

INSTALLATION GUIDE

Built-In Refrigeration



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Features and specifications are subject to change at any time without notice. Visit subzero.com/specs for the most up-to-date information.

IMPORTANT NOTE: Throughout this guide, dimensions in parentheses are millimeters unless otherwise specified.

Important Note

To ensure the safe and efficient installation of Sub-Zero equipment, please take note of the following types of highlighted information throughout this guide:

IMPORTANT NOTE highlights information that is especially relevant to a problem-free installation.

CAUTION signals a situation where minor injury or product damage may occur if instructions are not followed.

WARNING states a hazard that may cause serious injury or death if precautions are not followed.



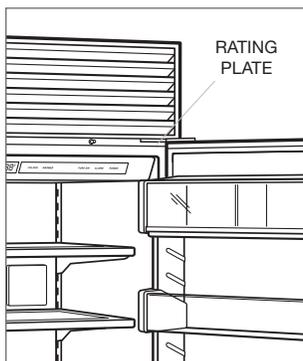
Sub-Zero Built-In Refrigeration

The importance of the installation of the Sub-Zero built-in unit cannot be overemphasized. Installation should be done by a qualified installer.

Before you begin the installation process, it is recommended that you read this entire installation guide. There are key details that you should take special care to observe during the installation. By reading these instructions carefully, you will make the installation process easier, problem-free and most importantly, safe.

Any questions or problems regarding the installation should be directed to your authorized Sub-Zero dealer or Sub-Zero customer care at 800-222-7820. You may also check the contact & support section of our website, subzero.com.

Important product information, including the model and serial numbers of the built-in unit are listed on the product rating plate, located on the top frame of the unit inside the door. Refer to the illustration below.



Location of rating plate.

Before You Start

Make sure that the actual equipment that was shipped to you matches the design you are expecting to install. The Sub-Zero built-in line offers the following design alternatives: framed, overlay, flush inset and stainless steel models.

Each of these design options has specific installation requirements, which means it is vital that the unit match your planning and space needs. Before you begin the installation process, check the exact model number you need against the model number on the shipping carton.

If the unit you receive does not match your requirements, contact your authorized Sub-Zero dealer.

TOOLS AND MATERIALS REQUIRED

- Appliance dolly able to support 700 lbs (317 kg) and adequate manpower to handle the weight of the unit.
- Phillips and slotted screwdrivers.
- Torx drive screwdriver set.
- Allen, standard and crescent wrenches.
- Various sized pliers.
- $\frac{3}{8}$ " hex bolt nut driver.
- Cordless drill and assorted drill bits.
- Level—2' (.6 m) and 4' (1.2 m) recommended.
- 4' (1.2 m) of $\frac{1}{4}$ " copper, braided stainless steel or PEX tubing and saddle valve for water line (do not use self-piercing valves).
- Tubing cutter.
- Masonite, plywood, pressed fiberboard, cardboard or other suitable material to protect finished flooring.
- Appropriate materials to cover and protect the home and furnishings during installation.

Specifications

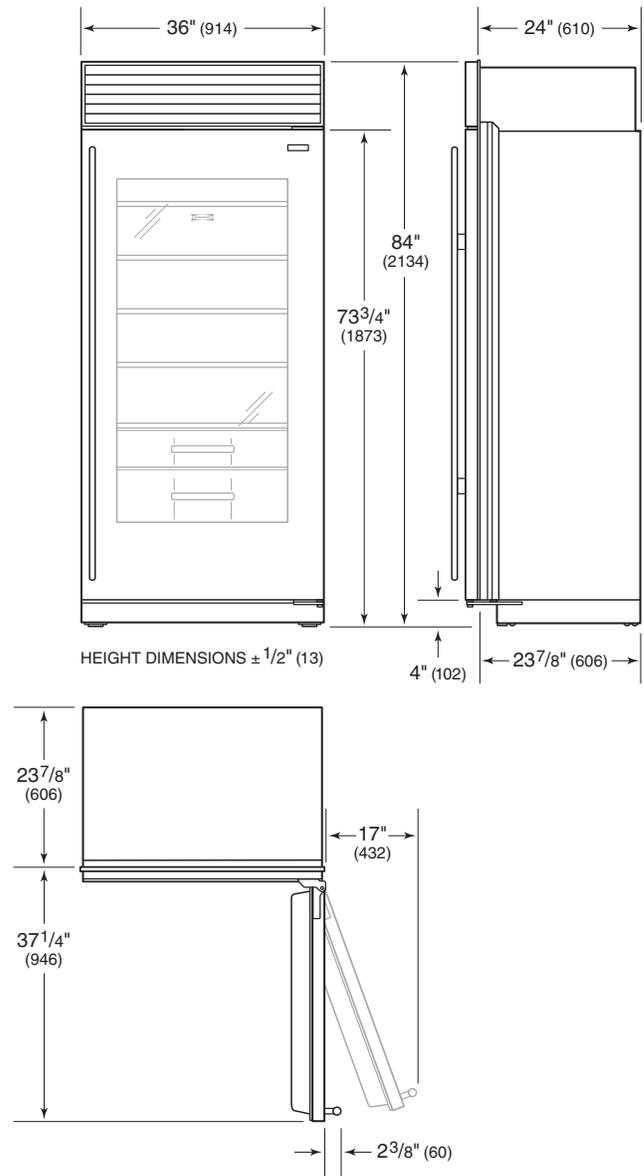
BUILT-IN MODELS

Interior Capacity	R cu ft (L)	F cu ft (L)
ALL REFRIGERATOR / ALL FREEZER MODELS		
BI-36R	23.4 (663)	
BI-36RG	23.2 (657)	
BI-36F		22.8 (646)
OVER-AND-UNDER MODELS		
BI-30U	13.0 (368)	4.1 (116)
BI-30UG	13.0 (368)	4.1 (116)
BI-36U	16.2 (459)	5.3 (150)
BI-36UG	16.1 (456)	5.3 (150)
SIDE-BY-SIDE MODELS		
BI-36S	12.2 (346)	8.0 (227)
BI-42S	16.1 (456)	8.0 (227)
BI-42SID	16.0 (453)	8.0 (227)
BI-42SD	16.0 (453)	8.1 (230)
BI-48S	18.8 (532)	9.5 (269)
BI-48SID	18.7 (530)	9.6 (267)
BI-48SD	18.7 (530)	9.7 (265)

Shipping Weight	lbs (kg)
ALL REFRIGERATOR / ALL FREEZER MODELS	
BI-36R	420 (191)
BI-36RG	430 (195)
BI-36F	406 (184)
OVER-AND-UNDER MODELS	
BI-30U	462 (210)
BI-30UG	476 (216)
BI-36U	515 (234)
BI-36UG	529 (240)
SIDE-BY-SIDE MODELS	
BI-36S	538 (244)
BI-42S	582 (264)
BI-42SID	608 (276)
BI-42SD	608 (276)
BI-48S	630 (286)
BI-48SID	656 (298)
BI-48SD	656 (298)

Overall Dimensions

ALL REFRIGERATOR / ALL FREEZER MODELS

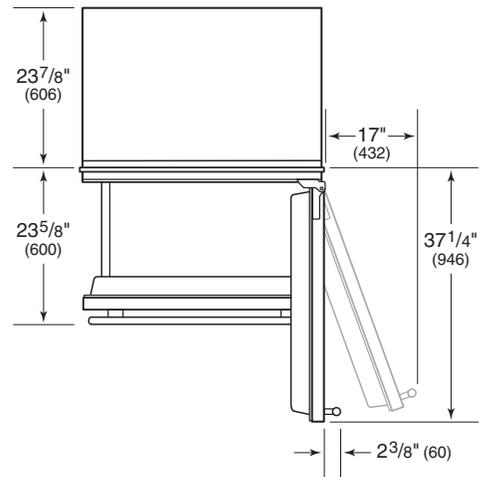
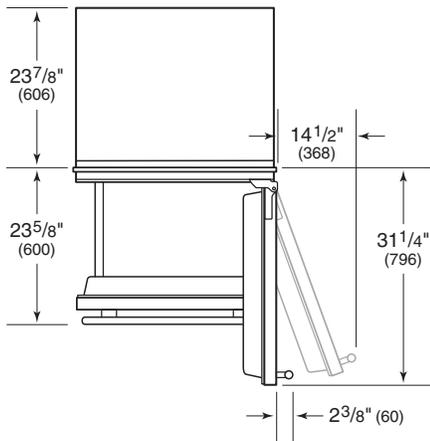
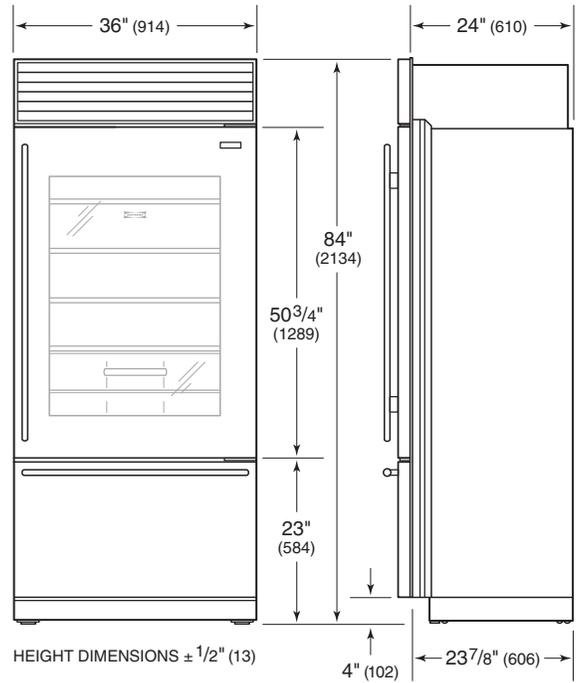
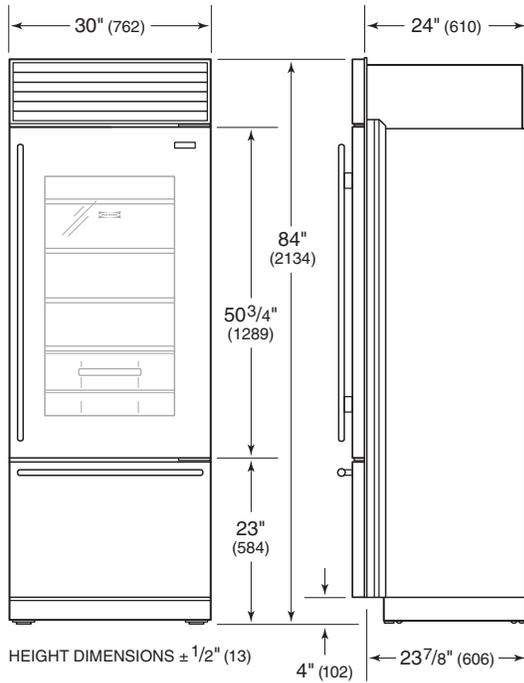


MODELS BI-36R, BI-36RG AND BI-36F

Shipping weights and overall dimensions are based on stainless steel models. For flush inset applications, add 1/2" (13) to door clearance dimensions.

Overall Dimensions

OVER-AND-UNDER MODELS

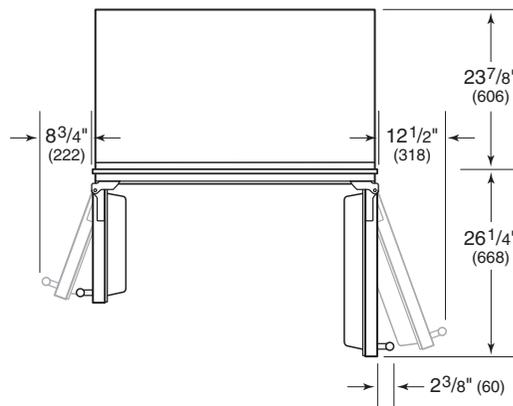
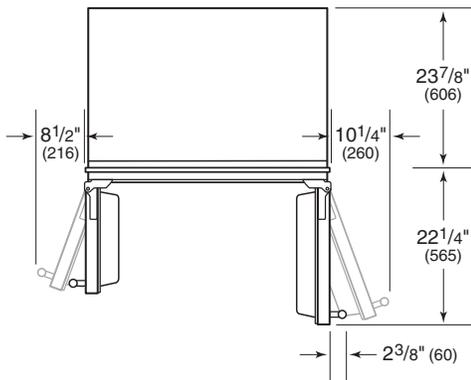
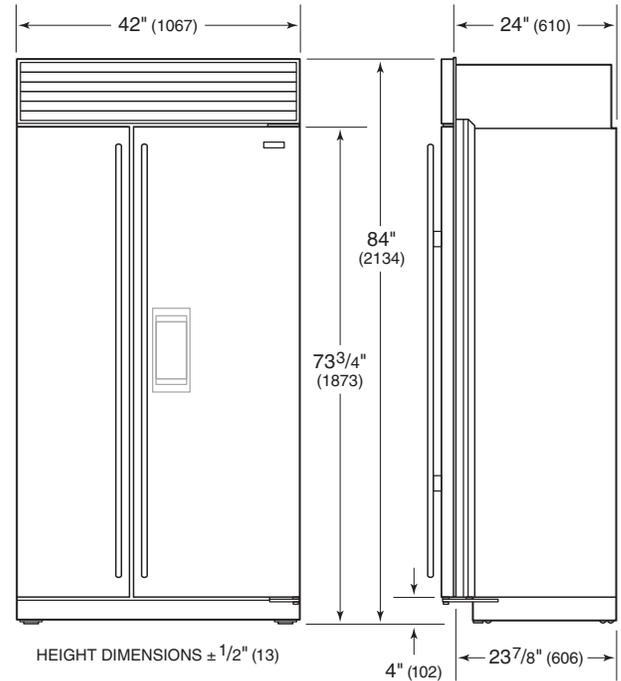
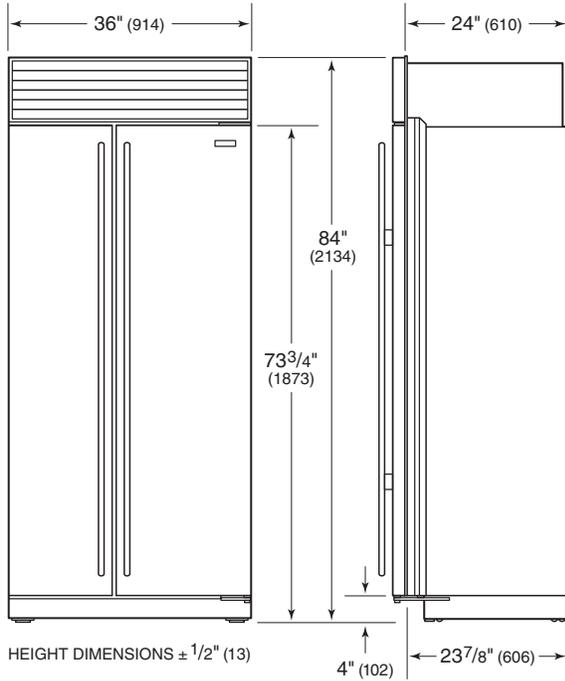


MODELS BI-30U AND BI-30UG

MODELS BI-36U AND BI-36UG

Overall Dimensions

SIDE-BY-SIDE MODELS



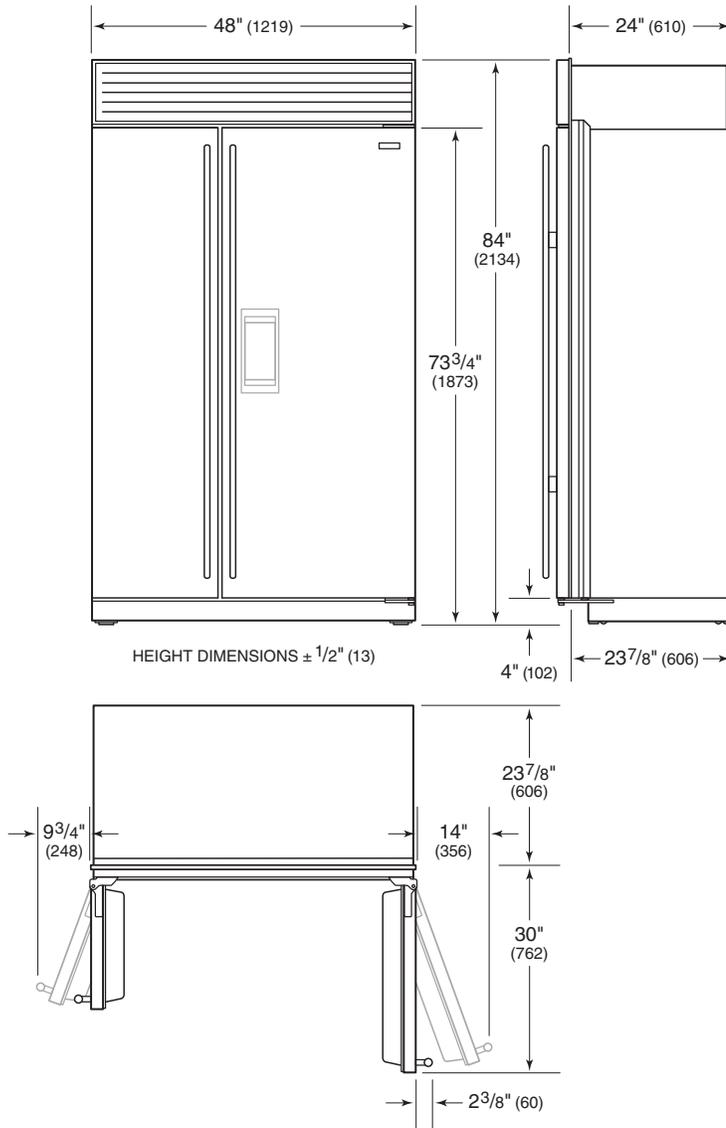
MODEL BI-36S

MODELS BI-42S, BI-42SID AND BI-42SD

Overall dimensions are based on stainless steel models.
 For flush inset applications, add 1/2" (13) to door clearance dimensions.

Overall Dimensions

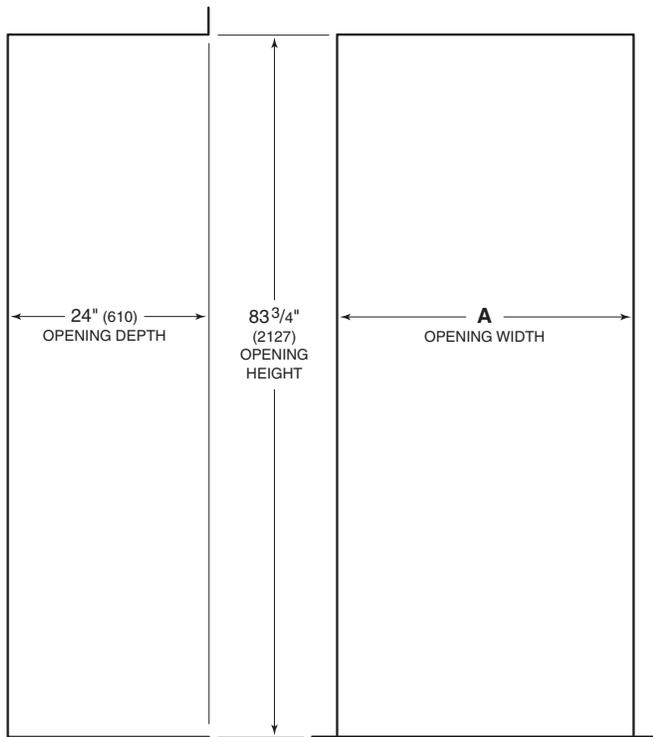
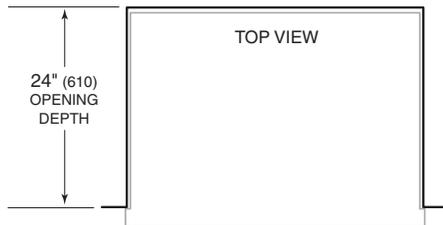
SIDE-BY-SIDE MODELS



MODELS BI-48S, BI-48SID AND BI-48SD

Opening Dimensions

STANDARD INSTALLATION



SIDE VIEW

FRONT VIEW

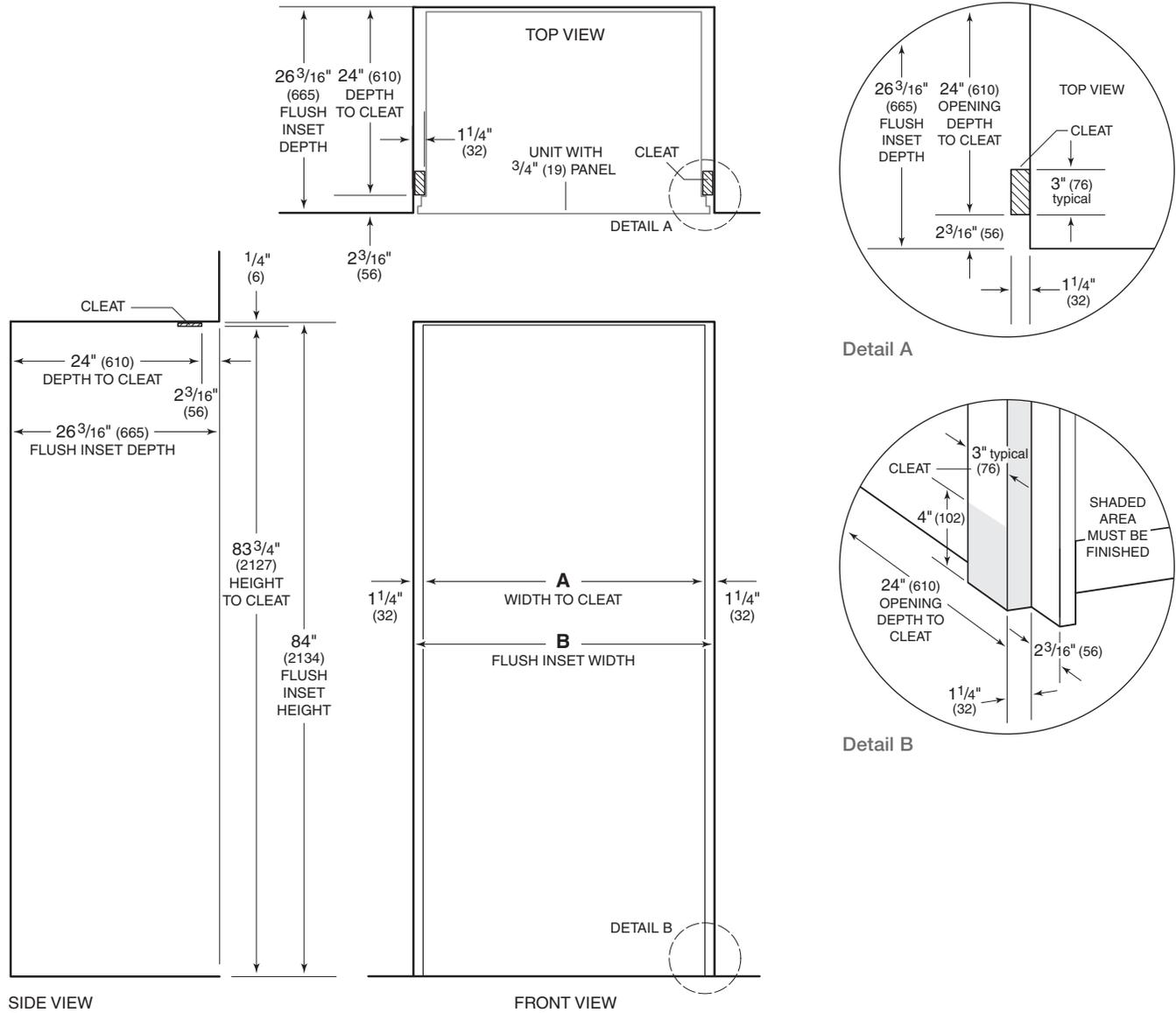
Opening Width	A
BI-36R, BI-36RG and BI-36F	35 ¹ / ₂ " (902)
BI-30U and BI-30UG	29 ¹ / ₂ " (746)
BI-36U and BI-36UG	35 ¹ / ₂ " (902)
BI-36S	35 ¹ / ₂ " (902)
BI-42S, BI-42SID and BI-42SD	41 ¹ / ₂ " (1054)
BI-48S, BI-48SID and BI-48SD	47 ¹ / ₂ " (1206)

IMPORTANT NOTE: If two units are installed side by side, refer to page 10 for dual standard installations.

Stainless steel models are ready to install out of the box.

Opening Dimensions

FLUSH INSET INSTALLATION



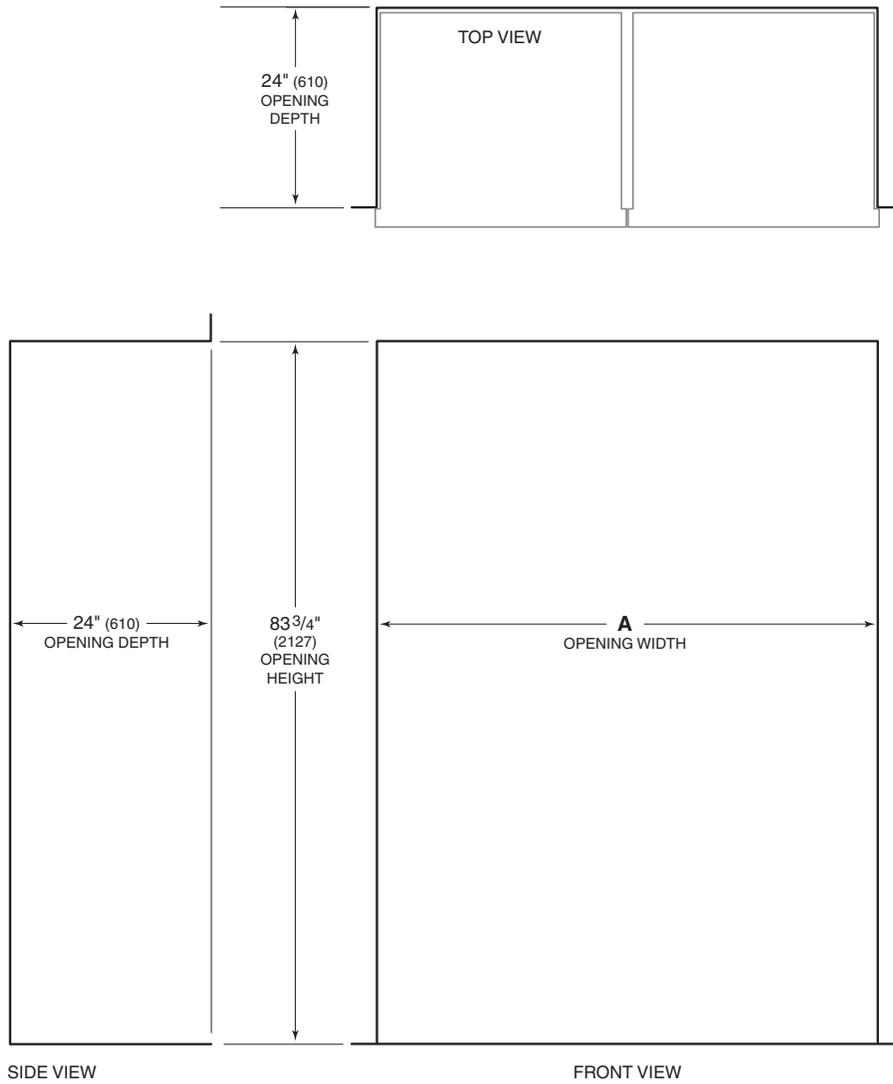
Flush Inset Opening Widths	A	B
BI-36R, BI-36RG and BI-36F	35 1/2" (902)	38" (965)
BI-30U and BI-30UG	29 1/2" (746)	32" (813)
BI-36U and BI-36UG	35 1/2" (902)	38" (965)
BI-36S	35 1/2" (902)	38" (965)
BI-42S, BI-42SID and BI-42SD	41 1/2" (1054)	44" (1118)
BI-48S, BI-48SID and BI-48SD	47 1/2" (1206)	50" (1270)

IMPORTANT NOTE: Dimensions assume a 3/4" (19) panel thickness.

IMPORTANT NOTE: If two units are installed side by side, refer to page 11 for dual flush inset installations.

Dual Installation Opening Dimensions

STANDARD INSTALLATION



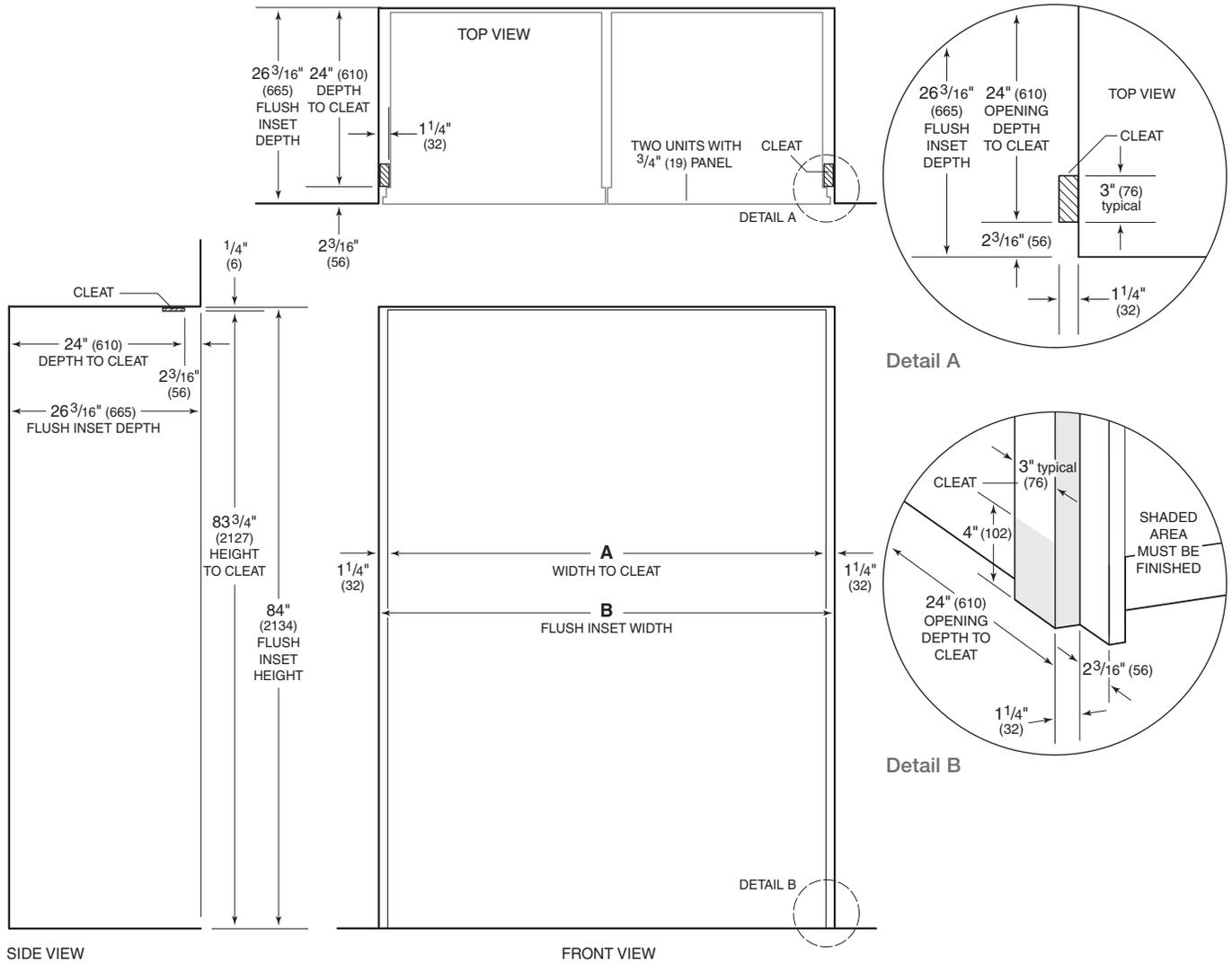
Opening Widths	A
Two 30" (762) Models	59 3/4" (1518)
30" (762) and 36" (914) Models	65 3/4" (1670)
Two 36" (914) Models	71 3/4" (1822)

IMPORTANT NOTE: A dual installation kit will be required for this installation.

Stainless steel models are ready to install out of the box.

Dual Installation Opening Dimensions

FLUSH INSET INSTALLATION



Opening Widths	A	B
Two 30" (762) Models	59 $\frac{3}{4}$ " (1518)	62 $\frac{1}{4}$ " (1581)
30" (762) and 36" (914) Models	65 $\frac{3}{4}$ " (1670)	68 $\frac{1}{4}$ " (1734)
Two 36" (914) Models	71 $\frac{3}{4}$ " (1822)	74 $\frac{1}{4}$ " (1886)

IMPORTANT NOTE: Dimensions assume a $\frac{3}{4}$ " (19) panel thickness. A dual installation kit will be required for this installation.

Site Preparation

Make sure that the finished rough opening where the built-in unit is being installed is properly prepared. Refer to the overall dimensions and installation specifications for your specific model. These specifications are identical for the framed, overlay and stainless steel applications. Installation specifications are different for the flush inset application, whether you are using custom panels or Sub-Zero accessory flush inset panels.

Make sure the opening dimensions, door and drawer clearances, electrical service and plumbing are correct for the model you are about to install. The floor under the unit must be level with the surrounding finished floor.

To operate properly, the door must open a minimum of 90°. Use a minimum 3" (76) filler in corner installations to assure a 90° door opening. Allow enough clearance in front of the unit for full door swing.

If you are installing two built-in units side by side in the framed, overlay, flush inset or stainless steel application, a separating filler strip is recommended. Add the filler strip width to the finished rough opening dimension.

For installation of two built-in units side by side without a filler strip, a dual installation kit will be necessary.

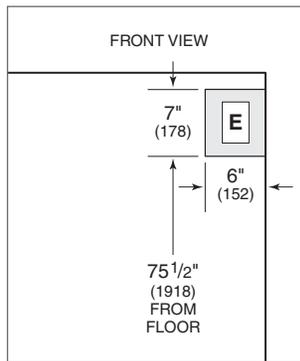
Electrical Requirements

For all built-in models, the electrical supply should be located within the shaded area shown in the illustration. Follow the National Electrical Code and local codes and ordinances when installing the receptacle. A separate circuit, servicing only this appliance is required. A ground fault circuit interrupter (GFCI) is not recommended and may cause interruption of operation.

Electrical Requirements	
Power Supply	115 V AC, 60 Hz
Circuit Breaker	15 amp
Receptacle	3-prong grounding-type

⚠ CAUTION
 The outlet must be checked by a qualified electrician to be sure that it is wired with the correct polarity. Verify that the outlet is properly grounded.

⚠ WARNING
 Do not use an extension cord or two-prong adapter. Do not remove the power supply cord ground prong.



Location of electrical supply.

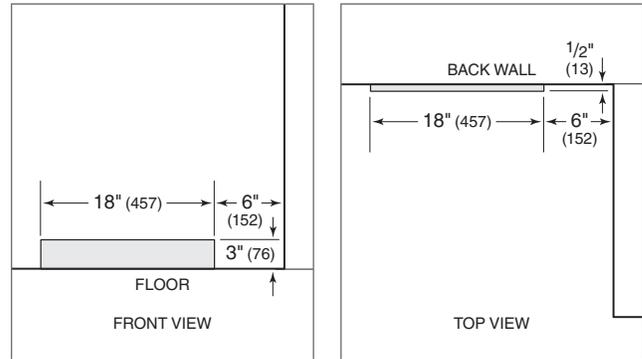
Plumbing Requirements

All built-in models with an automatic ice maker feature a water filtration system that supplies filtered water to the ice maker and water dispenser (dispenser models). The water supply line should be located within the shaded area shown in the illustrations.

The water supply line should be connected to the house supply with an easily accessible shut-off valve between the supply and the unit. Do not use self-piercing valves. A saddle valve kit is available through your authorized Sub-Zero dealer. The water line must not interfere with installation of the anti-tip brackets.

A reverse osmosis system can be used provided there is constant water pressure of 20 psi (1.4 bar) to 120 psi (8.3 bar) supplied to the unit at all times. In this application, the water filtration system must be bypassed. Refer to water filter bypass mode on page 21. A copper line is not recommended for this application.

IMPORTANT NOTE: All installations must meet local plumbing code requirements.



Location of water supply—rear.

Location of water supply—bottom.

Plumbing Requirements	
Water Supply Line	1/4" OD copper, braided stainless steel or PEX tubing
Water Pressure	35–120 psi (2.8–8.2 bar)
Excess Water Line for Connection	36" (914)

Anti-Tip Bracket Installation

⚠ WARNING

To prevent the unit from tipping forward and provide a stable installation, the unit must be secured in place with the anti-tip brackets provided.

IMPORTANT NOTE: Placement of the anti-tip brackets is critical to a stable installation. Failure to properly position the anti-tip brackets will prevent them from engaging the unit.

The two anti-tip brackets must be installed exactly 24" (610) from the front of the rough opening to the back of the brackets and a minimum of 4" (102) from the sides of the rough opening. This depth will increase to 26³/₁₆" (665) for a flush inset installation based on 3/4" (19) deep decorative panels. Proper placement will ensure that the anti-tip brackets engage the anti-tip bar at the back of the unit.

To properly secure the anti-tip brackets for a stable installation, use all anti-tip bracket hardware as instructed for wood or concrete floors.

Anti-Tip Bracket Hardware

2	Anti-tip brackets
12	#12 x 2 ¹ / ₂ " PH pan HD zinc screws
4	3/8"-16 x 3 ³ / ₄ " wedge anchors
12	#12 flat washers
4	#8-18 x 1 ¹ / ₄ " PH truss HD screws
4	Nylon zip-it wall anchors

IMPORTANT NOTE: For either wood or concrete floor applications, if the #12 x 2¹/₂" screws do not hit a wall stud or the wall plate in any of the back holes of the brackets, use the provided #8-18 x 1¹/₄" PH truss HD screws and #12 flat washers with the nylon zip-it wall anchors.

IMPORTANT NOTE: In some installations the subflooring or finished floor may necessitate angling the screws used to fasten the anti-tip brackets to the back wall.

⚠ WARNING

Make sure there are no electrical wires or plumbing in the area which the screws could penetrate.

Anti-Tip Bracket Installation

WOOD FLOOR APPLICATIONS

After properly locating the anti-tip brackets in the rough opening, drill pilot holes $\frac{3}{16}$ " (5) diameter maximum in the wall studs or wall plate. Use the #12 x 2 $\frac{1}{2}$ " PH pan HD zinc screws and #12 flat washers to secure the brackets in place. Make sure the screws penetrate through the flooring material and into wall studs or wall plate a minimum of $\frac{3}{4}$ " (19). Refer to the illustration below.

CONCRETE FLOOR APPLICATIONS

After properly locating the anti-tip brackets in the rough opening, drill pilot holes $\frac{3}{16}$ " (5) diameter maximum in the wall studs or wall plate. Then drill $\frac{3}{8}$ " (10) diameter holes into the concrete a minimum of 1 $\frac{1}{2}$ " (38) deep. Use the #12 x 2 $\frac{1}{2}$ " PH pan HD zinc screws and #12 flat washers to secure the brackets to the wall and use the $\frac{3}{8}$ "-16 x 3 $\frac{3}{4}$ " wedge anchors to secure the brackets to the floor. Make sure the screws penetrate the wall studs or wall plate a minimum of $\frac{3}{4}$ " (19). Refer to the illustration below.

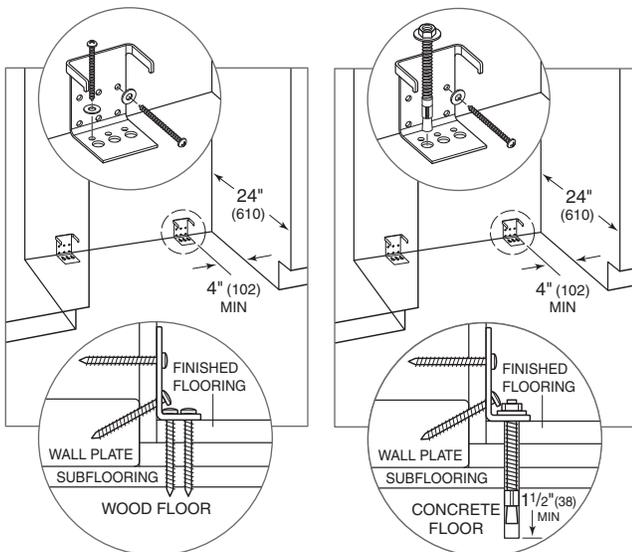
INSTALL CONCRETE WEDGE ANCHORS:

- 1) Drill a $\frac{3}{8}$ " (10) diameter hole any depth exceeding the minimum embedment. Clean the hole or continue drilling additional depth to accommodate drill fines. Use a carbide drill bit manufactured within ANSI B94.12-77.
- 2) Assemble the washer and nut flush with the end of anchor to protect threads. Drive the anchor through the material to be fastened until the washer is flush with the surface material.
- 3) Expand the anchor by tightening the nut 3-5 turns past hand-tight position or to 25 foot-pounds of torque.

⚠ CAUTION

Always wear safety glasses and use other necessary protective devices or apparel when installing or working with anchors.

Anchors are not recommended for use in lightweight masonry material such as block or brick, or for use in new concrete which has not had sufficient time to cure. The use of core drills is not recommended to drill holes for the anchors.



Wood floor.

Concrete floor.

Unpack the Unit

Uncrate the built-in unit and inspect for any damages. Remove the wood base and discard the shipping bolts and brackets that hold the wood base to the bottom of the unit. Remove and discard all packing materials.

IMPORTANT NOTE: Do not discard the kickplate, anti-tip brackets and hardware. These items will be needed for installation.

Retract the front leveling legs all the way up to allow the unit to be moved into position more easily. You will extend the front leveling legs down and make adjustments once the unit is in position.

Remove the drain pan from the base of the unit to avoid damage to the drain pan, and allow for proper placement of the appliance dolly.

Grille Removal

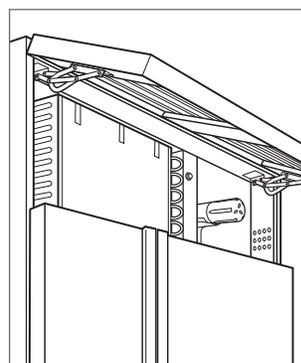
In order to prevent damage to the grille and to access the power cord, the top grille assembly should be removed prior to moving the unit.

To remove the grille assembly, pull out on the bottom edge of the grille and tilt upward. Loosen the back two grille mounting screws and remove the front two grille mounting screws. Refer to the illustrations below. With the grille held firmly, pull forward to remove.

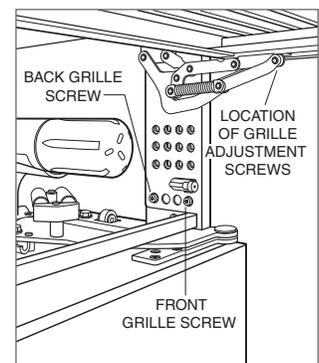
To reinstall the grille, insert the grille into position and make sure the grille catch tabs are engaged. Reinstall the front two grille screws, then retighten the back two grille screws. Check for proper fit.

GRILLE HEIGHT ADJUSTMENT

The grille was designed to rest on the upper door hinge(s) to minimize the reveal between the top of the door and bottom of the grille. To eliminate potential interference of the grille and hinge, the grille height can be adjusted. Loosen the four grille adjustment screws (two on each side) and adjust the grille height as needed. For screw location, refer to the illustration below.



Grille removal.



Grille mounting screws.

Position the Unit

⚠ CAUTION

Before moving the built-in unit into position, secure door(s) closed and protect any finished flooring.

Use an appliance dolly to move the unit near the rough opening. Each built-in unit is equipped with rollers, so it can be moved into position more easily. If possible, keep the door(s) closed until the unit is properly anchored.

The rear levelers must be in their lowest position in order to roll the unit back into the rough opening. Leveling cannot be completed until the unit is in position.

Shut off power to the electrical outlet. Plug the power cord into the grounded outlet and roll the unit into position. Make sure the anti-tip brackets are properly engaged.

IMPORTANT NOTE: If for any reason the unit has been laid on its back or side, you must allow the unit to stand upright for a minimum of 24 hours before connecting power.

IMPORTANT NOTE: If used, side panels will need to be installed before the unit is placed in its final position. Refer to page 35.

Water Line Connection

Approximately 3' (.9 m) of 1/4" plastic tubing is connected to the unit with a preassembled 1/4" compression connection at the end. This tubing is located under the unit.

The water line fitting connection kit, provided with the unit, contains a 1/4" compression union fitting for connection to the household water line. Place the sleeve and nut on the water line and fasten to the connection at the end of the tubing under the unit. Do not over tighten. Check all water line fittings for leaks. Make sure the drain pan can be removed without water line interference.

Purge the water line prior to final connection to the unit. This will remove any debris that may be present in the tubing from installing the new water line.

IMPORTANT NOTE: If a reverse osmosis system used, it is recommended that the water filtration system be bypassed. Refer to water filter bypass mode on page 21.

IMPORTANT NOTE: Let your customer know that the ice maker will not produce ice immediately, and that the first few batches of ice produced should be discarded. Allow 24 hours for proper ice production.

IMPORTANT NOTE: Water lines must not be exposed to freezing temperatures. Exposure could cause damage to the unit and home.

Level the Unit

Once the unit is in position, extend the front leveling legs down by turning the legs clockwise to adjust the height. The rear height adjustment can be made from the front of the base. Use a $\frac{3}{8}$ " socket to adjust the rear rollers. Turn the $\frac{3}{8}$ " hex bolt clockwise to raise the unit or counterclockwise to lower it. Refer to the illustration below for location of the rear roller base adjustment.

When the unit is properly leveled, door and drawer adjustments are less likely to be necessary.

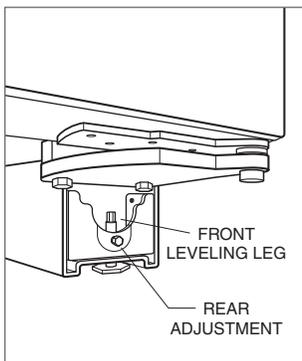
IMPORTANT NOTE: Be sure to reference leveling of the unit to the floor and not surrounding cabinetry. This could affect the operation of the unit, such as door closing.

⚠ WARNING

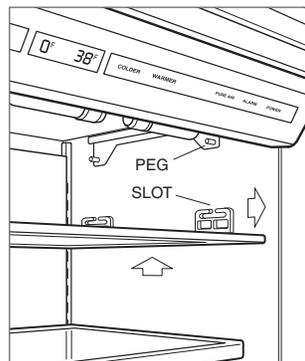
To reduce the possibility of the unit tipping forward, the front leveling legs must be in contact with the floor.

INSTALL LIGHT DIFFUSER

To install, align the slots of the light diffuser onto the bracket pegs under the control panel. Then pull forward fully so the tabs on the slots engage the pegs on the bracket. Refer to the illustration below.



Rear roller base adjustment.



Light diffuser.

Door Adjustment

The doors for built-in side-by-side models and the upper door on over-and-under models can be adjusted in three ways: in and out, side to side tilt, and up and down (except over-and-under models).

Regardless of the adjustment being made, start by slightly loosening the two upper hinge bolts on the upper hinge plate using a $\frac{1}{2}$ " wrench. Refer to the illustration below.

IN AND OUT ADJUSTMENT

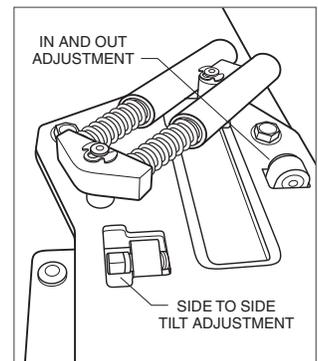
Refer to the illustration below for location of the bolt for in and out door adjustment. To adjust a left-hinge door; using a $\frac{5}{32}$ " allen wrench, turn the bolt clockwise to bring the handle side of the door inward, and counterclockwise to move the handle side of the door outward. Reverse the directions for a right-hinge door.

SIDE TO SIDE TILT ADJUSTMENT

Refer to the illustration below for location of the bolt for side to side tilt door adjustment. To adjust a left-hinge door; using a $\frac{3}{8}$ " wrench, turn the bolt clockwise to raise the handle side of the door up and counterclockwise to tilt the handle side of the door down. Reverse the directions for a right-hinge door.



Upper hinge bolts.

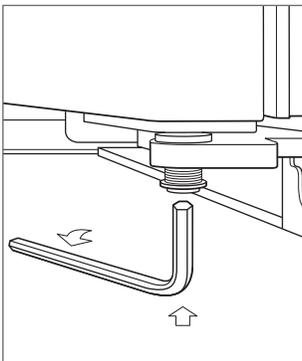


Door adjustment bolts.

Door Adjustment

DOOR HEIGHT ADJUSTMENT

To adjust a left-hinge door; using a 1/4" allen wrench, turn the bolt clockwise to raise the door and counterclockwise to lower the door. Refer to the illustration below. Reverse the directions for a right-hinge door.



Door height adjustment.

Panel Installation

If your customer has ordered either a framed or overlay model, you will be installing door panel(s) to give the unit the custom Sub-Zero look. Before you begin installing panels, refer to the panel specifications for framed, overlay or flush inset applications on pages 22–34, and make sure you are working with the panel design called for in your installation.

IMPORTANT NOTE: For overlay models, there are two design applications, overlay and flush inset. Be sure to use the correct panel sizes for your application.

If your customer has chosen the stainless steel design, the unit has been shipped complete with a finished stainless steel look. It will not be necessary to install door panels or handle hardware. In your final preparation for stainless steel units, use a stainless steel cleaner to remove any marks. Abrasive cleaners should not be used, as they may scratch the surface.

Complete the Installation

ANCHORING

After door and side panels have been installed, the unit has been leveled and door adjustment completed, anchor the built-in unit to the opening. This will assure a proper fit and a secure installation.

IMPORTANT NOTE: Be sure to level and square the unit before anchoring it.

To anchor the top of the unit to cabinetry, open the grille, and install the screws provided through the grille frame into the cabinetry. There are several hole locations provided. Check for proper door clearance by fully opening the door. Refer to the illustration below.

To anchor the bottom of the unit, drive a screw through the side hole inside the roller base assembly. There is one on each side. The screw will need to go in at an angle in order to attach properly. Refer to the illustration below. Additional material may be needed behind the cleat to ensure sufficient anchoring.

⚠ CAUTION
If the screws provided are not suitable for your application, you must provide adequate screws.

INSTALL KICKPLATE

Make sure the drain pan is in the proper position before installing the kickplate. To install, screw the kickplate to brackets attached to the inside surface of each roller base. Refer to the illustration below.

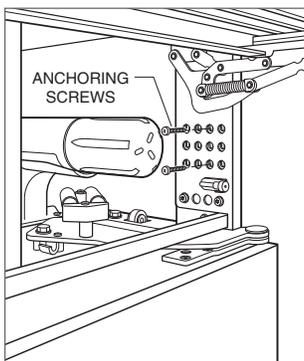
IMPORTANT NOTE: The kickplate must be removable for service. The floor cannot interfere with removal. Refer to the label mounted on the kickplate support for height clearance.

Reinstall the grille following the instructions on page 16. Turn power back on to the electrical outlet.

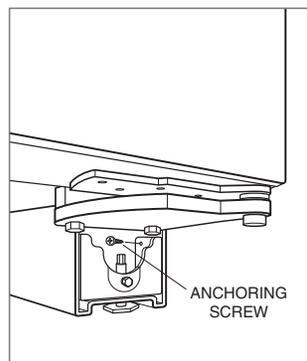
90° DOOR STOP

The doors of all built-in models open to 110°. A 90° door stop is provided with the unit (located behind the grille) for installations where the door opening must be limited. Additional 90° door stop kits are available through your authorized Sub-Zero dealer.

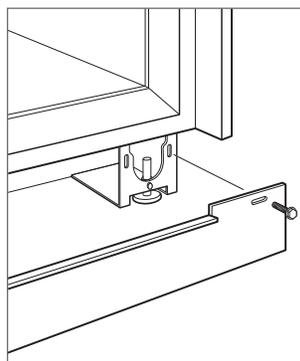
The 90° door stop will be installed in the top hinge. To install, open the door to approximately 90°. At the top of the door, insert the door stop between the door hinge and the door closer arm. Insert the screw through the door stop and into the door as shown in the illustration below.



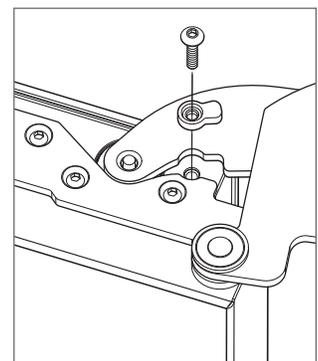
Top anchoring.



Bottom anchoring.



Kickplate installation.



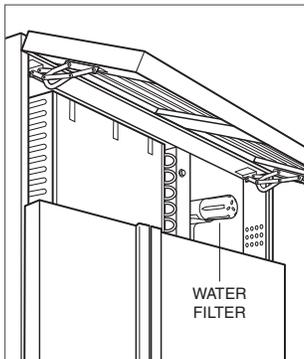
90° door stop.

Water Filtration System

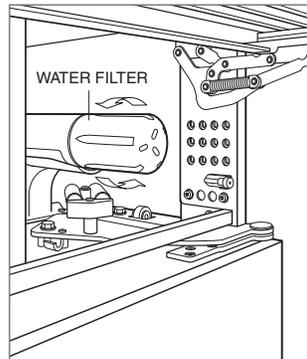
WATER FILTER BYPASS MODE

If you choose not to use the water filtration system, the system can be placed in water filter bypass mode by simply removing the water filter cartridge. Refer to the illustration below for location of the water filter. Follow these steps to remove the water filter cartridge:

- 1) To access the water filter, pull out on the bottom edge of the grille assembly and tilt the grille frame forward.
- 2) To remove the cartridge, simply rotate the cartridge counterclockwise one-quarter turn and pull it out. Refer to the illustration below.



Location of water filter.



Water filter cartridge removal.

Air Purification System

All Sub-Zero built-in units, except model BI-36F, come with an advanced air purification system. A factory installed air purification cartridge is located inside the refrigerator section, on the right-hand side of the back wall. For information regarding use and removal of this cartridge, refer to the built-in use & care guide provided with the unit.

▲ CAUTION

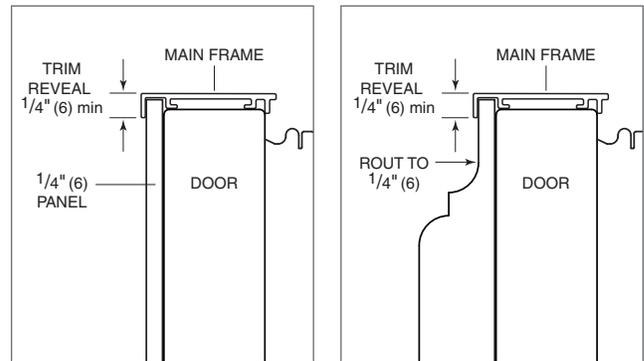
The air purification system complies with applicable Federal requirements regarding incidental exposure to ultraviolet light. Lamp contains mercury. Manage in accordance with disposal laws. Go to earth911.org or call 800-222-7820.

Framed Panels

If your customer has chosen a framed design application, make sure that the panels you are about to install match dimensions listed in the framed panel specifications on pages 24–25. Additional panel design information can be found in the Sub-Zero design guide and on our website, subzero.com.

If the thickness of the custom panel is less than a 1/4" (6), back it up with a sheet of shim material to build the total thickness to a 1/4" (6). If the panel is thicker than a 1/4" (6), rout an edge around the panel to achieve a proper fit. Refer to the illustrations.

IMPORTANT NOTE: On all built-in models, routing, recessing or optional extended handles may be required on raised panels for finger clearance under the handle.



Panels 1/4" (6) thick or less.

Panels thicker than 1/4" (6).

Framed Panel Requirements

MAX WEIGHT PER PANEL

BI-36R, BI-36RG and BI-36F	75 lbs (34 kg)
All Other Framed Models	50 lbs (23 kg)

MIN PANEL THICKNESS

All Framed Panels	1/4" (6)
-------------------	----------

Framed Panels

To install framed panels, the door handle(s) must be removed. To install framed panels, first remove the door trim molding. For side-by-side models and the upper door for over-and-under models, insert a screwdriver tip into the top corner slot on the handle side and pop out the trim molding. Refer to the illustration below.

For the drawer on over-and-under models, insert a screwdriver tip into the slot on either side of the trim molding running along the top of the drawer, and pop out the trim molding. Refer to the illustration below.

With a screwdriver, remove the handles from the freezer and refrigerator doors. Slide the panel into the frame on the door. With the panel in position, replace the handles. Make sure the panel is inserted completely into the channel for proper fit and alignment.

To reinstall the trim molding, insert the top of the trim molding into the grooves at the top of the door and work downward, snapping the trim molding into the clips on the handle.

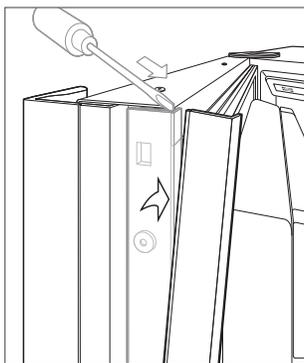
For the drawer on over-and-under models, start at one end and move towards the opposite end, snapping the trim molding into the clips on the handle.

RAISED PANELS

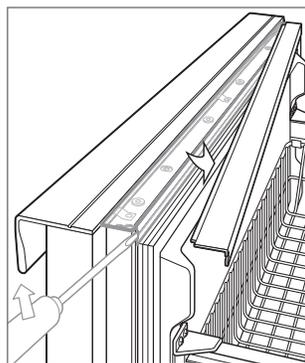
You may have to rout, recess or use optional extended handles with some door panel designs to allow for finger clearance. This is particularly true if your unit has raised panels greater than $\frac{1}{4}$ " (6) total thickness.

IMPORTANT NOTE: Do not exceed the maximum per panel weight for your specific model. Refer to the chart on the previous page.

Check the location of offset when you are using specific routing for the grip area only. Refer to the Sub-Zero design guide for a full-scale template of the standard full-length handle and panel. Use this grid template to lay out your panel design for finger clearance when standard full-length handles are used.

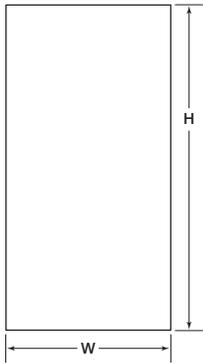


Door trim.

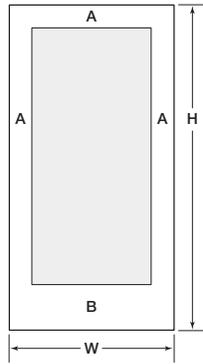


Over-and-under drawer trim.

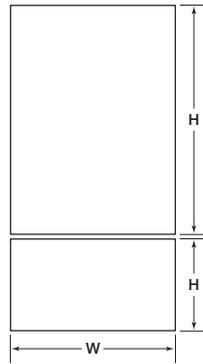
Framed Panel Specifications



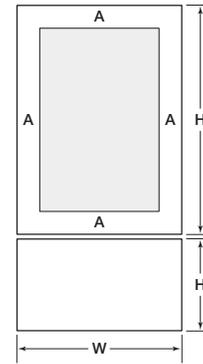
BI-36R / BI-36F



BI-36RG



BI-30U / BI-36U



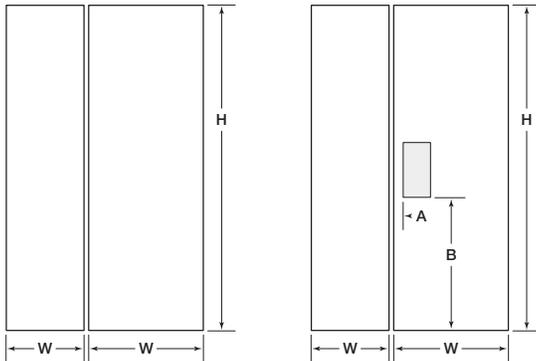
BI-30UG / BI-36UG

Models BI-36R, BI-36RG and BI-36F			
REFRIGERATOR/FREEZER	W	H	
Door Panel	35 ³ / ₄ " (908)	69 ⁹ / ₁₆ " (1767)	
BI-36RG	W	H	
Window Cut-Out	25 ¹ / ₂ " (648)	54 ¹ / ₁₆ " (1373)	
	A	B	
Cut-Out Location	5 ³ / ₁₆ " (132)	10 ⁵ / ₁₆ " (262)	

Models BI-30U and BI-30UG			
REFRIGERATOR	W	H	
Door Panel	29 ³ / ₄ " (756)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER	W	H	
Drawer Panel	29 ³ / ₄ " (756)	18 ¹¹ / ₁₆ " (475)	
BI-30UG	W	H	
Window Cut-Out	19 ¹ / ₂ " (495)	39 ¹¹ / ₁₆ " (1008)	
		A	
Cut-Out Location		5 ³ / ₁₆ " (132)	

Models BI-36U and BI-36UG			
REFRIGERATOR	W	H	
Door Panel	35 ³ / ₄ " (908)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER	W	H	
Drawer Panel	35 ³ / ₄ " (908)	18 ¹¹ / ₁₆ " (475)	
BI-36UG	W	H	
Window Cut-Out	25 ¹ / ₂ " (648)	39 ¹¹ / ₁₆ " (1008)	
		A	
Cut-Out Location		5 ³ / ₁₆ " (132)	

Framed Panel Specifications



BI-36S / BI-42S / BI-42SID BI-42SD / BI-48SD
 BI-48S / BI-48SID

Model BI-36S			
REFRIGERATOR	W	H	
Door Panel	19 ¹³ / ₁₆ " (503)	69 ⁹ / ₁₆ " (1767)	
FREEZER	W	H	
Door Panel	15 ⁷ / ₁₆ " (392)	69 ⁹ / ₁₆ " (1767)	

Models BI-42S, BI-42SID and BI-42SD			
REFRIGERATOR	W	H	
Door Panel	24 ¹³ / ₁₆ " (630)	69 ⁹ / ₁₆ " (1767)	
FREEZER	W	H	
Door Panel	16 ⁷ / ₁₆ " (418)	69 ⁹ / ₁₆ " (1767)	
BI-42SD	W	H	
Dispenser Cut-Out	5 ⁷ / ₈ " (149)	12 ⁷ / ₁₆ " (316)	
Cut-Out Location	A	B	
	1 ⁷ / ₈ " (48)	28 ³ / ₄ " (730)	

Models BI-48S, BI-48SID and BI-48SD			
REFRIGERATOR	W	H	
Door Panel	28 ¹ / ₂ " (724)	69 ⁹ / ₁₆ " (1767)	
FREEZER	W	H	
Door Panel	18 ³ / ₄ " (476)	69 ⁹ / ₁₆ " (1767)	
BI-48SD	W	H	
Dispenser Cut-Out	5 ⁷ / ₈ " (149)	12 ⁷ / ₁₆ " (316)	
Cut-Out Location	A	B	
	1 ⁷ / ₈ " (48)	28 ³ / ₄ " (730)	

For models BI-42SD and BI-48SD, panel thickness in the dispenser area can range from 1/4" (6) to a maximum of 1 1/8" (29). If the panel is thicker, you must rout out a minimum 1/4" (6) flat landing area to accommodate the glasswell bezel.

Overlay Panels

If your customer has chosen an overlay design application, make sure that the panels you are about to install match dimensions listed in the overlay panel specifications on pages 28–29. Additional panel design information can be found in the Sub-Zero design guide and on our website, subzero.com.

IMPORTANT NOTE: The size of the overlay panel is critical. It must fit over the door frame. Also, do not exceed the maximum per panel weight for your specific model. Refer to the chart below.

Overlay models are shipped without handle hardware. The cabinet manufacturer or designer will need to provide handle hardware to match the overall decorating scheme.

To install overlay panels, first remove the door trim molding. For side-by-side models and the upper door for over-and-under models, insert a screwdriver tip into the top corner slot on the handle side and pop out the trim molding. Remove the screws and frame. For the drawer on over-and-under models, insert a screwdriver tip into the slot on either side of the trim molding running along the top of the drawer and pop out the trim molding. Remove the screws and frame. Refer to the illustrations on page 23.

Sub-Zero allows a 1/4" (6) space to slide the backing material into place in the frame. If your material is thicker than a 1/4" (6), either rout an edge around the panel to get a proper fit or mount the decorative overlay panel on a sheet of 1/4" (6) thick material and insert the backing material into the channel.

Overlay Panel Requirements	
MAX WEIGHT PER PANEL	
BI-36R, BI-36RG and BI-36F	75 lbs (34 kg)
All Other Overlay Models	50 lbs (23 kg)
Grille Panel	13 lbs (6 kg)
MIN PANEL THICKNESS	
All Overlay Panels	5/8" (16)

You must allow for .10" (3) space between the backer board and the decorative panel, so the panel will slide easily into the door frame.

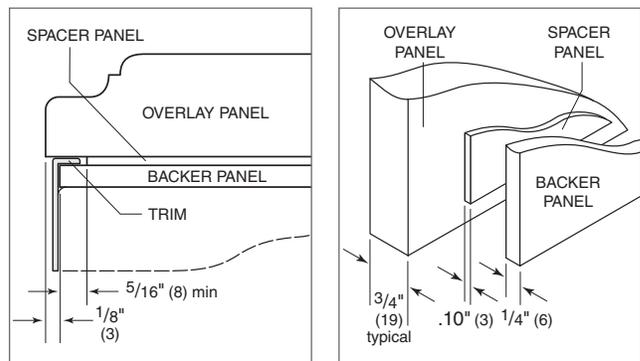
The illustrations below provide a cross section view of the three-panel assembly, showing placement of the trim and a rear view of the three-panel assembly with critical dimensions, standard for all built-in models.

Install the handle hardware before inserting the panel. We recommend larger D-style pulls. The use of small, one-piece knobs is not recommended. If you use screws with thick heads, you will need to countersink the screws into the backer panel before sliding the assembly into place.

Slide the panel into the frame on the door. With the panel in position, replace the frame end. Make sure the panel is inserted completely into the channel for proper fit and alignment.

To reinstall the trim molding on side-by-side models and the upper door for over-and-under models, insert the top of the trim molding into the grooves at the top of the door and work downward, snapping the trim molding into the clips on the frame.

For the drawer on over-and-under models, start at one end and move towards the opposite end, snapping the trim molding into the clips on the frame.



Panel assembly cross section.

Panel assembly rear view.

Overlay Panels

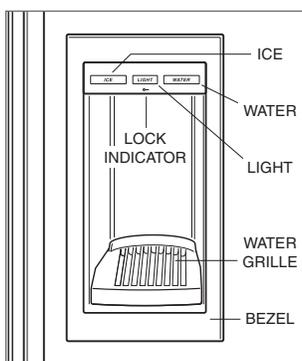
MODELS BI-42SD AND BI-48SD

The dispenser area of models BI-42SD and BI-48SD has been engineered to enable the use of the overlay or flush inset panel application. Installing overlay or flush inset panels for these models is the same procedure as for other built-in models. The refrigerator door panel will need to accommodate a cut-out for the glasswell bezel.

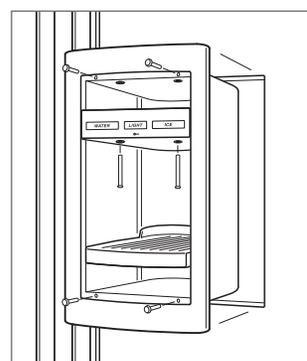
To remove the glasswell bezel for an overlay or flush inset model BI-42SD or BI-48SD, the water grille and touch pad must be removed. Lift the water grille up and out. Next, remove the touch pad assembly by removing the center plastic mandrel supports. Carefully tilt the touch pad out and disconnect the wire harness (blue side up) from the back side of the touch pad. Remove the bezel by removing the four screws.

Insert the overlay or flush inset panel into the door trim. Reverse the procedure to install the bezel, touch pad and water grille. To install the plastic rivets, insert rivets through the touch pad and into the control housing and secure by pressing mandrels into the body of the rivets. Refer to the illustrations below.

IMPORTANT NOTE: The total panel thickness (including backer and spacer, if used) in the glasswell bezel area can range from 1/4" (6) to a maximum of 1 1/8" (29). If the panel is thicker, provisions must be made to rout out a space to accommodate the bezel surrounding the glasswell.



Dispenser glasswell bezel.



Glasswell bezel removal.

GRILLE PANEL ASSEMBLY

Remove the grille panel assembly as described on page 16. Remove the top two corner screws and pull away the top frame. Slide the panel into position in the grille frame. If you are using a grille panel 1/4" (6) or thinner, you will need to install a filler.

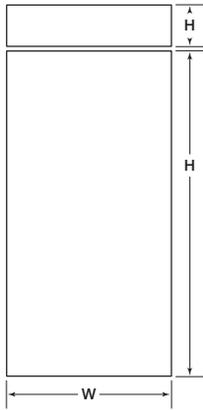
Reattach the top frame by reinstalling the two top corner screws. Install the grille panel assembly onto the unit, by reversing the grille removal procedure outlined on page 16.

Refer to specifications for overlay grille panels on pages 28–29 and the illustrations on the previous page for the exact sizing of all three panels.

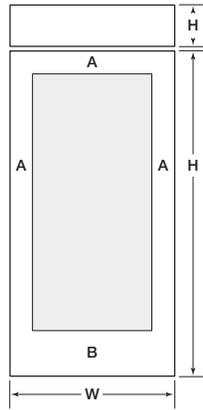
▲ CAUTION

Do not exceed the panel dimensions listed for the appropriate overlay grille panel you are specifying. The overlay decorative panel cannot be any larger or it may restrict the air flow to the compressor area and cause problems with the operation of the Sub-Zero unit.

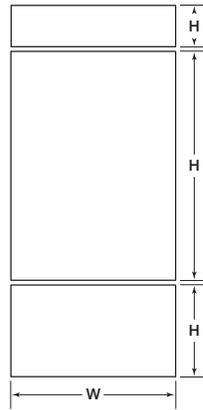
Overlay Panel Specifications



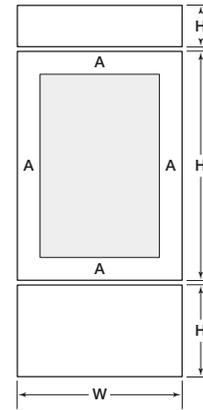
BI-36R / BI-36F



BI-36RG



BI-30U / BI-36U



BI-30UG / BI-36UG

Models BI-36R, BI-36RG and BI-36F			
REFRIGERATOR / FREEZER	W	H	
Overlay Panel	36" (914)	69 ³ / ₄ " (1772)	
Spacer Panel	35 ¹ / ₈ " (892)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	35 ³ / ₄ " (908)	69 ⁹ / ₁₆ " (1767)	
GRILLE	W	H	
Overlay Panel	36" (914)	9 ¹ / ₄ " (235)*	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	
BI-36RG	W	H	
Window Cut-Out	25 ¹ / ₂ " (648)	54 ¹ / ₈ " (1375)	
	A	B	
Cut-Out Location	5 ¹ / ₄ " (133)	10 ³ / ₈ " (264)	

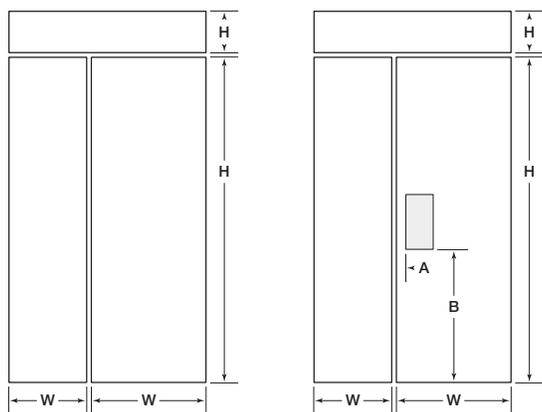
Models BI-30U and BI-30UG			
REFRIGERATOR	W	H	
Overlay Panel	30" (762)	50 ¹ / ₈ " (1273)	
Spacer Panel	29 ¹ / ₈ " (740)	49 ⁵ / ₁₆ " (1253)	
Backer Panel	29 ³ / ₄ " (756)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER	W	H	
Overlay Panel	30" (762)	19" (483)	
Spacer Panel	29 ¹ / ₈ " (740)	18 ¹ / ₁₆ " (459)	
Backer Panel	29 ³ / ₄ " (756)	18 ¹¹ / ₁₆ " (475)	
GRILLE	W	H	
Overlay Panel	30" (762)	9 ¹ / ₄ " (235)*	
Spacer Panel	29 ¹ / ₈ " (740)	8 ⁵ / ₁₆ " (211)	
Backer Panel	29 ³ / ₄ " (756)	8 ¹⁵ / ₁₆ " (227)	
BI-30UG	W	H	
Window Cut-Out	19 ¹ / ₂ " (495)	39 ⁵ / ₈ " (1006)	
		A	
Cut-Out Location		5 ¹ / ₄ " (133)	

Models BI-36U and BI-36UG			
REFRIGERATOR	W	H	
Overlay Panel	36" (914)	50 ¹ / ₈ " (1273)	
Spacer Panel	35 ¹ / ₈ " (892)	49 ⁵ / ₁₆ " (1253)	
Backer Panel	35 ³ / ₄ " (908)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER	W	H	
Overlay Panel	36" (914)	19" (483)	
Spacer Panel	35 ¹ / ₈ " (892)	18 ¹ / ₁₆ " (459)	
Backer Panel	35 ³ / ₄ " (908)	18 ¹¹ / ₁₆ " (475)	
GRILLE	W	H	
Overlay Panel	36" (914)	9 ¹ / ₄ " (235)*	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	
BI-36UG	W	H	
Window Cut-Out	25 ¹ / ₂ " (648)	39 ⁵ / ₈ " (1006)	
		A	
Cut-Out Location		5 ¹ / ₄ " (133)	

*Panel height may be increased by 1/2" (13) to hide upper main frame. For more information, refer to the built-in panel configurator at subzero.com/trade/panels.

Grille panel dimensions listed are for a standard 84" (2134) finished height. For an 83" (2108) finished height, subtract 1" (25) from grille panel height dimensions. For an 88" (2235) finished height, add 4" (102) to height dimensions. An 83" (2108) or 88" (2235) panel grille must be ordered to accept an 83" (2108) or 88" (2235) custom panel. Width dimensions do not vary.

Overlay Panel Specifications



BI-36S / BI-42S / BI-42SID BI-42SD / BI-48SD
BI-48S / BI-48SID

Model BI-36S			
	W	H	
REFRIGERATOR			
Overlay Panel	20 ¹ / ₁₆ " (51)	69 ³ / ₄ " (1772)	
Spacer Panel	19 ³ / ₁₆ " (487)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	19 ¹³ / ₁₆ " (503)	69 ⁹ / ₁₆ " (1767)	
FREEZER			
Overlay Panel	15 ¹¹ / ₁₆ " (398)	69 ³ / ₄ " (1772)	
Spacer Panel	14 ¹³ / ₁₆ " (376)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	15 ⁷ / ₁₆ " (392)	69 ⁹ / ₁₆ " (1767)	
GRILLE			
Overlay Panel	36" (914)	9 ¹ / ₄ " (235)*	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	

Models BI-42S, BI-42SID and BI-42SD			
	W	H	
REFRIGERATOR			
Overlay Panel	25 ¹ / ₁₆ " (637)	69 ³ / ₄ " (1772)	
Spacer Panel	24 ³ / ₁₆ " (614)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	24 ¹³ / ₁₆ " (630)	69 ⁹ / ₁₆ " (1767)	
FREEZER			
Overlay Panel	16 ¹¹ / ₁₆ " (424)	69 ³ / ₄ " (1772)	
Spacer Panel	15 ¹³ / ₁₆ " (402)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	16 ⁷ / ₁₆ " (418)	69 ⁹ / ₁₆ " (1767)	
GRILLE			
Overlay Panel	42" (1067)	9 ¹ / ₄ " (235)*	
Spacer Panel	41 ¹ / ₈ " (1045)	8 ⁵ / ₁₆ " (211)	
Backer Panel	41 ³ / ₄ " (1060)	8 ¹⁵ / ₁₆ " (227)	
BI-42SD			
Dispenser Cut-Out	5 ⁷ / ₈ " (149)	12 ⁷ / ₁₆ " (316)	
	A	B	
Cut-Out Location	2" (51)	28 ¹³ / ₁₆ " (732)	

Models BI-48S, BI-48SID and BI-48SD			
	W	H	
REFRIGERATOR			
Overlay Panel	28 ³ / ₄ " (730)	69 ³ / ₄ " (1772)	
Spacer Panel	27 ⁷ / ₈ " (708)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	28 ¹ / ₂ " (724)	69 ⁹ / ₁₆ " (1767)	
FREEZER			
Overlay Panel	19" (483)	69 ³ / ₄ " (1772)	
Spacer Panel	18 ¹ / ₈ " (460)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	18 ³ / ₄ " (476)	69 ⁹ / ₁₆ " (1767)	
GRILLE			
Overlay Panel	48" (1219)	9 ¹ / ₄ " (235)*	
Spacer Panel	47 ¹ / ₈ " (1197)	8 ⁵ / ₁₆ " (211)	
Backer Panel	47 ³ / ₄ " (1213)	8 ¹⁵ / ₁₆ " (227)	
BI-48SD			
Dispenser Cut-Out	5 ⁷ / ₈ " (149)	12 ⁷ / ₁₆ " (316)	
	A	B	
Cut-Out Location	2" (51)	28 ¹³ / ₁₆ " (732)	

*Panel height may be increased by 1/2" (13) to hide upper main frame. For more information, refer to the built-in panel configurator at subzero.com/trade/panels.

Grille panel dimensions listed are for a standard 84" (2134) finished height. For an 83" (2108) finished height, subtract 1" (25) from grille panel height dimensions. For an 88" (2235) finished height, add 4" (102) to height dimensions. An 83" (2108) or 88" (2235) panel grille must be ordered to accept an 83" (2108) or 88" (2235) custom panel. Width dimensions do not vary.

Flush Inset Panels

If your customer has chosen the flush inset panel application, make sure that the panels you are about to install match dimensions listed in the flush inset panel specifications on pages 32–33. Additional panel design information can be found in the Sub-Zero design guide and on our website, subzero.com.

IMPORTANT NOTE: The size of the flush inset panel is critical. It must be sized correctly for a proper fit inside the opening.

Overlay models are shipped without handle hardware. The cabinet manufacturer or designer will provide handle hardware at the job site to match the overall decorating scheme.

To install flush inset panels, first remove the door trim molding. For side-by-side models and the upper door for over-and-under models, insert a screwdriver tip into the top corner slot on the handle side and pop out the trim molding. Remove the screws and frame. For the drawer on over-and-under models, insert a screwdriver tip into the slot on either side of the trim molding running along the top of the drawer, and pop out the trim molding. Remove the screws and frame. Refer to the illustrations on page 23.

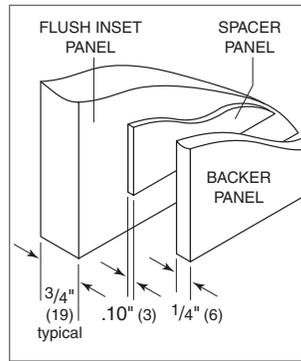
Flush Inset Panel Requirements	
MAX WEIGHT PER PANEL	
BI-36R, BI-36RG and BI-36F	75 lbs (34 kg)
All Other Flush Inset Models	50 lbs (23 kg)
Grille Panel	13 lbs (6 kg)
MIN PANEL THICKNESS	
All Flush Inset Panels	5/8" (16)

Sub-Zero allows a 1/4" (6) space to slide the backing material into place in the frame. If your material is thicker than a 1/4" (6), either rout an edge around the panel to get a proper fit or mount the decorative flush inset panel on a sheet of 1/4" (6) thick material and insert the backing material into the channel.

You must allow for 0.10" (3) space between the backer board and the decorative panel, so the panel will slide easily into the door frame.

The illustration below provides a rear view of the three-panel assembly with critical dimensions, standard for all built-in models.

IMPORTANT NOTE: With the panels installed, 1/2" (13) minimum reveals must be kept on all sides to ensure proper door opening and sufficient cooling of the unit.



Three-panel assembly.

Flush Inset Panels

Install the handle hardware before inserting the panel. Sub-Zero recommends using larger D-style pulls. The use of small, one-piece knobs is not recommended. If you use screws with thick heads, you will need to countersink the screws into the backer panel before sliding the assembly into place.

Slide the panel into the frame on the door. With the panel in position, replace the frame end. Make sure the panel is inserted completely into the channel for proper fit and alignment.

To reinstall the trim molding on side-by-side models and the upper door for over-and-under models, insert the top of the trim molding into the grooves at the top of the door and work downward, snapping the trim molding into the clips on the frame.

For the drawer on over-and-under models, start at one end and move towards the opposite end, snapping the trim molding into the clips on the frame.

GRILLE PANEL ASSEMBLY

Remove the grille panel assembly as described on page 16. Remove the top two corner screws and pull away the top frame. Slide the panel into position in the grille frame. If you are using a grille panel $\frac{1}{4}$ " (6) or thinner, you will need to install a filler.

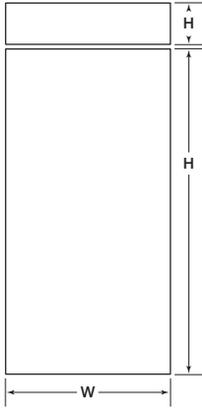
Reattach the top frame by reinstalling the two top corner screws. Install the inner grille panel assembly onto the unit, by reversing the grille removal procedure outlined on page 16.

Refer to specifications for flush inset grille panels on pages 32–33 and the illustrations on the previous page for the exact sizing of all three panels.

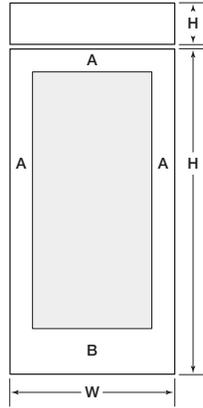
▲ CAUTION

Do not exceed the panel dimensions listed for the appropriate flush inset grille panel you are specifying. The flush inset decorative panel cannot be any larger or it may restrict the air flow to the compressor area and cause problems with the operation of the Sub-Zero unit.

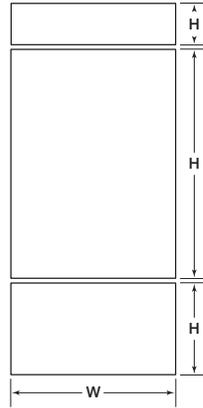
Flush Inset Panel Specifications



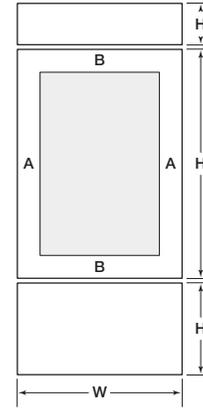
BI-36R / BI-36F



BI-36RG



BI-30U / BI-36U



BI-30UG / BI-36UG

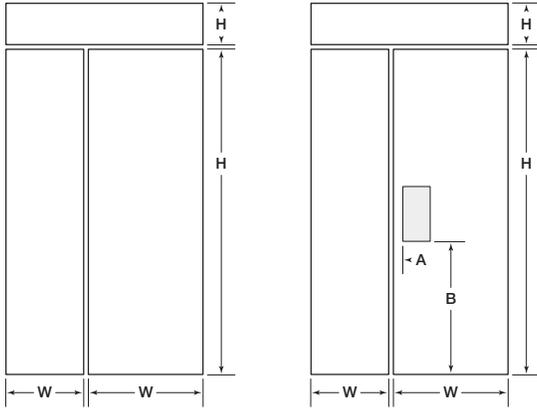
Models BI-36R, BI-36RG and BI-36F			
REFRIGERATOR / FREEZER		W	H
Flush Inset Panel	37" (940)	69 ³ / ₄ " (1772)	
Spacer Panel	35 ¹ / ₈ " (892)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	35 ³ / ₄ " (908)	69 ⁹ / ₁₆ " (1767)	
GRILLE		W	H
Flush Inset Panel	37" (940)	9 ¹ / ₄ " (235)	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	
BI-36RG		W	H
Window Cut-Out	25 ¹ / ₂ " (648)	54 ¹ / ₈ " (1375)	
	A	B	
Cut-Out Location	5 ³ / ₄ " (146)	10 ³ / ₈ " (264)	

Models BI-30U and BI-30UG			
REFRIGERATOR		W	H
Flush Inset Panel	31" (787)	50 ¹ / ₈ " (1273)	
Spacer Panel	29 ¹ / ₈ " (740)	49 ⁵ / ₁₆ " (1253)	
Backer Panel	29 ³ / ₄ " (756)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER		W	H
Flush Inset Panel	31" (787)	19" (483)	
Spacer Panel	29 ¹ / ₈ " (740)	18 ¹ / ₁₆ " (459)	
Backer Panel	29 ³ / ₄ " (756)	18 ¹¹ / ₁₆ " (475)	
GRILLE		W	H
Flush Inset Panel	31" (787)	9 ¹ / ₄ " (235)	
Spacer Panel	29 ¹ / ₈ " (740)	8 ⁵ / ₁₆ " (211)	
Backer Panel	29 ³ / ₄ " (756)	8 ¹⁵ / ₁₆ " (227)	
BI-30UG		W	H
Window Cut-Out	19 ¹ / ₂ " (495)	39 ⁵ / ₈ " (1006)	
	A	B	
Cut-Out Location	5 ³ / ₄ " (146)	5 ¹ / ₄ " (133)	

Models BI-36U and BI-36UG			
REFRIGERATOR		W	H
Flush Inset Panel	37" (940)	50 ¹ / ₈ " (1273)	
Spacer Panel	35 ¹ / ₈ " (892)	49 ⁵ / ₁₆ " (1253)	
Backer Panel	35 ³ / ₄ " (908)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER		W	H
Flush Inset Panel	37" (940)	19" (483)	
Spacer Panel	35 ¹ / ₈ " (892)	18 ¹ / ₁₆ " (459)	
Backer Panel	35 ³ / ₄ " (908)	18 ¹¹ / ₁₆ " (475)	
GRILLE		W	H
Flush Inset Panel	37" (940)	9 ¹ / ₄ " (235)	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	
BI-36UG		W	H
Window Cut-Out	25 ¹ / ₂ " (648)	39 ⁵ / ₈ " (1006)	
	A	B	
Cut-Out Location	5 ³ / ₄ " (146)	5 ¹ / ₄ " (133)	

Grille panel dimensions listed are for a standard 84" (2134) finished height. For an 83" (2108) finished height, subtract 1" (25) from grille panel height dimensions. For an 88" (2235) finished height, add 4" (102) to height dimensions. An 83" (2108) or 88" (2235) panel grille must be ordered to accept an 83" (2108) or 88" (2235) custom panel. Width dimensions do not vary.

Flush Inset Panel Specifications



BI-36S / BI-42S / BI-42SID BI-42SD / BI-48SD
BI-48S / BI-48SID

Model BI-36S			
	W	H	
REFRIGERATOR			
Flush Inset Panel	20 ⁹ / ₁₆ " (522)	69 ³ / ₄ " (1772)	
Spacer Panel	19 ³ / ₁₆ " (487)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	19 ¹³ / ₁₆ " (503)	69 ⁹ / ₁₆ " (1767)	
FREEZER			
Flush Inset Panel	16 ³ / ₁₆ " (411)	69 ³ / ₄ " (1772)	
Spacer Panel	14 ¹³ / ₁₆ " (376)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	15 ⁷ / ₁₆ " (392)	69 ⁹ / ₁₆ " (1767)	
GRILLE			
Flush Inset Panel	37" (940)	9 ¹ / ₄ " (235)	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	

Models BI-42S, BI-42SID and BI-42SD			
	W	H	
REFRIGERATOR			
Flush Inset Panel	25 ⁹ / ₁₆ " (649)	69 ³ / ₄ " (1772)	
Spacer Panel	24 ³ / ₁₆ " (614)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	24 ¹³ / ₁₆ " (630)	69 ⁹ / ₁₆ " (1767)	
FREEZER			
Flush Inset Panel	17 ³ / ₁₆ " (437)	69 ³ / ₄ " (1772)	
Spacer Panel	15 ¹³ / ₁₆ " (402)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	16 ⁷ / ₁₆ " (418)	69 ⁹ / ₁₆ " (1767)	
GRILLE			
Flush Inset Panel	43" (1092)	9 ¹ / ₄ " (235)	
Spacer Panel	41 ¹ / ₈ " (1045)	8 ⁵ / ₁₆ " (211)	
Backer Panel	41 ³ / ₄ " (1060)	8 ¹⁵ / ₁₆ " (227)	
BI-42SD			
Dispenser Cut-Out	5 ⁷ / ₈ " (149)	12 ⁷ / ₁₆ " (316)	
	A	B	
Cut-Out Location	2" (51)	28 ¹³ / ₁₆ " (732)	

Models BI-48S, BI-48SID and BI-48SD			
	W	H	
REFRIGERATOR			
Flush Inset Panel	29 ¹ / ₄ " (743)	69 ³ / ₄ " (1772)	
Spacer Panel	27 ⁷ / ₈ " (708)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	28 ¹ / ₂ " (724)	69 ⁹ / ₁₆ " (1767)	
FREEZER			
Flush Inset Panel	19 ¹ / ₂ " (495)	69 ³ / ₄ " (1772)	
Spacer Panel	18 ¹ / ₈ " (460)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	18 ³ / ₄ " (476)	69 ⁹ / ₁₆ " (1767)	
GRILLE			
Flush Inset Panel	49" (1245)	9 ¹ / ₄ " (235)	
Spacer Panel	47 ¹ / ₈ " (1197)	8 ⁵ / ₁₆ " (211)	
Backer Panel	47 ³ / ₄ " (1213)	8 ¹⁵ / ₁₆ " (227)	
BI-48SD			
Dispenser Cut-Out	5 ⁷ / ₈ " (149)	12 ⁷ / ₁₆ " (316)	
	A	B	
Cut-Out Location	2" (51)	28 ¹³ / ₁₆ " (732)	

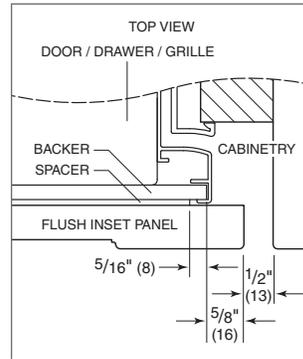
Grille panel dimensions listed are for a standard 84" (2134) finished height. For an 83" (2108) finished height, subtract 1" (25) from grille panel height dimensions. For an 88" (2235) finished height, add 4" (102) to height dimensions. An 83" (2108) or 88" (2235) panel grille must be ordered to accept an 83" (2108) or 88" (2235) custom panel. Width dimensions do not vary.

Flush Inset Panels

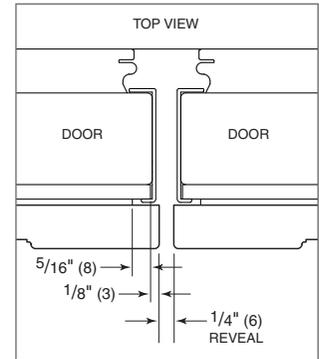
Illustrations A–F provide panel offsets and reveals for all built-in models in a flush inset application. Refer to the chart below for reference to the illustrations relating to your specific model.

For additional information on model specific panel reveals, visit the specification library section of our website, subzerotrade.com.

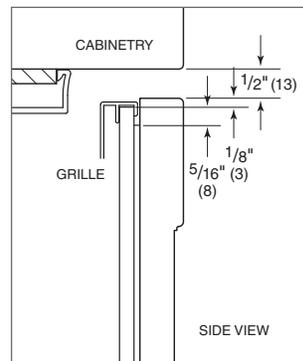
Panel Offsets	Illus.
ALL REFRIGERATOR / ALL FREEZER	
Door / Grille Sides	A
Grille Top	C
Grille Bottom / Door Top	D
Door Bottom	F
OVER-AND-UNDER	
Door / Drawer / Grille Sides	A
Grille Top	C
Grille Bottom / Door Top	D
Door Bottom / Drawer Top	E
Drawer Bottom	F
SIDE-BY-SIDE	
Doors (hinge) / Grille Sides	A
Doors (handle) Sides	B
Grille Top	C
Grille Bottom / Door Top	D
Door Bottom	F



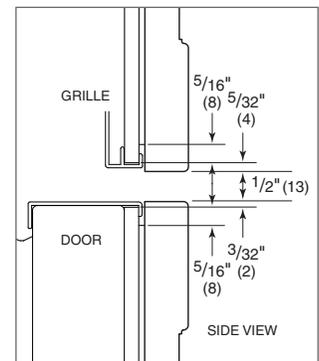
Illus. A



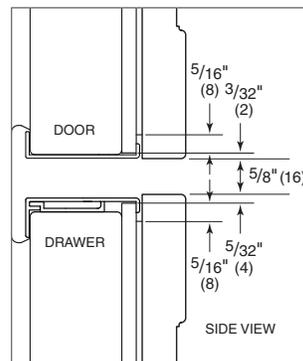
Illus. B



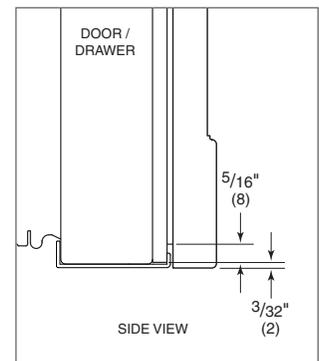
Illus. C



Illus. D



Illus. E



Illus. F

Side Panels

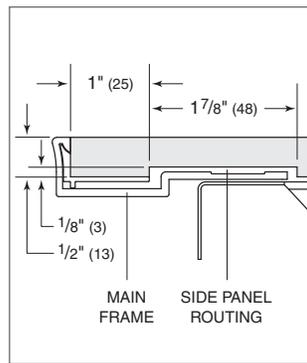
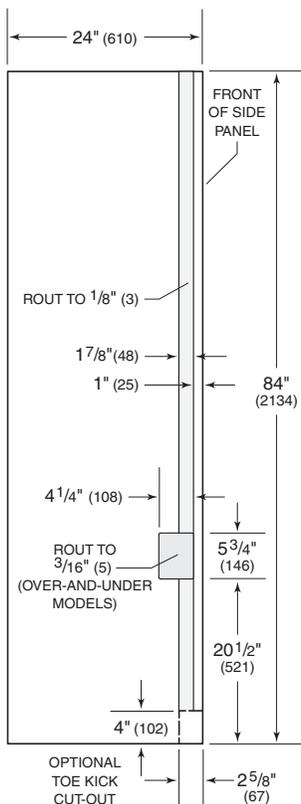
IMPORTANT NOTE: Side panels will need to be installed before the unit is placed in its final position.

When installing a built-in unit with a custom side panel, an accessory kit is required. Stainless steel and white enamel side panels are available through your authorized Sub-Zero dealer. Refer to instructions included with the side panel kit when installing these side panels. For local dealer information, visit the find a showroom section of our website, subzero.com.

IMPORTANT NOTE: The use of side panels may change the width of your rough opening.

CUSTOM SIDE PANEL INSTALLATION

The custom side panel will need to be a minimum of 24" (610) deep and 1/2" (13) thick. Routing will be necessary for the side panel to fit flush against the side of the unit. Refer to the illustrations below.



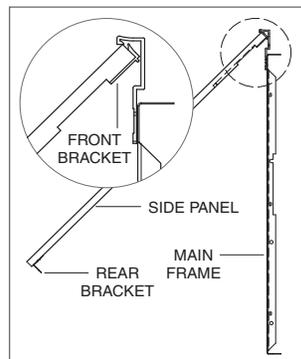
Routing detail.

IMPORTANT NOTE: The overall height on the side panel will vary with the height of the grille being used. Make sure you know your finished height before cutting any panels.

Install the brackets provided in the kit onto the side panel in the locations shown in the illustration below. The front brackets are meant to engage the mainframe and the back brackets will wrap behind the unit when the panel is in place. Screws are provided in the kit. If the provided screws will not work for your installation, you will need to provide the necessary screws to attach the brackets.

IMPORTANT NOTE: If you have a model BI-30U, BI-30UG, BI-36U or BI-36UG, extra routing will be necessary to avoid having the panel hit the refrigerator lower hinge plate.

Place the panel at a 75° angle and engage the front brackets into the mainframe. Swing the panel inward, making sure that the front brackets engage the mainframe. With the panel in position, attach the rear brackets to the rear of the unit with the screws provided. Check to see that the panel is secure. Refer to the illustration below.



Side panel attachment (top view).

Side panel dimensions.

Dual Installation

When two built-in units are installed side by side, a Sub-Zero built-in dual installation kit may be required. Contact your authorized Sub-Zero dealer for the proper components and installation instructions. For questions regarding the installation, call Sub-Zero at 800-222-7820. For local dealer information, visit the find a showroom section of our website, subzero.com.

DUAL STANDARD INSTALLATIONS

Two framed, overlay or stainless steel units may be placed side by side in a dual installation. Some dual standard installations will require a dual installation kit, available through your authorized Sub-Zero dealer.

A custom filler strip can be used in between two units in a framed, overlay or stainless steel design application. It is recommended that the filler strip be at least 2" (51) wide, to prevent condensation between the units. Be sure to add the filler strip width to your rough opening width.

Dual installations without a filler strip can only be accomplished using two units with opposite hinges as shown in illustration A below. The dual installations shown in illustrations B and C require a filler strip.

IMPORTANT NOTE: For the application shown in illustration A, a dual installation accessory kit is required.

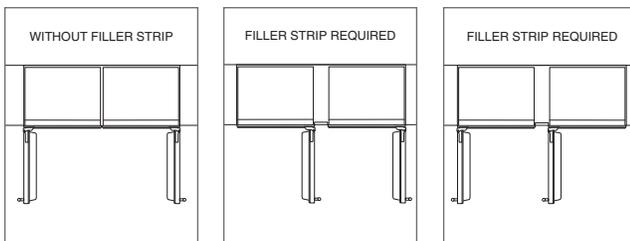
DUAL FLUSH INSET INSTALLATIONS

Installing two built-in models side by side in a flush inset application will require adjustments to the dimensions of your finished rough opening, panel sizes and panel offsets. It will also require a dual installation kit, available through your authorized Sub-Zero dealer.

Dual installations without a filler strip can only be accomplished using two units with opposite hinges as shown in illustration A below. The dual installations shown in illustrations B and C require a filler strip. Illustration A is the only application that will accommodate the dual wide grille.

IMPORTANT NOTE: The application shown in illustration A can only be achieved by installing dual flush inset panels. Failure to install dual flush inset panels will cause the handle side of the panels to collide when closing. In this application a dual installation accessory kit is also required.

Dual flush inset panels and dual installation kits are available through your authorized Sub-Zero dealer. Refer to the following page for dual flush inset panel specifications.

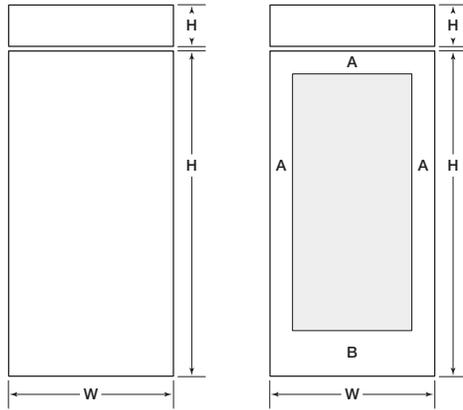


Illus. A

Illus. B

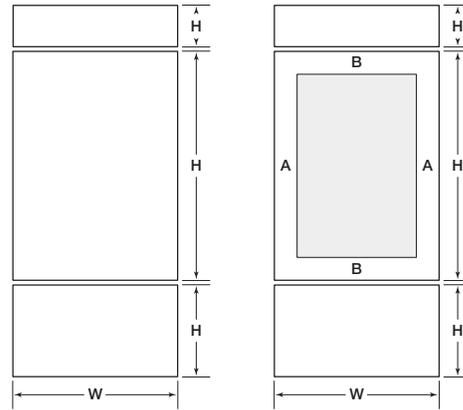
Illus. C

Dual Installation—Flush Inset Panel Specifications



BI-36R / BI-36F

BI-36RG



BI-30U / BI-36U

BI-30UG / BI-36UG

Models BI-36R, BI-36RG and BI-36F			
REFRIGERATOR / FREEZER	W	H	
Flush Inset Panel	36 ¹ / ₂ " (927)	69 ³ / ₄ " (1772)	
Spacer Panel	35 ¹ / ₈ " (892)	68 ¹⁵ / ₁₆ " (1751)	
Backer Panel	35 ³ / ₄ " (908)	69 ⁹ / ₁₆ " (1767)	
GRILLE	W	H	
Flush Inset Panel	36 ¹ / ₂ " (927)	9 ¹ / ₄ " (235)	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	
BI-36RG	W	H	
Window Cut-Out	25" (635)	54 ¹ / ₈ " (1375)	
	A	B	
Cut-Out Location	5 ³ / ₄ " (146)	10 ³ / ₈ " (264)	

Models BI-30U and BI-30UG			
REFRIGERATOR	W	H	
Flush Inset Panel	30 ¹ / ₂ " (775)	50 ¹ / ₈ " (1273)	
Spacer Panel	29 ¹ / ₈ " (740)	49 ⁵ / ₁₆ " (1253)	
Backer Panel	29 ³ / ₄ " (756)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER	W	H	
Flush Inset Panel	30 ¹ / ₂ " (775)	19" (483)	
Spacer Panel	29 ¹ / ₈ " (740)	18 ¹ / ₁₆ " (459)	
Backer Panel	29 ³ / ₄ " (756)	18 ¹¹ / ₁₆ " (475)	
GRILLE	W	H	
Flush Inset Panel	30 ¹ / ₂ " (775)	9 ¹ / ₄ " (235)	
Spacer Panel	29 ¹ / ₈ " (740)	8 ⁵ / ₁₆ " (211)	
Backer Panel	29 ³ / ₄ " (756)	8 ¹⁵ / ₁₆ " (227)	
BI-30UG	W	H	
Window Cut-Out	19" (483)	39 ⁵ / ₈ " (1006)	
	A	B	
Cut-Out Location	5 ³ / ₄ " (146)	5 ¹ / ₄ " (133)	

Models BI-36U and BI-36UG			
REFRIGERATOR	W	H	
Flush Inset Panel	36 ¹ / ₂ " (927)	50 ¹ / ₈ " (1273)	
Spacer Panel	35 ¹ / ₈ " (892)	49 ⁵ / ₁₆ " (1253)	
Backer Panel	35 ³ / ₄ " (908)	49 ¹⁵ / ₁₆ " (1268)	
FREEZER	W	H	
Flush Inset Panel	36 ¹ / ₂ " (927)	19" (483)	
Spacer Panel	35 ¹ / ₈ " (892)	18 ¹ / ₁₆ " (459)	
Backer Panel	35 ³ / ₄ " (908)	18 ¹¹ / ₁₆ " (475)	
GRILLE	W	H	
Flush Inset Panel	36 ¹ / ₂ " (927)	9 ¹ / ₄ " (235)	
Spacer Panel	35 ¹ / ₈ " (892)	8 ⁵ / ₁₆ " (211)	
Backer Panel	35 ³ / ₄ " (908)	8 ¹⁵ / ₁₆ " (227)	
BI-36UG	W	H	
Window Cut-Out	25" (635)	39 ⁵ / ₈ " (1006)	
	A	B	
Cut-Out Location	5 ³ / ₄ " (146)	5 ¹ / ₄ " (133)	

Grille panel dimensions listed are for a standard 84" (2134) finished height. For an 83" (2108) finished height, subtract 1" (25) from grille panel height dimensions. For an 88" (2235) finished height, add 4" (102) to height dimensions. Width dimensions do not vary.

Dual Installation—Flush Inset Panels

When installing two built-in models side by side in a flush inset application, you must decrease the width of the decorative flush inset panels by $\frac{1}{2}$ " (13). Adjustments to the panel offsets will also need to be made. These adjustments are needed to achieve a proper fit and to ensure the panels do not collide when closing. Panel dimensions in the chart below have been adjusted to reflect the decrease in panel dimensions.

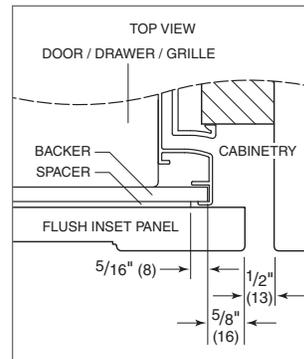
IMPORTANT NOTE: If a filler strip is not used, dual installations can only be accomplished using two units with opposite hinges.

Illustrations A–F provide panel offsets and reveals for all built-in models in a flush inset application. Refer to the chart below for reference to the illustrations relating to your specific model. All reveals are $\frac{1}{2}$ " (13) unless otherwise specified.

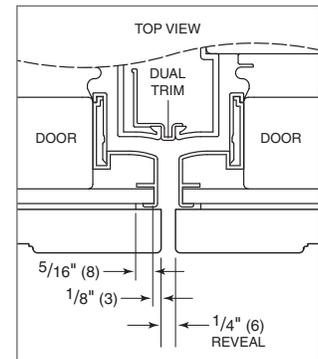
For additional information on model specific panel reveals, visit the specification library section of our website, subzerotrade.com.

Panel Offsets	Illus.
ALL REFRIGERATOR / ALL FREEZER	
Doors (hinge) / Grille Sides	A
Doors (handle) Sides	B
Grille Top	C
Grille Bottom / Door Top	D
Door Bottom	F
OVER-AND-UNDER	
Doors (hinge) / Drawer / Grille Sides	A
Doors (handle) Sides	B
Grille Top	C
Grille Bottom / Door Top	D
Door Bottom / Drawer Top	E
Drawer Bottom	F

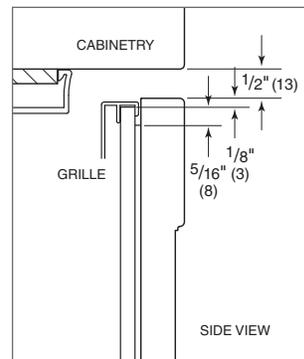
CAUTION
Do not exceed the flush inset decorative panel dimensions. Exceeding dimensions could cause damage to the panels and the Sub-Zero unit.



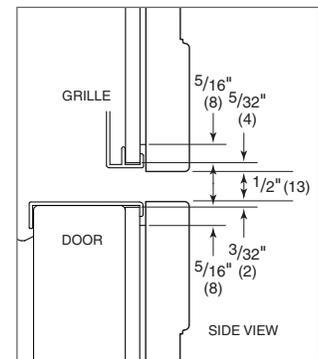
Illus. A



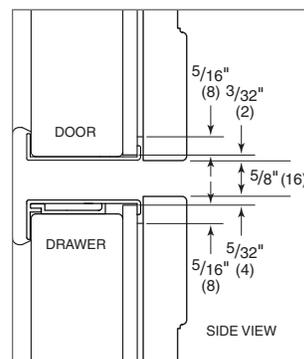
Illus. B



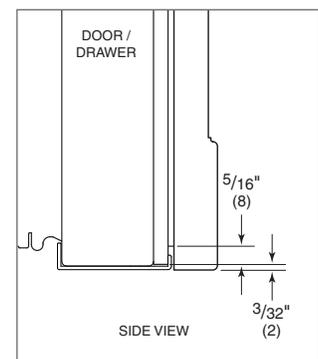
Illus. C



Illus. D



Illus. E



Illus. F

Installation Checklist

To ensure a safe and proper installation, the following checklist should be completed by the installer to ensure that no part of the installation has been overlooked.

- Have all packing materials been removed?
- Turn the unit on. Is it operating properly?
If not, is the unit plugged in? Is the control turned on?
- Is the water supply line connected and not leaking? Is the water supply turned on and ice maker control on?
- Have the anti-tip brackets been installed securely and properly engaging the unit?
- Is the unit leveled properly on a solid, level floor?
Has the drain pan and kickplate installed?
- Are panels attached securely and properly aligned?
- Are the door(s) aligned for proper appearance and operation?
- Has the water filter cartridge been removed (for homes with a reverse osmosis system)?
- Does the customer understand the unit's operation?
Does the customer have the warranty package?
- Have any installation or service problems been noted on the product registration card? Has the registration card been mailed in?
- Have stainless steel door(s) been inspected for any imperfections? This is to be done by the authorized Sub-Zero dealer or installer with the customer upon completion of installation. Stainless steel panels are covered by a limited 60-day warranty for cosmetic defects.

Service Information

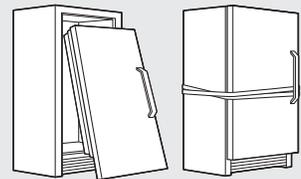
If service is necessary, maintain the quality built into your built-in unit by calling Sub-Zero factory certified service.

For the name and number of Sub-Zero factory certified service nearest you, check the contact & support section of our website, subzero.com or call Sub-Zero customer care at 800-222-7820.

When calling for service, you will need the model and serial numbers of your unit. Both numbers are listed on the product rating plate, located at the top frame of the unit inside the door. Refer to the illustration on page 3.

⚠ WARNING

If you are storing or disposing of your old refrigerator or freezer, please do it safely. Remove the doors or tightly secure the doors closed. Child entrapment accidents can be tragic.



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