

LIEBHERR

Design Guide

Freestanding / Semi Built In 24", 30", 36", 48", 60", 72"

Release 01 / 2023

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

39822 Belgrave Road
Belgrave, Ontario, N0G 1E0
Phone: (519) 357-3320
Fax: (519) 357-1326

Contents

Safety Warnings	5
Electrical Requirements & Safety	6
IceMaker (if equipped)	6
Area Requirements	7
Safety Regulations	7
Specifications 24" and 48" Models	8
CS 1210.....	8
CS 1360B.....	8
CS 1321	8
CBS 1360.....	9
SBS CS 1321 & CBS 1360	9
Specifications 30" and 60" Models	10
CS 1400R.....	10
CS 1400PC	10
CS 1401R-IM (left hinged)	
CS 1400R-IM (right hinged).....	10
CS 1410.....	10
CS 1640B.....	11
CBS 1661 (left hinged)	
CBS 1660 (right hinged)	11
SBS CBS 1661 & CBS 1660	11
Specifications 36" Models	12
CS 2091 (left hinged)	
CS 2090 (right hinged)	12
CS 2092	12
CBS 2092.....	12
Unit Dimensions CS 1210	13
Unit Dimensions CS 1360B / CS 1321 / CBS 1360.....	14
Unit Dimensions SBS CS 1321 & CBS 1360	15
Unit Dimensions CS 1400R / CS 1400PC / CS 1400R-IM / CS 1401R-IM	16
Unit Dimensions CS 1410	17
Unit Dimensions CS 1640B / CBS 1660 / CBS 1661	18
Unit Dimensions SBS CBS 1661 & CBS 1660	19
Unit Dimensions CS 2090, CS 2091	20
Unit Dimensions CS 2092, CBS 2092.....	21
Cabinet Opening Dimensions - 24" and 48" Models	22
48" Side by Side combination in a 84" Recess	23
Cabinet Opening Dimensions - 30" and 60" Models	24
CS 1400R/PC/R-IM single and side by side units in a 72" Recess	25
Cabinet Opening Dimensions - 30" and 60" Models	26
Cabinet Opening Dimensions - 36" Models	27
36" Models in an 84" Recess	28
Cabinet Opening Dimensions - 72" Models (Side by Side)	29
Ventilation Requirements 24", 30", 48" and 60" Models	30
Ventilation Requirements 36" and 72" (Side by Side) Models	31
Door Swing Clearance CS 2090, CS 2091	32
Door Swing Clearance CS 2092, CBS 2092	33
Accessories	34

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!**

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!

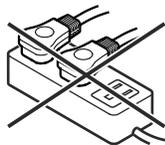
Electrocution hazard.

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.

IceMaker (if equipped)

The icemaker is located in the freezer compartment. It must be connected to the water supply. The appliance must be level for the icemaker to function properly.

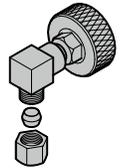
The water supply pressure requirements are different based on whether or not the supplied Liebherr water filter is installed. With the filter installed, the pressure must be in the range of 40-90 psi (2.8-6.2 bar). Without the filter installed the acceptable pressure range is 22-87 psi (1.5-6 bar).

For the water supply, we recommend braided style ice maker hoses with 1/4" connectors.

To connect a 1/4" copper line, use a 1/4" compression nut and a metal compression ring.

To connect a 1/4" PEX line, use a 1/4" compression nut and a plastic compression ring.

The supplied brass fitting must be used to connect to the solenoid as the plastic threads on the solenoid are metric.



If you have hard water, we recommend you install a water softener. Also, a filter must be installed if the water contains solids such as sand.

All equipment and devices used to supply the water to the appliance must comply with the current regulations for your geographical area.

Safety Instructions and Warnings

- Do not attach the water source while the appliance is connected to an electrical outlet.
- A shut-off valve, must be installed between the hose line and the main water supply so that the water supply can be stopped if necessary. **Do not install the shut-off valve behind the appliance.**
- The connection to the water supply may only be made by a trained and licensed plumber.
- The water quality must comply with the drinking water regulations for the geographical area where the appliance is located.
- The icemaker is designed exclusively to make ice cubes in quantities needed by a household and may only be operated with water appropriate for this purpose.
- All repairs and work on the icemaker may only be done by customer service personnel or other trained personnel.
- The manufacturer cannot accept liability for damage caused by equipment or water lines between the solenoid valve and the water supply.

General Remarks

Area Requirements

Verify the following:

- Floors can support refrigerator's weight plus approximately 1200 pounds (544 kg) of food weight. Not all Liebherr products are designed for 1200 pounds (544 kg) of food. Some units are smaller and total weights may vary.
- Finished kitchen floor height is level. Refrigerator 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 refrigerator opening.
- Cutout dimensions are accurate.
- Electrical outlet is in correct location.

Do not install this unit 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 unit next to any other refrigerator or freezer 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 system lubrication to reach equilibrium.

Blocking For Safety

The anti-tip bracket must be installed to prevent the unit from tipping after it is installed. Refer to chapter "Blocking For Safety" in the installation instructions.

Safety Regulations

The appliances are designed to cool, freeze, store food as well and make ice (if equipped).

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 complies with current safety regulations

CAN/CSA C22.2 No.60335-1-11

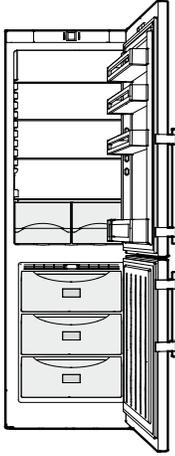
UL 60335-1 Fifth Edition

CAN/CSA C22.2 No. 60335-2-24-06

UL 60335-2-24 First Edition

General Remarks

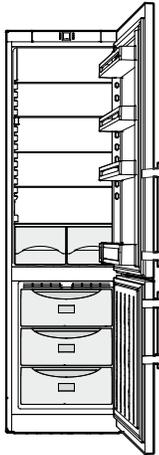
Specifications 24" and 48" Models



CS 1210

Energy Star:	certified
Energy consumption p. a.:	370 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	11.1 cu ft (314 L)
Refrigerator:	7.8 cu ft (222 L)
Freezer:	3.3 cu ft (94 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

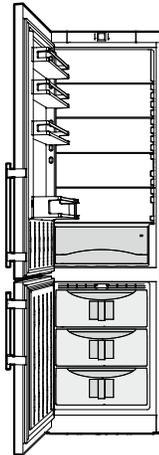
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- SmartSteel doors



CS 1360B

Energy Star:	certified
Energy consumption p. a.:	480 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	12.7 cu ft (361 L)
Refrigerator:	9.4 cu ft (267 L)
Freezer:	3.3 cu ft (94 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

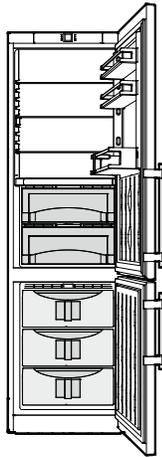
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker
- SmartSteel doors



CS 1321

Energy Star:	certified
Energy consumption p. a.:	380 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	12.7 cu ft (361 L)
Refrigerator:	9.4 cu ft (267 L)
Freezer:	3.3 cu ft (94 L)
Climate Rating:	SN-T
Door hinges:	left / reversible

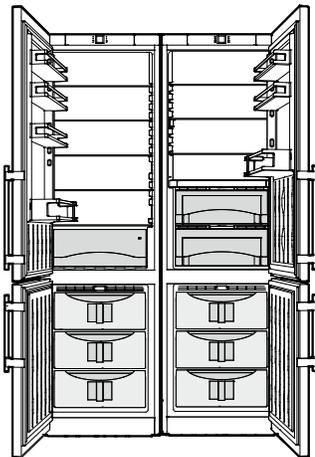
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- SmartSteel doors



CBS 1360

Energy Star:	certified
Energy consumption p. a.:	480 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	12.0 cu ft (340 L)
Refrigerator:	8.7 cu ft (246 L)
Freezer:	3.3 cu ft (94 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker
- SmartSteel doors
- BioFresh drawers with adjustable humidity



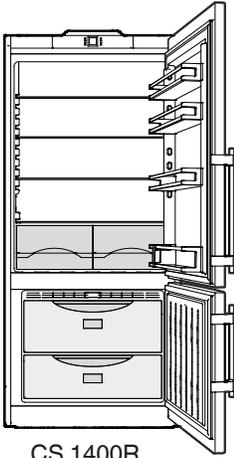
SBS CS 1321 & CBS 1360

Energy Star:	certified
Energy consumption p. a.:	860 kWh
Energy Supply:	115V / 60Hz / 5A
Total capacity:	24.7 cu ft (701 L)
Refrigerator:	18.1 cu ft (513 L)
Freezer:	6.6 cu ft (188 L)
Climate Rating:	SN-T

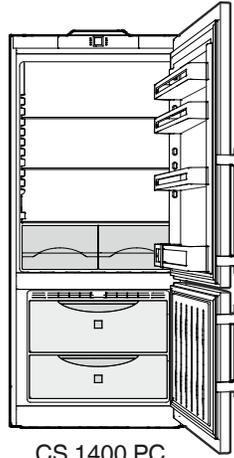
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- SmartSteel doors
- Automatic IceMaker
- BioFresh drawers with adjustable humidity

Freestanding/Semi Built In Models

Specifications 30" and 60" Models



CS 1400R

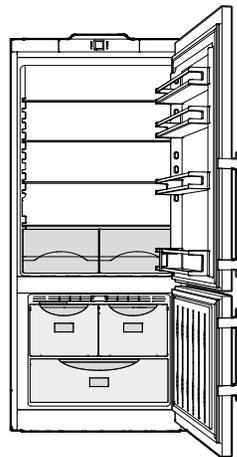
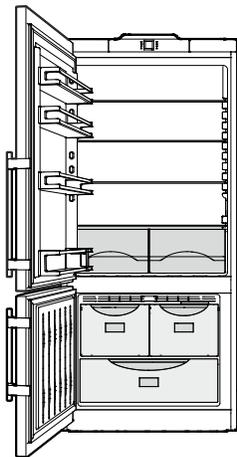


CS 1400 PC

CS 1400R CS 1400PC

Energy Star:	certified
Energy consumption p. a.:	380 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	12.8 cu ft (363 L)
Refrigerator:	9.8 cu ft (277 L)
Freezer:	3.0 cu ft (86 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

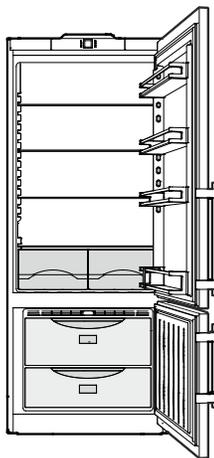
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- SmartSteel doors



CS 1401R-IM (left hinged) CS 1400R-IM (right hinged)

Energy Star :	certified
Energy consumption p. a.:	465 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	12.8 cu ft (363 L)
Refrigerator:	9.8 cu ft (277 L)
Freezer:	3.0 cu ft (86 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

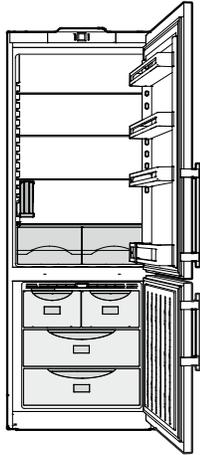
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker
- SmartSteel doors



CS 1410

Energy Star:	certified
Energy consumption p. a.:	380 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	14.7 cu ft (417 L)
Refrigerator:	11.7 cu ft (331 L)
Freezer:	3.0 cu ft (86 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

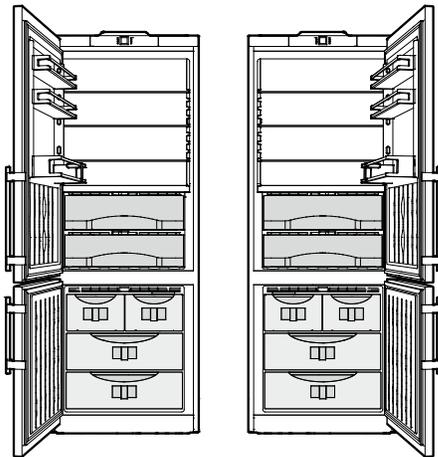
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- SmartSteel doors



CS 1640B

Energy Star:	certified
Energy consumption p. a.:	496 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	16.0 cu ft (452 L)
Refrigerator:	11.7 cu ft (331 L)
Freezer:	4.3 cu ft (121 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

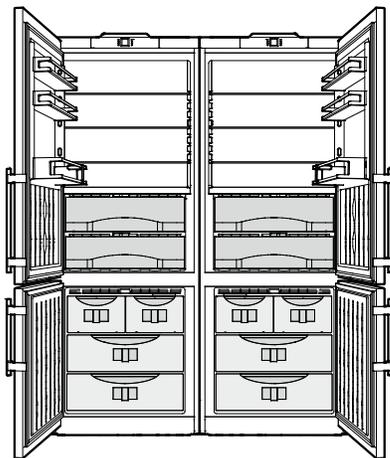
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker with watertank
- SmartSteel doors



CBS 1661 (left hinged) CBS 1660 (right hinged)

Energy Star:	certified
Energy consumption p. a.:	488 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	15.0 cu ft (424 L)
Refrigerator:	10.7 cu ft (303 L)
Freezer:	4.3 cu ft (121 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker
- SmartSteel doors
- BioFresh drawers with adjustable humidity

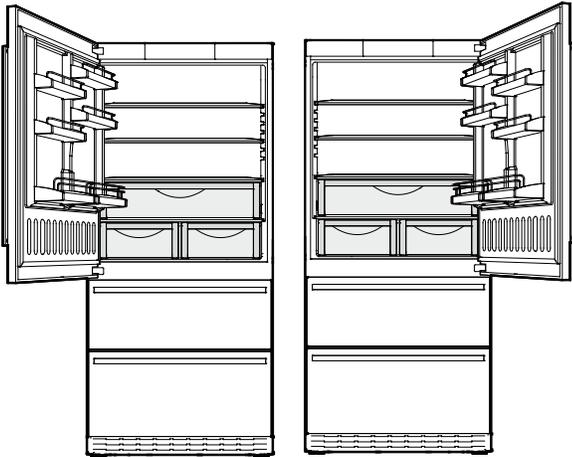


SBS CBS 1661 & CBS 1660

Energy Star:	certified
Energy consumption p. a.:	984 kWh
Energy Supply:	115V / 60Hz / 5A
Total capacity:	29.9 cu ft (848 L)
Refrigerator:	21.4 cu ft (606 L)
Freezer:	8.5 cu ft (242 L)
Climate Rating:	SN-T

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker
- SmartSteel doors
- BioFresh drawers with adjustable humidity

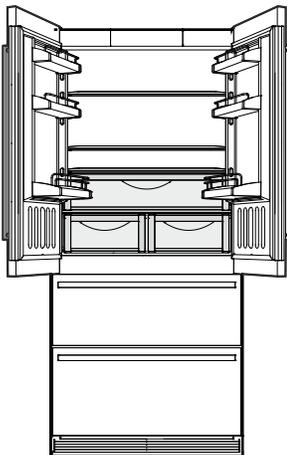
Specifications 36" Models



CS 2091 (left hinged) CS 2090 (right hinged)

Energy Star:	certified
Energy consumption p. a.:	550 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	19.5 cu ft (552 L)
Refrigerator:	13.5 cu ft (382 L)
Freezer:	6 cu ft (170 L)
Ice cube output:	3 lbs/24h
Ice cube stock:	6 lbs
Climate Rating:	SN-T

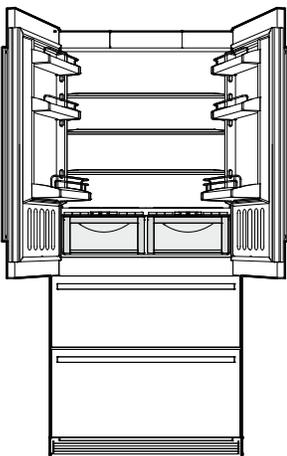
- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker can be switched off
- LED light column and LED freezer lighting



CS 2092

Energy Star:	certified
Energy consumption p. a.:	550 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	19.5 cu ft (552 L)
Refrigerator:	13.5 cu ft (382 L)
Freezer:	6 cu ft (170 L)
Ice cube output:	3 lbs/24h
Ice cube stock:	6 lbs
Climate Rating:	SN-T

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker can be switched off
- LED light column and LED freezer lighting



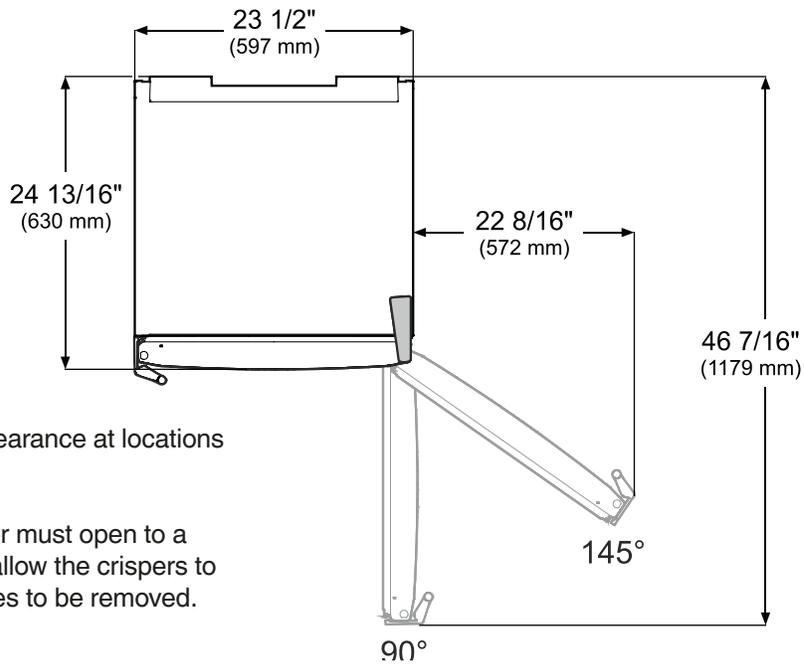
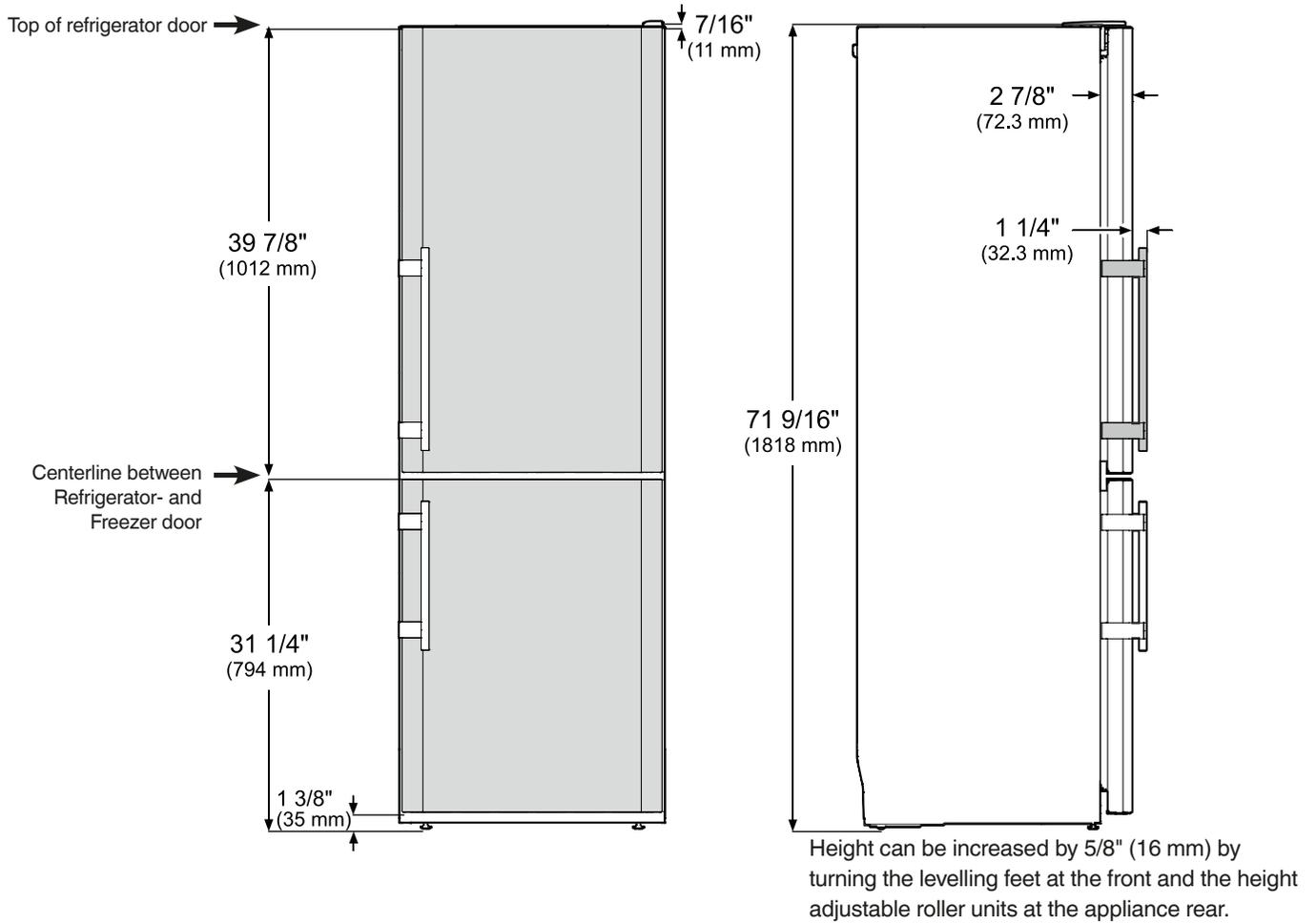
CBS 2092

Energy Star:	certified
Energy consumption p. a.:	550 kWh
Energy Supply:	115V / 60Hz / 2.5A
Total capacity:	18.9 cu ft (535 L)
Refrigerator:	12.9 cu ft (365 L)
Freezer:	6 cu ft (170 L)
Ice cube output:	3 lbs/24h
Ice cube stock:	6 lbs
Climate Rating:	SN-T

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker can be switched off
- LED light column and LED freezer lighting
- BioFresh drawers with adjustable humidity

Freestanding/Semi Built In Models

Unit Dimensions CS 1210

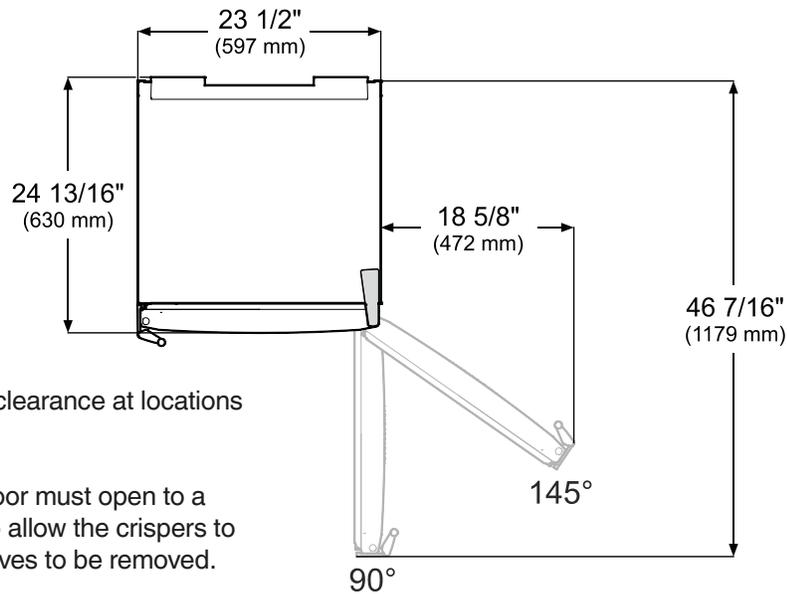
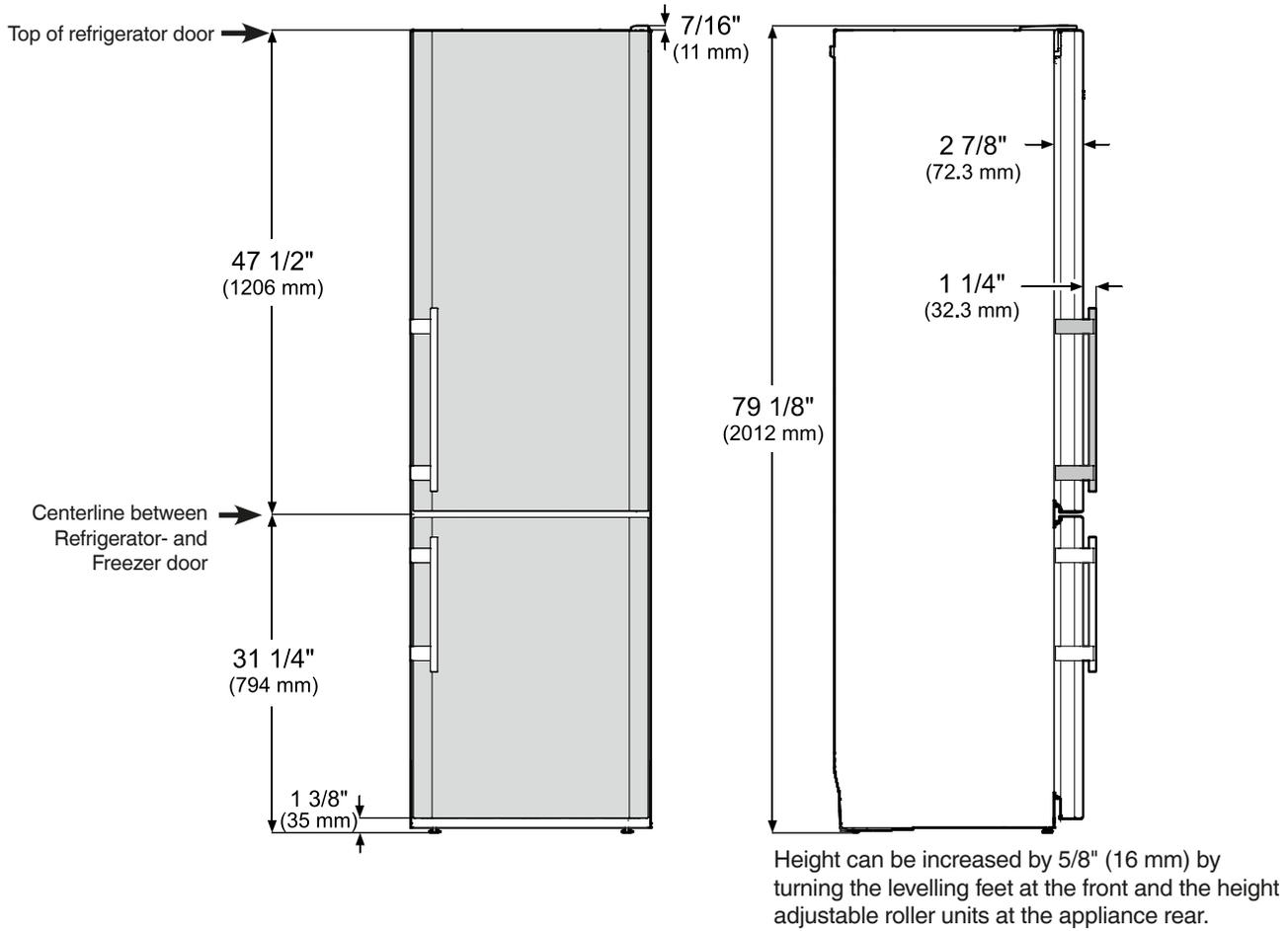


Allow door swing clearance at locations next to a wall.

The refrigerator door must open to a minimum of 90° to allow the crispers to open and the shelves to be removed.

Freestanding/Semi Built In Models

Unit Dimensions CS 1360B / CS 1321 / CBS 1360



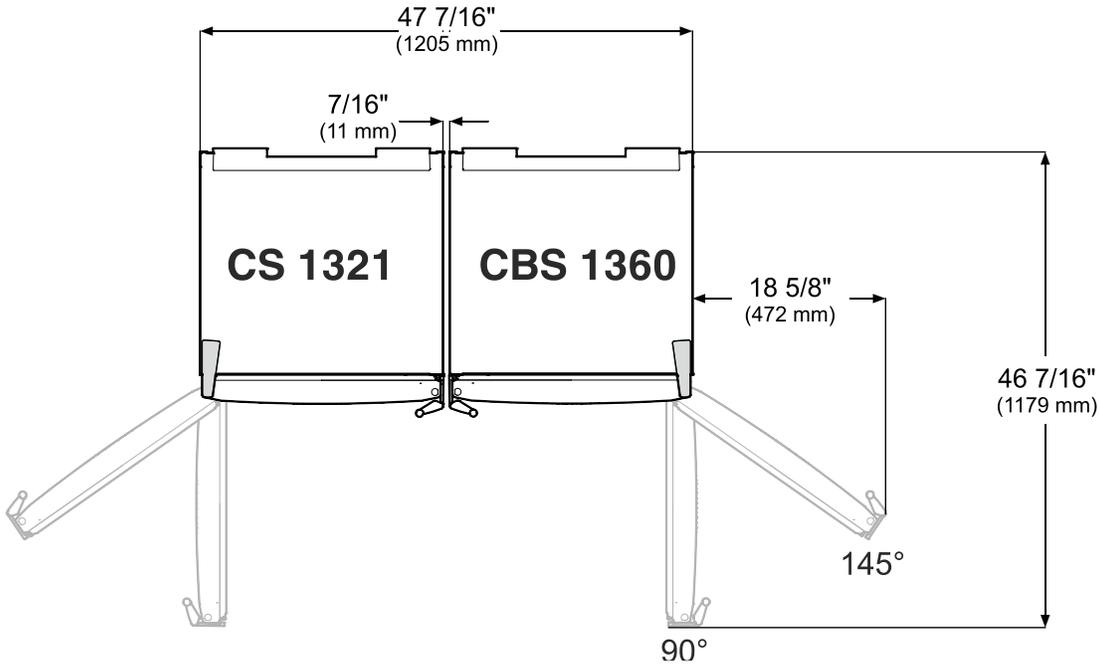
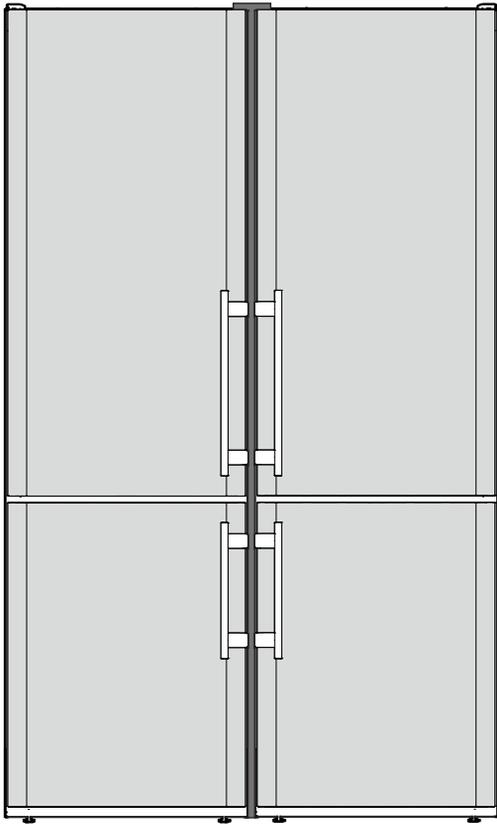
Allow door swing clearance at locations next to a wall.

The refrigerator door must open to a minimum of 90° to allow the crispers to open and the shelves to be removed.

For models CS 1321 and CBS 1360 it is possible to limit the door opening to 90°.

Freestanding/Semi Built In Models

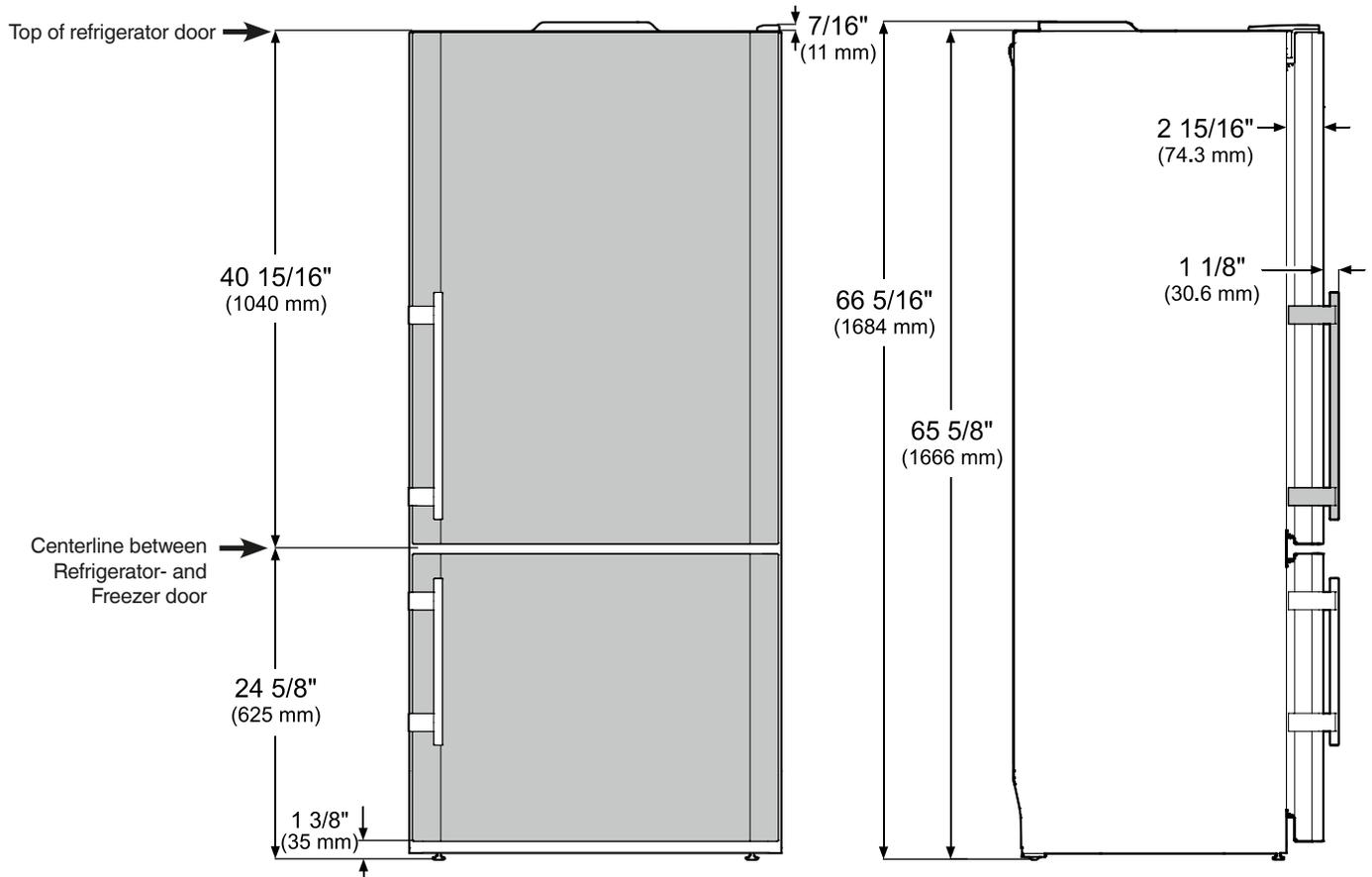
Unit Dimensions SBS CS 1321 & CBS 1360



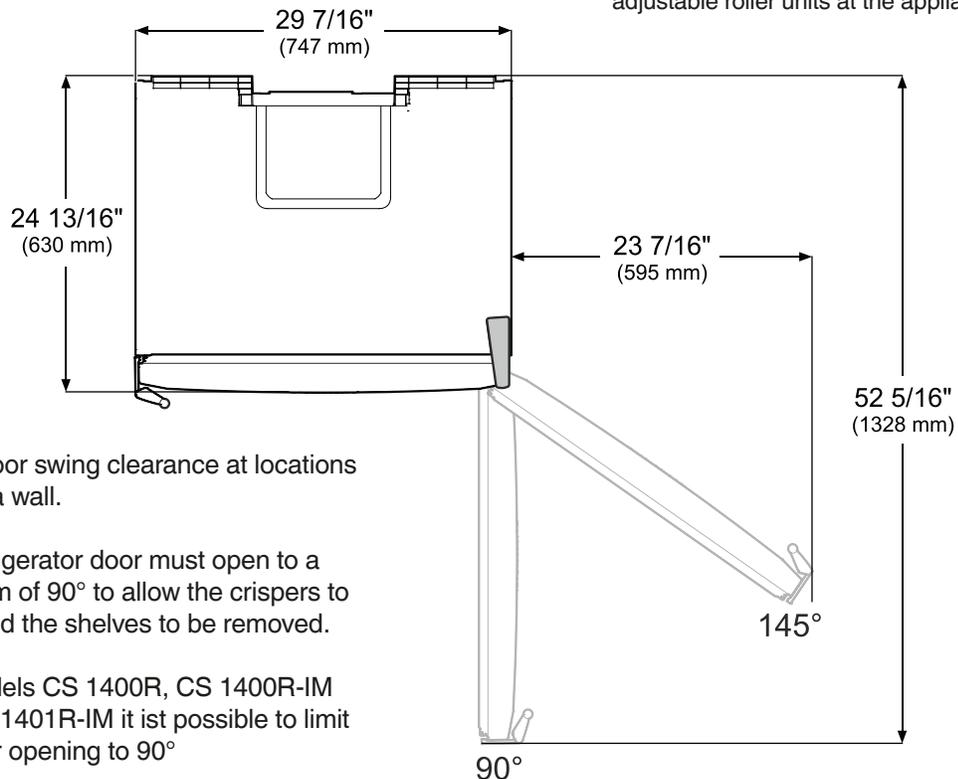
Detail measures for each appliance see "Unit Dimensions CS 1321 and CBS 1360".

Freestanding/Semi Built In Models

Unit Dimensions CS 1400R / CS 1400PC / CS 1400R-IM / CS 1401R-IM



Height can be increased by $5/8''$ (16 mm) by turning the levelling feet at the front and the height adjustable roller units at the appliance rear.



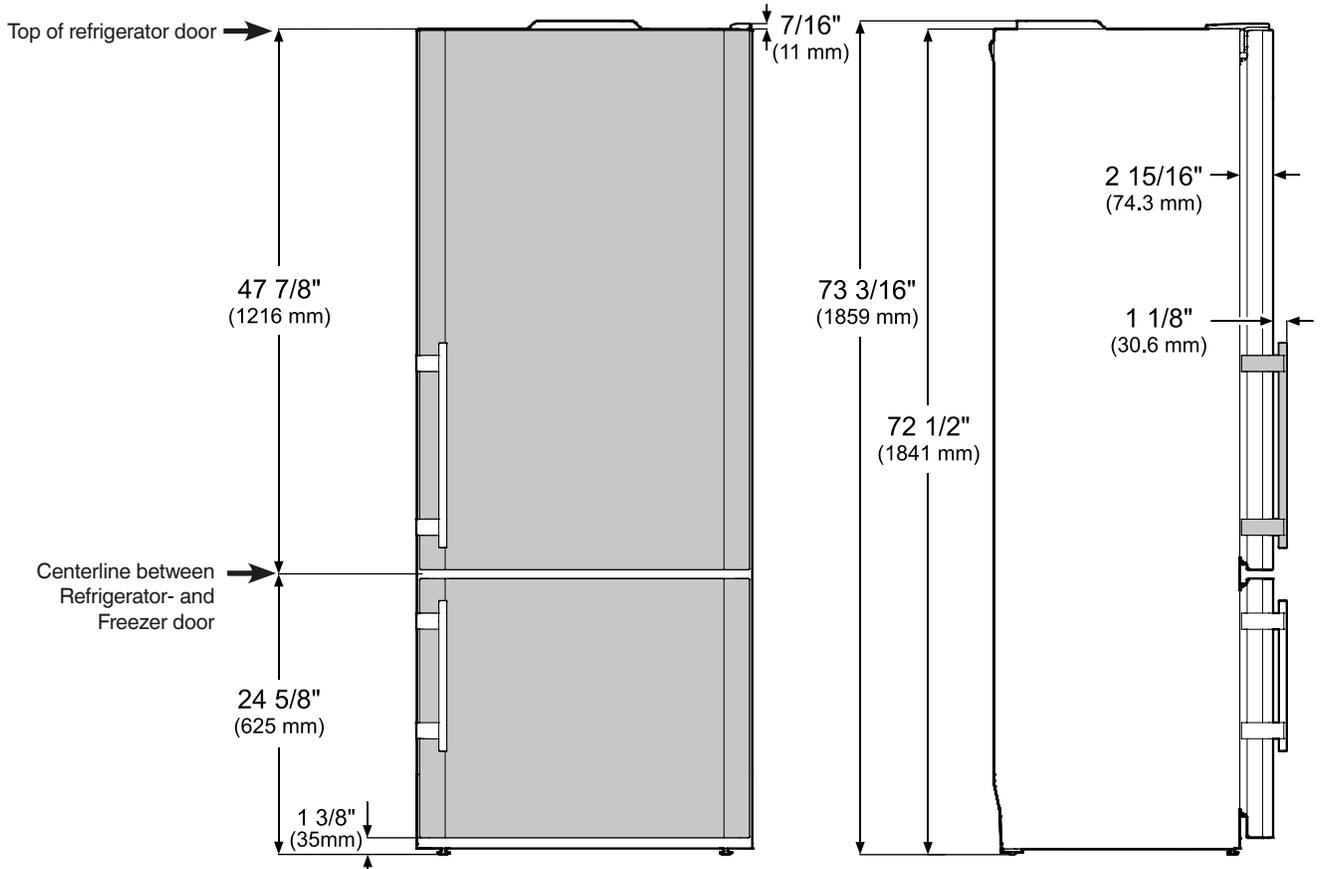
Allow door swing clearance at locations next to a wall.

The refrigerator door must open to a minimum of 90° to allow the crispers to open and the shelves to be removed.

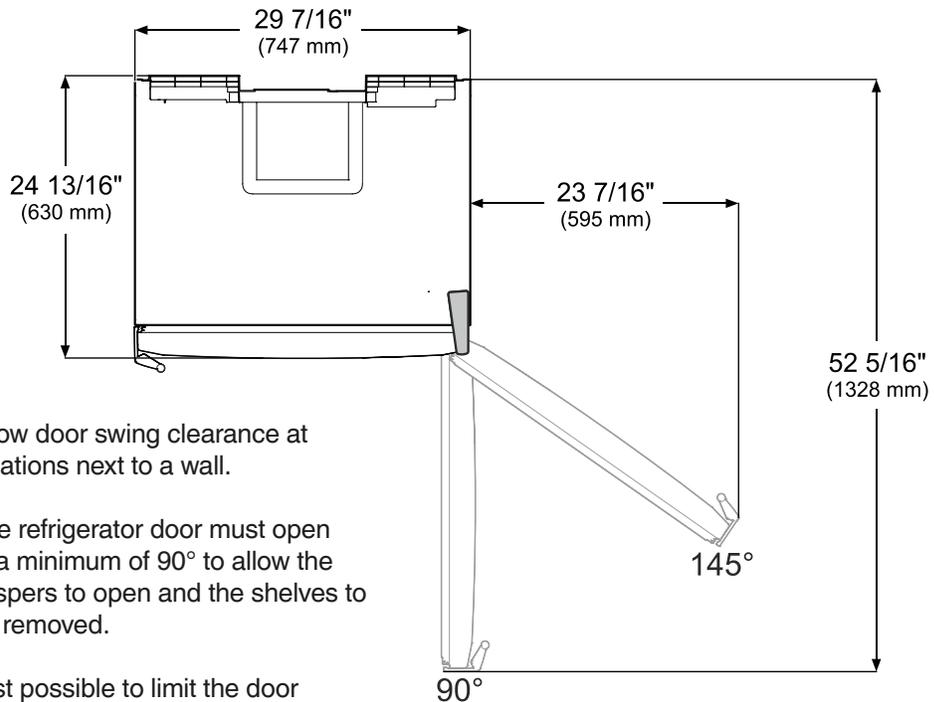
For models CS 1400R, CS 1400R-IM and CS 1401R-IM it is possible to limit the door opening to 90°

Freestanding/Semi Built In Models

Unit Dimensions CS 1410



Height can be increased by 5/8" (16 mm) by turning the levelling feet at the front and the height adjustable roller units at the appliance rear.



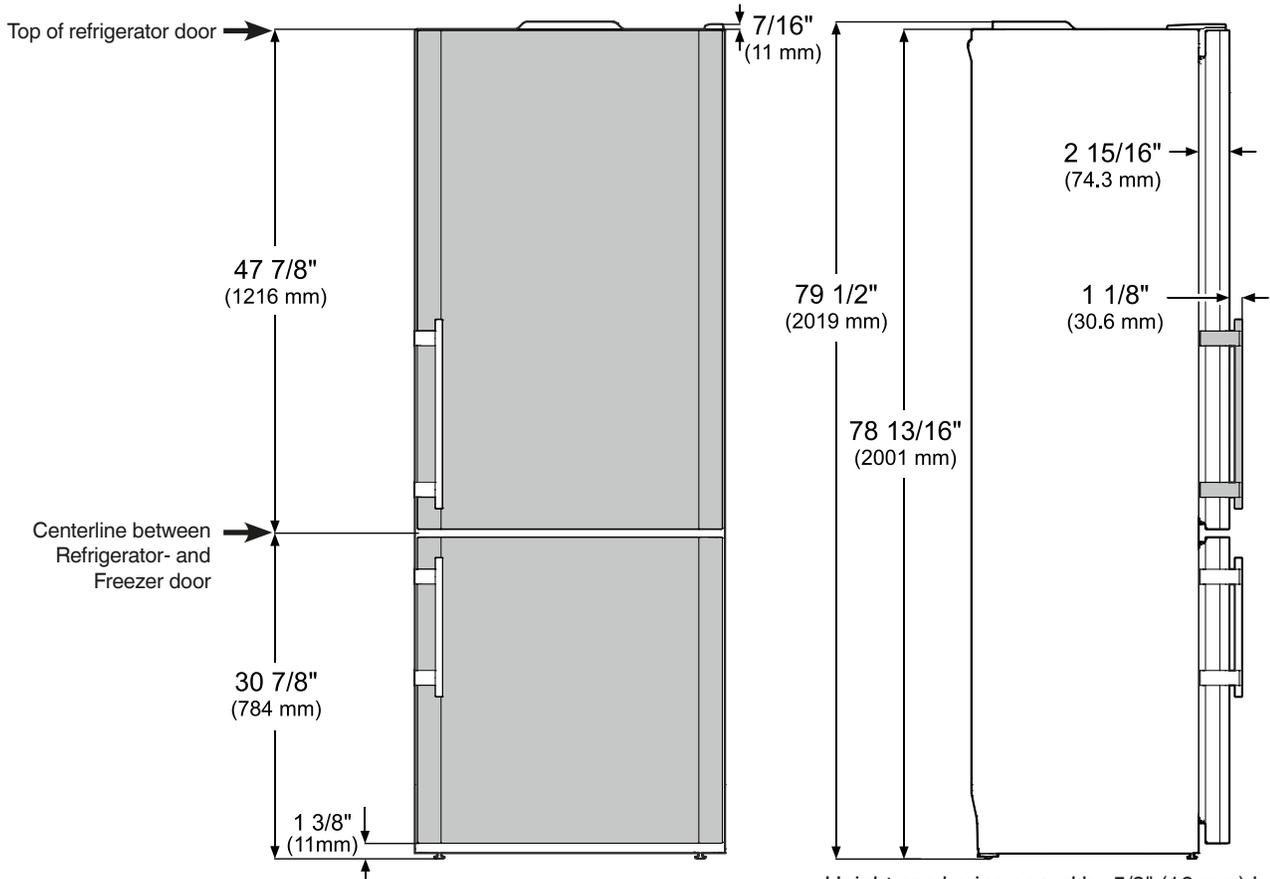
Allow door swing clearance at locations next to a wall.

The refrigerator door must open to a minimum of 90° to allow the crispers to open and the shelves to be removed.

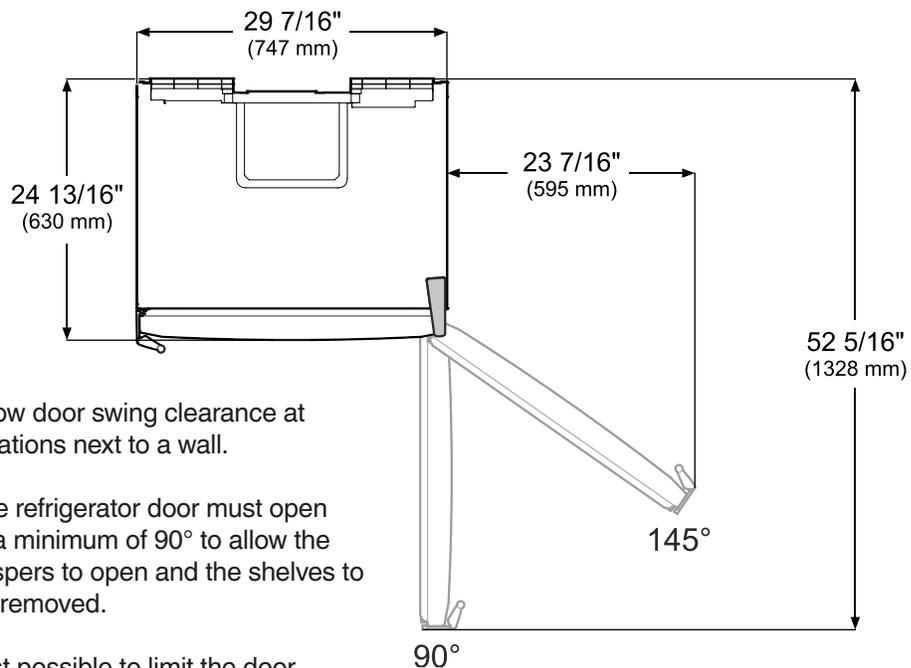
It is possible to limit the door opening to 90°

Freestanding/Semi Built In Models

Unit Dimensions CS 1640B / CBS 1660 / CBS 1661



Height can be increased by 5/8" (16 mm) by turning the levelling feet at the front and the height adjustable roller units at the appliance rear.



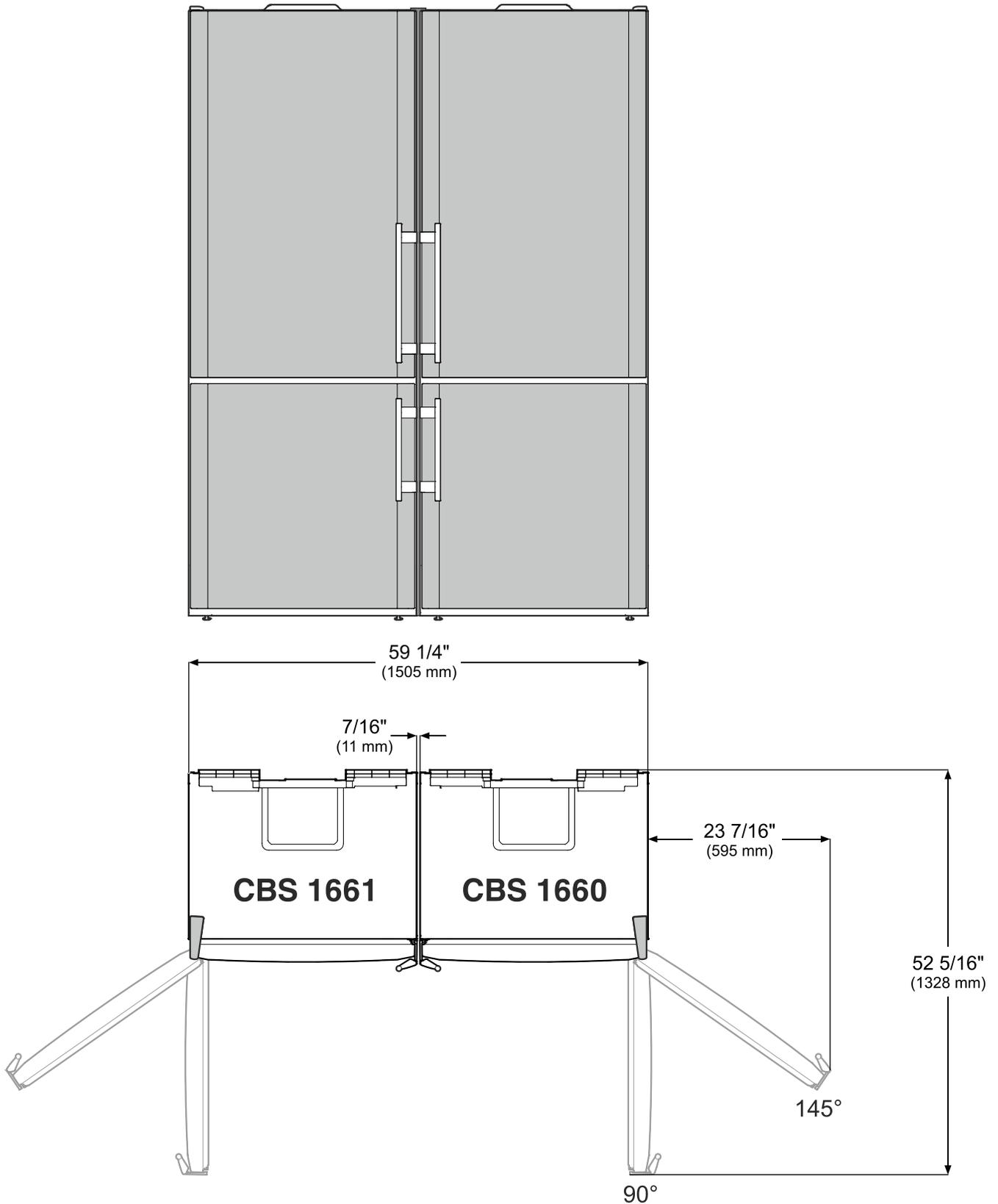
Allow door swing clearance at locations next to a wall.

The refrigerator door must open to a minimum of 90° to allow the crispers to open and the shelves to be removed.

It is possible to limit the door opening to 90°

Freestanding/Semi Built In Models

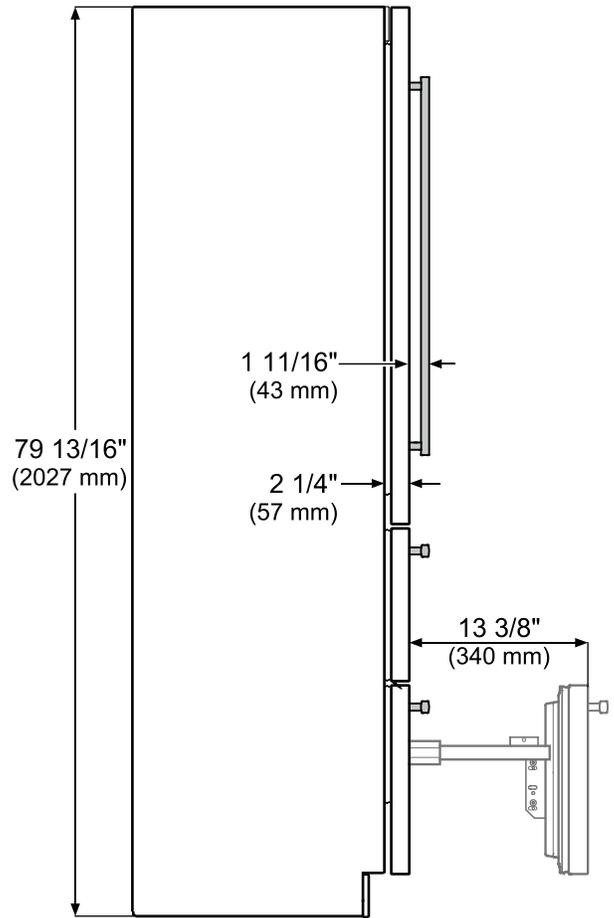
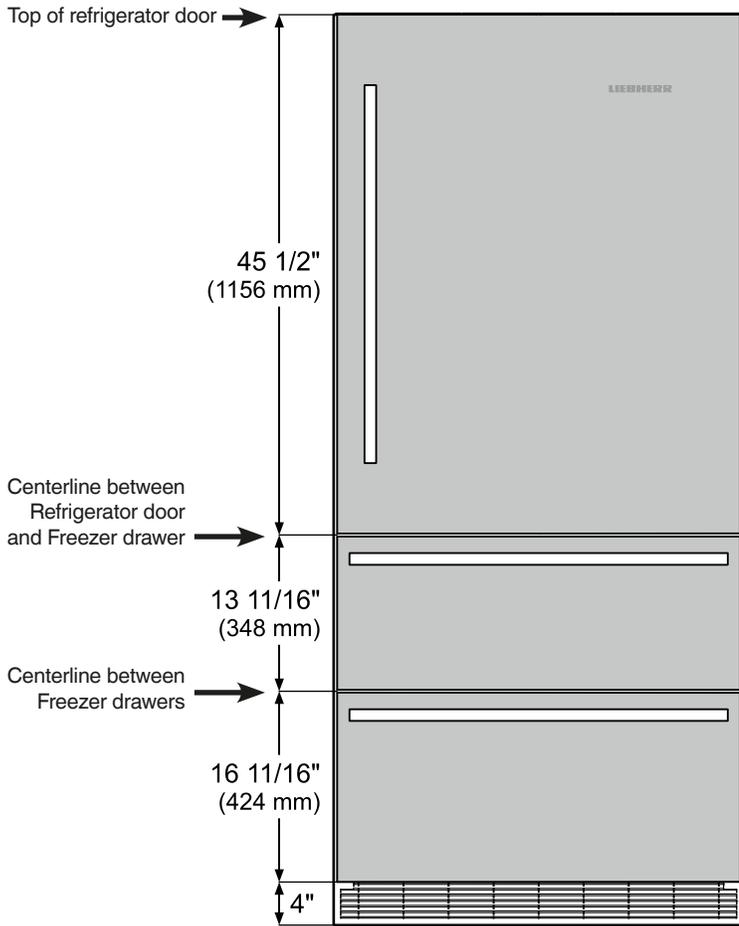
Unit Dimensions SBS CBS 1661 & CBS 1660



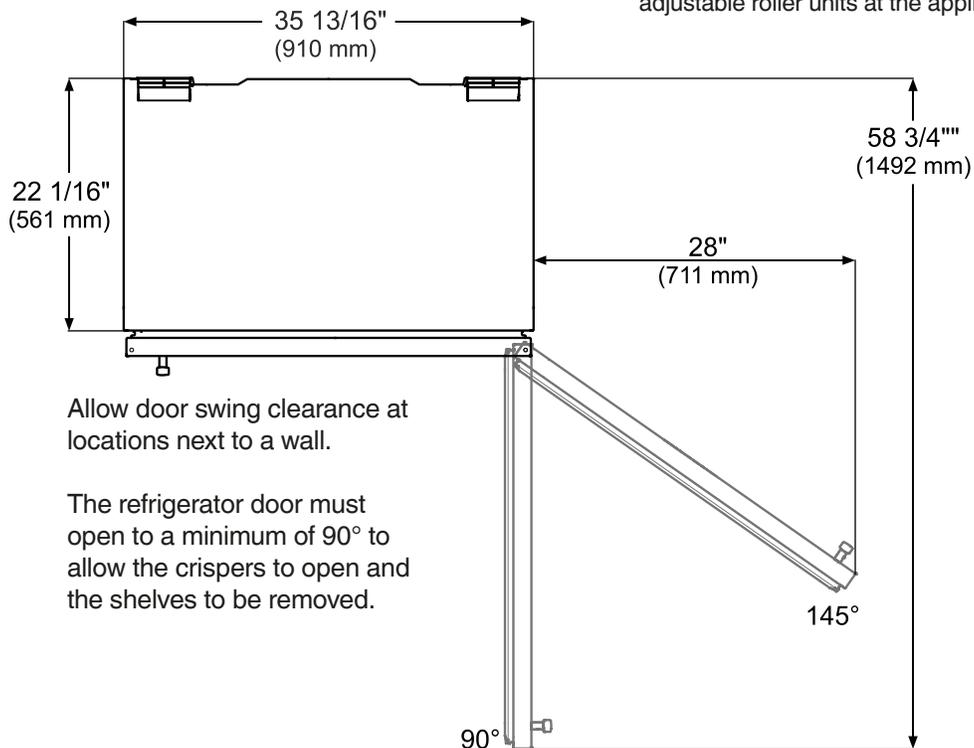
Detail measures for each appliance see
"Unit Dimensions CBS 1661 and CBS 1660"

Freestanding/Semi Built In Models

Unit Dimensions CS 2090, CS 2091



Height can be increased by 1-1/2" (40 mm) by turning the levelling feet at the front and the height adjustable roller units at the appliance rear.

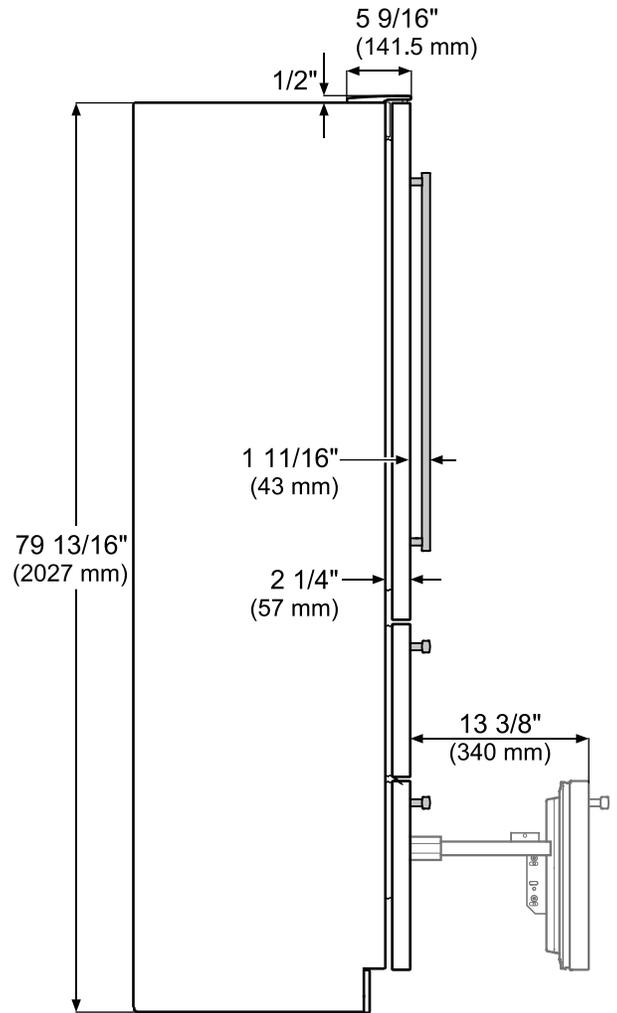
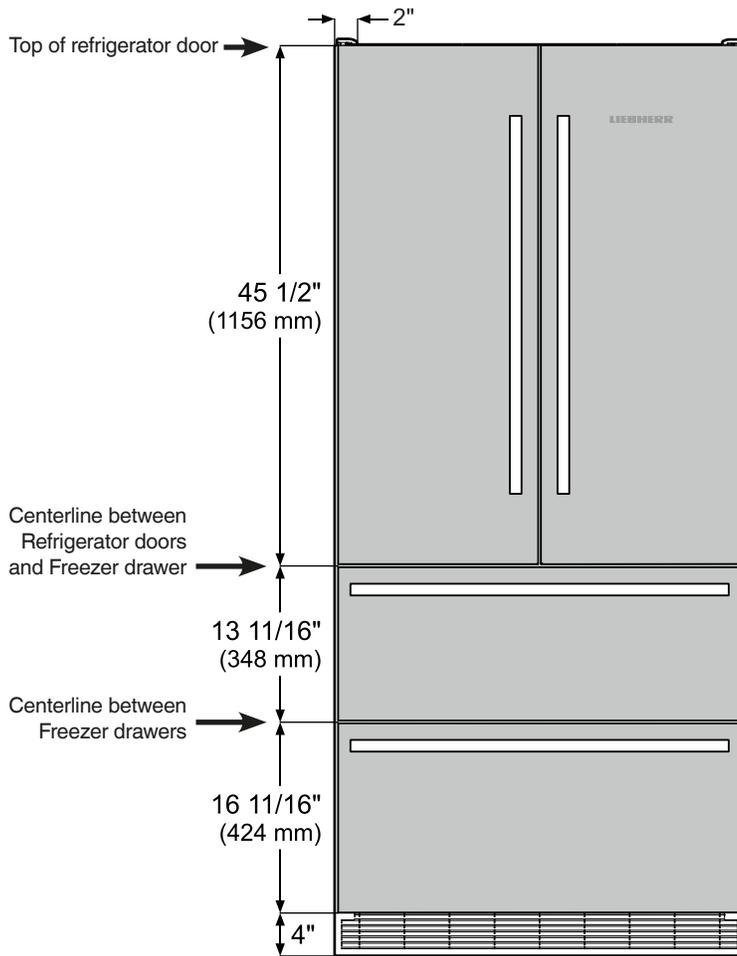


Allow door swing clearance at locations next to a wall.

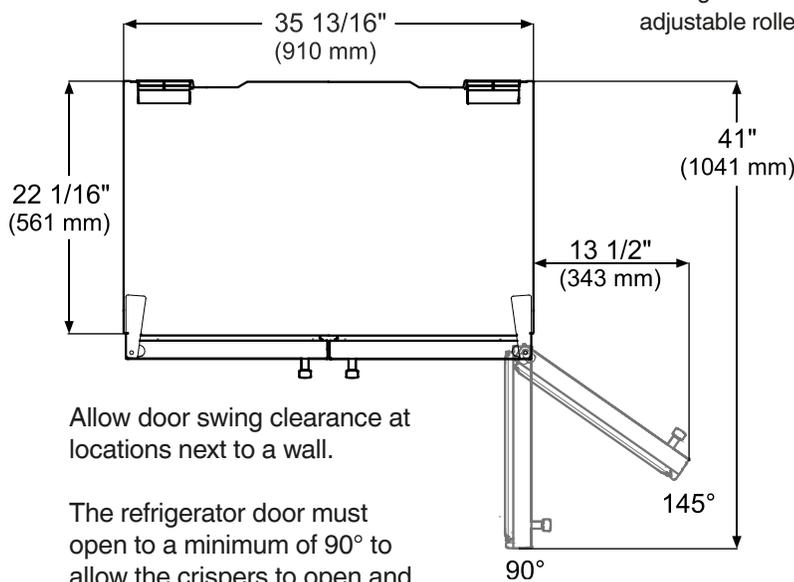
The refrigerator door must open to a minimum of 90° to allow the crispers to open and the shelves to be removed.

Freestanding/Semi Built In Models

Unit Dimensions CS 2092, CBS 2092



Height can be increased by 1-1/2" (40 mm) by turning the levelling feet at the front and the height adjustable roller units at the appliance rear.



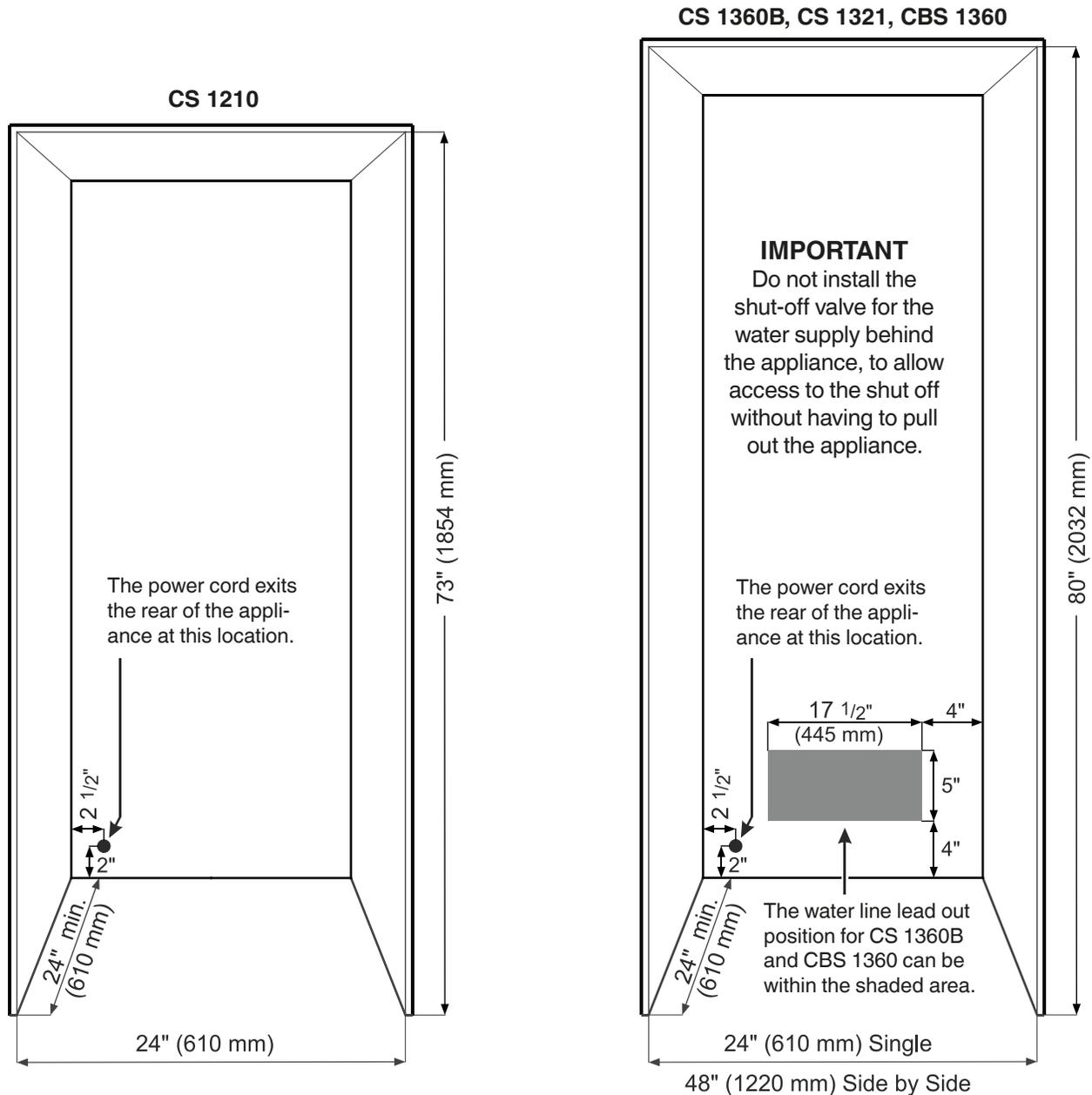
Allow door swing clearance at locations next to a wall.

The refrigerator door must open to a minimum of 90° to allow the crispers to open and the shelves to be removed.

Freestanding/Semi Built In Models

Cabinet Opening Dimensions - 24" and 48" Models

The appliance can be used freestanding or semi built-in.
If semi built-in, consider the cabinet opening dimensions specified below.



Free length of the power cord is 90".

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

NOTE

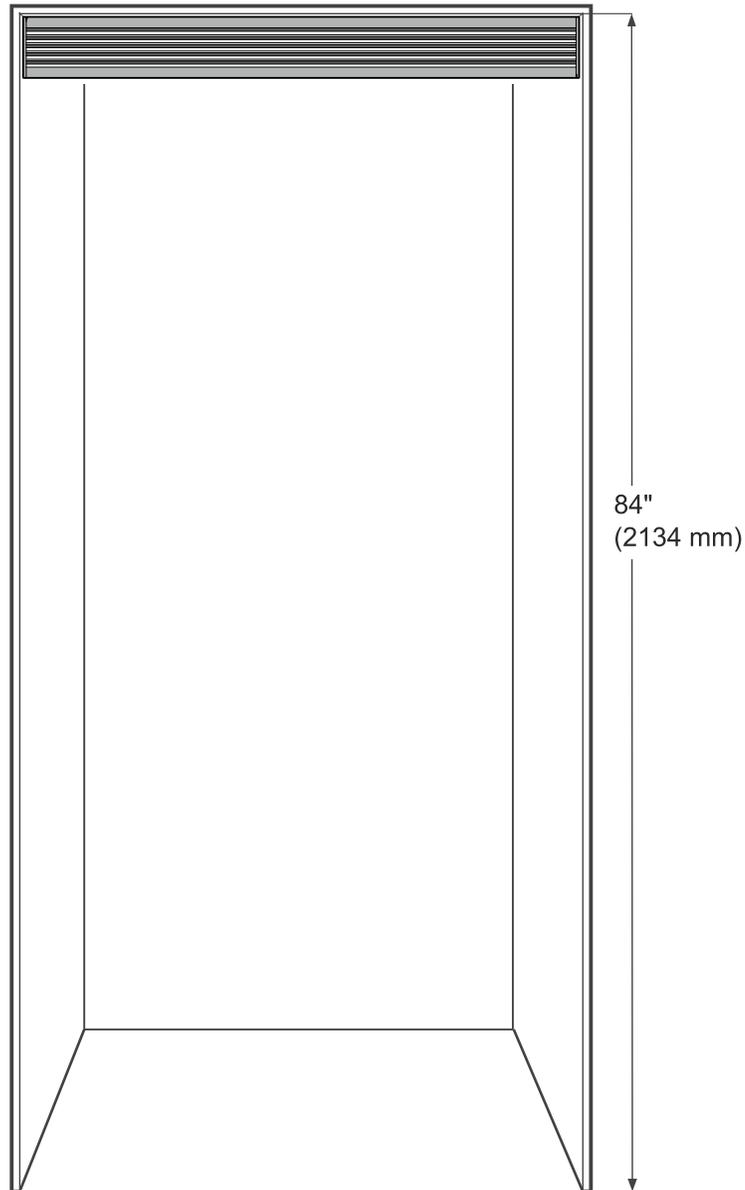
If the gap between the rear of the appliance and the wall is less than 2 inch (51 mm), the power consumption level may increase.

Freestanding/Semi Built In Models

48" Side by Side combination in a 84" Recess

When installing CS 1321 and CBS 1360 combination in a 84" recess, the remaining gap above the appliances can be covered with a decorative grill 9900 368-00.

The decorative grille is intended to be used as a filler for pre-existing 84" openings.



NOTE

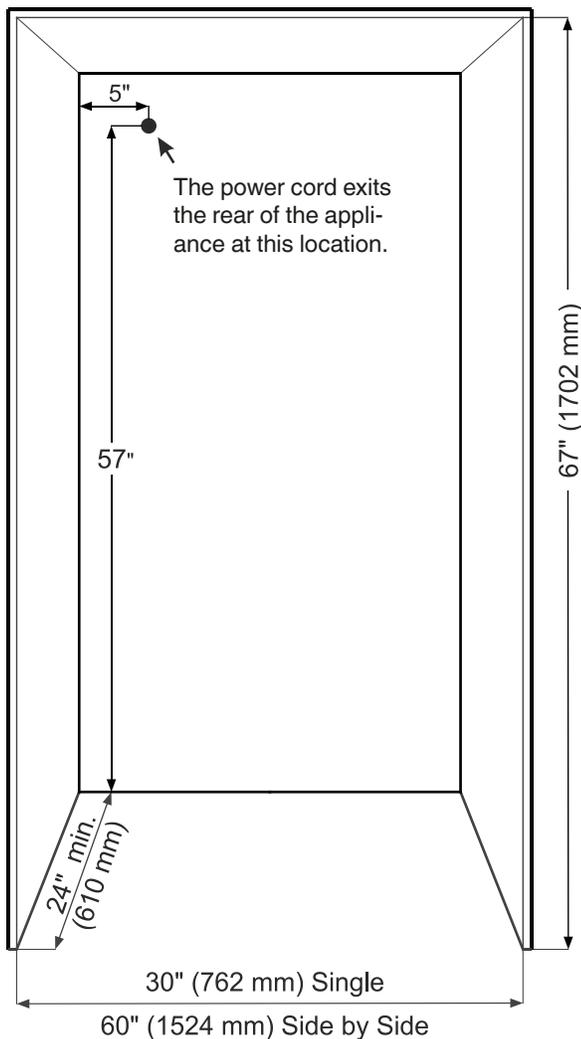
The decorative upper grille attaches to the cabinets / gables on either side of it and not to the appliance itself nor any cabinet above.

Freestanding/Semi Built In Models

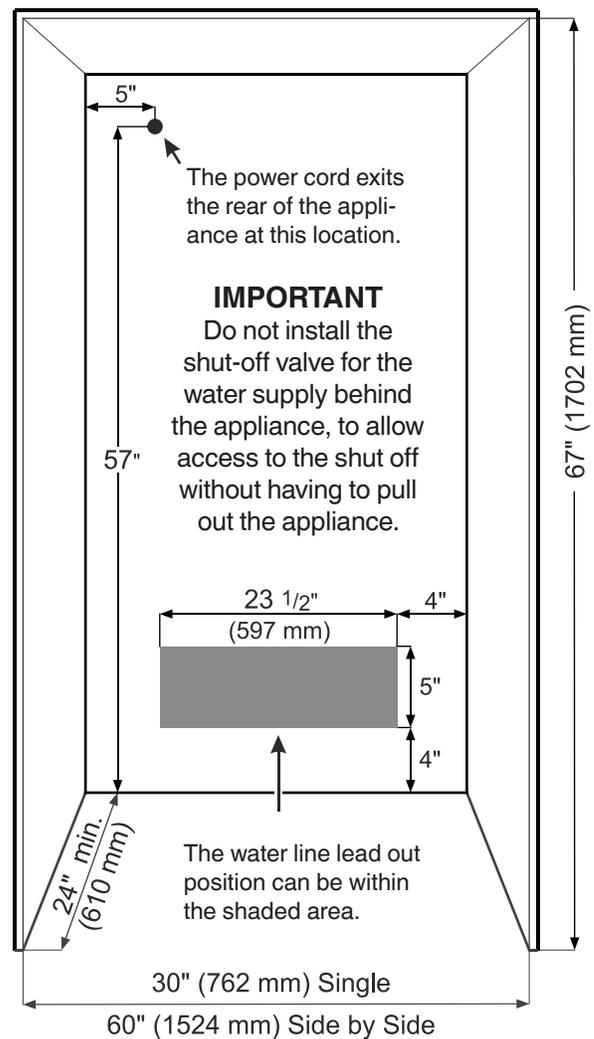
Cabinet Opening Dimensions - 30" and 60" Models

The appliance can be used freestanding or semi built-in.
If semi built-in, consider the cabinet opening dimensions specified below.

CS 1400R, CS 1400PC



CS 1400R-IM / CS 1401R-IM



Free length of the power cord is 90".

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

NOTE

If the gap between the rear of the appliance and the wall is less than 2 inch (51 mm), the power consumption level may increase.

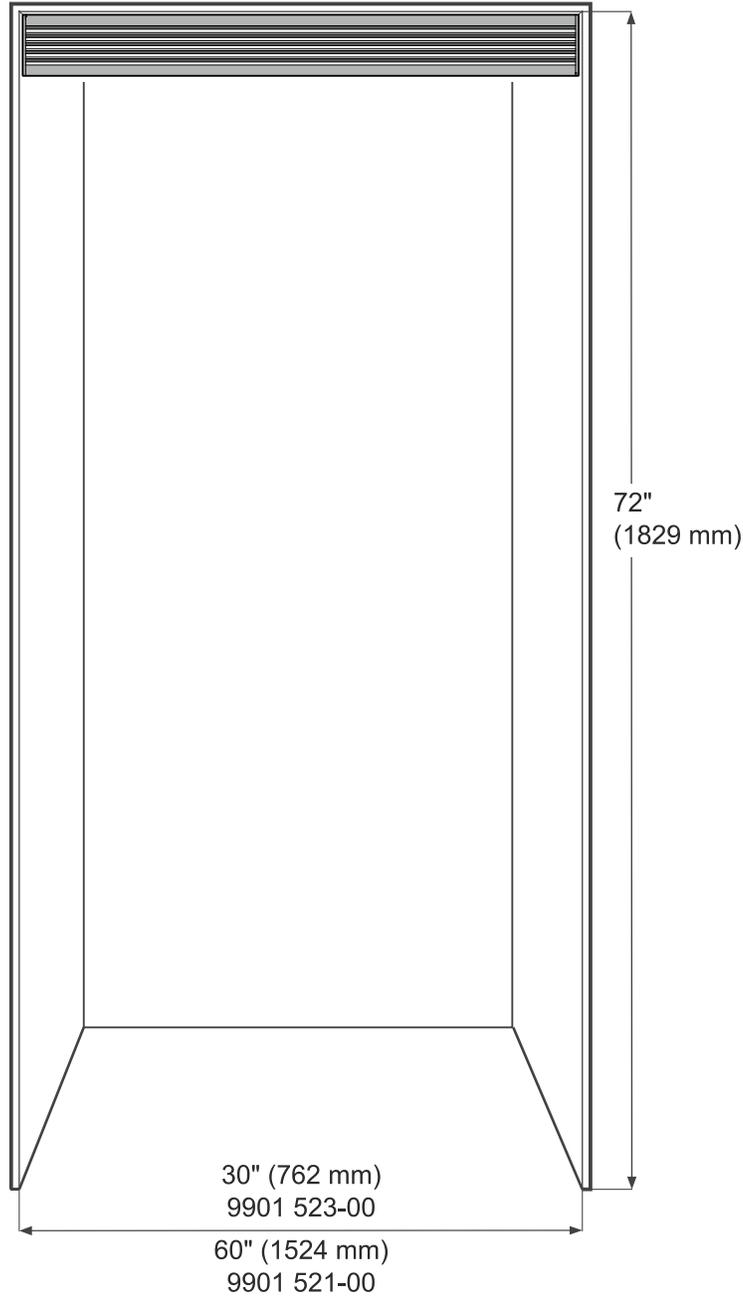
Freestanding/Semi Built In Models

CS 1400R/PC/R-IM single and side by side units in a 72" Recess

CS 1400R/PC/R-IM single and side by side units in a 72" Recess

When installing CS 1400R, CS1400PC, CS 1400R-IM or CS 1401R-IM in a 72" recess, the remaining gap above the appliances can be covered with a decorative grill 30" wide 9901 523-00 for single units or a decorative grill 60" wide 9901 521-00 for side by side combinations.

The decorative grille is intended to be used as a filler for pre-existing 72" openings.



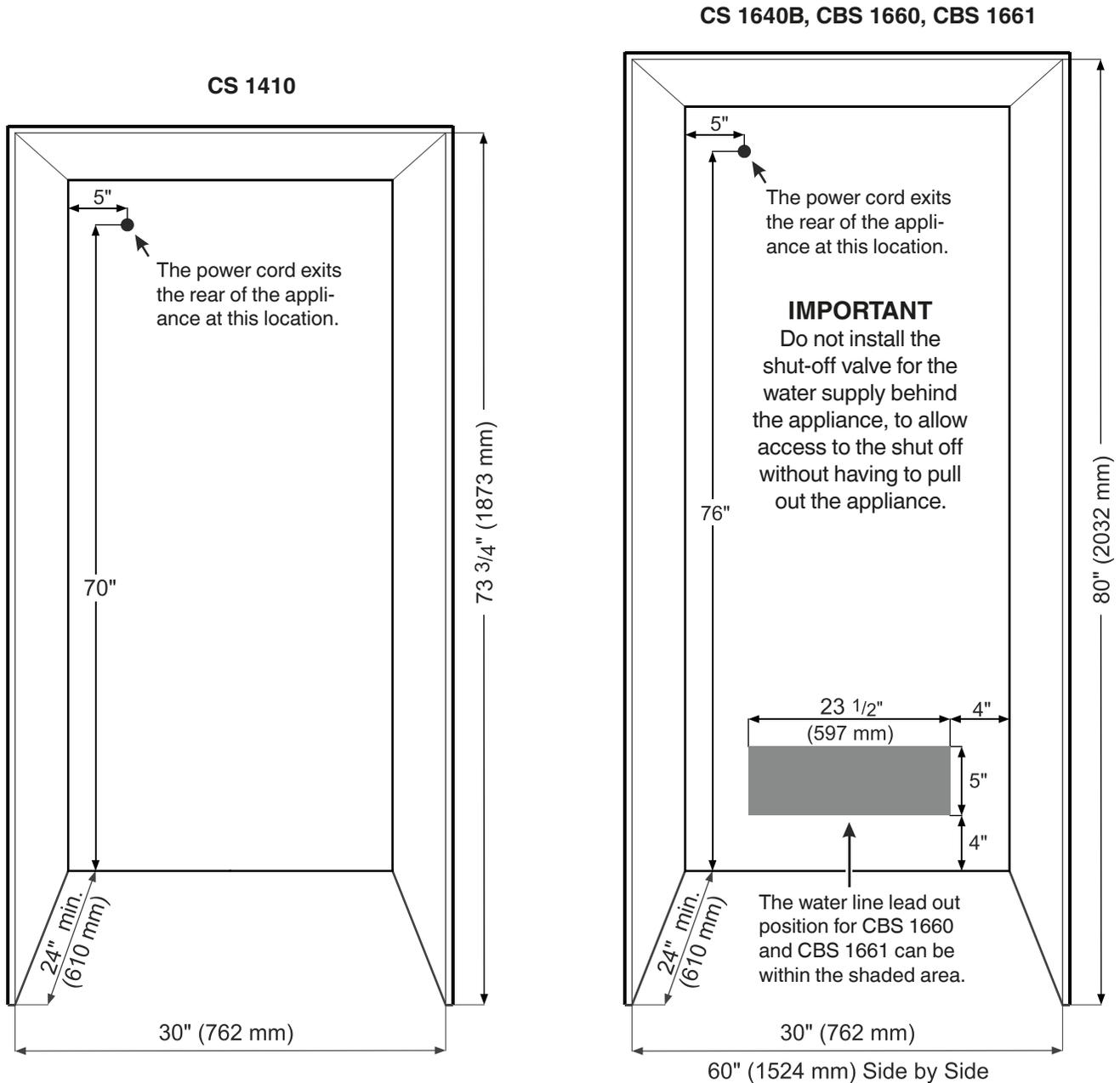
NOTE

The decorative upper grille attaches to the cabinets / gables on either side of it and not to the appliance itself nor any cabinet above.

Freestanding/Semi Built In Models

Cabinet Opening Dimensions - 30" and 60" Models

The appliance can be used freestanding or semi built-in.
 If semi built-in, consider the cabinet opening dimensions specified below.



Free length of the power cord is 90".

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

NOTE

If the gap between the rear of the appliance and the wall is less than 2 inch (51 mm), the power consumption level may increase.

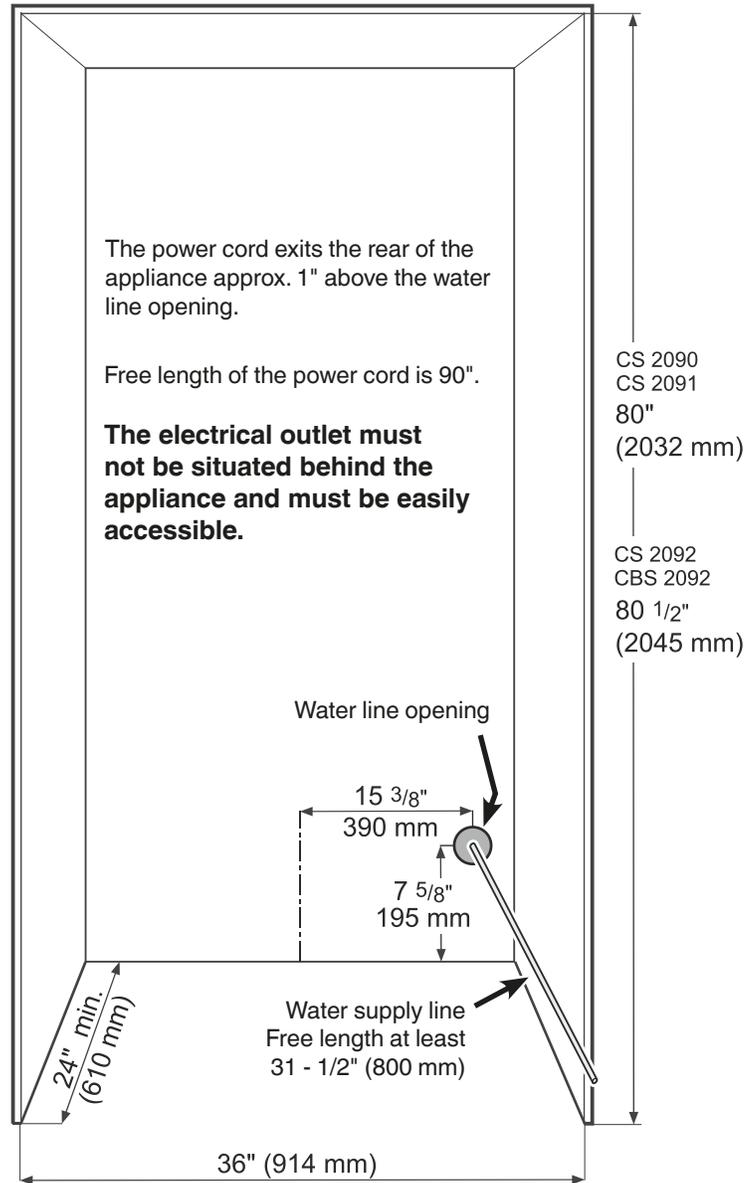
Freestanding/Semi Built In Models

Cabinet Opening Dimensions - 36" Models

The appliance can be used freestanding or semi built-in. If semi built-in, consider the cabinet opening dimensions specified below.

Minimum opening height for the **single** door 36" models (CS 2090 / CS 2091) is **80"**.

Minimum opening height for the **french** door 36" models (CS 2092 / CBS 2092) is **80-1/2"** to accommodate the top mounted hinges.



IMPORTANT

With 24" depth cabinets, the water line opening must be in the location as shown as there will not be room to route a water line behind the appliance for risk of pinching.

With cabinets deeper than 24" there is room to fit the pipe behind the appliance and the wall so there are no requirements for the water line lead out position.

Do not install the shut-off valve for the water supply behind the appliance, to allow access to the shut off without having to pull out the appliance!

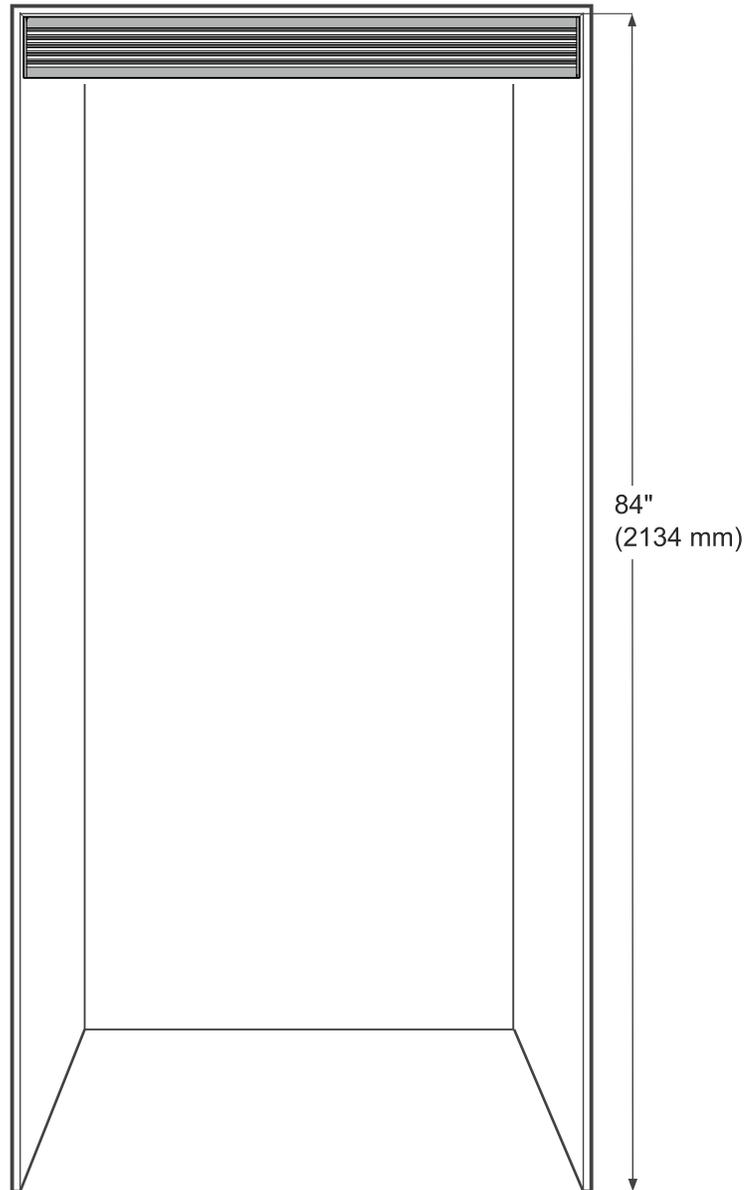
Freestanding/Semi Built In Models

36" Models in an 84" Recess

When installing 36" appliances (CS 2090, CS 2091, CS 2092, CBS 2092) in an 84" recess, the remaining gap above the appliance can be covered with a decorative grille (see chapter accessory, page 34).

The grille is not required for ventilation. All ventilation requirements are handled through the toe kick grille.

The decorative grille is intended to be used as a filler for pre-existing 84" openings.



NOTE

The decorative upper grille attaches to the cabinets / gables on either side of it and not to the appliance itself nor any cabinet above.

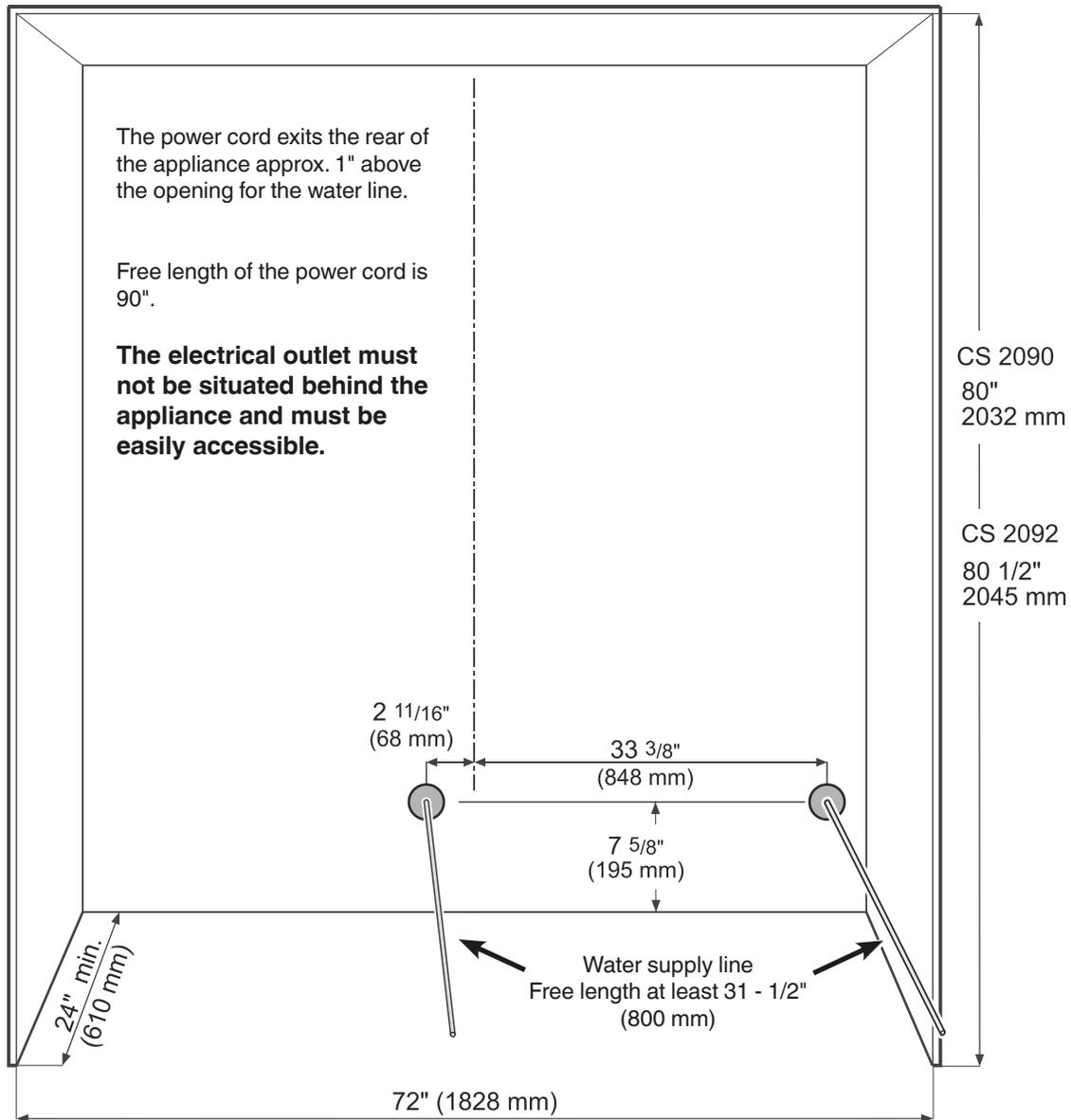
Freestanding/Semi Built In Models

Cabinet Opening Dimensions - 72" Models (Side by Side)

The appliance can be used freestanding or semi built-in. If semi built-in, consider the cabinet opening dimensions specified below.

Minimum opening height for the **single** door 36" models (CS 2090 / CS 2091) is **80"**.

Minimum opening height for the **french** door 36" models (CS 2092 / CBS 2092) is **80-1/2"** to accommodate the top mounted hinges.



IMPORTANT

With 24" depth cabinets, the water line opening must be in the location as shown as there will not be room to route a water line behind the appliance for risk of pinching.

With cabinets deeper than 24" there is room to fit the pipe behind the appliance and the wall so there are no requirements for the water line lead out position.

Do not install the shut-off valve for the water supply behind the appliance, to allow access to the shut off without having to pull out the appliance!

Freestanding/Semi Built In Models

Ventilation Requirements 24", 30", 48" and 60" Models

Do not restrict the air flow. The opening can either be directly over the appliance (1), above the cabinet and below the ceiling (2) or through a vent installed in a soffit (3).

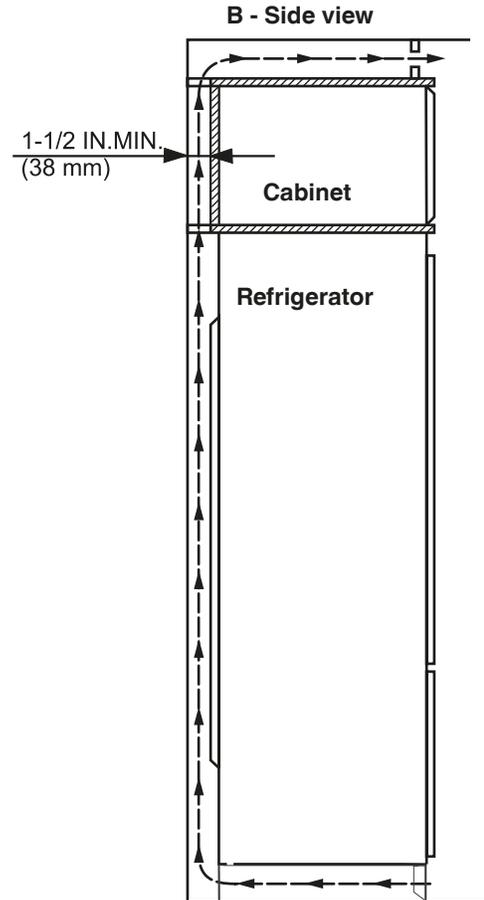
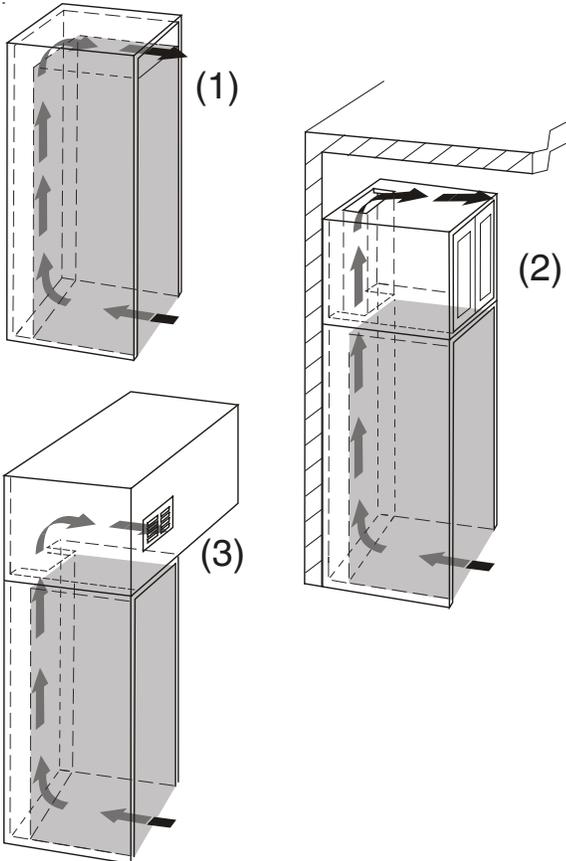
The cabinet height as specified at **80"** (2032 mm) will create a **1-5/16"** (33 mm) gap above the appliance providing optimal air flow over the top of the appliance for its efficient operation.

To have the same air flow for CS 1410 appliances, the cabinet opening height must be **73-3/4"** minimum.

Be sure to consider the possibility of having to raise some of the leveling legs in order to level the appliance when installing. If you adjust the height of the appliance - it will effectively reduce air flow. Therefore leave yourself some room for adjustment.

IMPORTANT

The section between the freezer door and the floor must not be covered.



The refrigerator is designed to allow proper air flow when the appliance is installed up against the wall.

A minimum space of 1 1/2" is required behind the cabinet when venting above an upper cabinet which is installed flush to the top of the appliance.

Freestanding/Semi Built In Models

Ventilation Requirements 36" and 72" (Side by Side) Models

CS/CBS 20 appliances dont need any ventilation openings in the cabinet. The required airflow is directed through the toe kick area.



The cover grill provided with the appliance must be used for the ventilation opening. This grill must not be covered by toe kick or other trim.

R600a Refrigerant

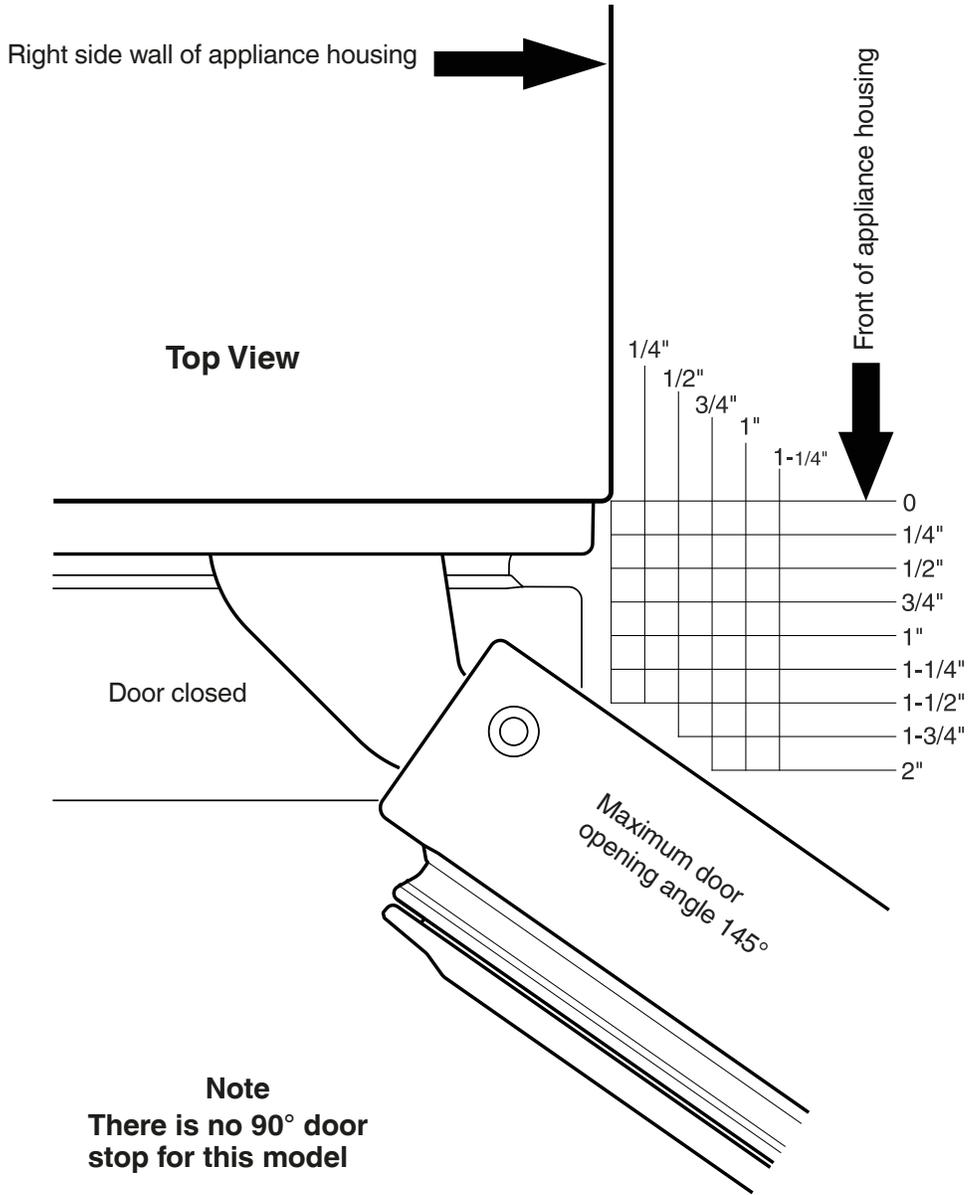
WARNING!

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

To prevent possible ignition, designed ventilation is required.

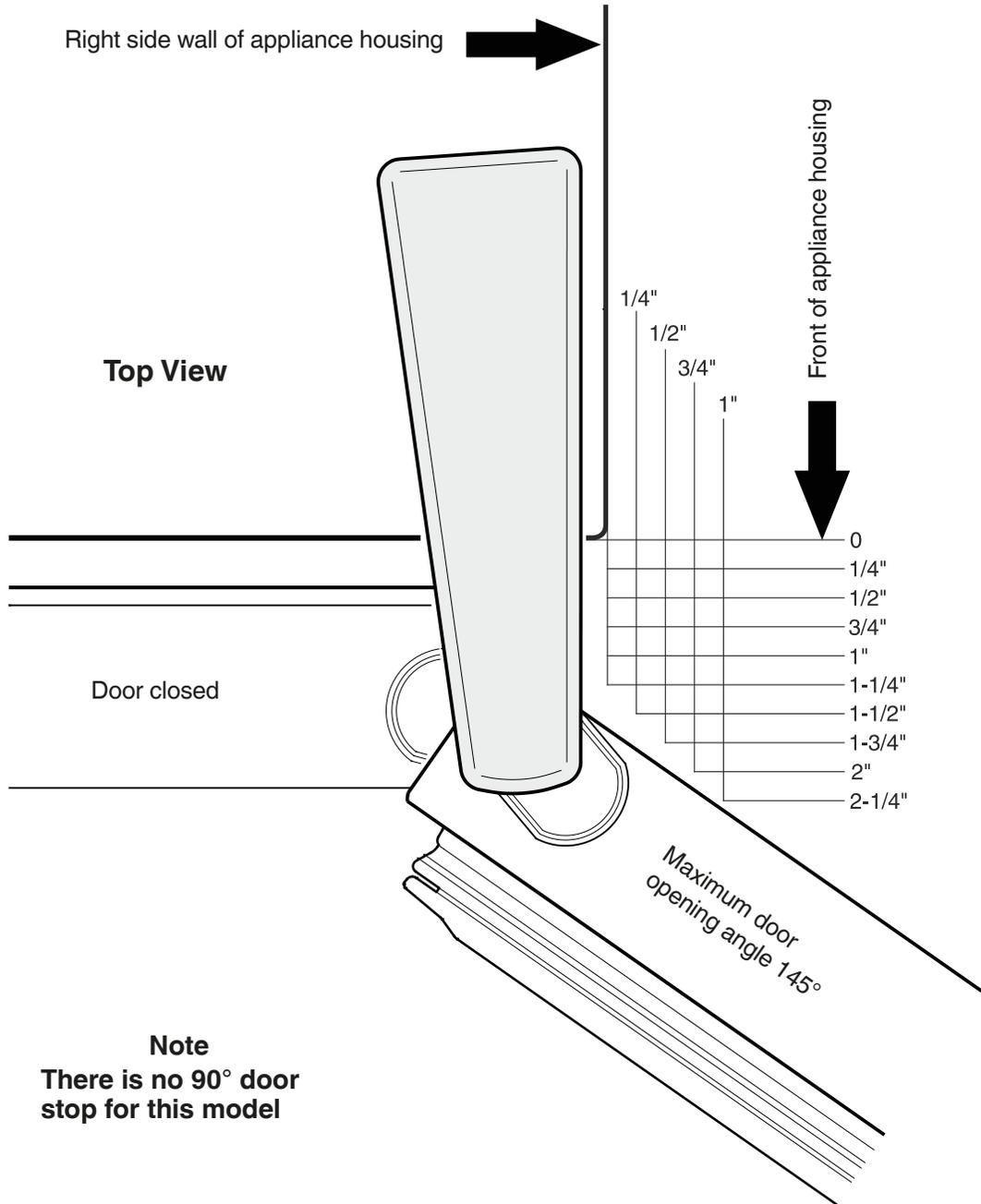
Freestanding/Semi Built In Models

Door Swing Clearance CS 2090, CS 2091



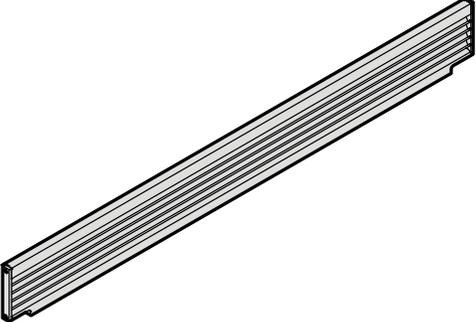
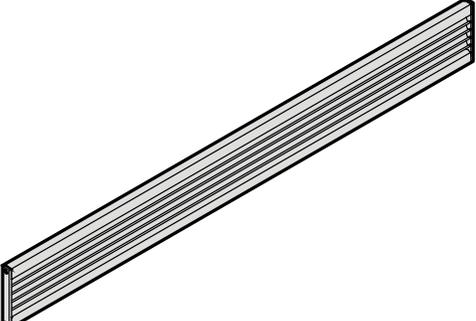
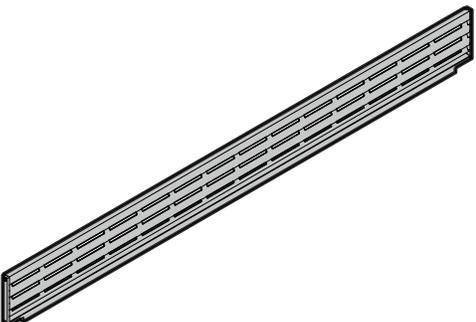
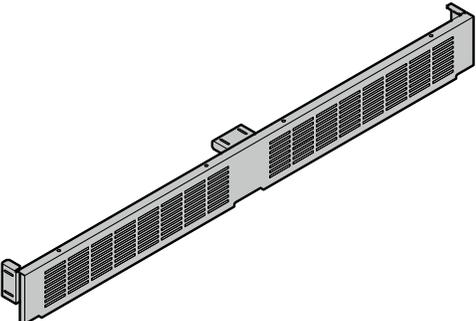
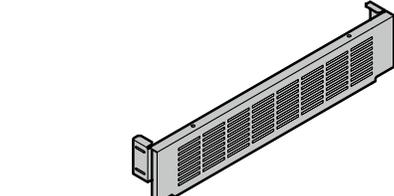
Freestanding/Semi Built In Models

Door Swing Clearance CS 2092, CBS 2092

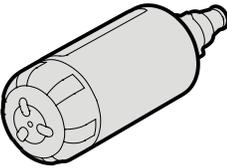
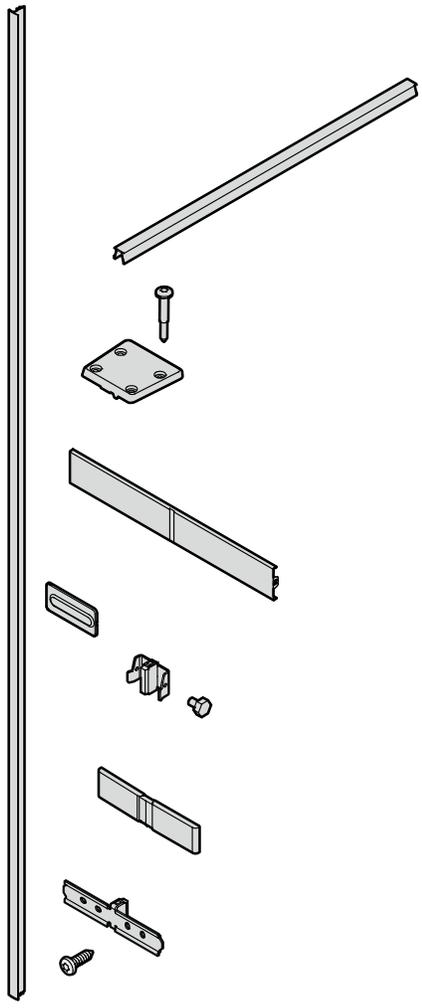


Freestanding/Semi Built In Models

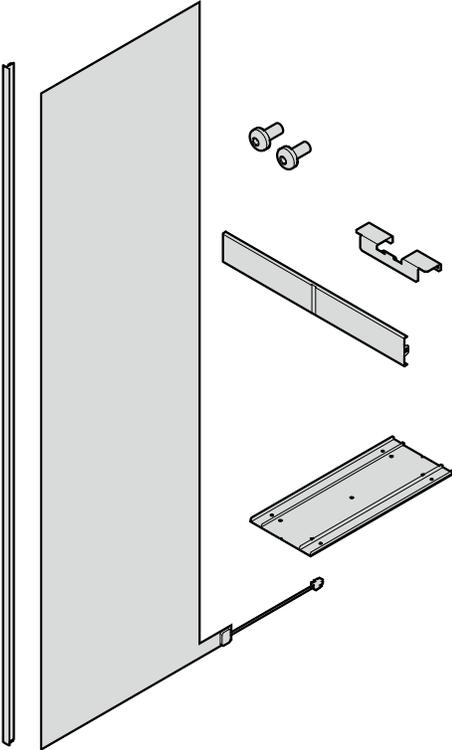
Accessories

Image	Article number	Name of the item	For use with model
	9900 199-00	Decorative grille 84" recess height.	CS 2092 CBS 2092
	9900 277-00	Decorative grille 84" recess height.	CS 2090 CS 2091
	9900 368-00	Top Vent grill 48"	SBS CS 1321 & CBS 1360
	9901 521-00	60" Top Vent Grill from 67" to 72" niche.	SBS of CS 1400R CS 1400R-IM CS 1400PC
	9901 523-00	30" Top Vent Grill from 67" to 72" niche.	CS 1400R CS 1400R-IM CS 1400PC

Freestanding/Semi Built In Models

Image	Article number	Name of the item	For use with model
	7440 002-00	Water filter	CS 2092 CBS 2092 CS 2090 CS 2091
	9901-555-00	SBS-Kit	SBS CS 1321 CBS 1360

Freestanding/Semi Built In Models

Image	Article number	Name of the item	For use with model
	9900-22100	SBS-Kit	SBS CS 2091 & CS 2090



