

LIEBHERR

Design Guide
Wine and Undercounter
Release 06 2016

Liebherr's engineering excellence in Germany provides the largest selection of freezers, refrigerators and wine refrigerators worldwide.

Liebherr is one of the World's leading Manufacturers of Premium Refrigeration. For more than 60 years, Liebherr has specialized in developing and manufacturing first class refrigerators and freezers as well as wine cabinets. We focus on performance and efficiency as well as keeping food fresher longer. Produced in Austria and Germany, Liebherr has a full line of premium models tailored specifically for the North American marketplace to fit any design vision you have for your kitchen.

Our freestanding stainless models are sleek centerpieces that make a definite statement. Our built-in models are perfect for designs that call for units that slide into cabinet surrounds. And our fully-integrated models become one with your kitchen design, hidden seamlessly behind your custom cabinetry.

High quality materials, perfectly detailed finishes, precise electronic control systems, elite cooling components, variable speed compressors and the latest production processes ensure energy efficiency and performance for years to come. Our superior products offer premium quality, cutting edge design and innovative features that fit with your busy lifestyle.

Liebherr's Commitment to the Environment

The components of Liebherr products can be recycled when the necessary resources are available. A concern for the environment and a desire to protect resources has led to increased levels of recycling year after year. When Liebherr manufactures products, it is essential that the recyclable recovery rate of the materials we use constantly increases.

Recycling is a common goal among all manufacturers, municipalities and recycling companies to protect our environment. Protecting the environment and producing products which have a low impact on the environment, is one of Liebherr's core values. When the time comes, please attempt to dispose of your old appliances in an environmentally safe and friendly manner.

LIEBHERR WARRANTY PLAN

FULL TWO YEAR WARRANTY

For two years from the date of original purchase, your Liebherr warranty covers all parts and labor to repair or replace any part of the product which proves to be defective in materials or workmanship.

FULL FIVE YEAR WARRANTY

For five years from the date of original purchase, your Liebherr warranty covers all parts and labor to repair or replace any components that prove to be defective in materials or workmanship in the sealed system. The "Sealed System" means only the compressor, condenser, evaporator, drier and all connecting tubing.

LIMITED 6TH THROUGH 12TH YEAR WARRANTY

From the 6th through 12th year from the date of original purchase, your Liebherr warranty covers all parts that prove to be defective in materials or workmanship in the Sealed System (parts only).

For Service in the U.S.

Liebherr Service Center

Toll Free: **1-866-LIEBHER**
1-866-543-2437

Email: Service-appliances.us@liebherr.com

PlusOne Solutions, Inc.

3501 Quadrangle Blvd, Suite 120
Orlando, FL 32817

For Installation Questions

Install.Americas@liebherr.com

For Service in Canada

Liebherr Service Center

Toll Free: **1-888-LIEBHER**
1-888-543-2437

www.euro-parts.ca

EURO-PARTS CANADA

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Belgrave, Ontario, N0G 1E0
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DesignGuide

Safety Warnings.....	7
Electrical Requirements & Safety	8
Area Requirements	9
Safety Regulations	9
Specifications	10
WU 3400.....	10
WUgb 3400.....	10
WU 4500.....	10
HWS 1800.....	11
HWgb 1803 (black glass front)	11
HWgw 1803 (white glass front)	11
UPR 503	11
WS 17800	12
RU 510	13
RO 510	13
Undercounter Wine Cabinet WU 3400 / WU 4500	14
Appliance and Cabinet Dimensions	15
Dimensions of Appliance Door	15
Undercounter Wine Cabinet WUgb 3400	16
Appliance and Cabinet Dimensions	17
Dimensions of Appliance Door	17
Built in Wine Cabinet HWS 1800	18
Appliance Dimensions.....	18
Cabinet Dimensions	19
Cabinet Dimensions - Flush Face Installation.....	19
Appliance Venting.....	19
Built in Wine Cabinet HWgb 1803, HWgw 1803.....	20
Appliance Dimensions.....	20
Cabinet Dimensions	21
Appliance Venting.....	21
Types of air outlet	21
Fully integrated Undercounter UPR 503.....	22
Ventilation Requirements	22
Appliance and Cabinet Dimensions	23
Side by Side UPR 503	23
Location Of The Electrical Outlet.....	23
Fastening Method Appliance - Cabinet	24
Toe Kick Panel.....	24
Kitchen Cabinet Doors	25
Kitchen Cabinet Door Panel for standard Toe Kick	25
Freestanding Wine Cabinet WS 17800	26
Appliance Dimensions.....	26
Cabinet Opening Dimensions	27
Side by Side WS 17800	27
Door Swing Clearance WS 17800	28
Door Swing Clearance WS 17800	29
Undercounter Beverage Center RU 510	30
Appliance and Cabinet Dimensions	31
Dimensions of Appliance Door	31
Outdoor Refrigerator RO 510	32
Appliance Dimensions.....	32
Dimensions of Appliance Door	33
Accessories.....	34
Accessories.....	36

General Remarks

Safety Warnings

PLEASE READ AND FOLLOW THESE INSTRUCTIONS

This design guide contains Warning and Important statements. This information is important for planning a safe and efficient installation. Please refer to the Installation Manual specific to your model for complete installation instructions.

This design guide is intended for planning purposes and is not a replacement for your appliance's Use and Care Manual which contains important information on how to use Liebherr appliances.

Always read and follow all Warning and Important statements!



Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

IMPORTANT

This highlights information that is especially relevant to a problem-free installation and operation.

Make sure incoming voltage is the same as the unit rating.

To reduce the risk of fire, electric shock, or personal injury, the installation work and electrical wiring must be done by a qualified electrician in accordance with all applicable codes and standards, including fire rated construction.

To the Installer

It is very important that the guidelines and instructions are followed in this design guide to ensure proper installation and operation of the unit. The Installation Guidelines section contains important information for making sure the installation is correct. Read and understand all the information and installation guidelines in this manual before the unit is installed.

It is also very important to **know** the Safety Information.

General Remarks

Electrical Requirements & Safety

A 15 amp or 20 amp, 110-120 VAC, circuit which is grounded and protected by a circuit breaker or fuse is required.

We recommend using a dedicated circuit for each appliance to prevent circuit overload and the chance of interruption to the appliance.

The appliances are equipped with a three-prong (grounding) polarized plug for protection against possible shock hazards.

Comply with the National Electrical Code as well as local codes and ordinances when installing the receptacle.



WARNING!

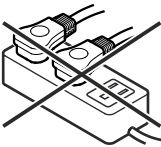
Electrocution hazard.

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.

Additional Electrical Requirements for Outdoor Refrigerator RO 510

When using the RO 510 Appliance Indoors

Connect the appliance to a 15 amp or 20 amp, 110-120 VAC, circuit which is grounded and protected by a circuit breaker or fuse.

When using the RO 510 Appliance Outdoors

The appliance must be connected to a GFCI (Ground Fault Circuit Interrupter) receptacle.



WARNING!

Electrocution hazard.

For outdoor use, connect this appliance to a GFCI receptacle only.

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

IMPORTANT

Do not place the appliance where it may be in standing water or where the power cord may be immersed.

General Remarks

Area Requirements

Verify the following:

- Finished kitchen floor height is level. The appliance must be shimmed to the floor level, or levelled, to make sure air vents are not obstructed.
- Remove anything attached to the rear or side walls that can obstruct the refrigerator opening.
- Cutout dimensions are accurate.
- Electrical outlet is in correct location.

Do not install this appliance next to any other refrigerator or freezer except another Liebherr model.

Liebherr models are designed to allow side by side installation. They are equipped with a heating system to eliminate condensation when units are installed side by side.

Installing this appliance next to any other refrigerator or freezer can cause condensation or cause damage to the appliance.

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 system lubrication to reach equilibrium.

Safety Regulations

The appliances are designed to cool and store wine and beverages.

The appliances are manufactured to operate within specific ambient temperature limits according to its climate rating.

The climate rating indicates the ambient temperature at which the appliance may be operated in order to deliver optimal refrigeration performance.

The climate rating for each model is visible in chapter "Specifications".

Climate Rating	Ambient Temperature
SN	50°F to 90°F (10°C to 32°C)
N	61°F to 90°F (16°C to 32°C)
ST	61°F to 100°F (16°C to 38°C)
T	61°F to 109°F (16°C to 43°C)
SN-ST	50°F to 100°F (10°C to 38°C)
SN-T	50°F to 109°F (10°C to 43°C)

IMPORTANT

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

- Refrigerant circuits are tested for leaks.
- The appliances

WU 3400
WUgb 3400
WU 4500
HWgb 1803
HWgw 1803
UPR 503
RU 510
RO 510

complies with current safety regulations

CAN/CSA C22.2 No.60335-1-11
UL 60335-1 Fifth Edition
CAN/CSA C22.2 No. 60335-2-24-06
UL 60335-2-24 First Edition

- The appliances

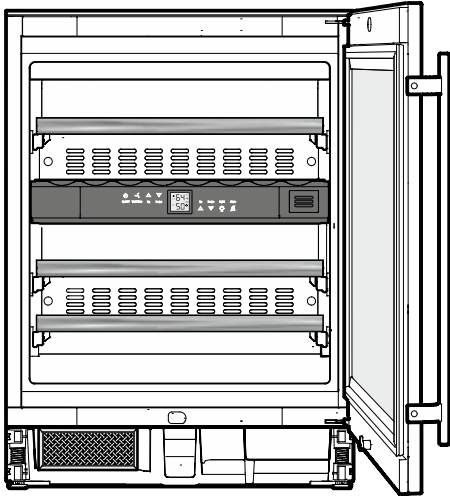
HWS 1800
WS 17800

complies with current safety regulations

CAN/CSA C22.2 # 63
UL 250

Specifications

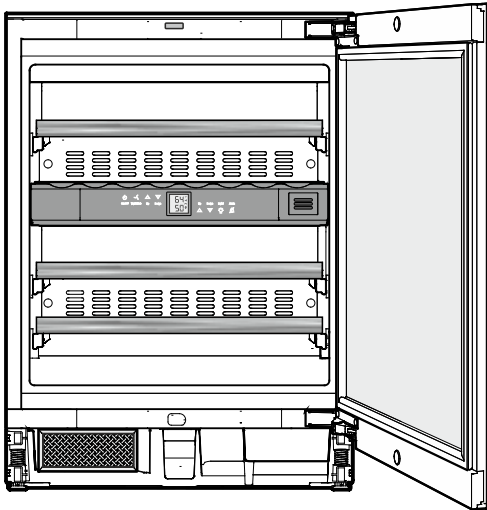
Wine Cabinets WU 3400, WUgb 3400, WU 4500



WU 3400

Energy Supply: 115V / 60Hz / 2A
Climate Rating: SN-ST
Door hinges: right/reversible
Door: glass door with stainless steel frame

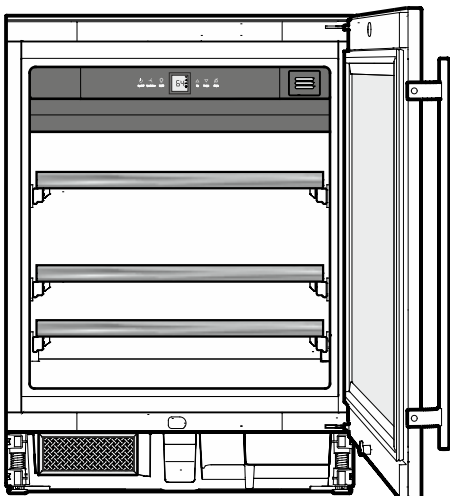
- Touch electronic control system
- Telescopic wine shelves
- Activated charcoal filter
- LED-light



WUgb 3400

Energy Supply: 115V / 60Hz / 2A
Climate Rating: SN-ST
Door hinges: right/reversible
Door: glass door

- Touch electronic control system
- Telescopic wine shelves
- Activated charcoal filter
- LED-light
- Tip open door mechanism



WU 4500

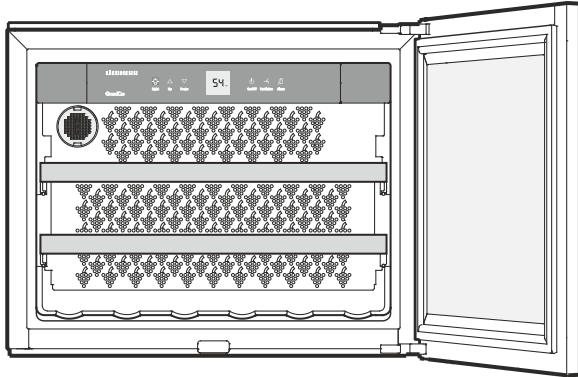
Energy Supply: 115V / 60Hz / 1.5A
Climate Rating: SN-ST
Door hinges: right/reversible
Door: glass door with stainless steel frame

- Touch electronic control system
- Telescopic wine shelves
- Activated charcoal filter
- LED-light

Wine and Undercounter

Specifications

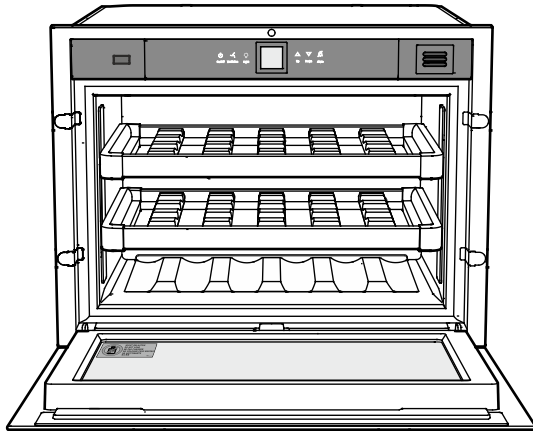
Wine Cabinets HWS 1800, HWgb 1803, HWgw 1803



HWS 1800

Energy Supply: 115V / 60Hz / 1A
Climate Rating: SN
Door hinges: right/reversible
Door: glass door with stainless steel frame

- Touch electronic control system
- Telescopic wine shelves
- Activated charcoal filter
- LED-light

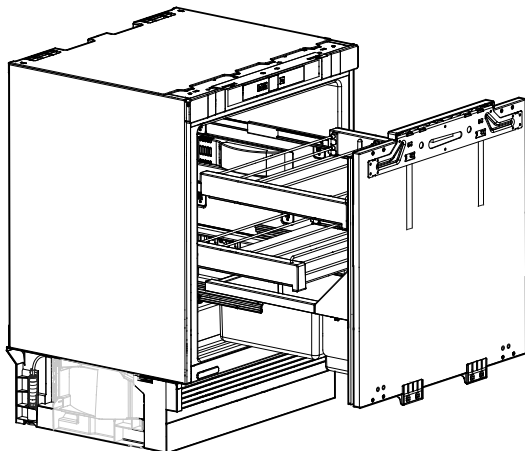


HWgb 1803 (black glass front)

HWgw 1803 (white glass front)

Energy Supply: 115V / 60Hz / 1A
Climate Rating: SN-ST
Door: Drop down glass door

- Touch electronic control system
- Telescopic wine shelves
- Activated charcoal filter
- LED-light
- Tip open door mechanism



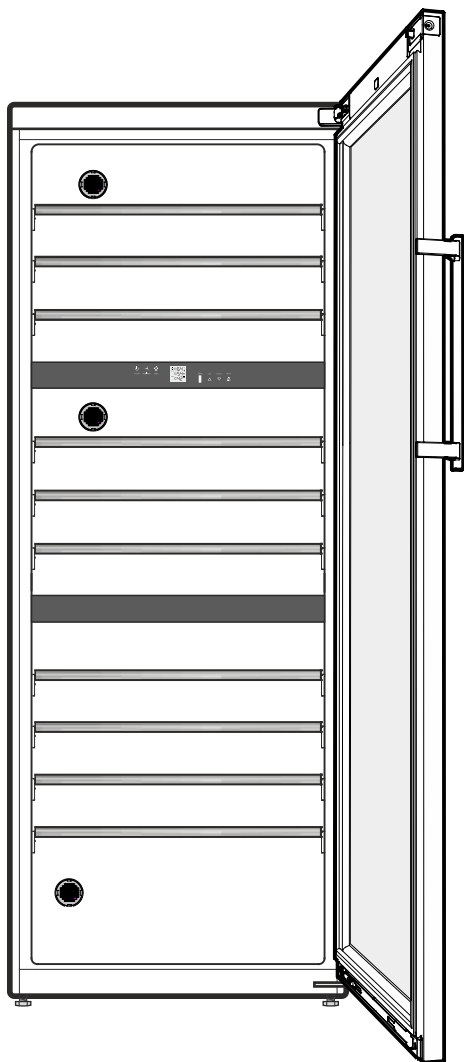
UPR 503

Energy Supply: 115V / 60Hz / 2.3A
Climate Rating: SN-T
Total capacity: 4.16 cu ft (118l)

- Pull-out compartment
- Pull-out glass shelf board
- LED-light
- Height-adjustable feet
- Storage space under bottom drawer
- Fully concealed behind a cabinet door

Specifications

Wine Cabinet WS 17800



WS 17800

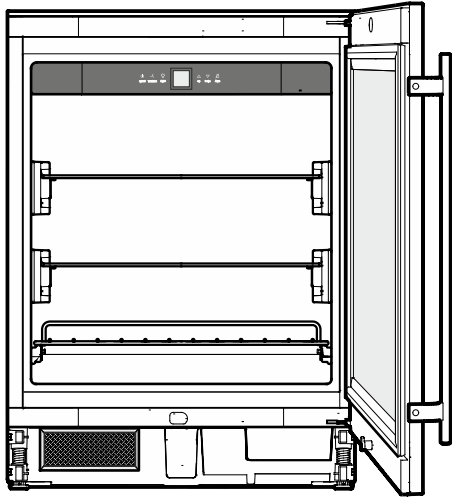
Energy Supply: 115V / 60Hz / 2A
Climate Rating: SN-ST
Door hinges: right/reversible
Door: glass door with stainless steel frame

- Touch electronic control system
- Telescopic wine shelves
- Activated charcoal filter
- LED-light

Specifications

Undercounter Beverage Center RU 510

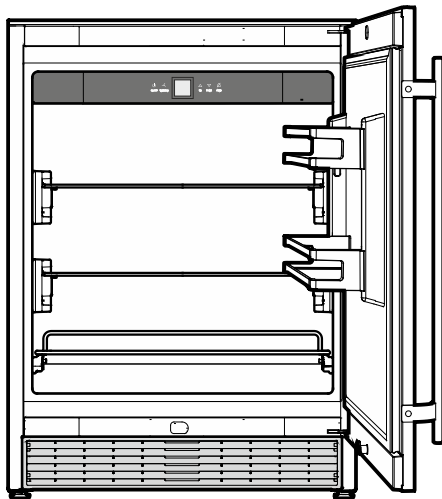
Outdoor Refrigerator RO 510



RU 510

Energy Supply: 115V / 60Hz / 1.5A
Climate Rating: SN-ST
Door hinges: right/reversible
Door: glass door with stainless steel frame

- Touch electronic control system
- Telescopic bottom shelf
- Activated charcoal filter
- LED-light
- Glass shelves with stainless steel trim



RO 510

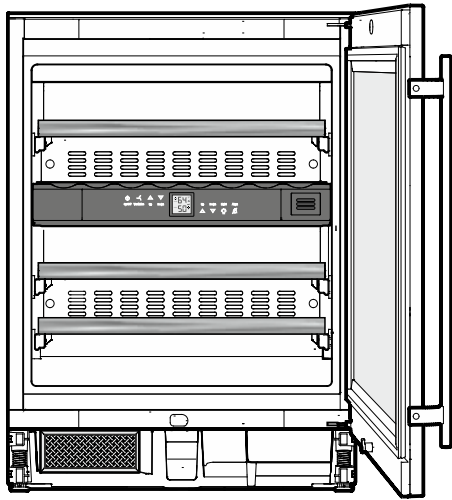
Energy Supply: 115V / 60Hz / 1.5A
Climate Rating: SN-T
Door hinges: right/reversible
Door: stainless steel

- Touch electronic control system
- Telescopic bottom shelf
- Top door rack adjustable
- LED-light
- Glass shelves with stainless steel trim

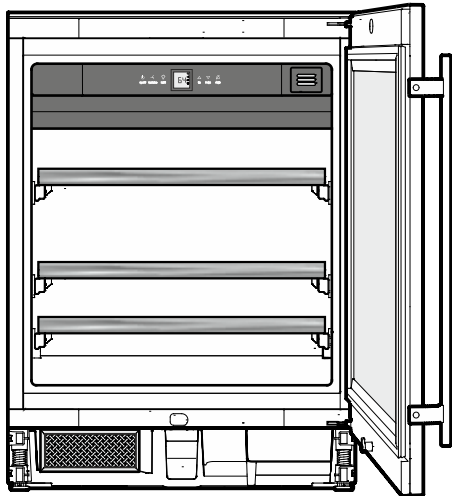
Wine and Undercounter

Undercounter Wine Cabinet WU 3400 / WU 4500

WU 3400



WU 4500



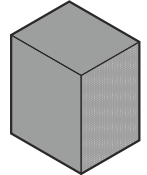
IMPORTANT

To ensure proper refrigeration performance of the appliance, the ventilation grille supplied must be installed.

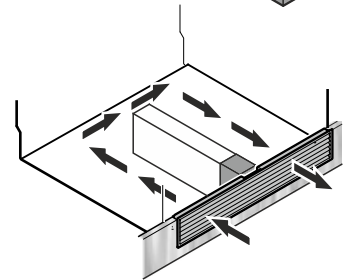
The ventilation grille must be installed into the toe kick panel.



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



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



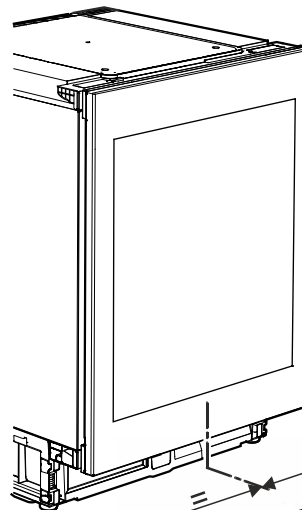
R600a Refrigerant



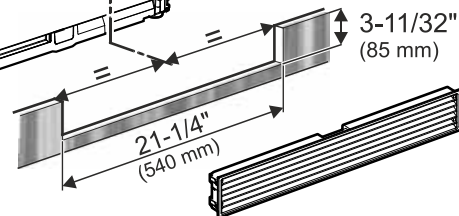
WARNING!

The refrigerant R600a contained within the appliances is environmentally friendly, but flammable. Leaking refrigerant can ignite.

To prevent possible ignition, designed ventilation is required.



Cut-out section in the toe kick panel

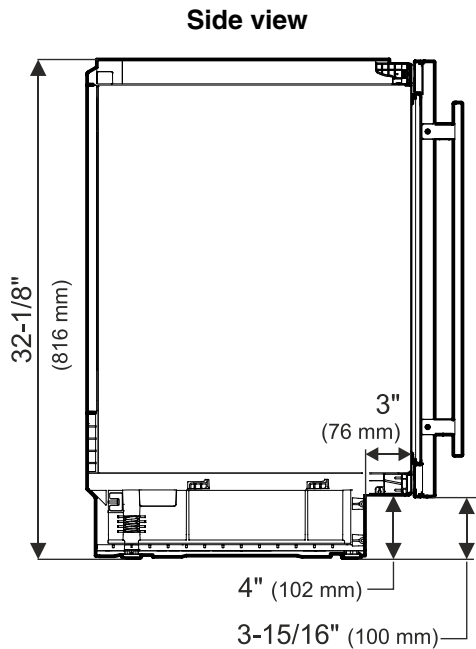


IMPORTANT

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

Wine and Undercounter

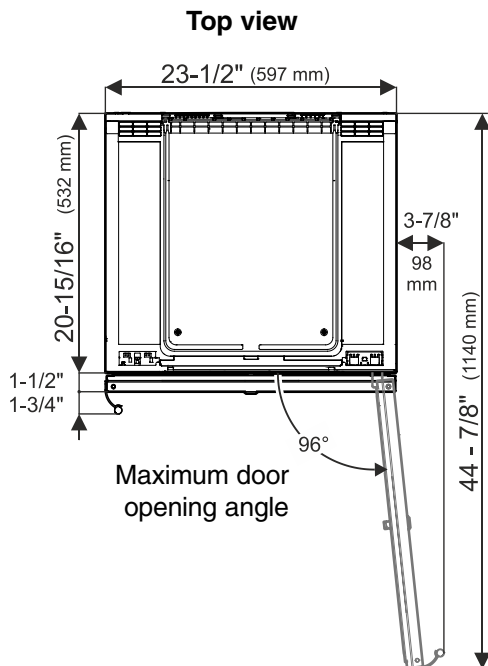
Appliance and Cabinet Dimensions



Height when adjustable feet have been screwed in as far as they will go.

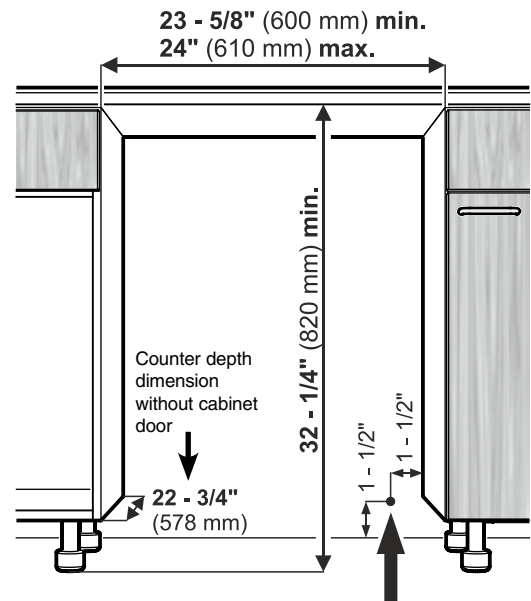
Delivery status = feet approx. 1/8" unscrewed.

Maximum height adjustment = 2" (51 mm)
to allow for a 6" (153 mm) toe kick.



IMPORTANT

The floor on which the appliance stands must be horizontal and level. The kitchen units must be aligned horizontally and vertically.

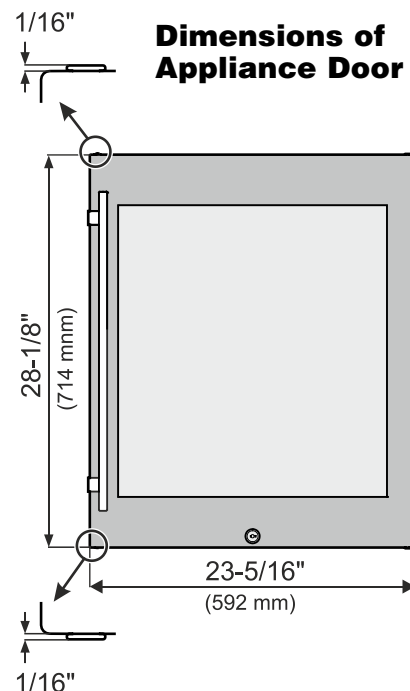


The power cord exits the rear of the appliance at this location.

Free length of the power cord = 78 - 3/4 inch (2000 mm)

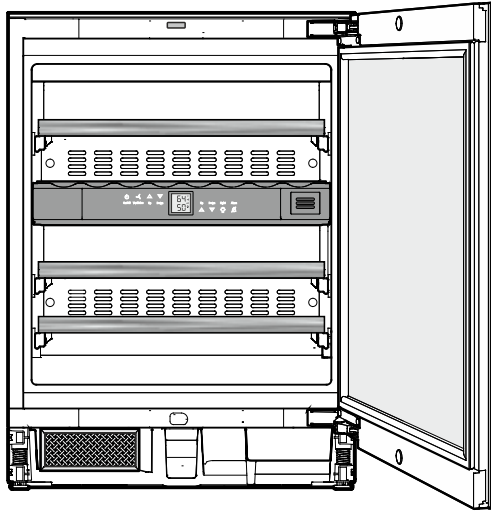
IMPORTANT

The electrical outlet must not be situated behind the appliance and must be easily accessible.



Wine and Undercounter

Undercounter Wine Cabinet WUgb 3400



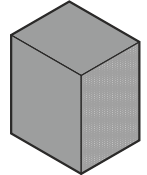
IMPORTANT

To ensure proper refrigeration performance of the appliance, the ventilation grille supplied must be installed.

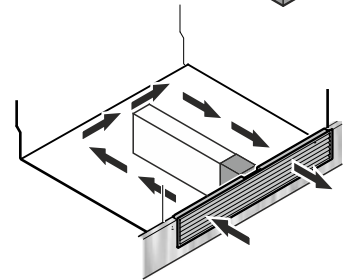
The ventilation grille must be installed into the toe kick panel.



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



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



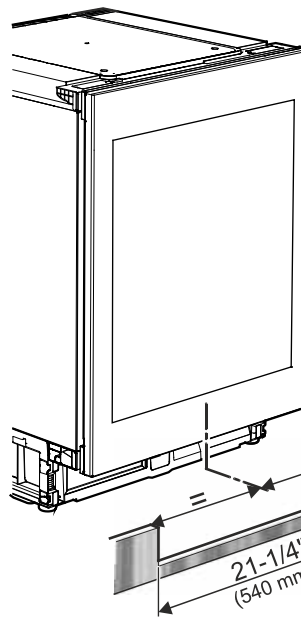
R600a Refrigerant



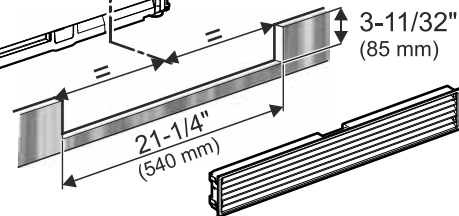
WARNING!

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To prevent possible ignition, designed ventilation is required.



Cut-out section in the toe kick panel

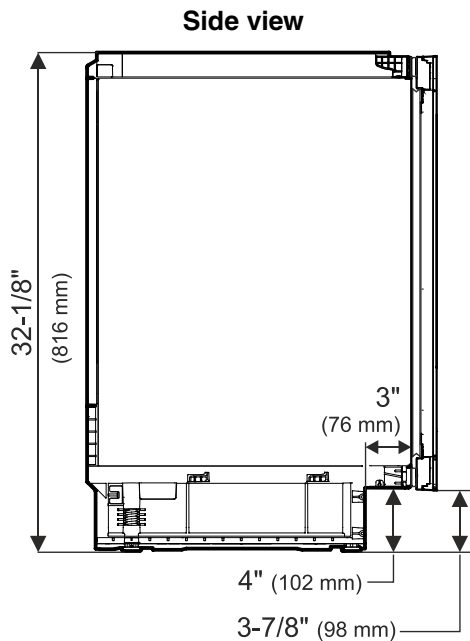


IMPORTANT

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

Wine and Undercounter

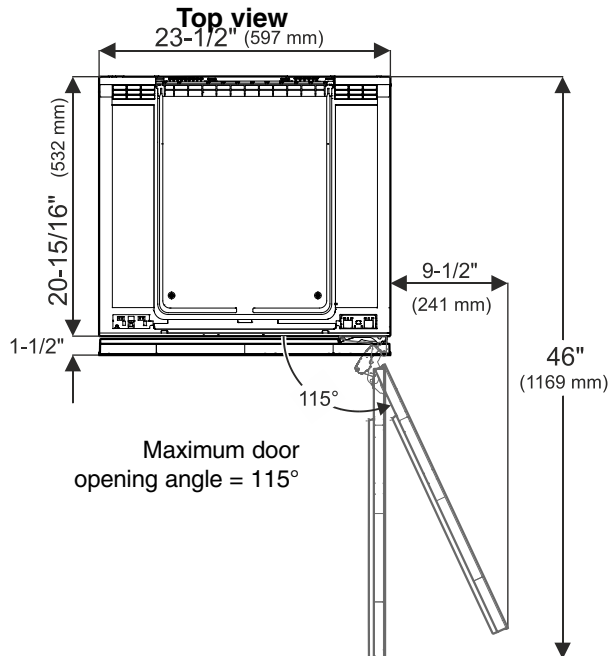
Appliance and Cabinet Dimensions



Height when adjustable feet have been screwed in as far as they will go.

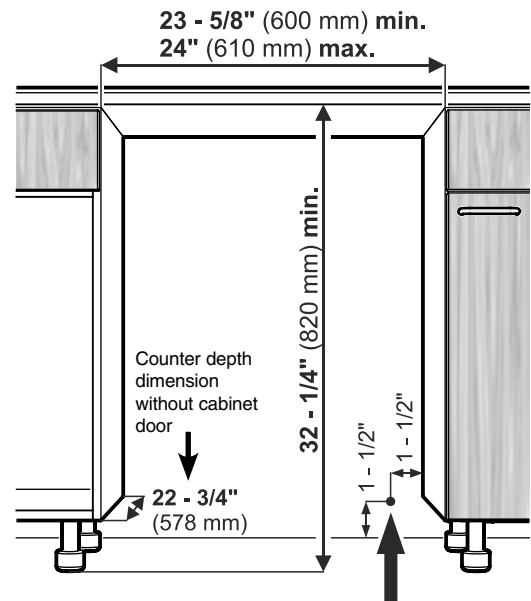
Delivery status = feet approx. 1/8" unscrewed.

Maximum height adjustment = 2" (51 mm)
to allow for a 6" (153 mm) toe kick.



IMPORTANT

The appliance stands must be horizontal and level. The kitchen appliances must be aligned horizontally and vertically.



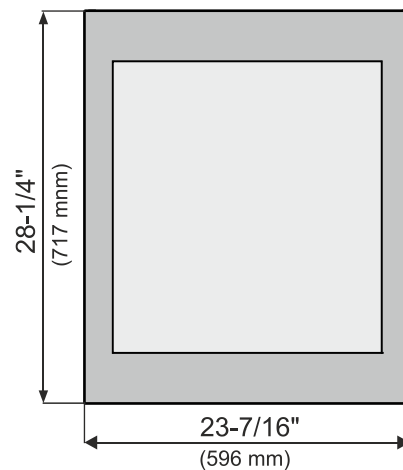
The power cord exits the rear of the appliance at this location.

Free length of the power cord = 78 - 3/4 inch (2000 mm)

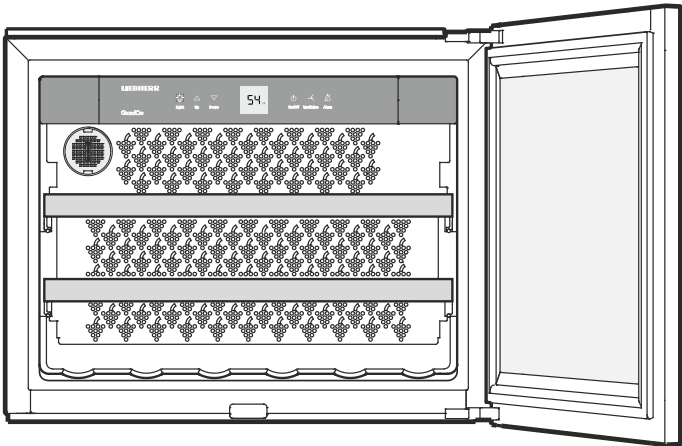
IMPORTANT

The electrical outlet must not be situated behind the appliance and must be easily accessible.

Dimensions of Appliance Door

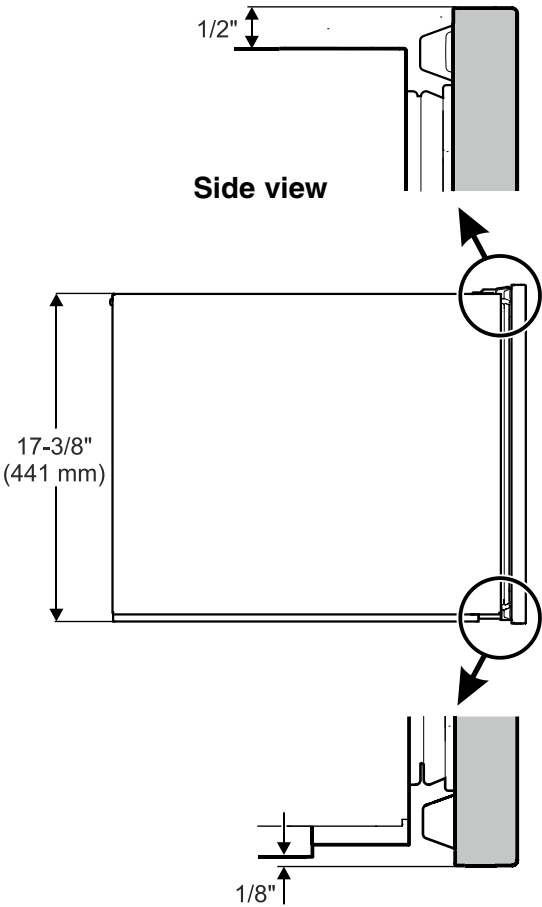


Built in Wine Cabinet HWS 1800

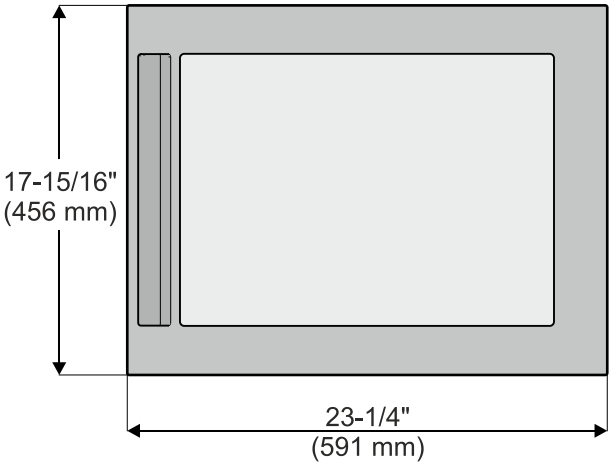


For installation in a 30" recess the Trim Kit is required.
See chapter "Accessories".

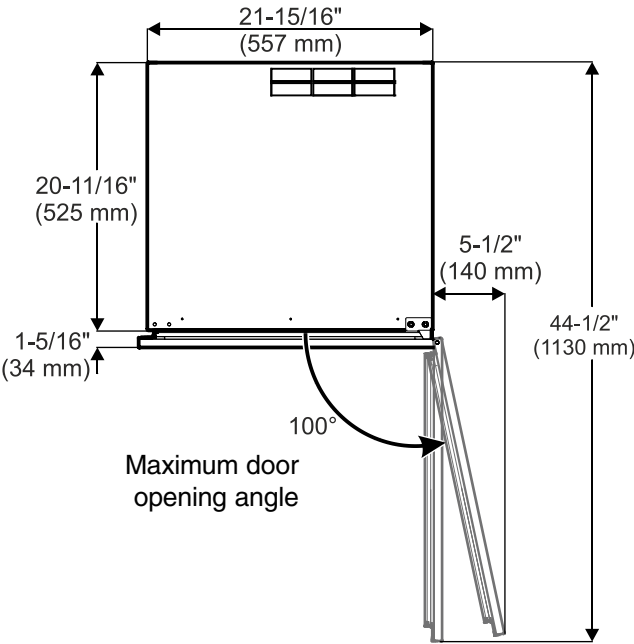
Appliance Dimensions



Dimensions of Appliance Door

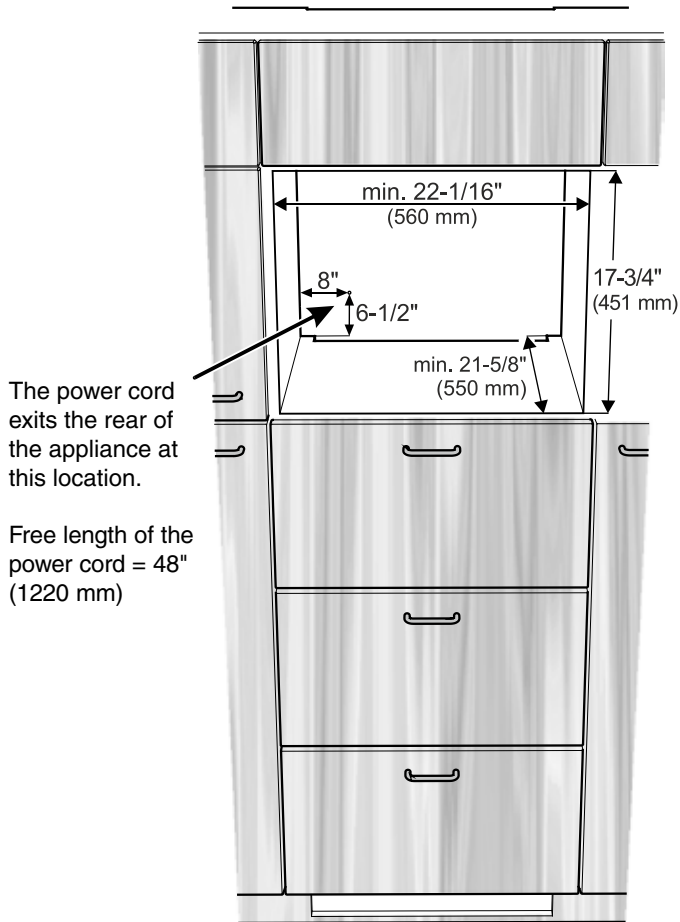


Top view



Wine and Undercounter

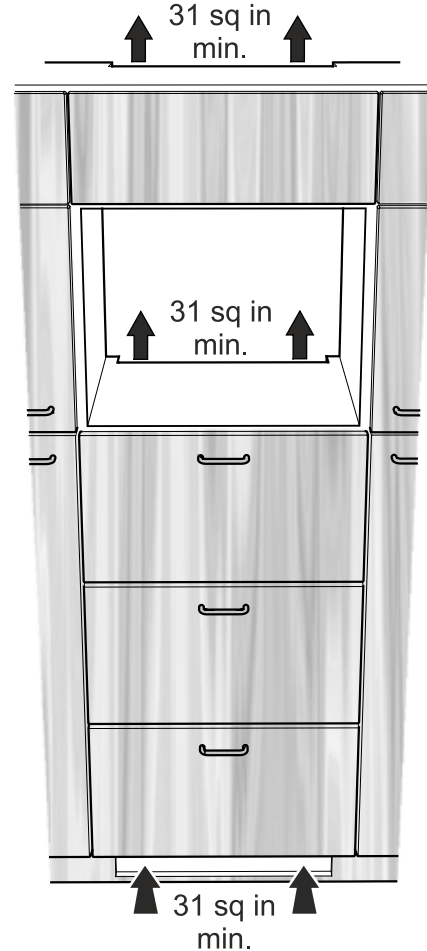
Cabinet Dimensions



IMPORTANT

The electrical outlet must not be situated behind the appliance and must be easily accessible.

Appliance Venting



IMPORTANT

The clear ventilation cross section must be at least 31 sq inches from the lower to the top opening.

Cabinet Dimensions - Flush Face Installation

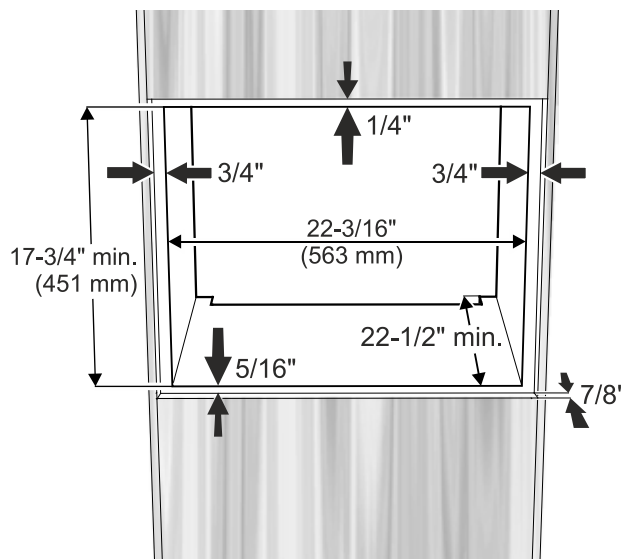
Cabinet dimensions for installations into a cabinet wall.

Front of appliance door is flush with the cabinet front surface.

Front opening results in a 3/16" gap between appliance door and outer recess.

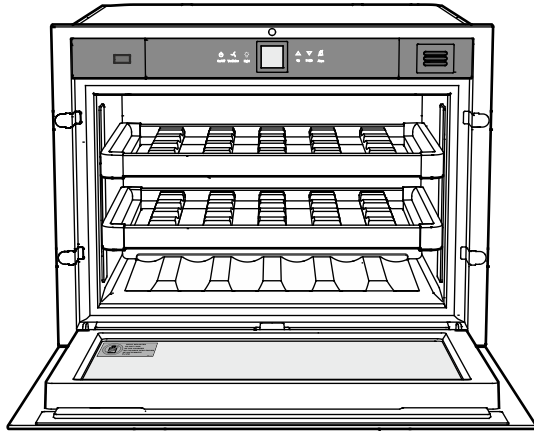
IMPORTANT

The appliance must be centered in the recess to avoid collision of the right door edge with the cabinet when the door is opened.



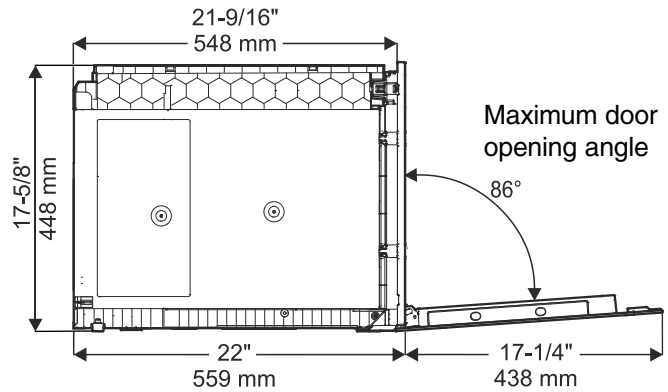
Wine and Undercounter

Built in Wine Cabinet HWgb 1803, HWgw 1803



Appliance Dimensions

Side view



R600a Refrigerant

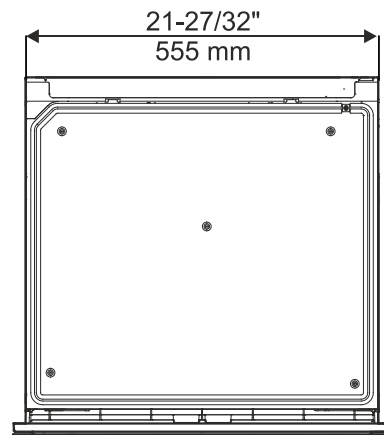


WARNING!

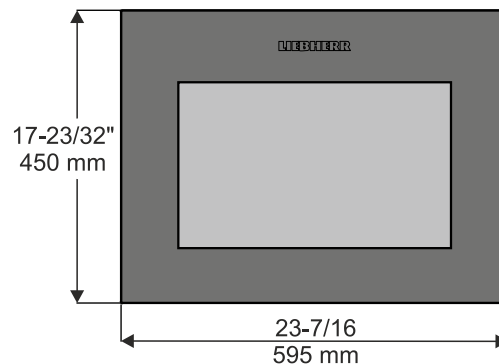
The refrigerant R600a contained within the appliance is environmentally friendly, but flammable. Leaking refrigerant can ignite.

To prevent possible ignition, designed ventilation is required.

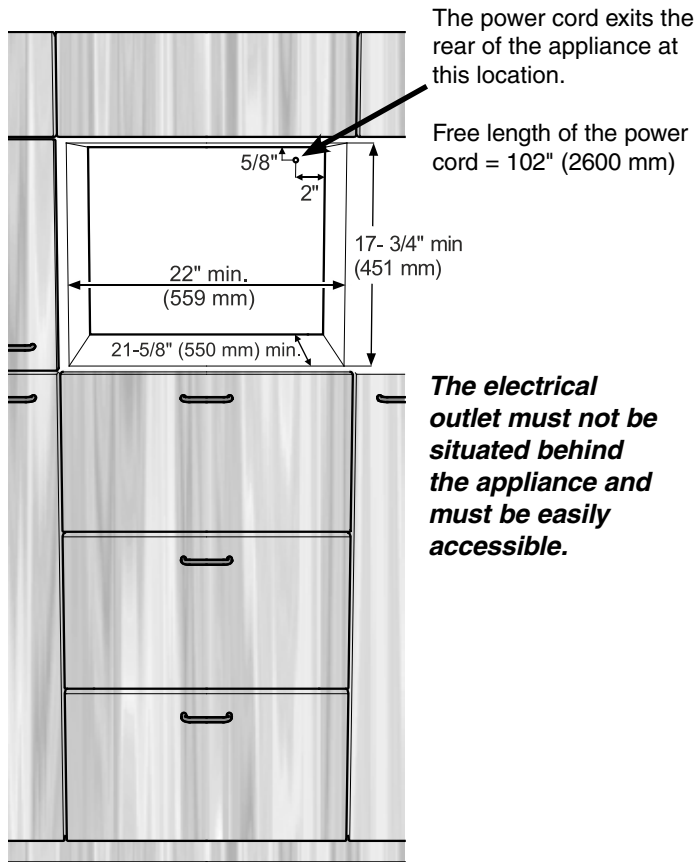
Top view



Dimensions of Appliance Door



Cabinet Dimensions



Appliance Venting

Important

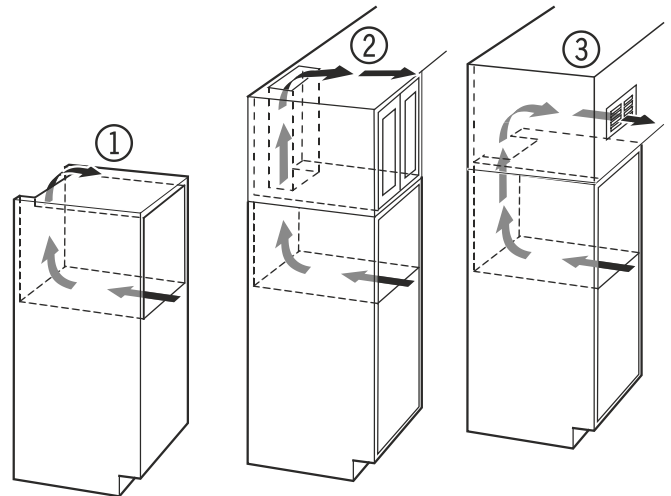
The area of ventilation above the unit should be at least 31 square inches (200 cm²).

The air supply passes below the appliance door.



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

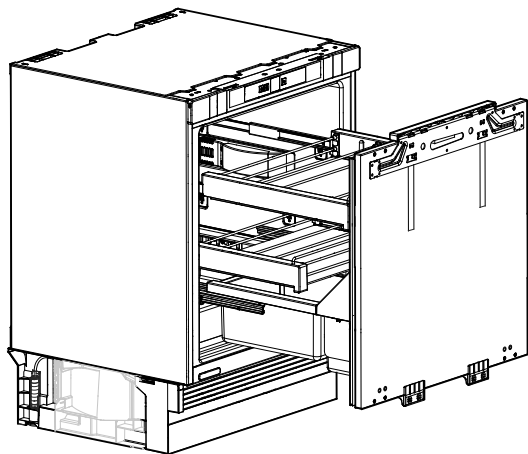


IMPORTANT

When using decor grills, the sum of the individual openings must total a minimum of 31 square inches.

A cut-out section of 31 square inches (200 cm²) for installing the ventilation grille is thus not sufficient.

Fully integrated Undercounter UPR 503



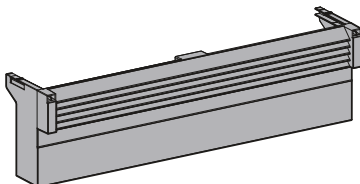
Ventilation Requirements

This is a fully integrated undercounter model which means that it is fully enclosed by a kitchen cabinet. This type of cabinet must be carefully constructed using the correct dimensions and it must provide suitable ventilation to ensure proper appliance operation.

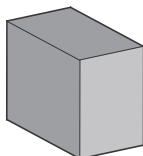
IMPORTANT

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

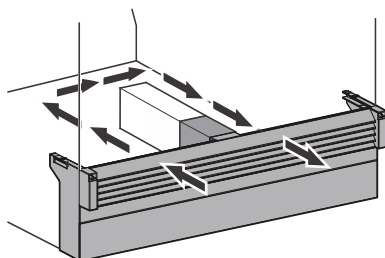
The ventilation grille must be installed onto the appliance.



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



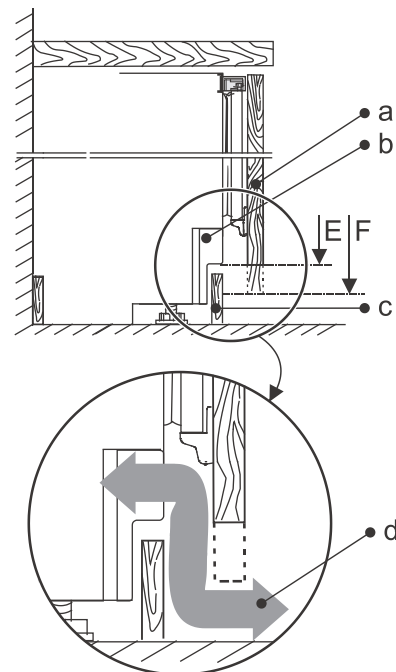
Failure to follow this instruction may result in poor refrigeration performance.



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.

Important

A minimum opening of 1-3/8" (35 mm) must be maintained to allow proper air flow for ventilation.



- a:** kitchen cabinet door
- b:** appliance ventilation grille
- c:** toe kick panel

d: Air flow

The kitchen cabinet door, the appliance ventilation grille and the toe kick panel must maintain a minimum opening of 1-3/8 " (35 mm) to allow proper air flow for ventilation.

Case E:

The ventilation openings in the ventilation grille are freely visible or are scarcely covered by the unit door.

- Ventilation is sufficient
- The ventilation grille can be pulled forward as far as possible so that the front edge of the ventilation grille and the toe kick panel lie flush.

Case F:

The kitchen cabinet door covers the ventilation openings of the appliance ventilation grille b and part of the toe kick panel.

- To guarantee sufficient ventilation, there must be a ventilation gap of 1-3/8 " (35 mm) behind the unit door.
- Push the ventilation grille fully back.

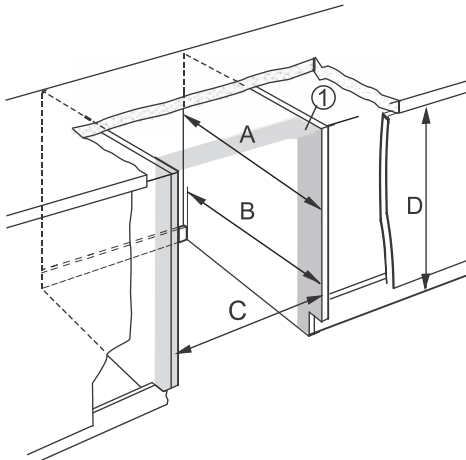
Wine and Undercounter

Appliance and Cabinet Dimensions

IMPORTANT

The floor on which the appliance stands must be horizontal and level. The kitchen units must be aligned horizontally and vertically.

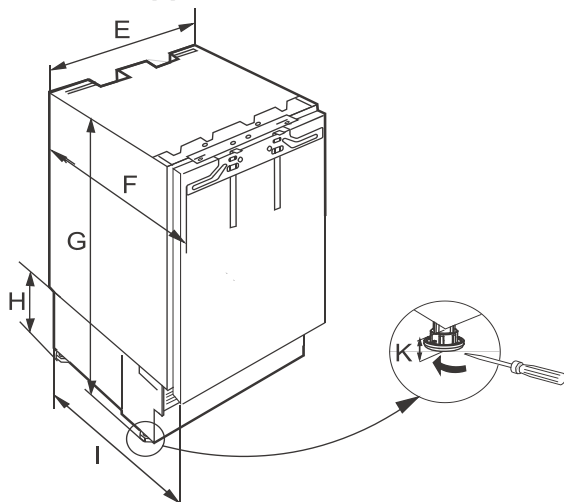
Cabinet Dimensions



- A min. 21-5/8 " (min. 550 mm)
- B 21-1/4 " (540 mm)
- C 23-5/8 " - 24 " (600 mm - 610 mm)
- D 32-1/4 " - 34-5/8 " (820 mm - 880 mm)

- ① 3" (approx. 76 mm) of the cabinet needs to be finished as it can be seen when the door is open.

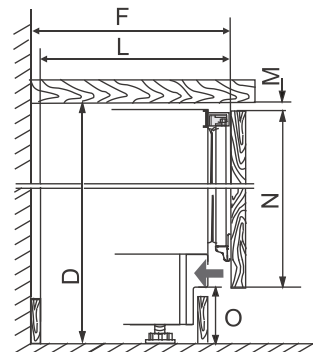
Appliance Dimensions



- E 23-1/2 " (597 mm)
- F closed: 21-5/8 " (550 mm)
max. opened: 39-3/4 " (1010 mm)
- G adjustable feet screwed in: 32-1/4 " (819,5 mm)
adjustable feet screwed out max: 34-1/4 " (869,5 mm)
- H 6-5/8 " - 8-9/16 " (168 mm - 218 mm)
- I 21-1/4 " (540 mm)
- K max. height adjustment: 2 " (max. 50 mm)

Cabinet Dimensions with integrated Appliance

- Sideview -

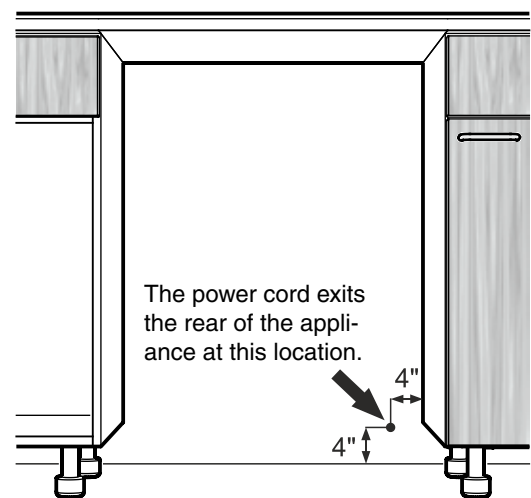


- D 32-1/4 " - 34-5/8 " (820 mm - 880 mm)
- F closed: 21-5/8 " (550 mm)
max. opened: 39-3/4 " (1010 mm)
- L 21-1/4 " (540 mm)
- M 1/8 " (4 mm)
- N 25-7/16 " - 30-5/16 " (646 mm - 770 mm)
- O max. 4 " - 6 " (max. 102 mm - 152 mm)

Side by Side UPR 503

For side by side applications a minimum distance of 2" (50) is required between the appliances to avoid condensation on the side walls.

Location Of The Electrical Outlet



Free length of the power cord = 71" (~1800 mm)

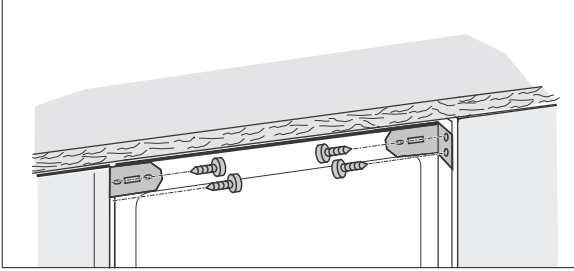
IMPORTANT

The electrical outlet must not be situated behind the appliance and must be easily accessible.

Fastening Method Appliance - Cabinet

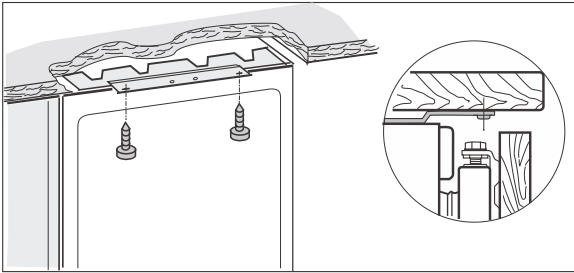
Side fastening:

- Installation below hard worktops such as granite.
- With the adjusting feet completely screwed out, the appliance is lower than the counter top.



Top fastening:

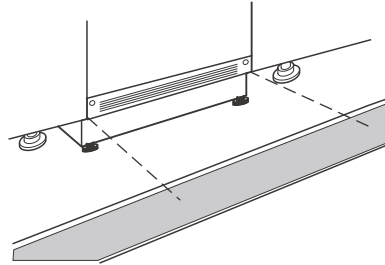
- When the adjusting feet are screwed out completely, the appliance sits slightly tensioned below the worktop.
- No granite top.



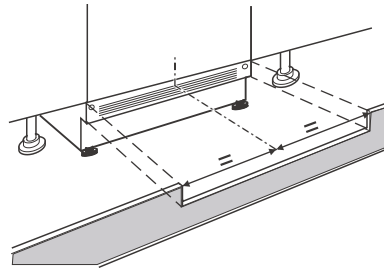
Toe Kick Panel

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

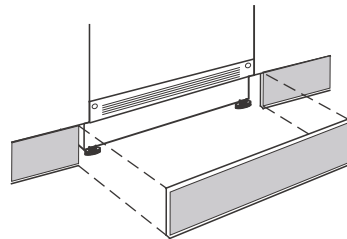
Toe kick can be placed along the front of a row of cabinets including the appliance if the toe kick does not cover the ventilation openings and maintains the 1-3/8" air flow gap shown on the previous page.



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



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



Wine and Undercounter

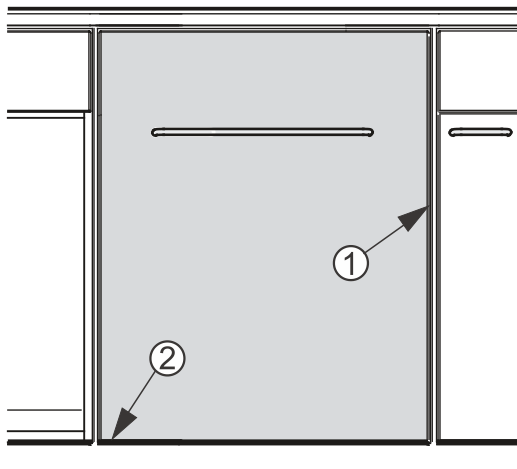
Kitchen Cabinet Doors

Designing the Kitchen Cabinet Door

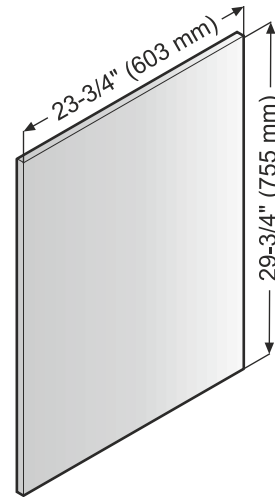
You will need one door for the kitchen cabinet. In general, the door has these characteristics:

- The width of the cabinet door depends on the kitchen style and the size of the gaps between the door panels of the cabinetry. Generally, a 1/8 in. (3 mm) vertical and horizontal gap between the door panels is recommended (1).
- The door should be at least 5/8 in. (16 mm) thick to allow the connecting rails to be fastened to it. The maximum thickness of the door panel can be 3/4 in. (19mm).
- The top edge of the door, if any, and the bottom edge of the door should be even with the doors of adjoining cabinet(s) (2).
- Adjust the door alignment before installing the appliance. It is impossible to adjust the cabinet door with the appliance installed.
- Check the installation dimensions according to Section "Unit Dimensions".
- Do not load the door of the refrigerator with more than 44,09 lbs (20 kg) of food.
- Before assembling the unit door, make sure that the permitted weight for the unit door is not exceeded. If permitted weight is exceeded damage to hinges may occur.

Maximum weight of unit door 22 lbs (10 kg)



Kitchen Cabinet Door Panel for standard Toe Kick



Note

These panel dimensions are for inset flush installation in a standard cabinet opening of 24" (610 mm) wide with a cabinet that is 30" (762 mm) tall plus a 4" (102 mm) or 4 1/2" (115 mm) toe kick.

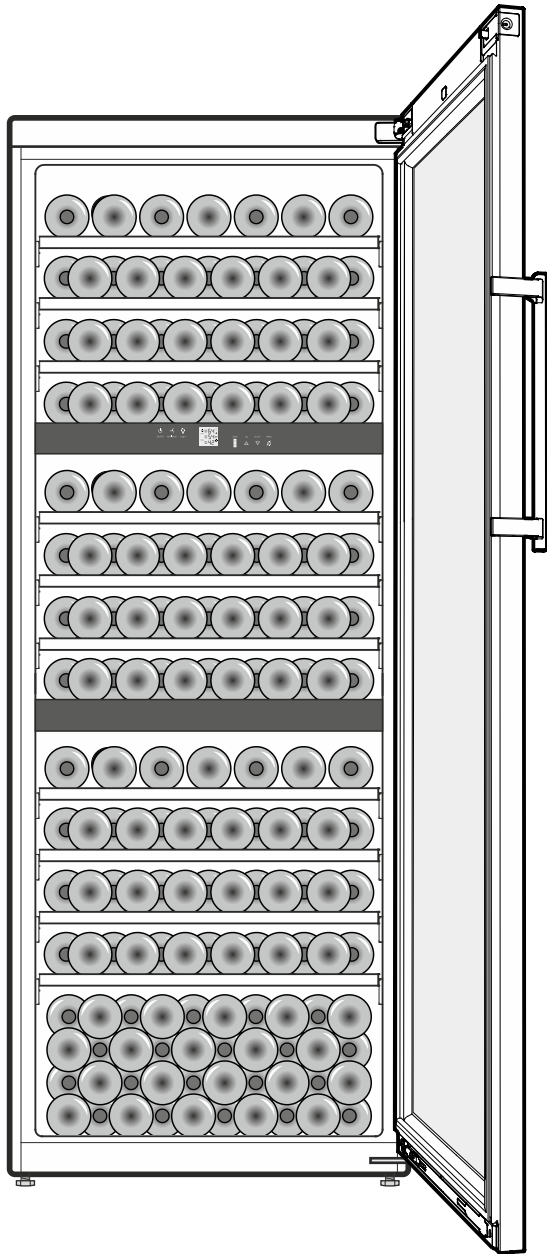
If the cabinet opening is different you will need to modify the door panel accordingly.

Wine and Undercounter

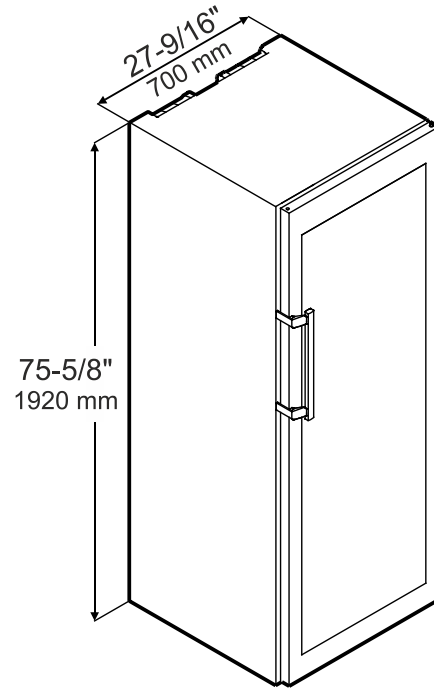
Freestanding Wine Cabinet WS 17800

Wine cooler with three temperature zones.

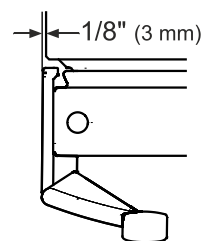
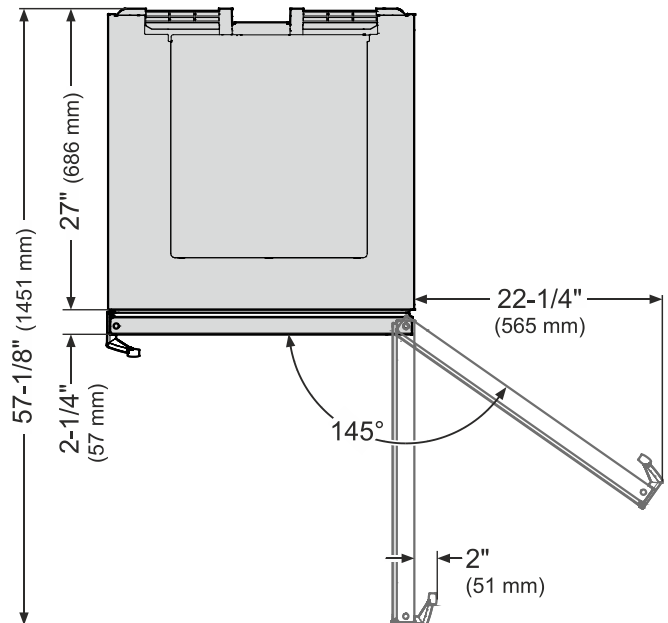
Every temperature zone can be adjusted separately and independent from the other zones.



Appliance Dimensions



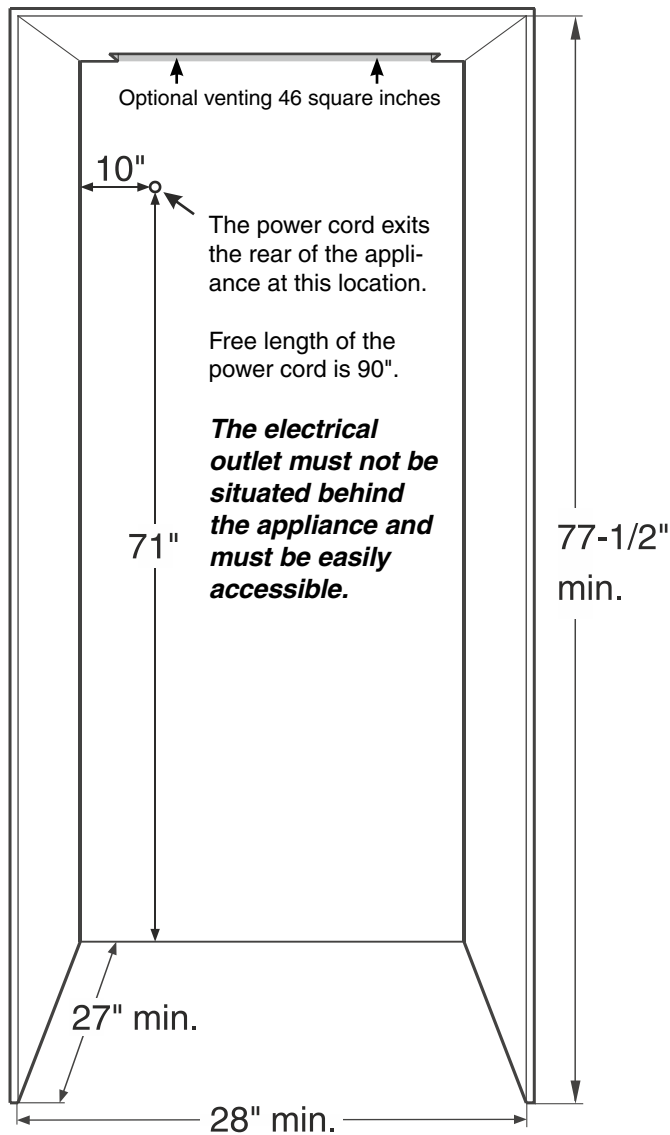
Appliance Dimensions Top view



The handle protrudes approx. 1/8" to the left side wall of the appliance.

Wine and Undercounter

Cabinet Opening Dimensions



The given cabinet opening height dimension includes 2" for ventilation.

If the appliance will be ventilated above the cabinet or in a soffit, the height dimension can be adjusted accordingly.

IMPORTANT

Minimum ventilation opening is 46 sq in !

With a cabinet depth of 27", the front of the appliance housing is flush with the cabinet frame. (see chapter "Appliance Dimensions Top View")

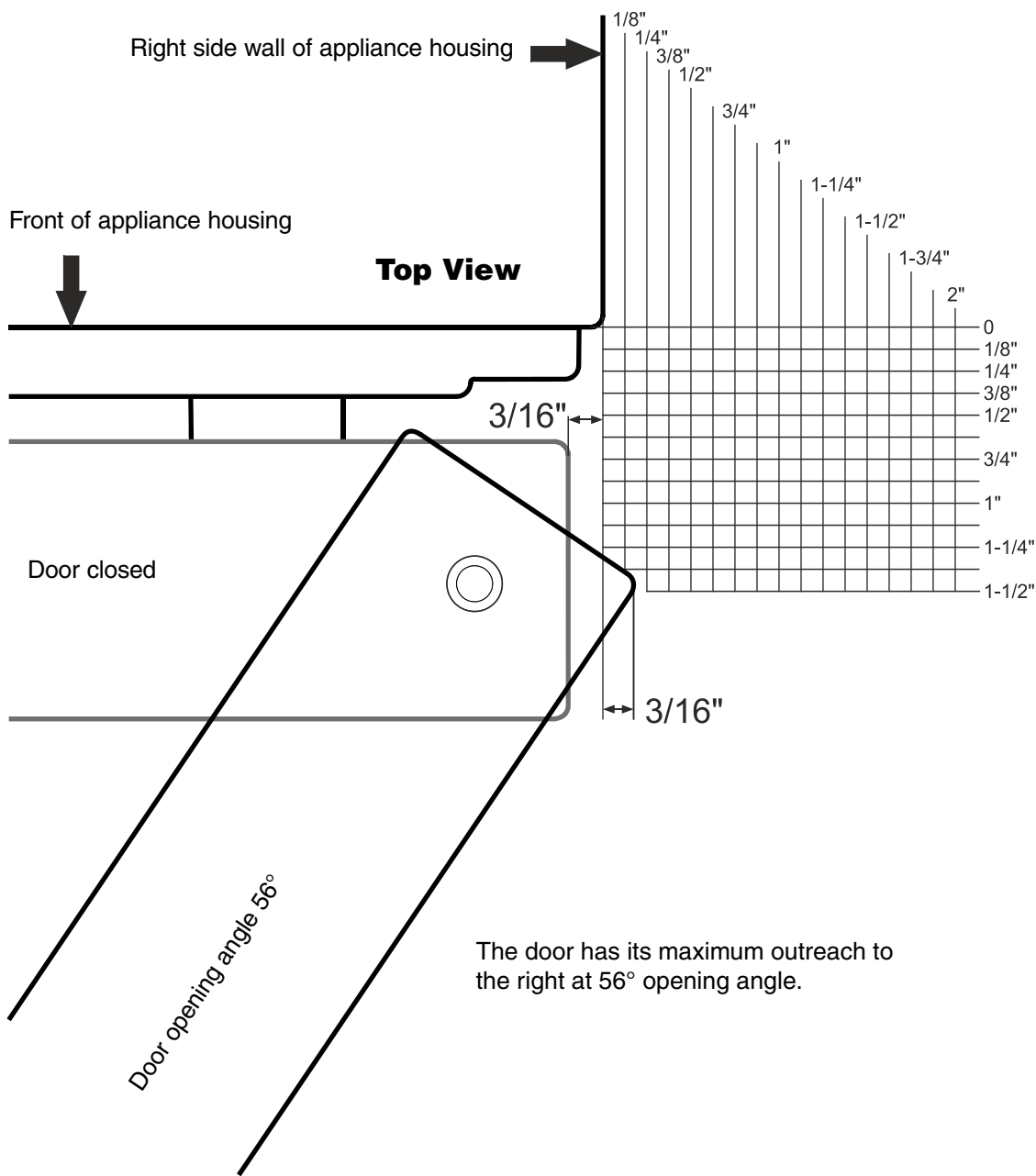
Side by Side WS 17800

To avoid condensation on the side walls at side by side applications a minimum distance of 2" between the appliances is required.

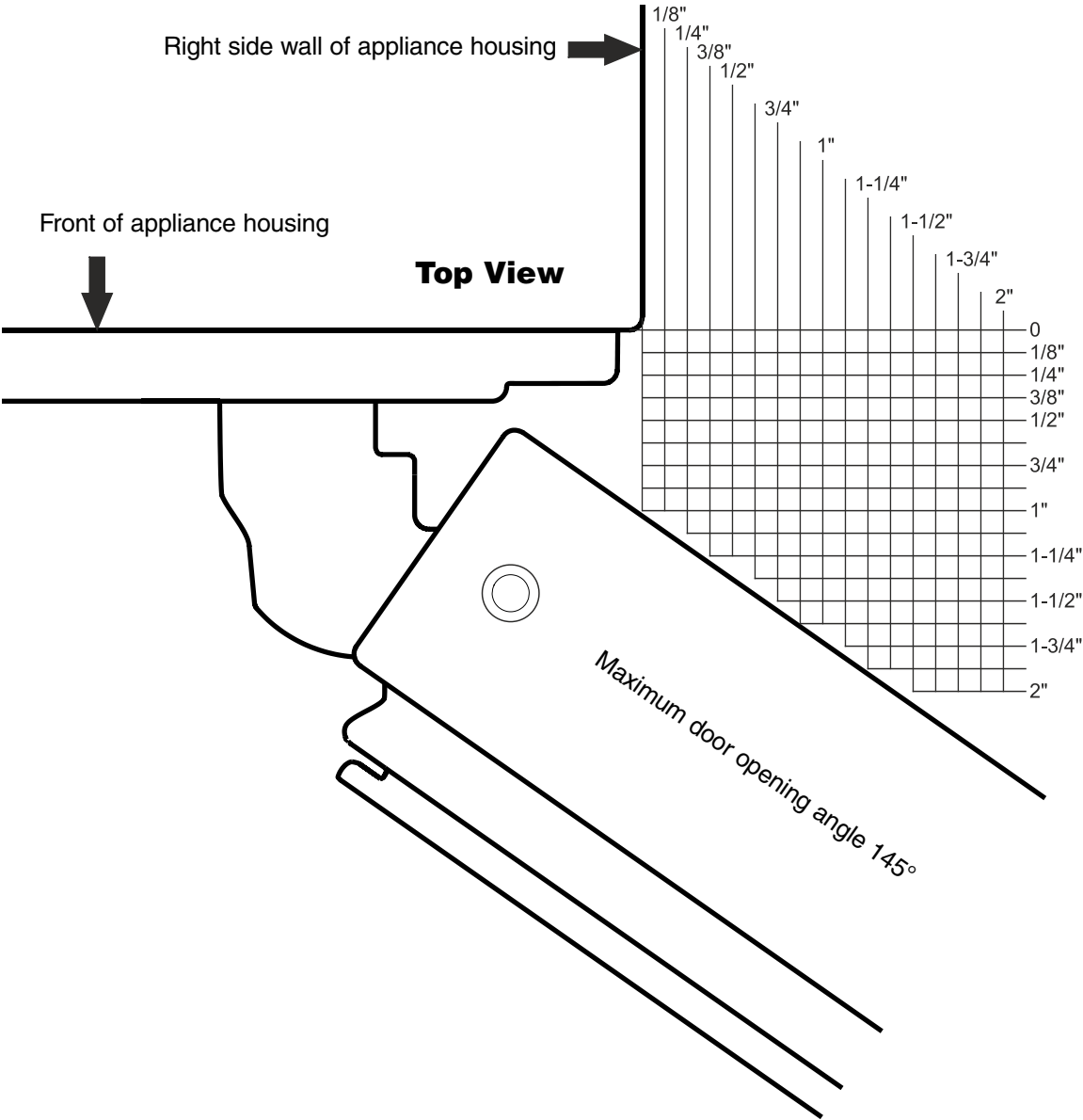


Wine and Undercounter

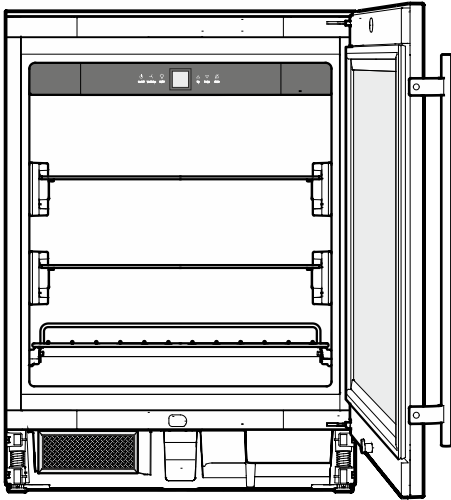
Door Swing Clearance WS 17800



Door Swing Clearance WS 17800



Undercounter Beverage Center RU 510



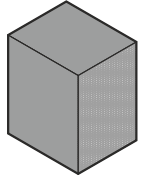
IMPORTANT

To ensure proper refrigeration performance of the appliance, the ventilation grille supplied must be installed.

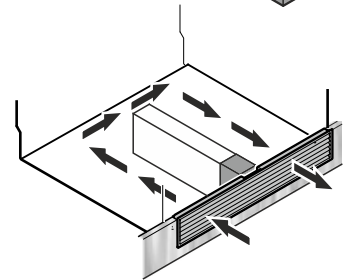
The ventilation grille must be installed into the toe kick panel.



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



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



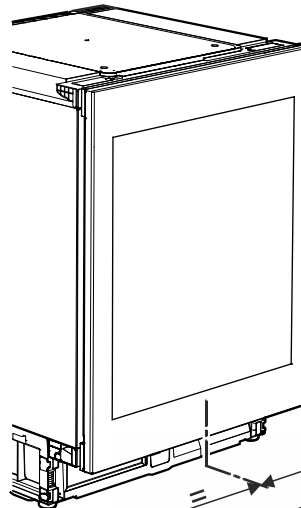
R600a Refrigerant



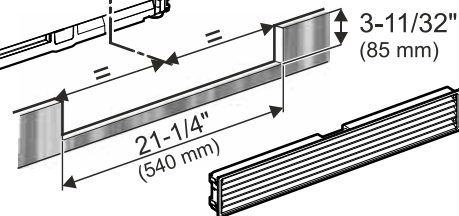
WARNING!

The refrigerant R600a contained within the appliances is environmentally friendly, but flammable. Leaking refrigerant can ignite.

To prevent possible ignition, designed ventilation is required.



Cut-out section in the toe kick panel

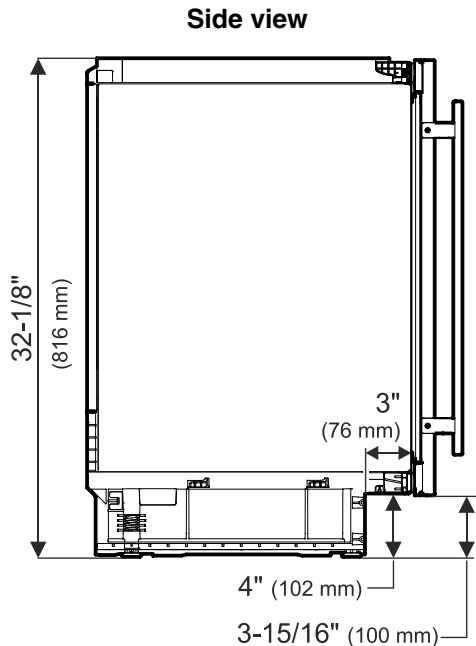


IMPORTANT

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

Wine and Undercounter

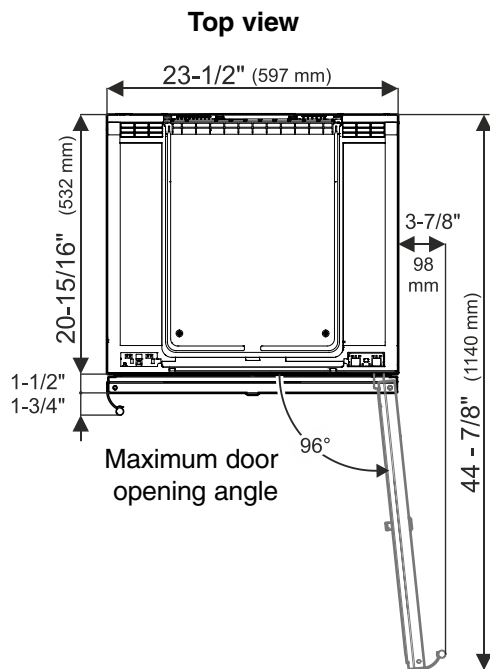
Appliance and Cabinet Dimensions



Height when adjustable feet have been screwed in as far as they will go.

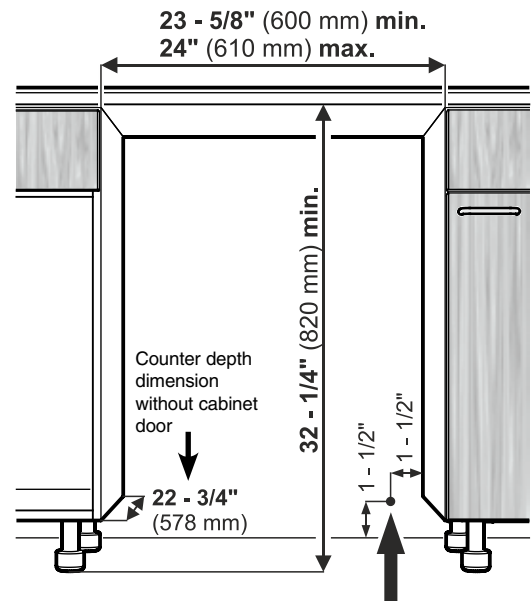
Delivery status = feet unscrewed approx. 1/8" .

Maximum height adjustment = 2" (51 mm)
to allow for a 6" (153 mm) toe kick.



IMPORTANT

The floor on which the appliance stands must be horizontal and level. The kitchen units must be aligned horizontally and vertically.

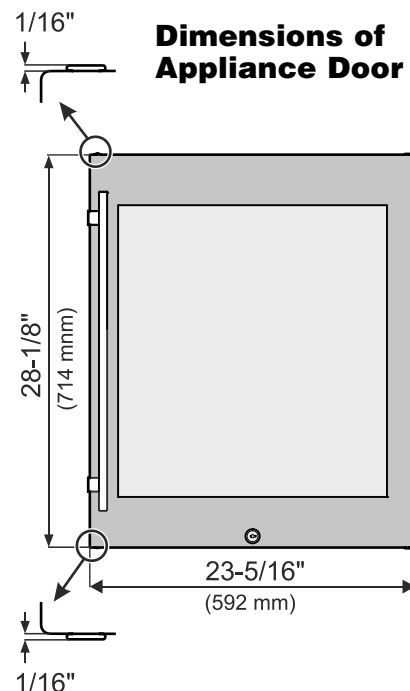


The power cord exits the rear of the appliance at this location.

Free length of the power cord = 78 - 3/4 inch (2000 mm)

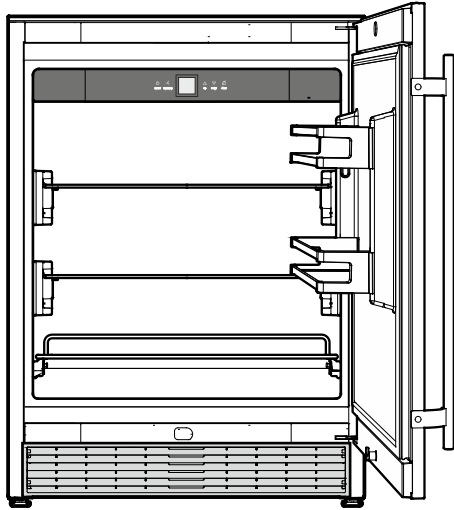
IMPORTANT

The electrical outlet must not be situated behind the appliance and must be easily accessible.

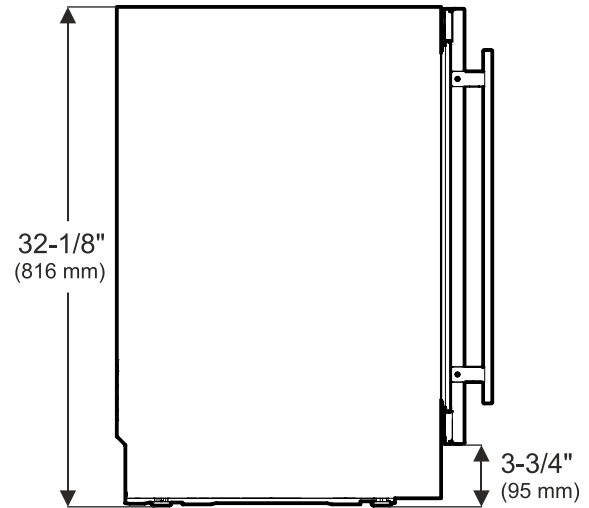


Outdoor Refrigerator RO 510

Appliance Dimensions



Side view



R600a Refrigerant



WARNING!

The refrigerant R600a contained within the appliances is environmentally friendly, but flammable. Leaking refrigerant can ignite.

To prevent possible ignition, designed ventilation is required.

It is recommended to install the appliance in a sheltered area, avoiding direct contact with extreme weather.

Avoid placing the appliance in direct sunlight or near the stove, range top, radiators and similar heat sources.

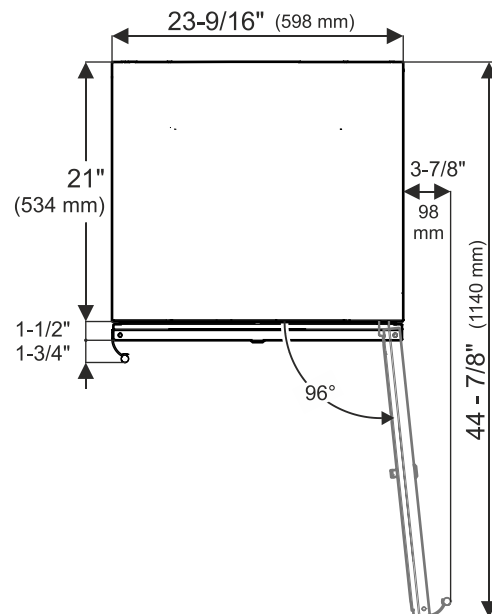
The appliance is designed for a freestanding setting up.

Height when adjustable feet have been screwed in as far as they will go.

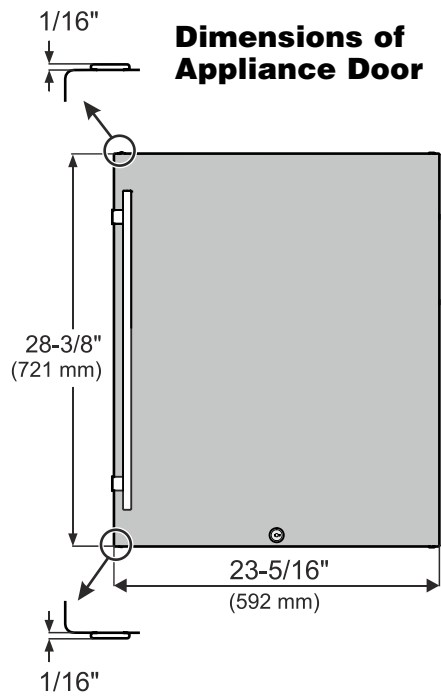
Delivery status = feet approx. 1/8" unscrewed.

Maximum height adjustment = 2" (51 mm)

Top view

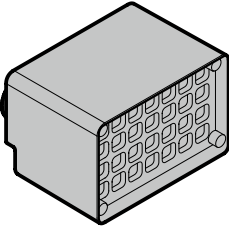
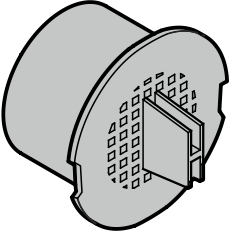
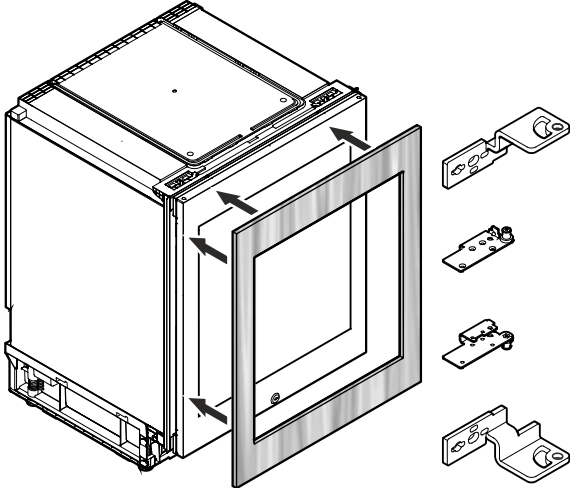
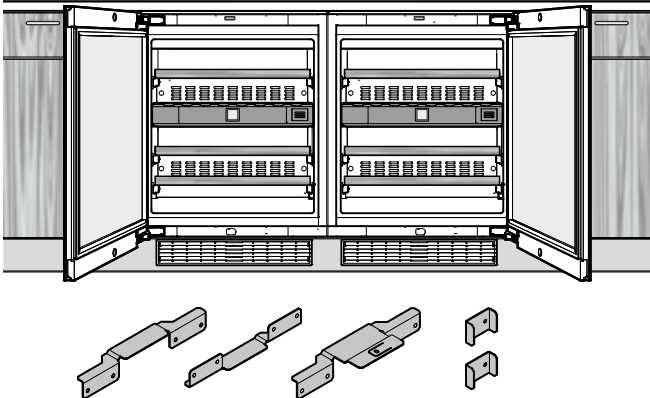


Wine and Undercounter

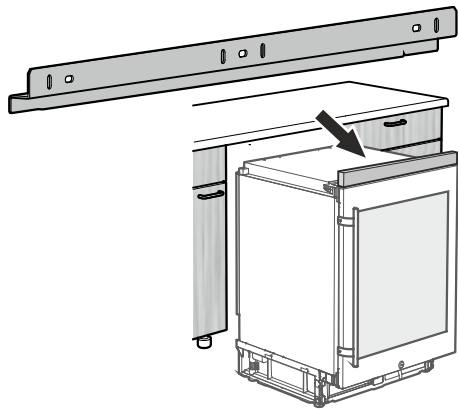
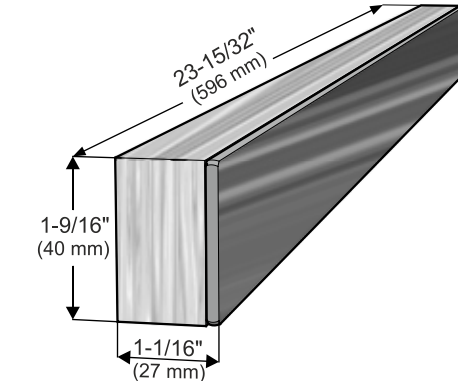
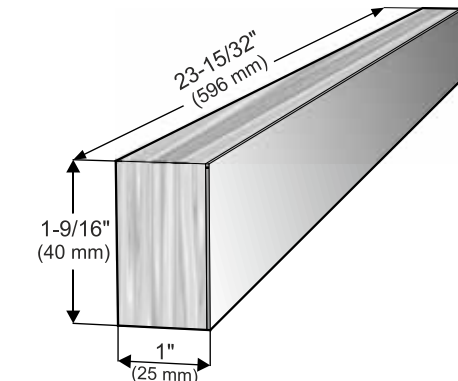
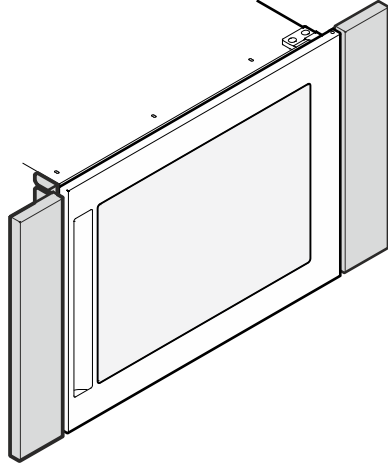


Wine and Undercounter

Accessories

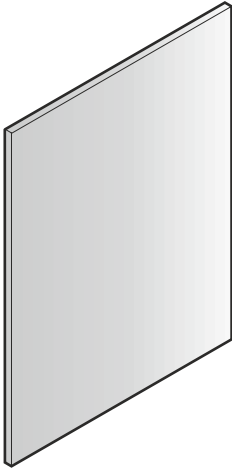
Image	Article number	Name of the item	For use with model
	7434 557-00	Charcoal Filter	WU 3400 WUgb 3400 WU 4500 HWgb 1803 HWgw 1803
	7440 999-00	Charcoal Filter	HWS 1800 WS 17800
	9590 131-00	Overlay Kit Includes hinges, brackets, screws and manual. Panel is not included.	WU 3400 WU 4500 RU 510
	9901 647-00	Side by Side Kit Includes angle brackets, screws and installation manual.	WU 3400 WUgb 3400 WU 4500 RU 510

Wine and Undercounter

Image	Article number	Name of the item	For use with model
	9901 651-00	Angle bracket for cover panel One is included with the appliance. The bracket can be mounted at top or bottom of the appliance.	WU 3400 WUgb 3400 WU 4500 RU 510
	9901 599-00	Trim Kit Cover panel with black glass front (for use with angle bracket 9901 651-00)	WUgb 3400
	9901 601-00	Trim Kit Cover panel with stainless steel front (for use with angle bracket 9901 651-00)	WU 3400 WU 4500 RU 510
	9900 073-00	Trim Kit for 30" wide recess	HWS 1800

Wine and Undercounter

Accessories

Image	Article number	Name of the item	For use with model
	7742 052-00	Stainless steel panel (no handle holes)	UPR 503

