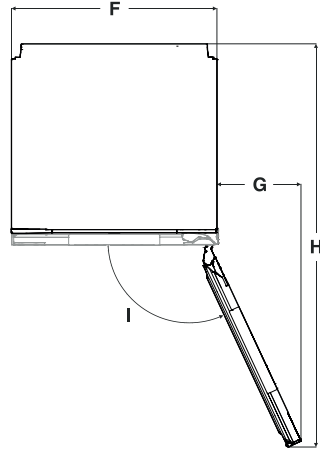
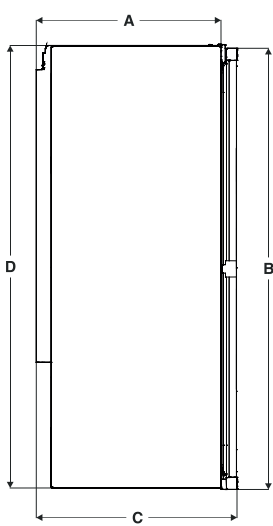
Dimensional Drawing



EWTdf 3553* / EWTgb 3583*

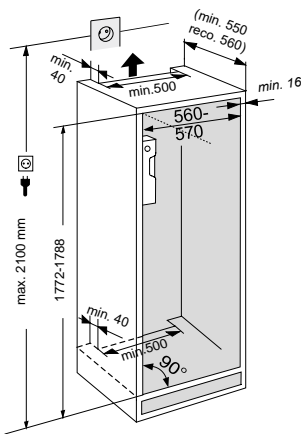
EWTdf 1653**

Product Dimensions



A	510 mm
B	EWT 16.. - 854 mm EWT 35.. -1752 mm
C	553 mm
D	EWT 16.. - 872 mm EWT 35.. - 1770 mm
E	EWT 16.. - 853 mm EWT 35..-1751 mm
F	557 mm
G	228 mm
H	1100 mm
I	115°
J	546 mm

Cabinet Dimensions



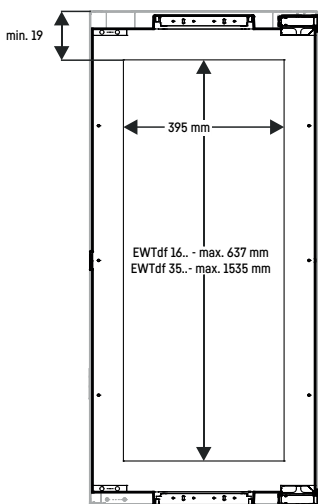
The appliance is built-in and therefore completely enclosed by a kitchen unit.

The kitchen unit must be built exactly to the prescribed dimensions and allow for sufficient ventilation, both at air inlet and outlet, to ensure proper appliance operation. For more details about ventilation requirements, please refer to page 36.

The wall thickness of the adjoining cabinets must be min. 16 mm thick.

We recommend that the power outlet be located outside the dedicated cabinet box for easy access

Door Panel Dimensions



One door is required for the kitchen unit.

The size of the cabinet door depends on the overall recess size and on the style of the kitchen cabinet. Custom panels should cover the front of the dedicated cabinet box.

Vertical gap between cabinet doors must be min. 4 mm.

Horizontal gap between cabinet doors must be min. 4 mm.

Panel and handle max. weight has to be considered based on the recommendation stated. Heavy cabinet fronts increase the stress on the hinge. The hinge may be damaged. As such, refer to the individual diagram for the maximum weight specification for your appliance. To support the height of oversized custom door panel, additional hinges may be installed. Additional hinges not included.

If the wine cabinet is placed as part of a trio, the maximum panel thickness should be 19mm.

Under-Counter Refrigerator

Applicable models: SUIK 1510, SUIG 1514, UIK 1514



Type of Appliance

Setup and installation/Design	Built-in appliance/Floor
Door assembly	door-on-door

Installation

Product dimensions (h/w/d) mm	820 / 597 / 550
Recess dimensions (h/w/d) mm	820 - 880 / 600 / min. 550
Door panel options	Custom panel

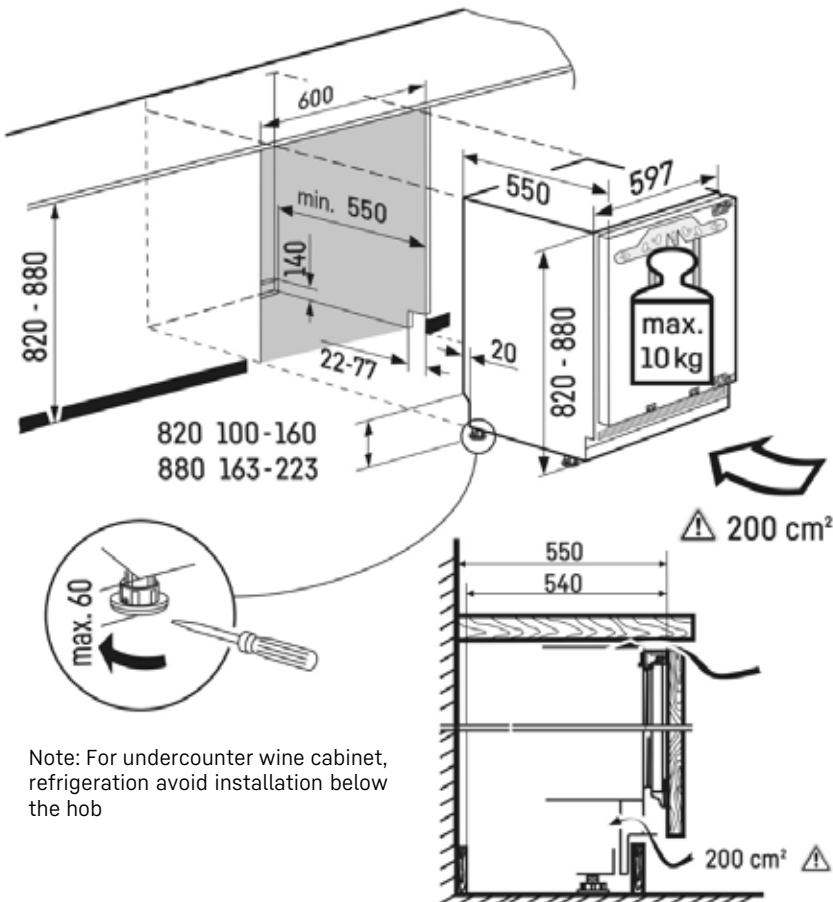
Max. kitchen unit door weight	10kg
Door panel thickness	min. 16- max. 19
Door hinges	Right reversible
Door opening angle	115°
Ventilation	Plinth ventilation

Other

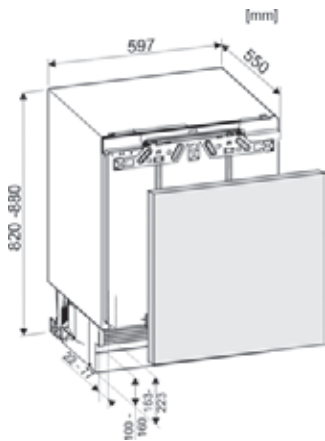
Power cord length mm	2000
Accessories*	Door opening limiter

*Please refer to the Accessories Overview on page 39 for more details

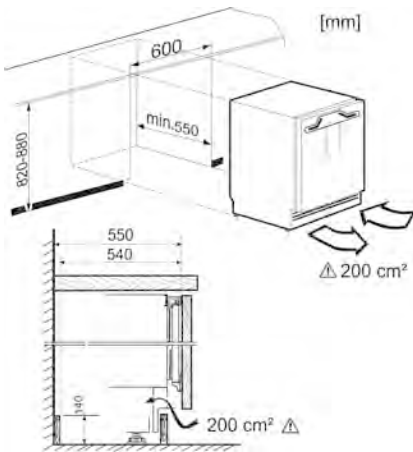
Dimensional Drawing



Product Dimensions



Installation Dimensions



The appliance is built-in and therefore completely enclosed by a kitchen unit. This unit should be installed under a worktop.

The kitchen unit concerned must be built exactly to the prescribed dimensions, allowing sufficient ventilation to ensure the equipment works properly.

The cabinet design must allow at least 200 cm² air circulation to ensure proper operation. For more details about ventilation requirements, please refer to page 38.

We recommend that the power outlet be located outside the dedicated cabinet box for easy access.

Door Panel Dimensions

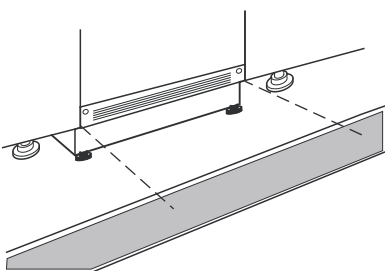


One door is required for the kitchen unit.

Vertical gap between cabinet doors must be min. 3 mm.
Horizontal gap between cabinet doors must be min. 3 mm.

The width of the unit door depends on the style of the kitchen and the gap size between the door panels of the cabinet.

The top edge of the door, if any, and the bottom edge of the door should be even with the doors of adjoining cabinets. Panel and handle max. weight has to be considered based on the recommendation stated. Heavy cabinet fronts increase the stress on the hinge. The hinge may be damaged.



A plinth panel will be required to cover the gap between the ventilation grill and the floor. Ensure that the ventilation slots are completely free.

Please refer to the plinth ventilation requirements on Page 38.

Pull-Out Under-Counter Refrigerator

Applicable models: SUIKo 1550



Type of Appliance

Setup and installation/Design	Built-in appliance/Floor
Door assembly	door-on-door

Installation

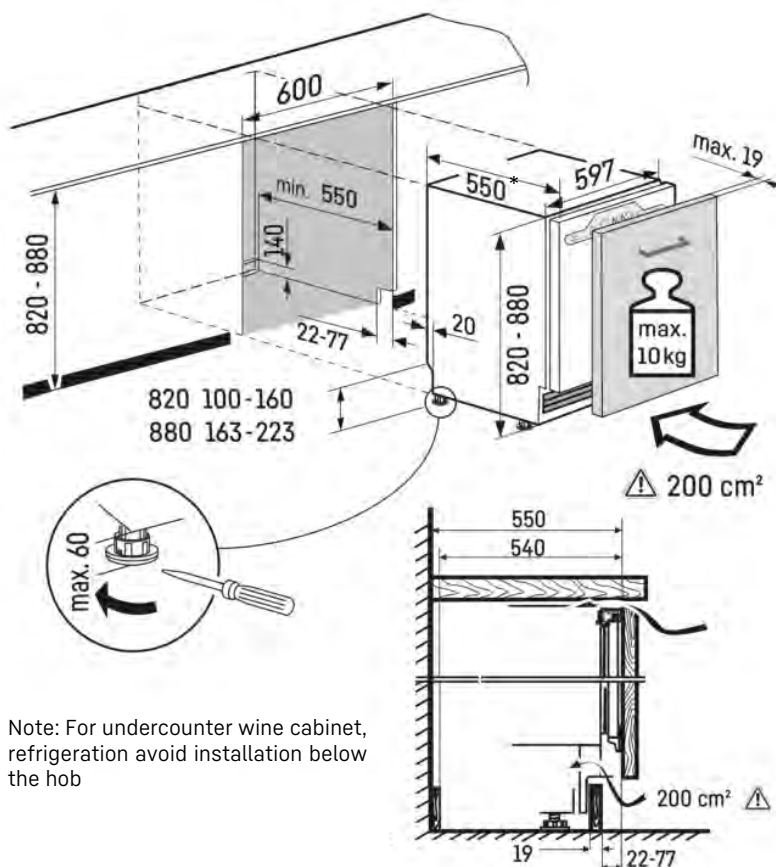
Product dimensions (h/w/d) mm	820 / 597 / 550
Recess dimensions (h/w/d) mm	820 - 880 / 600 / min. 550
Door panel options	Custom panel

Max. kitchen unit door weight	10kg
Door panel thickness	min. 16- max. 19
Door hinges	Pull out
Door opening angle	Not Applicable
Ventilation	Plinth ventilation

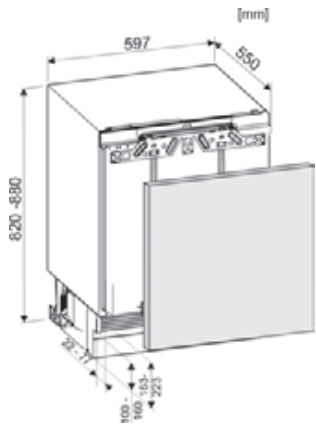
Other

Power cord length mm	2000
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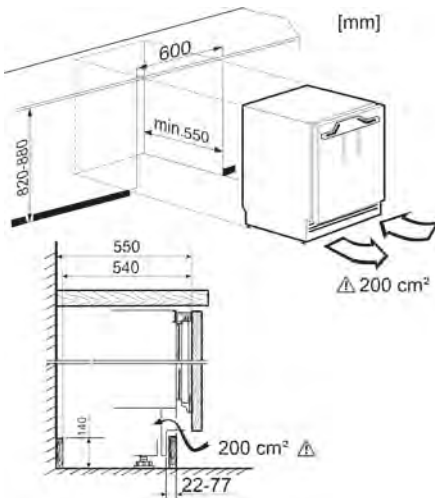
Dimensional Drawing



Product Dimensions



Installation Dimensions



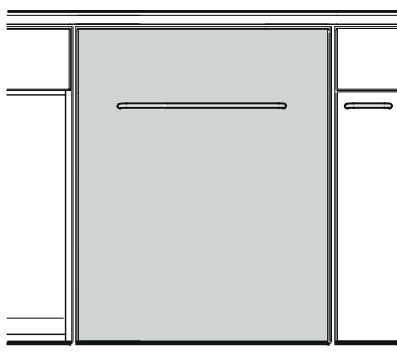
The appliance is built-in and therefore completely enclosed by a kitchen unit. This unit should be installed under a worktop.

The kitchen unit concerned must be built exactly to the prescribed dimensions, allowing sufficient ventilation to ensure the equipment works properly.

The cabinet design must allow at least 200 cm² air circulation to ensure proper operation. For more details about ventilation requirements, please refer to page 38.

We recommend that the power outlet be located outside the dedicated cabinet box for easy access.

Door Panel Dimensions

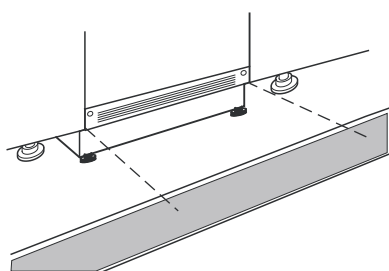


One door is required for the kitchen unit.

Vertical gap between cabinet doors must be min. 3 mm.
Horizontal gap between cabinet doors must be min. 3 mm.

The width of the unit door depends on the style of the kitchen and the gap size between the door panels of the cabinet.

The top edge of the door, if any, and the bottom edge of the door should be even with the doors of adjoining cabinets. Panel and handle max. weight has to be considered based on the recommendation stated.



A plinth panel will be required to cover the gap between the ventilation grill and the floor. Ensure that the ventilation slots are completely free.

Please refer to the plinth ventilation requirements on Page 38.

Under-Counter Wine Cabinet

Applicable Models: UKes 1752, UWKes 1752 [WU 4500], UWTgb 1682 [WUgb 3400], UWTes 1672



Type of Appliance

Setup and installation/Design	Built-in appliance/Floor
Door assembly	fixed door

Installation

Product dimensions (h/w/d) mm	818 / 597 / 577
Recess dimensions (h/w/d) mm	820 - 870 / 600 / min. 580
Door panel options	Stainless steel door (glass back for UWTgb 1682)

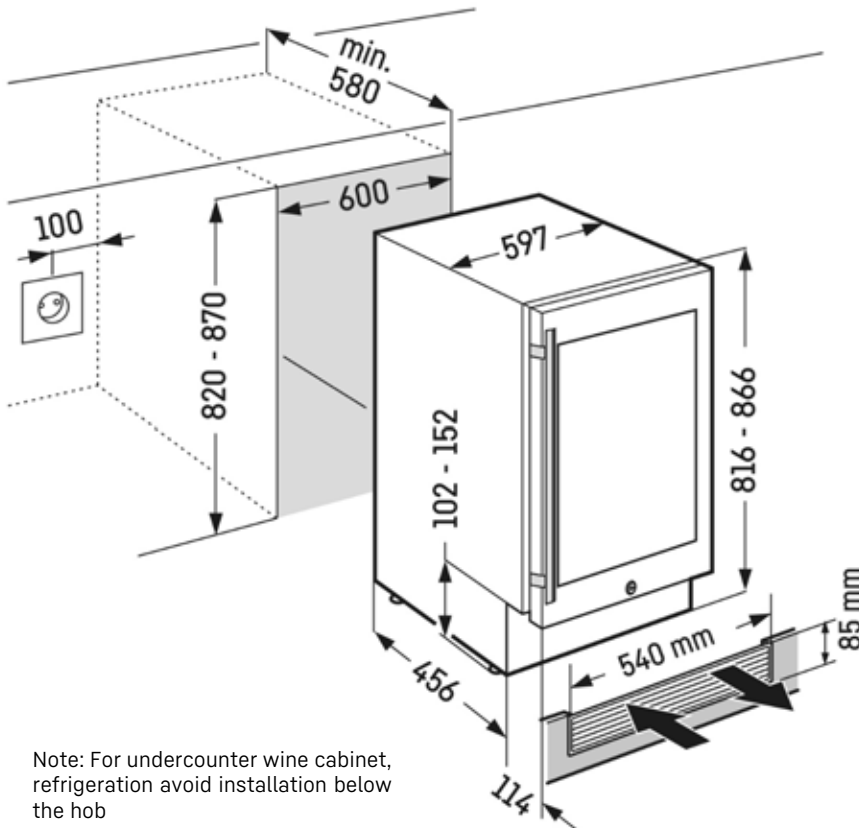
Door hinges	Right reversible
Door opening angle	96° (115° for UWTgb 1682)
Ventilation	Plinth ventilation

Other

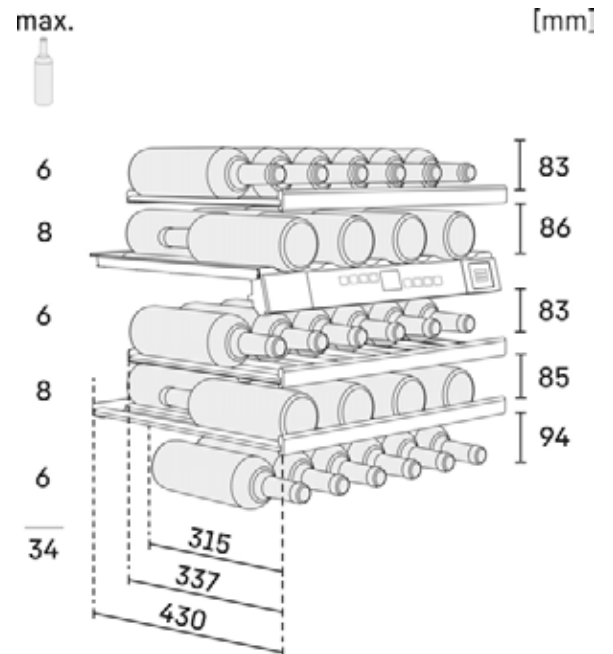
Power cord length mm	2000
Accessories*	FreshAir activated charcoal filter

*Please refer to the Accessories Overview on page 39 for more details

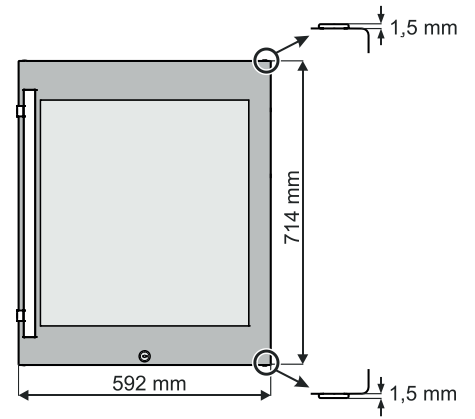
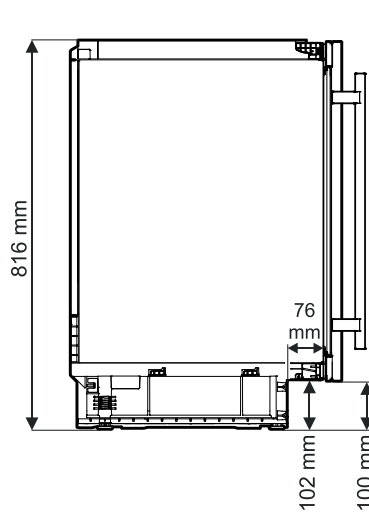
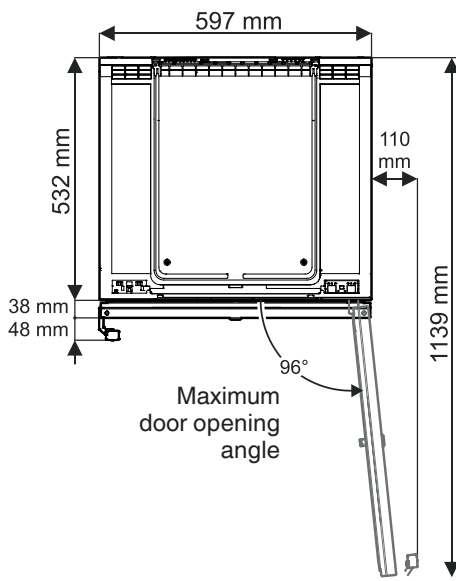
Dimensional Drawing



Note: For undercounter wine cabinet, refrigeration avoid installation below the hob

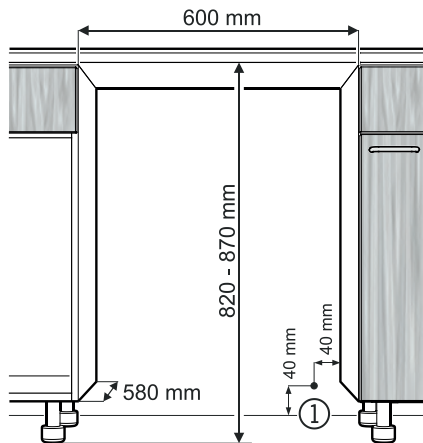


Product Dimensions



Height when adjustable feet have been screwed in as far as they will go.
Maximum height adjustment = 50 mm

Installation Dimensions

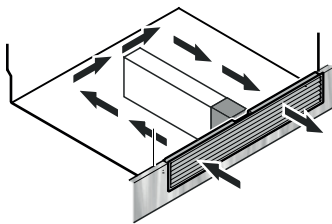


The appliance is built-in and therefore completely enclosed by a kitchen unit. This unit should be installed under a worktop.

The kitchen unit concerned must be built exactly to the prescribed dimensions, allowing sufficient ventilation to ensure the equipment works properly.

The cabinet design must allow for sufficient air circulation to ensure proper operation. For more details about ventilation requirements, please refer to page 36.

We recommend that the power outlet be located outside the dedicated cabinet box for easy access.



To ensure proper refrigeration performance of the appliance, the adjustable toe kick supplied must be installed. The ventilation grille must be installed into the toe kick panel.

Please refer to the plinth ventilation requirements on Page 37.

Wine Cabinet

Applicable models: WKEes 553



Type of Appliance

Setup and installation/Design	Built-in appliance/Cabinet
Door assembly	fixed door

Installation

Product dimensions (h/w/d) mm	455 / 591 / 522
Recess dimensions (h/w/d) mm	450 / 560 / min. 550
Door panel options	Stainless steel door

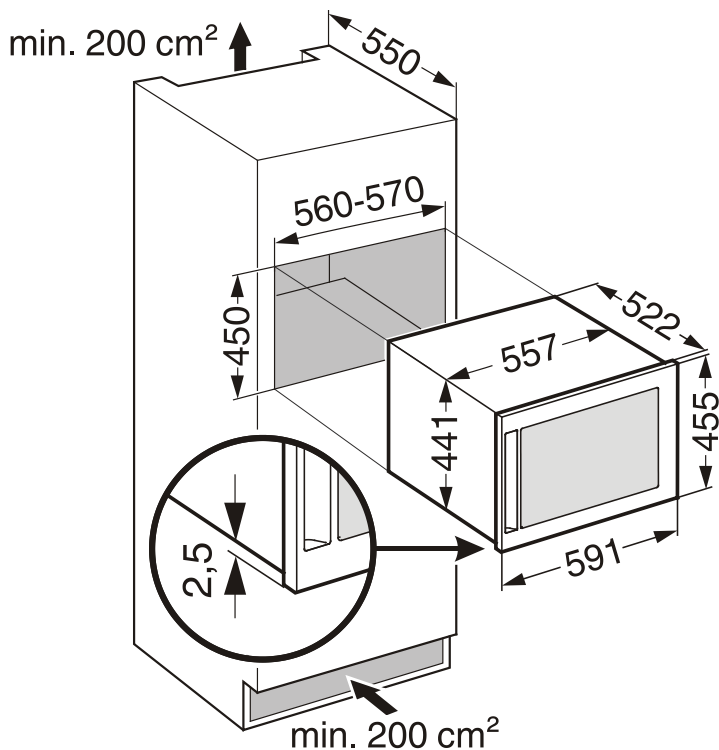
Door hinges	Right reversible
Ventilation	Kitchen unit ventilation

Other

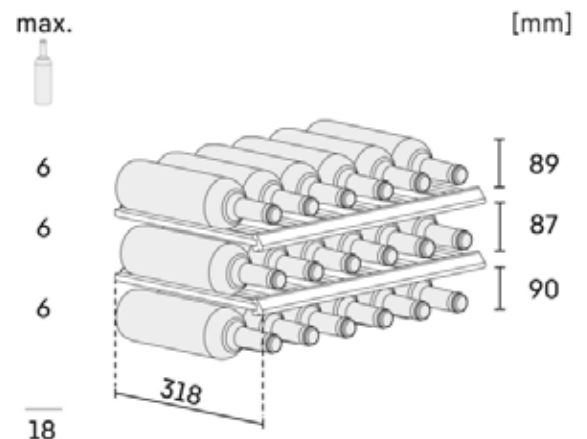
Power cord length mm	2000
Accessories*	FreshAir activated charcoal filter

*Please refer to the Accessories Overview on page 39 for more details

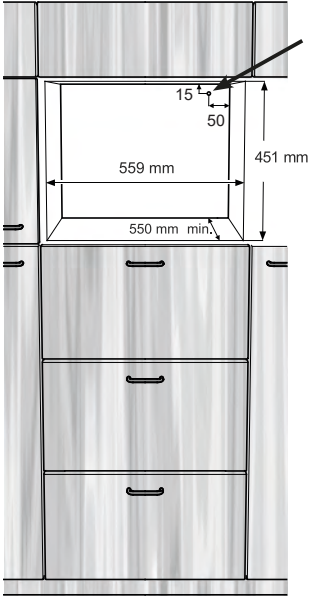
Dimensional Drawing



Note: For undercounter wine cabinet, refrigeration avoid installation below the hob



Installation Dimensions

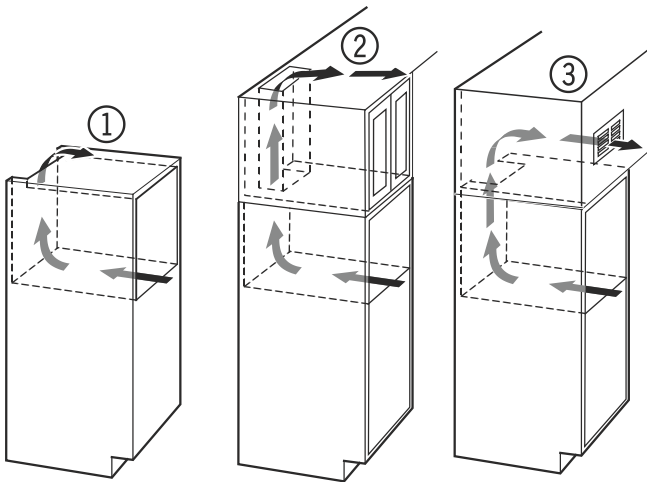


The appliance is built-in and installed into a cabinet wall.

The kitchen unit must be built exactly to the prescribed dimensions and allow for sufficient ventilation, both at air inlet and outlet, to ensure proper appliance operation.

We recommend that the power outlet be located outside the dedicated cabinet box for easy access.

Ventilation



Types of air outlet

- (1) Directly above the appliance
- (2) Above the top unit
- (3) From the front of the top unit with decor grille

When using decor grills, the sum of the individual openings must total a minimum of 200 cm². A cut-out section of 200 cm² for installing the ventilation grille is thus not sufficient.

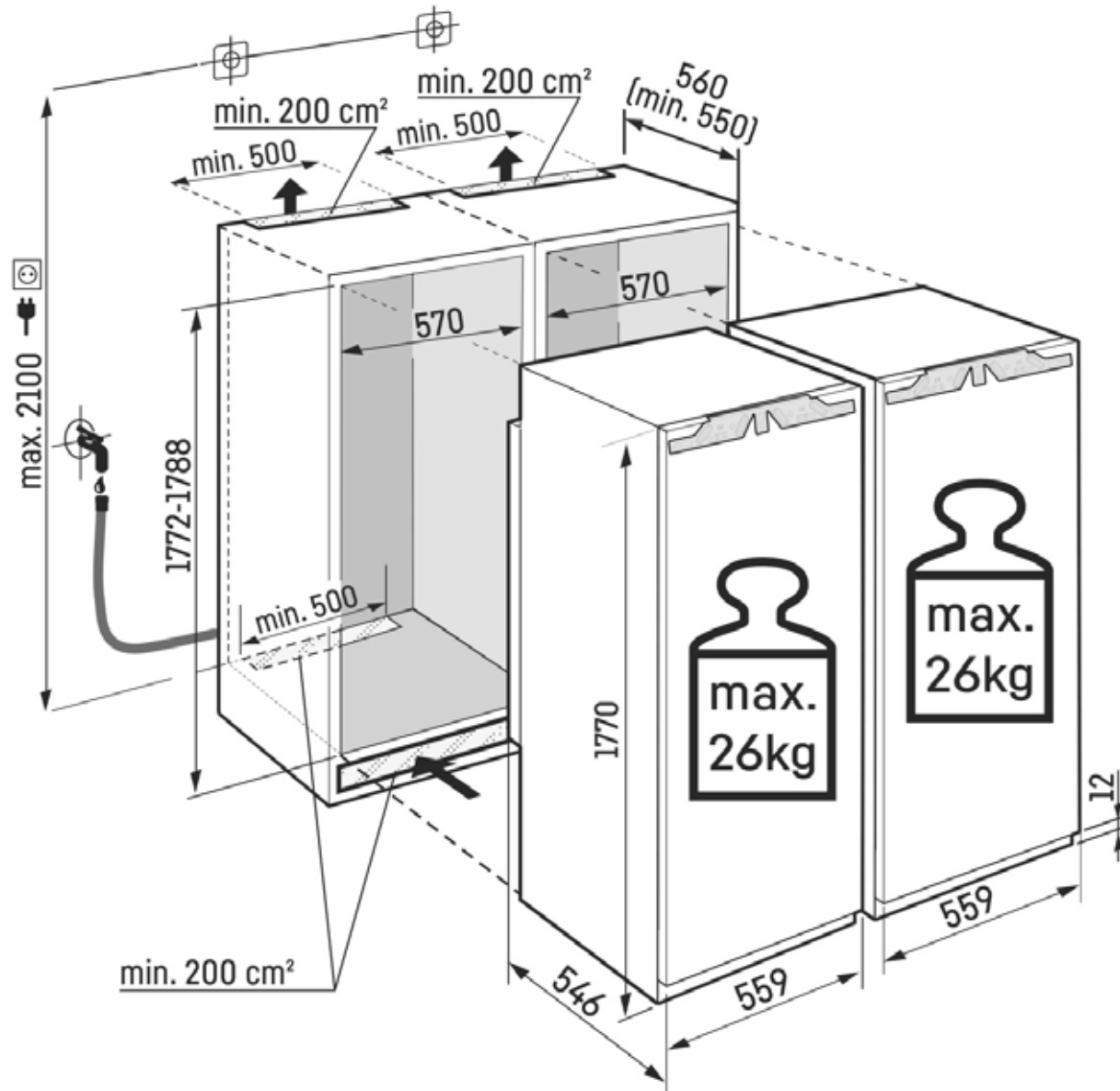


SBS Refrigerator & Freezer



Dual Unit Combination

Two combinations or wine units can be combined together as a side-by-side installation. Do ensure a dedicated cabinet box and ventilation for each appliance like the image shown below.



PLEASE NOTE

- Diagram and measurement shown is not meant for design with recess handles and should be fitted with door handles.
- When wine cabinet or fridge is installed next to a heat source, it may cause external condensation on the external doors, door frame and result in damages of the cabinetry.
- We recommend that the power outlet be located outside the dedicated cabinet box for easy access.
- Water inlet is required only for models with IceMaker. Please refer to Model Overview for models with IceMaker. For more details on water connection requirements, please refer to the General Planning Information on page 8.



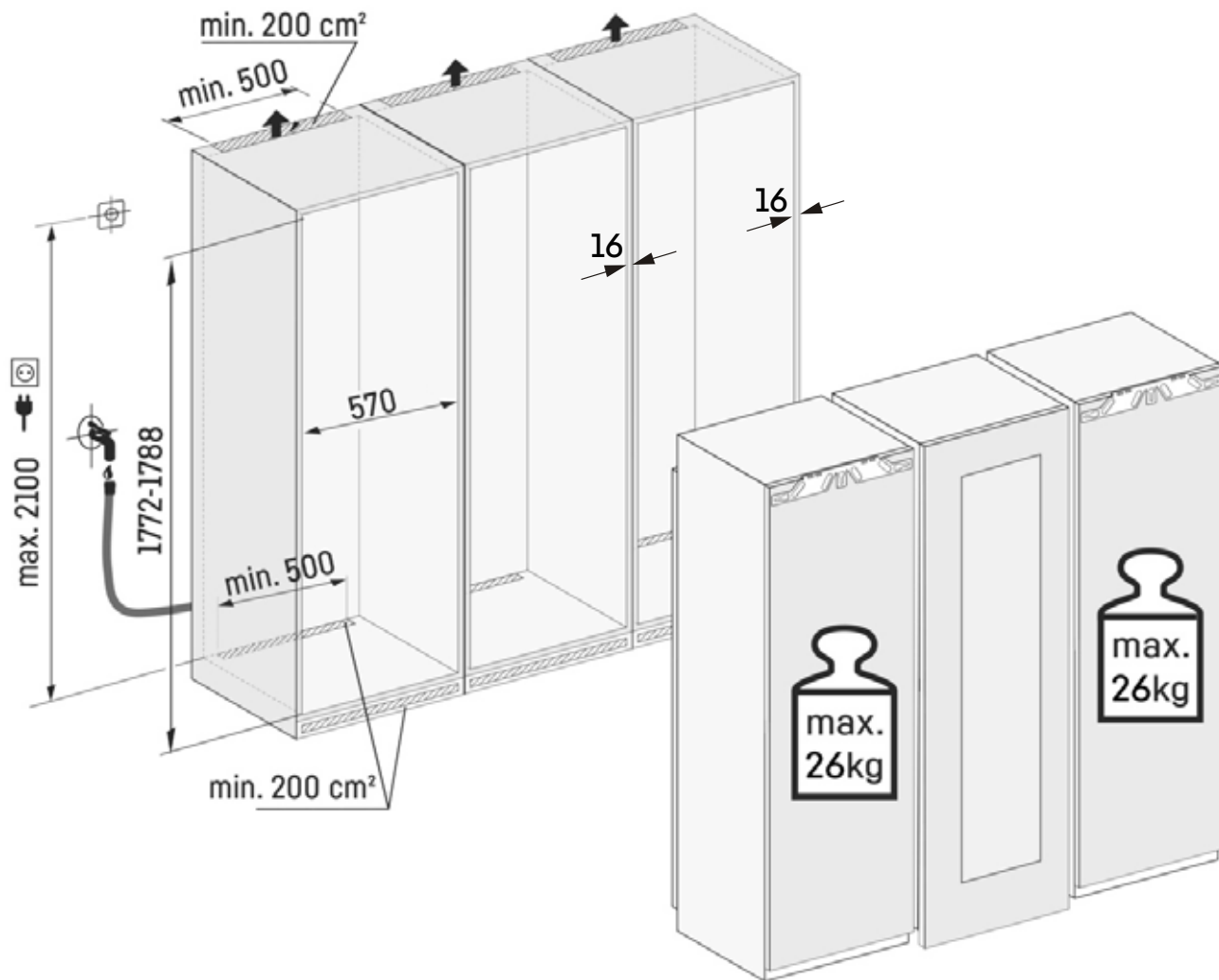


Triple SBS



Triple Unit Combination

Any combination of appliances is possible, do ensure a dedicated cabinet box and ventilation for each appliance like the image shown below.



PLEASE NOTE:

- Diagram and measurement shown is not meant for design with recess handles and should be fitted with door handles.
- The wall thickness of the adjoining cabinets must be min. 16 mm thick.
- Custom door panels should be at least 16mm and a maximum of 19mm thick.
- We recommend that the power outlet be located outside the dedicated cabinet box for easy access.
- When wine cabinet or fridge is installed next to a heat source, it may cause external condensation on the external doors, door frame and result in damages of the cabinetry.
- Water inlet is required only for models with IceMaker. Please refer to Model Overview for models with IceMaker. For more details on water connection requirements, please refer to the General Planning Information on page 8.



Ventilation

Kitchen Unit Ventilation

Applicable Models:

ICBNh 5173, ICNh 5173, ICNh 5133, ICNh 5123,
ICNh 5103, IRBh 5170, IRBh 5120, IRBPh 5170,
SIKB 3550 SIFNH 5128, SIFNh 5188, SIGN 3576,
EWTdf 3553, EWTdf 1653, EWTdf 3583

Appliance can overheat, which can reduce the service life of various parts of the appliance and lead to operational impairments.

- Always make sure there is good ventilation.
- Always keep vents or ventilation grids in the appliance housing and in the kitchen furniture (fully integrated appliance) unobstructed.
- Always keep the fan air vents unobstructed.

Always follow the required ventilation gaps:

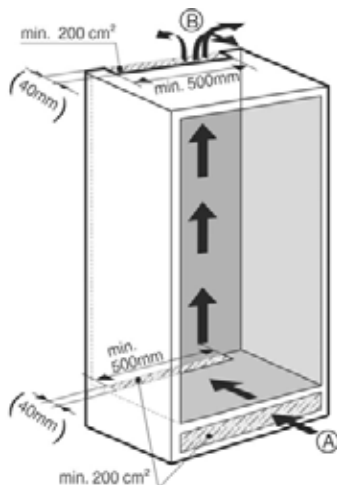
- The depth of the ventilation shaft at the back of the cabinet must be at least 40 mm.
- At least 200 cm² is required for the ventilation cross-sections below the unit at its base and above the unit in the surrounding cabinet.
- As a rule, the larger the ventilation cross-section, the more efficiently the appliance will run.

Sufficient ventilation is required for the operation of the appliance.

There must be an effective ventilation shaft of at least 200 cm² per appliance at the air inlet (A) and outlet (B) vent.

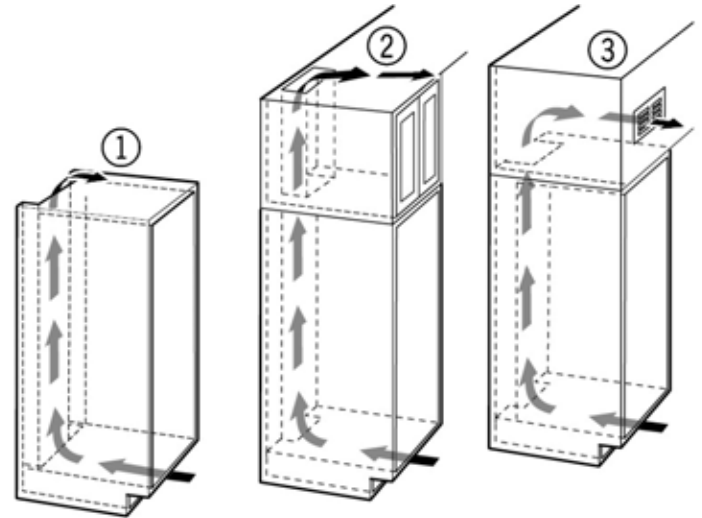
The principle applies that the larger the ventilation shaft, the more energy-saving the operation of the appliance.

ALL three cutouts must be executed for the appliance ventilation.



Types of air outlet

- (1) Directly above the appliance
- (2) Above the top unit
- (3) From the front of the top unit with decor grille



IMPORTANT

When using decor grilles, it must be taken into account that the clear ventilation cross-section corresponds to the sum of the individual openings in the grille.

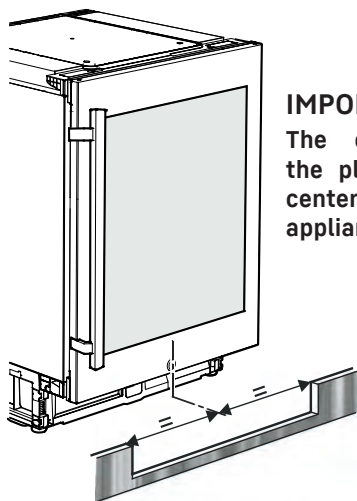
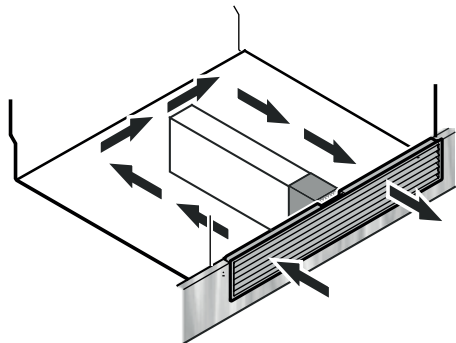
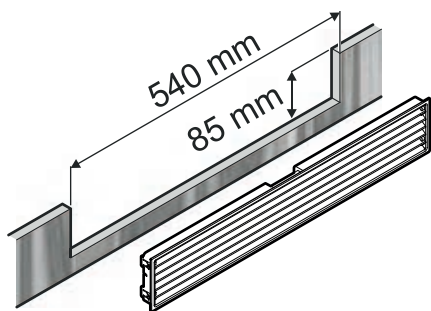
A cut-out section of merely 200 cm² for installing the ventilation grille is thus not sufficient.

Plinth Ventilation

Applicable Models:
UWKes 1752, UWTes 1672, UWTgb 1682

The required air flow is directed through the plinth. It is important to use the provided ventilation grille for the ventilation opening.

Cut-out section in the plinth panel

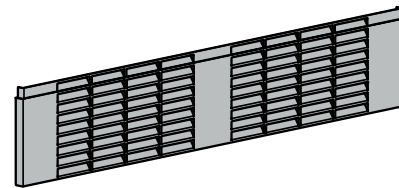


IMPORTANT
The cut-out section in the plinth panel must be centered in relation to the appliance.

Applicable Models:
WU 3400, WU 4500

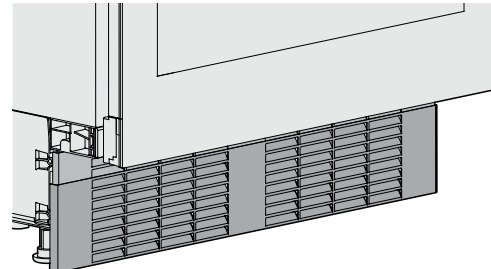
The ventilation grille must be installed into the toe kick panel.

To ensure proper refrigeration performance of the appliance, the adjustable toe kick supplied must be installed.



Failure to follow this instruction may result in poor refrigeration performance.

The adjustment of your wine cabinets to the counter, can be achieved with the adjustable toe kick, (height adjustable from 10 to 15mm). A trim kit to adjust above the wine cabinets units can be used.



IMPORTANT

The cut-out section in the toe kick panel must be centred in relation to the appliance and in the uppermost part of the toe kick

Plinth Ventilation and Panel

Applicable Models:
SUIK 1510, SUIKo 1550, SUIG 1514, UIK 1514

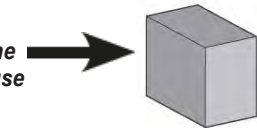
IMPORTANT

To ensure proper refrigeration performance of the appliance, designed ventilation is required.

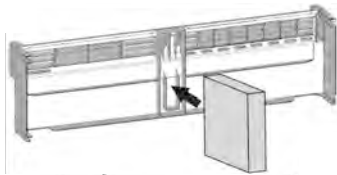
The ventilation grille must be installed onto the appliance.



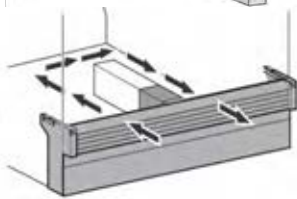
The foam block supplied must be installed in order to ensure the required air flow through the base on the appliance.



The foam block is used to separate the incoming and outgoing air flow and allows sufficient ventilation.



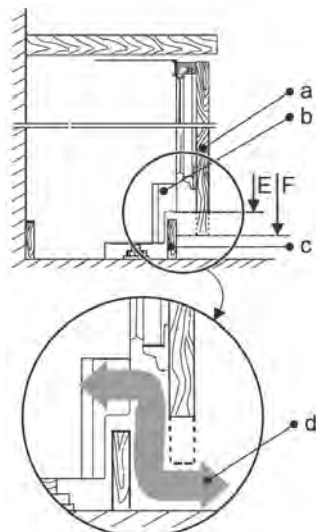
Failure to follow this instruction may result in poor refrigeration performance.



After installing the kitchen cabinet door, there must be a ventilation gap between the appliance ventilation grille and the kitchen cabinet door. The ventilation grille is movable to guarantee sufficient ventilation.

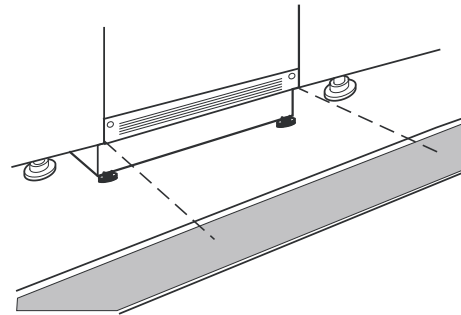
The kitchen cabinet door, the appliance ventilation grille and the plinth panel must maintain a minimum opening of 35 mm to allow proper air flow for ventilation.

- a: kitchen cabinet door
- b: appliance ventilation grille
- c: plinth panel
- d: Air flow gap of 35mm

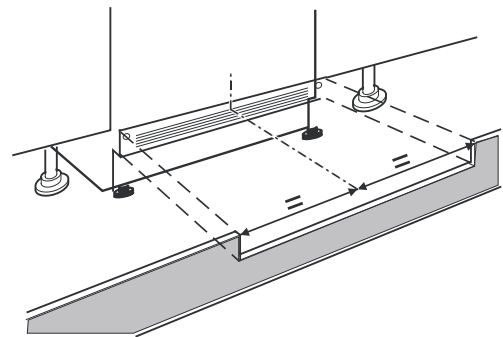


The plinth installation will be different depending on the cabinets where the appliance is installed. A plinth panel will be required to cover the gap between the ventilation grille and the floor.

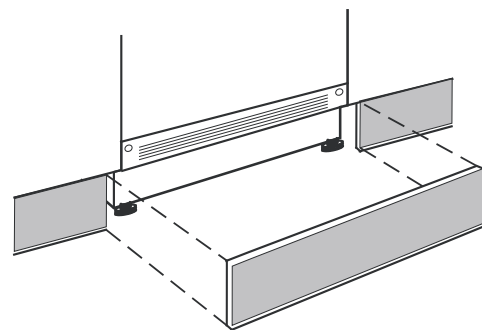
The plinth can be placed along the front of a row of cabinets including the appliance. Do ensure that the plinth panel does not cover the ventilation openings and maintains the 35mm air flow gap shown on the previous diagram.



A cut-out in the plinth panel is necessary when the plinth covers the ventilation openings of the ventilation grille.



If the cabinets do not have a plinth, a plinth can be prepared and fitted just in front of the appliance.



Accessories

Replaceable Accessories

FreshAir Activated Charcoal Filter ¹	2-piece pack	9882429
FreshAir Activated Charcoal Filter ²	2-piece pack	9881289
FreshAir Activated Charcoal Filter ³	2-piece pack	9881291
SmartDevice Box ⁴	1 set	Check with Dealer

1. Applicable for model(s): IRBh 5170 / 5120, IRBPh 5170, ICBNh 5173, ICNh 5173 / 5133 / 5123 / 5103

2. Applicable for model(s): UWTeS 1672, UWKeS 1752 (WU 4500), UWtGb 1682 (WUgb 3400), EWtdf 1653 / 3553, EWtGb 3583

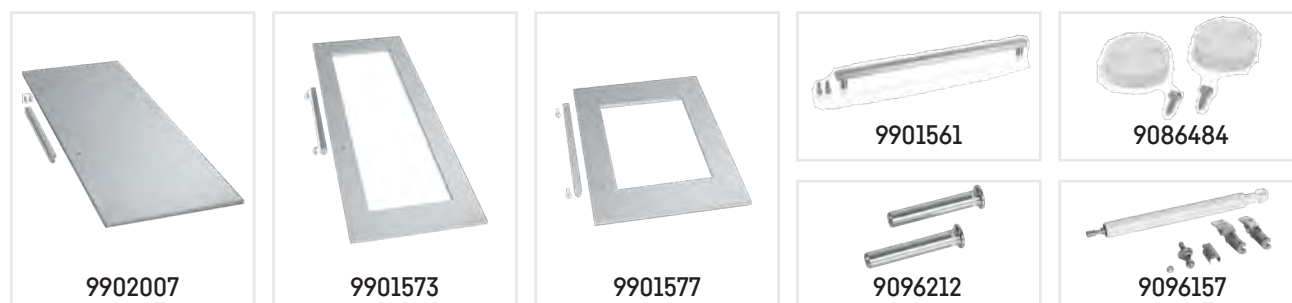
3. Applicable for model(s): WKees 553

4. Please check with your local dealer for the relevant article number and availability.



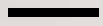
Installation Accessories

S/S Panel with Handle for Single Door Appliance	1 piece	1816 x 595 x 19 mm	-	9902007
S/S Panel Frame with Handle for EWtdf 3553	1 piece	1816 x 595 x 19 mm	-	9901573
S/S Panel Frame with Handle for EWtdf 1653	1 piece	906 x 595 x 19 mm	-	9901577
Aluminum Handles (square)	1 piece	586 x 28 x 49 mm	Hole to hole distance: 546 mm	9901561
Covers for Screw Holes	2 pieces	-	-	9086484
Door Opening Limiter	2 pieces	-	-	9096212
SoftSystem for Built-In Appliances	1 set	-	-	9096157





ECBN Model



Model Overview

Refrigerator-Freezers

Model	Door Hinge (Factory-fitted)	Panel	IceMaker	Niche Dimensions
ECBN 6256	Left fit / right fit	Custom panels, or stainless steel panel as accessories	Yes	← 91 → ↑ 203 ↓
ECBN 6156	Right, reversible	Custom panels, or stainless steel panel as accessories	Yes	← 91 → ↑ 203 ↓
ECBN 5066	Right, reversible	Custom panels, or stainless steel panel as accessories	Yes	← 75 → ↑ 203 ↓



Refrigerator-Freezer - French Door

Applicable models: ECBN 6256



Type of Appliance

Setup and installation/Design Built-in appliance/Floor

Door assembly door-on-door

Installation

Product dimensions (h/w/d) mm 2027 / 910 / 610

Recess dimensions (h/w/d) mm 2032 - 2072 / 915 / min. 635

Door panel options Custom panel or
Stainless Steel Panel as accessory

Max. kitchen unit door weight Single Fridge Door-12 kg

Single Freezer Panel Drawer-10 kg

Door panel thickness min. 16- max. 19

Door hinges left fit/right fit

Door opening angle 105°

Ventilation Plinth ventilation

Other

Power cord length 2800

Water Connection 3/4" water connection, 3000

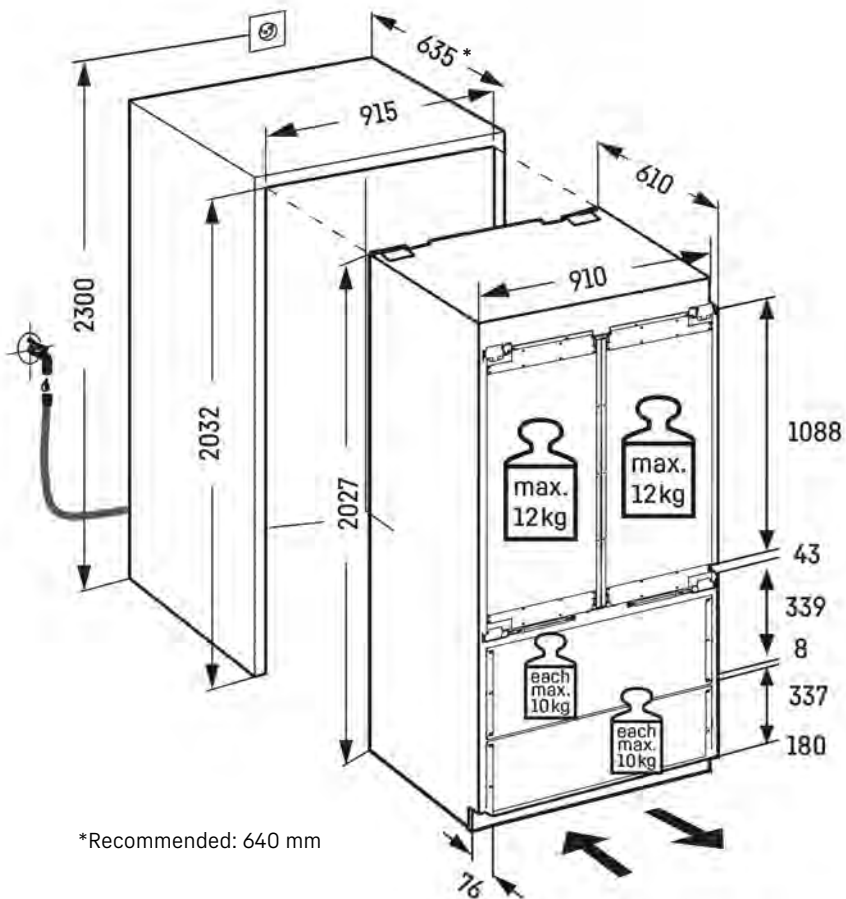
Accessories Water filter

Set of door panel and handles

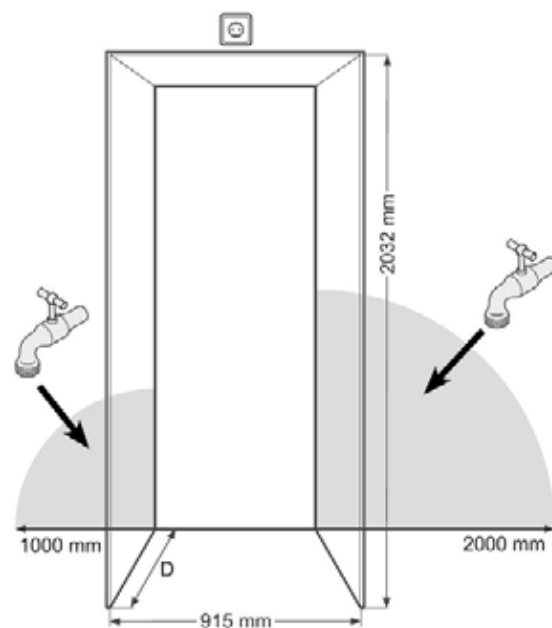
Door opening limiter

*Please refer to the ECBN Accessories Overview on page 56 for more details

Dimensional Drawing

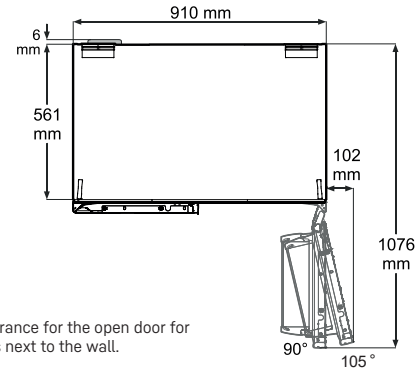
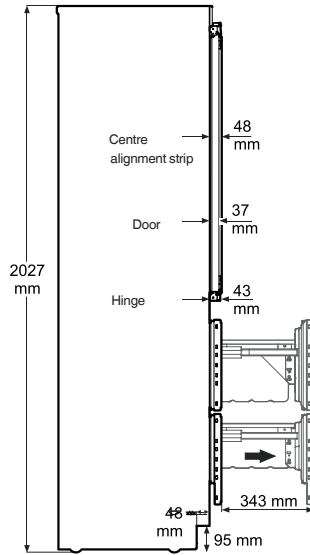
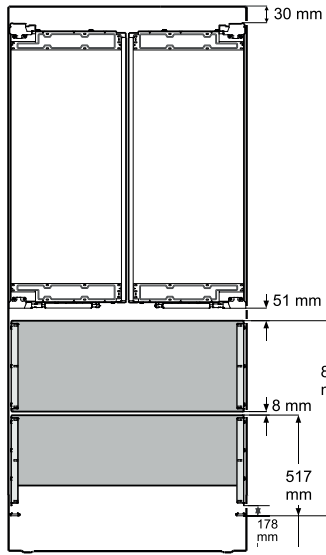


*Recommended: 640 mm



For more details about water connection requirements, please refer to the General Planning Information on page 8.

Product Dimensions

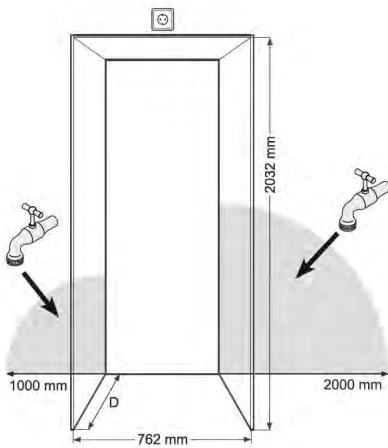


Include clearance for the open door for installations next to the wall.

The refrigerator door must open at least 90° to enable the drawers in the refrigerator to be opened fully and the storage racks to be removed easily.

Recess Dimensions

The appliance stands on the floor between two kitchen units.
If the appliance is integrated into a kitchen unit, the panel width must be adjusted accordingly.



Recess depth **D** for installations with external door panel = 635 mm

Recess depth **D** for installations with internal door panel = 635mm + panel thickness

We recommend that the power outlet and water outlet be located outside the dedicated cabinet box for easy access.

For more details about water connection requirements, please refer to the General Planning Information on page 8.

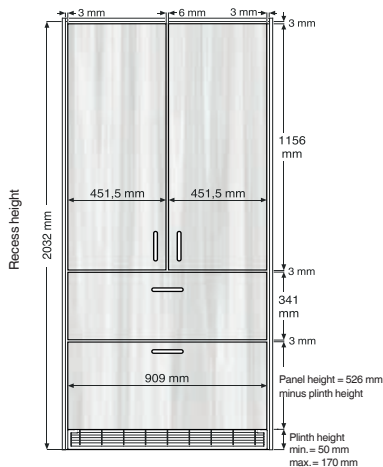
No ventilation opening are required in the kitchen unit for the ECBN appliance exists. Please refer to page 54 for ventilation requirements.



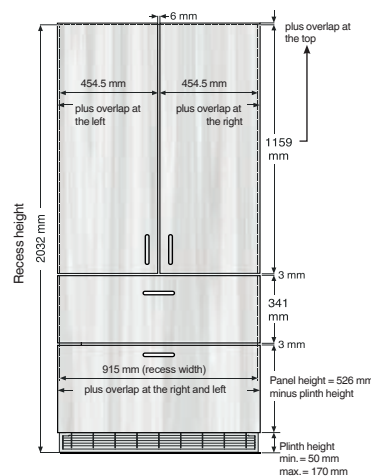
Door panel Dimensions

The size of the cabinet door(s) depends on the overall recess size, on the style of the kitchen and on the gap size between the door panels of the cabinet. Kindly refer to the methods of installation on page 55. It is vital that you refer to the collision grids on the succeeding pages.

Internal door panel



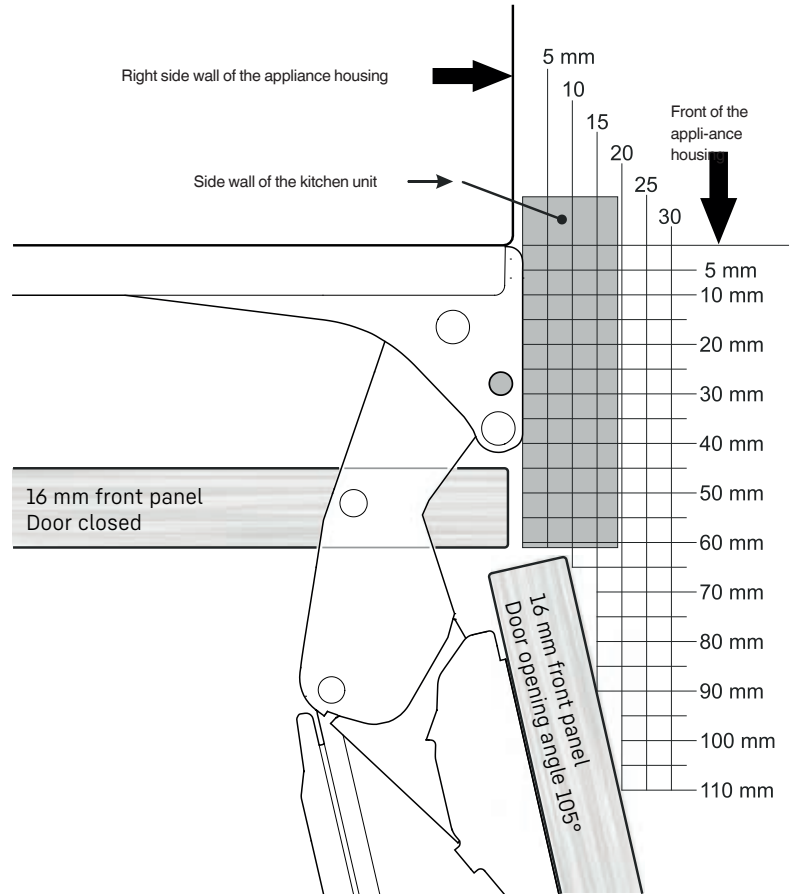
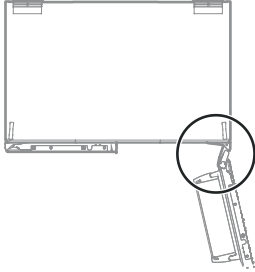
External door panel



Door panel collision grid - 16 mm internal door panel

The illustration shows the gaps required to avoid collisions with neighboring parts when the door is opened.

View from above



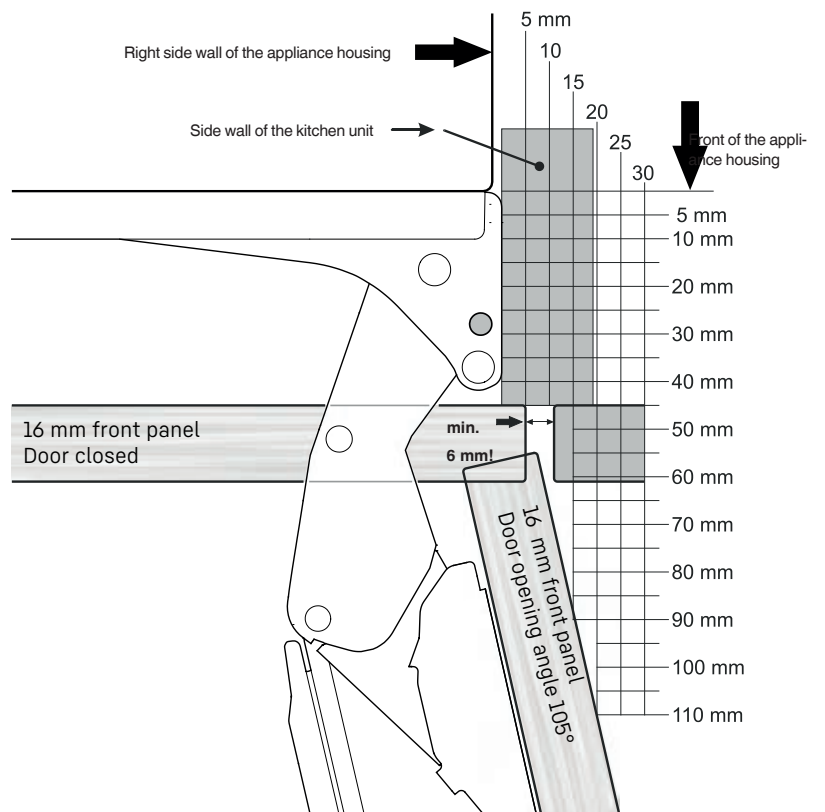
Door panel collision grid - 16 mm external door panel

IMPORTANT

To be taken into account for installations with an external door panel.

The use of 16 mm thick front panels requires a gap of at least 6 mm to the neighbouring door panel.

If the gap is less than 6 mm, the front vertical edge of the door panel will collide with the front vertical edge of the neighbouring panel when the door is opened.

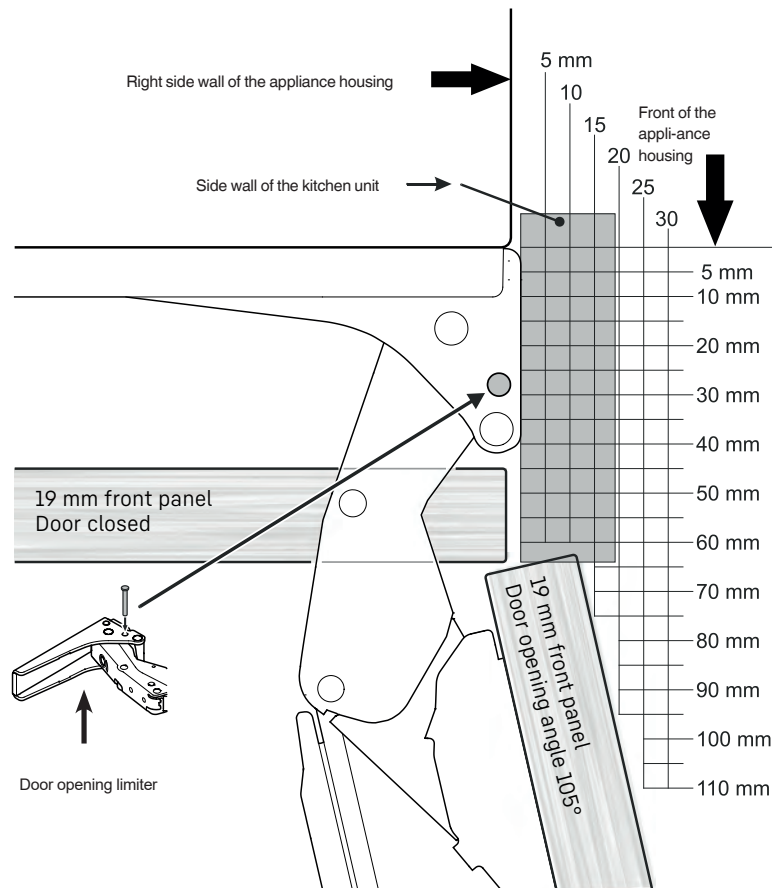


Door panel collision grid - 19 mm internal door panel

IMPORTANT

The hinges must be limited to an opening angle of 95° for installations with an internal door panel and the use of 19 mm thick front panels.

Door opening limiter pins are available as accessories. The panel will collide with the front frame of the kitchen unit at an opening angle of 105°.

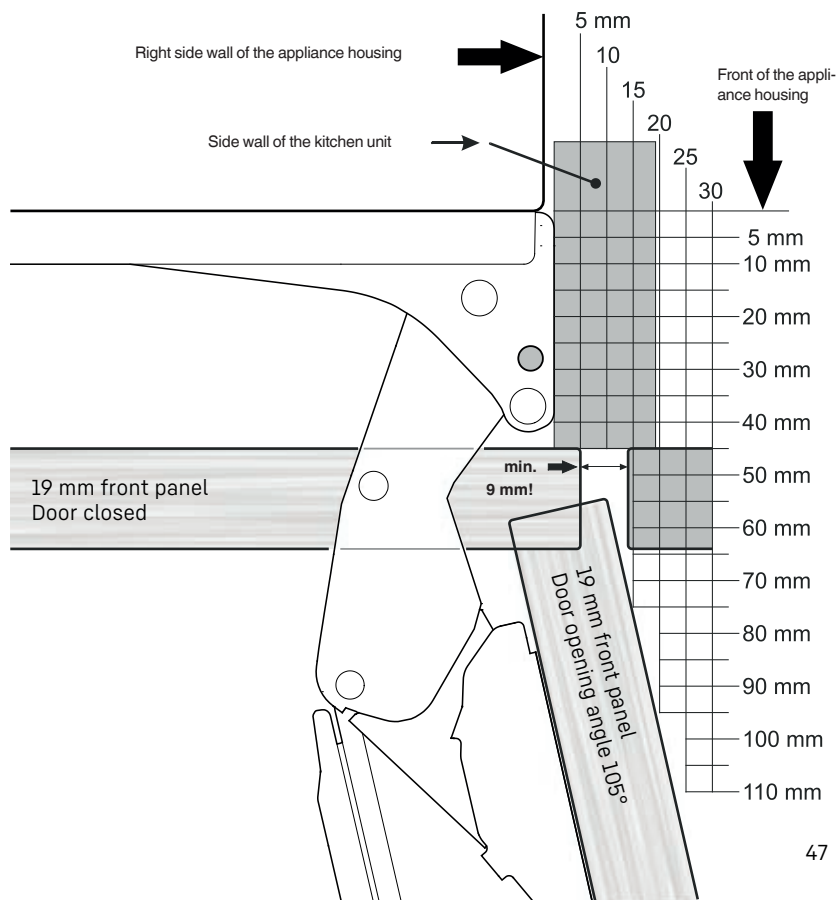


Door panel collision grid - 19 mm external door panel

IMPORTANT

To be taken into account for installations with an external door panel. The use of 19 mm thick front panels requires a gap of at least 9 mm to the neighbouring door panel.

If the gap is less than 9 mm, the front vertical edge of the door panel will collide with the front vertical edge of the neighbouring panel when the door is opened.



Refrigerator-Freezer

Applicable models: ECBN 6156



Type of Appliance

Setup and installation/Design	Built-in appliance/Floor
Door assembly	door-on-door

Installation

Product dimensions [h/w/d] mm	2027 / 910 / 610
Recess dimensions [h/w/d] mm	2032 - 2072 / 915 / min. 635
Door panel options	Custom panel or Stainless Steel

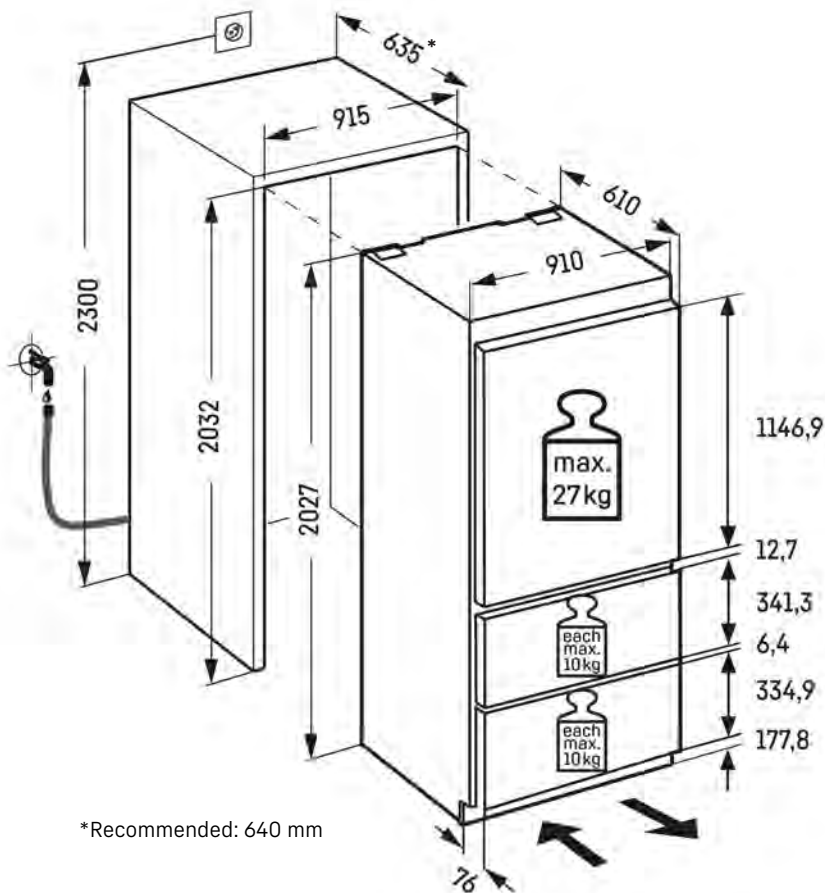
	Panel as accessory
Max. kitchen unit door weight	Single Fridge Door-27 kg
	Single Freezer Panel Drawer-10 kg
Door panel thickness	min. 16- max. 19
Door hinges	Right reversible
Door opening angle	115°
Ventilation	Plinth ventilation

Other

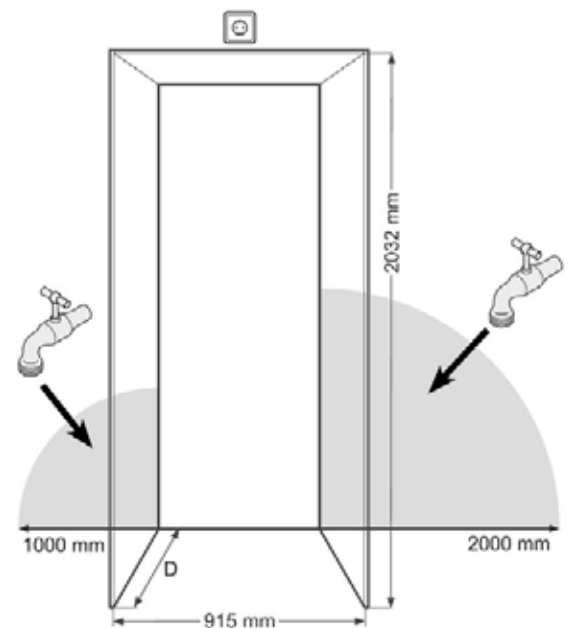
Power cord length	2800
Water Connection	3/4" water connection, 3000
Accessories	Water filter
	Door Reversal Kit, Side by side Kit
	Set of door panel and handles, Door opening limiter

*Please refer to the ECBN Accessories Overview on page 57 for more details

Dimensional Drawing

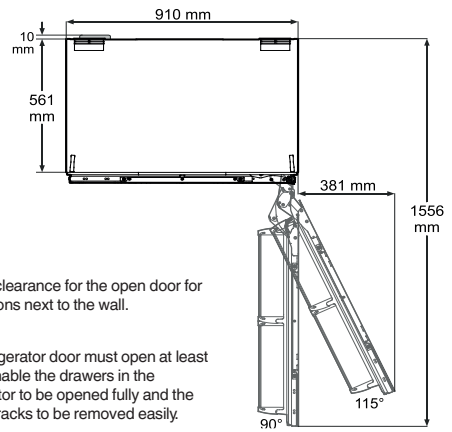
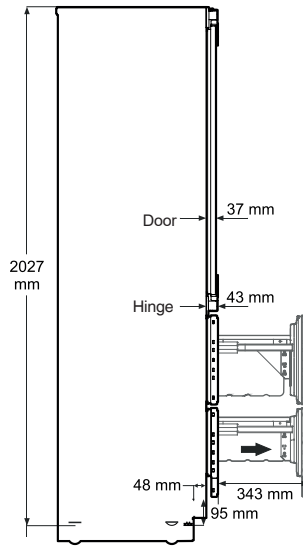
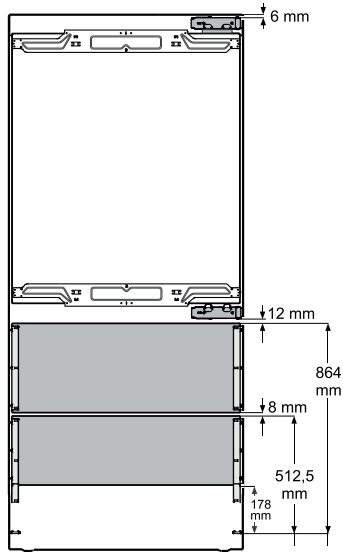


*Recommended: 640 mm



For more details about water connection requirements, please refer to the General Planning Information on page 8.

Product Dimensions



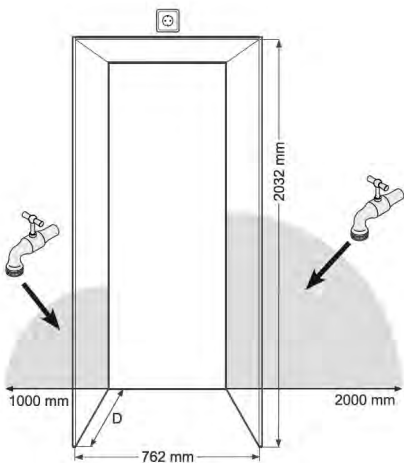
Include clearance for the open door for installations next to the wall.

The refrigerator door must open at least 90° to enable the drawers in the refrigerator to be opened fully and the storage racks to be removed easily.

Maximum door opening angle = 115°

Recess Dimensions

The appliance stands on the floor between two kitchen units. If the appliance is integrated into a kitchen unit, the panel width must be adjusted accordingly.



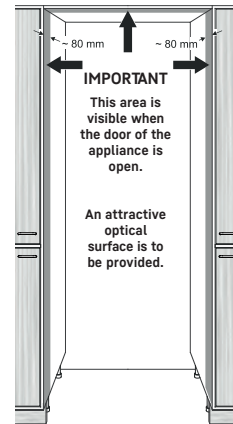
Recess depth **D** for installations with external door panel = 635 mm

Recess depth **D** for installations with internal door panel = 635mm + panel thickness

We recommend that the power outlet and water outlet be located outside the dedicated cabinet box for easy access.

For more details about water connection requirements, please refer to the General Planning Information on page 8.

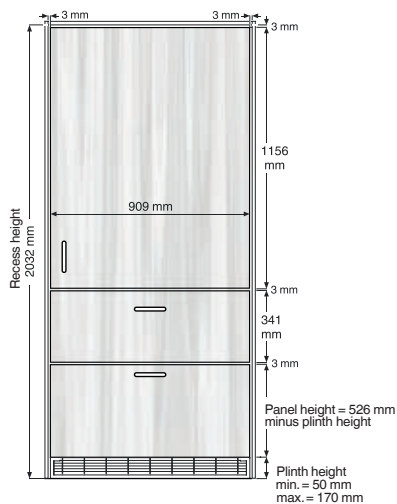
No ventilation opening are required in the kitchen unit for the ECBN appliance exists. Please refer to page 54 for ventilation requirements.



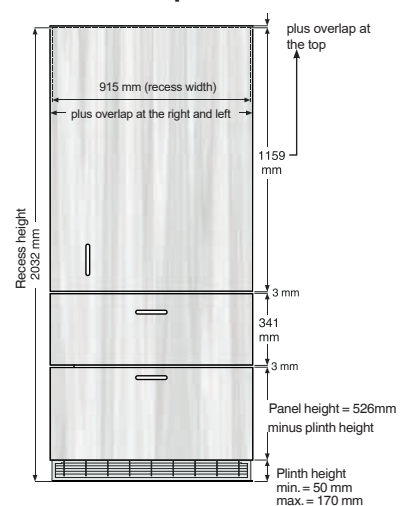
Door panel Dimensions

The size of the cabinet door(s) depends on the overall recess size, on the style of the kitchen and on the gap size between the door panels of the cabinet. Kindly refer to the methods of installation on page 55.

Internal door panel



External door panel



Refrigerator-Freezer

Applicable models: ECBN 5066



Type of Appliance

Setup and installation/Design Built-in appliance/Floor door-on-door

Installation

Product dimensions (h/w/d) mm 2024 / 757 / 610

Recess dimensions (h/w/d) mm 2032 - 2072 / 762 / min. 635

Door panel options Custom panel or Stainless Steel Panel as accessory

Max. kitchen unit door weight Single Fridge Door-27 kgs Single Freezer Panel Drawer-10 kgs

Door panel thickness min. 16- max. 19

Door hinges Right reversible

Door opening angle 115°

Ventilation Plinth ventilation

Other

Power cord length 2600

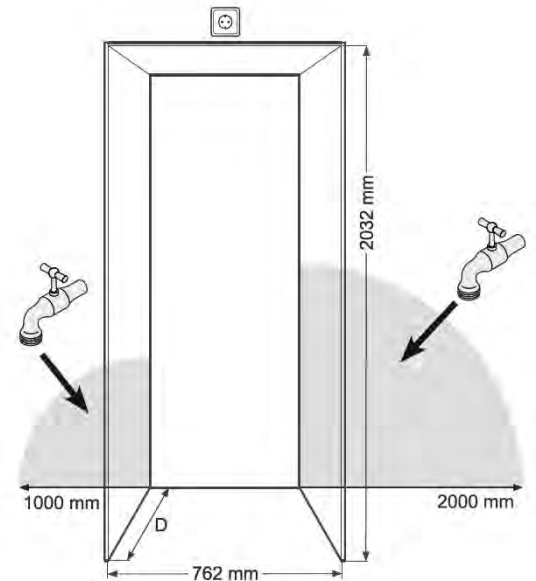
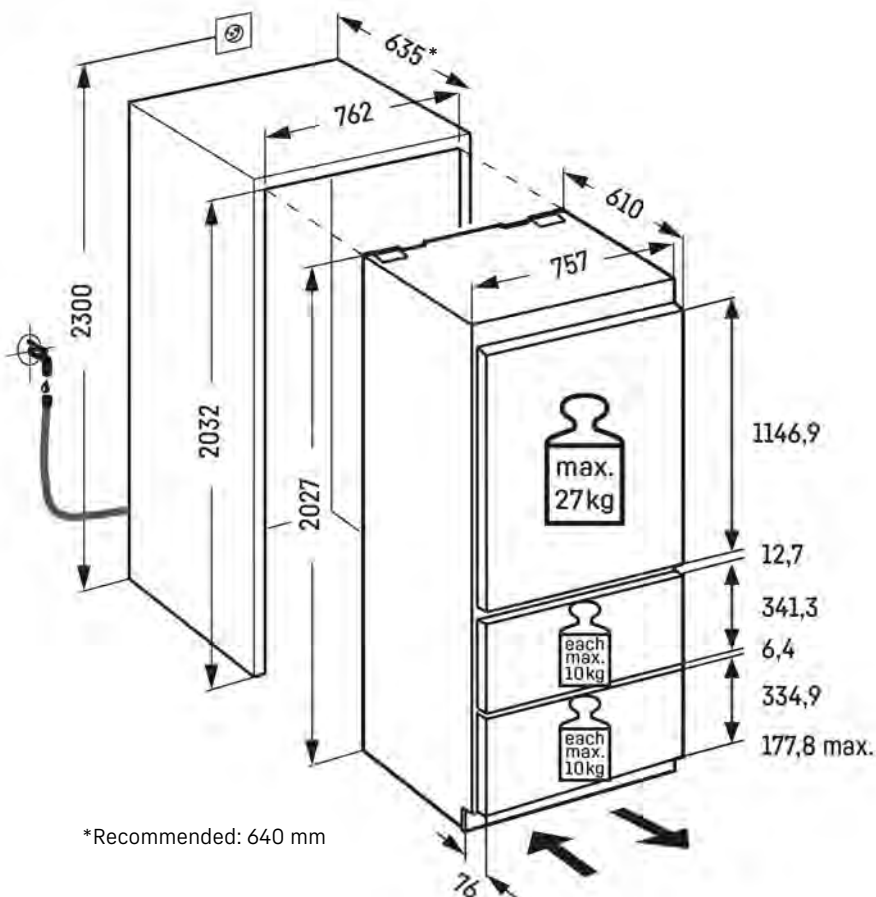
Water Connection 3/4" water connection, 3000

Accessories* Water filter

Door Reversal Kit, Side by side Kit, Set of door panel and handles Door opening limiter

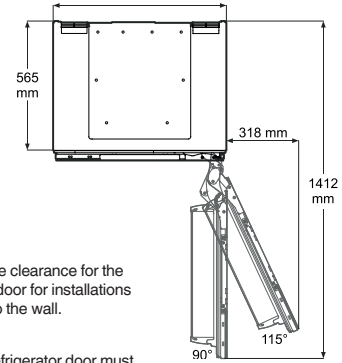
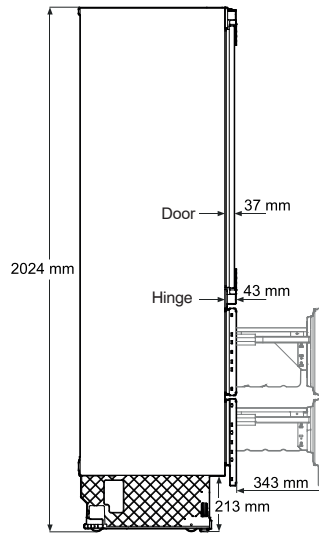
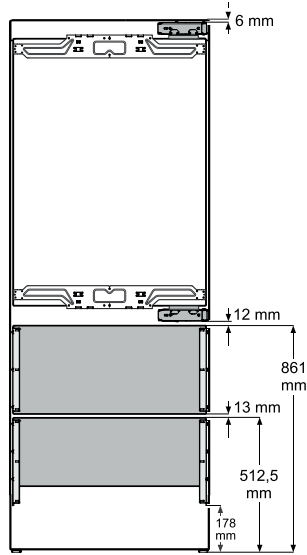
*Please refer to the ECBN Accessories Overview on page 57 for more details

Dimensional Drawing



For more details about water connection requirements, please refer to the General Planning Information on page 8.

Product Dimensions



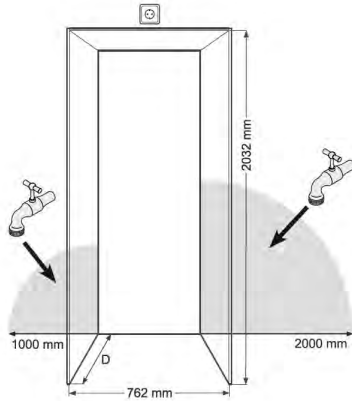
Include clearance for the open door for installations next to the wall.

The refrigerator door must open at least 90° to enable the drawers in the refrigerator to be opened fully and the storage racks to be removed easily.

Maximum door opening angle = 115°

Recess Dimensions

The appliance stands on the floor between two kitchen units. If the appliance is integrated into a kitchen unit, the panel width must be adjusted accordingly.



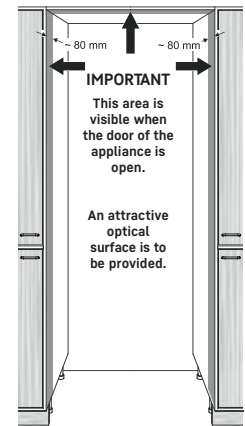
Recess depth **D** for installations with external door panel = 635 mm

Recess depth **D** for installations with internal door panel = 635mm + panel thickness

We recommend that the power outlet and water outlet be located outside the dedicated cabinet box for easy access.

For more details about water connection requirements, please refer to the General Planning Information on page 8.

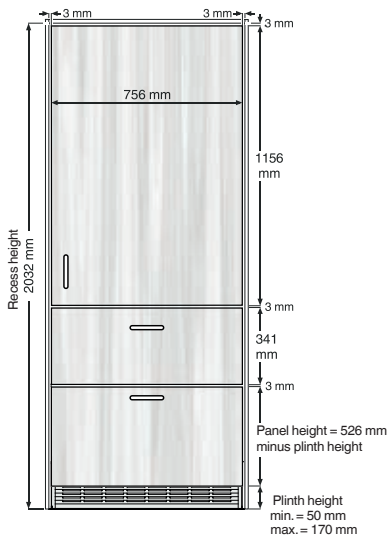
No ventilation opening are required in the kitchen unit for the ECBN appliance exists. Please refer to page 54 for ventilation requirements.



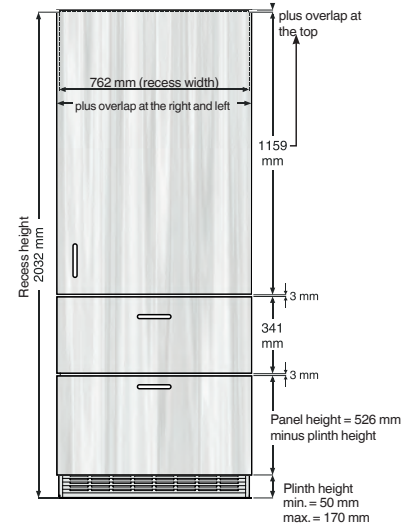
Door panel Dimensions

The size of the cabinet door(s) depends on the overall recess size, on the style of the kitchen and on the gap size between the door panels of the cabinet. Kindly refer to the methods of installation on page 55.

Internal door panel

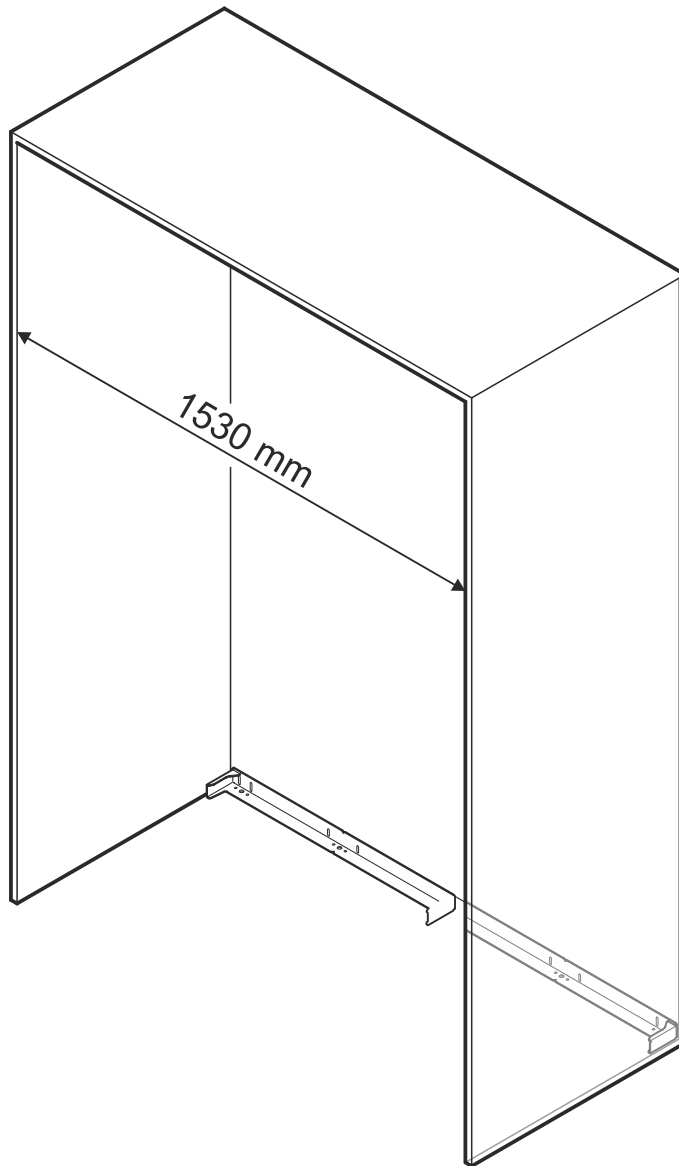


External door panel



Side by Side (SBS) Installation

Applicable models: 2x ECBN 5066

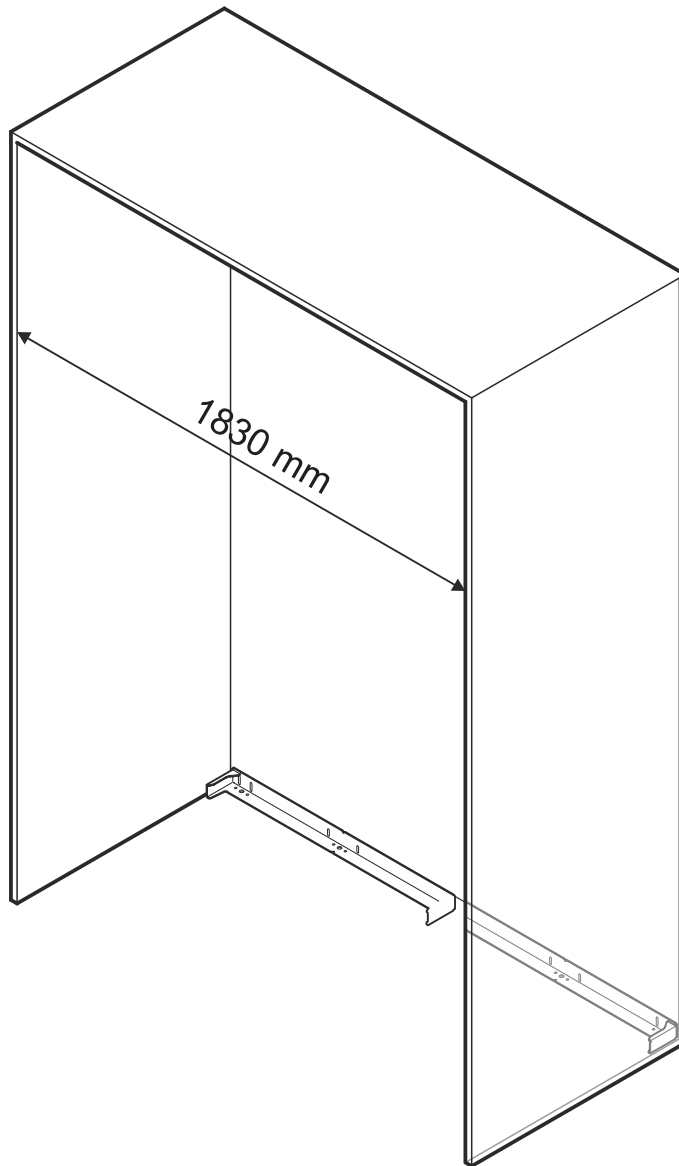


PLEASE NOTE:

- Please refer to descriptions of the individual appliances for installation and door panel dimensions.
- Custom door panels should be at least 16mm and a maximum of 19mm thick.
- We recommend that the power outlet be located outside the dedicated cabinet box for easy access.
- A Side-by-Side kit is needed to set up two appliances next to each other. The gap between the appliances is maintained, and they are connected cleanly by means of the cover strip.
- Door hinge exchange set is available to be used when reversing factory-fitted hinges. Door reversal must be performed by a Liebherr authorized dealer.
- Please refer to the Accessories Overview on page 57 for more details

Side by Side (SBS) Installation

Applicable models: 2x ECBN 6156



PLEASE NOTE:

- Please refer to descriptions of the individual appliances for installation and door panel dimensions.
- Custom door panels should be at least 16mm and a maximum of 19mm thick.
- We recommend that the power outlet be located outside the dedicated cabinet box for easy access.
- A Side-by-Side kit is needed to set up two appliances next to each other. The gap between the appliances is maintained, and they are connected cleanly by means of the cover strip.
- Door hinge exchange set is available to be used when reversing factory-fitted hinges. Door reversal must be performed by a Liebherr authorized dealer.
- Please refer to the Accessories Overview on page 57 for more details

Ventilation

Plinth Ventilation

Applicable Models:

ECBN 6256, ECBN 6156, ECBN 5066

No ventilation openings are required in the kitchen unit for the EC(B)N appliance series. The air is exchanged through the appliance plinth.

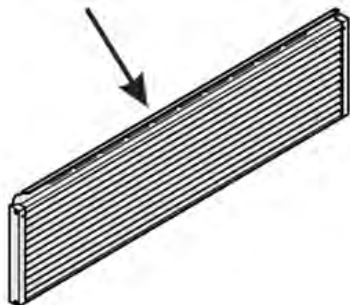


Refrigerant R600a

The refrigerant R600a used in the appliances is environmentally friendly but flammable.

Do not cover the ventilation openings. Overheating as a result of inadequate ventilation may cause fire.

The required air flow is directed through the plinth. It is important to use the provided ventilation grille for the ventilation opening. **This opening must not be covered!**

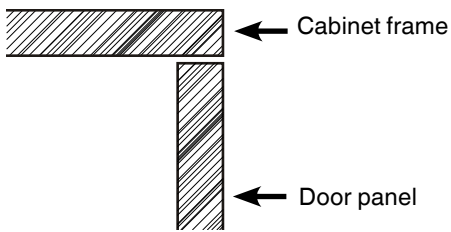


Methods of installation

Internal door panel

Appliance and panels sit fully within the opening and are flush with what could be its own box, between two pantry cabinets or decorative columns.

Side view of cabinet (sectional view)



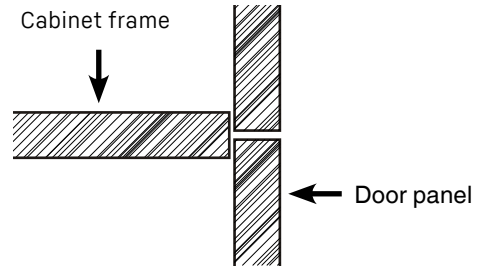
The door panel fits inside the body of the kitchen unit; the front of the unit is visible.



External door panel

With this installation style, these wider appliance panels partially overlay the shared side gables of adjacent cabinetry so as to mimic the look of a frameless style cabinet.

Side view of cabinet (sectional view)



The door panel rests on the panels of the kitchen unit; the front of the unit is covered by the door panel.



Accessories

Replaceable Accessories

Water Filter

1 piece

9880980



9880980

Installation Accessories for ECBN 6256

80" S/S Panel for Fridge	1 piece	1153 x 451 x 19 mm	-	9900337
84" S/S Panel for Fridge	1 piece	1255 x 451 x 19 mm	-	9900335
S/S Panel for Freezer	Top Panel	341 x 908 x 19 mm	-	9900323
	Bottom Panel	421 x 908 x 19mm	-	
Set of S/S Handles (round)	4 pieces	898 x 18 x 53 mm	Hole to hole distance: 800 mm	9900339
Set of Aluminum Handles (square)	4 pieces	840 x 26 x 44 mm	Hole to hole distance: 800 mm	9900513
Door Opening Llimiter	4 pieces	-	-	9096214



9900337



9900335



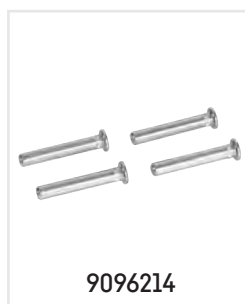
9900323



9900339



9900513

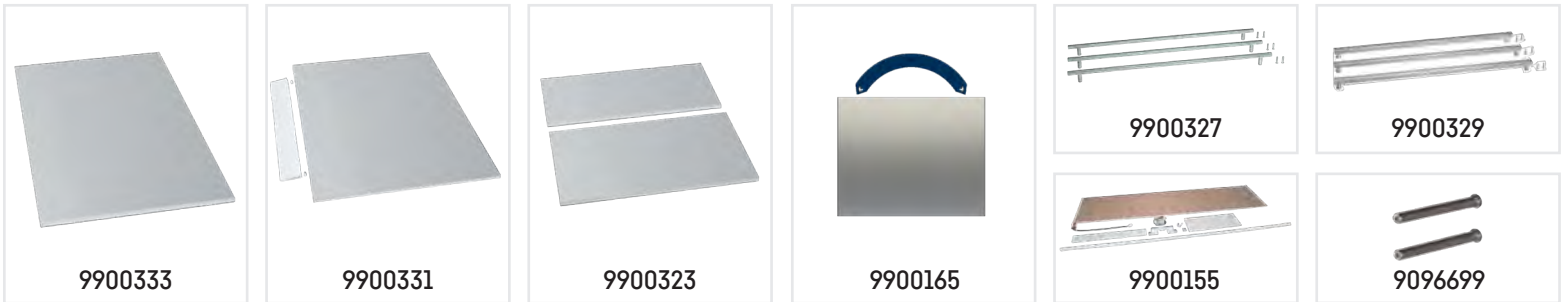


9096214

Accessories

Installation Accessories for ECBN 6156

80" S/S Panel for Fridge	1 piece	1153 x 908 x 19 mm	-	9900333
84" S/S Panel for Fridge	1 piece	1255 x 908 x 19 mm	-	9900331
S/S Panel for Freezer	Top Panel	341 x 908 x 19 mm	-	9900323
	Bottom Panel	421 x 908 x 19mm	-	
Set of S/S Handles (round)	3 pieces	898 x 18 x 53 mm	Hole to hole distance: 800 mm	9900327
Set of Aluminum Handles (square)	3 pieces	840 x 26 x 44 mm	Hole to hole distance: 800 mm	9900329
Side By Side Kit	1 set	-	-	9900155
Door Reversal Kit	1 set	-	-	9900165
Door Opening Llimiter	2 pieces	-	-	9096699



Installation Accessories for ECBN 5066

80" S/S Panel for Fridge	1 piece	1153 x 755 x 19 mm	-	9900287
84" S/S Panel for Fridge	1 piece	1255 x 755 x 19 mm	-	9900285
S/S Panel for Freezer	Top Panel	341 x 755 x 19 mm	-	9900283
	Bottom Panel	421 x 755 x 19mm	-	
Set of S/S Handles (round)	2 pieces	898 x 18 x 53 mm	Hole to hole distance: 800 mm	9900279
	1 piece	745 x 18 x 53 mm	Hole to hole distance: 647 mm	
Set of Aluminum Handles (square)	2 pieces	840 x 26 x 44 mm	Hole to hole distance: 800 mm	9900281
	1 piece	687 x 26 x 44 mm	Hole to hole distance: 647 mm	
Side By Side Kit	1 set	-	-	9900157
Door Reversal Kit	1 set	-	-	9900167
Door Opening Llimiter	2 pieces	-	-	9096699



Liebherr-Singapore Pte Ltd

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Whilst every effort is made to ensure all specifications and information in this design guide are accurate, Liebherr reserves the right to make changes without notification. Where actual appliance measurements, specifications, and ratings are crucial, we recommend that the actual appliance installation instructions that accompany each appliance be checked. Liebherr will not be liable for any loss. For the latest available data, see home.liebherr.com. (Version 1.0/0224)