

Minibar Systems
GuestFridge and SmartFridge Slim
Ventilation and Case Good
Specifications

This document for GuestFridges and SmartFridges details the criteria necessary for minibar and refrigerator installation. Minibar Systems is pleased to provide a complimentary service for hotels and their designers where we consult with you to discuss details such as: aesthetics, fridge location to maximize profits and ambient tray location options, door swing space, proximity to power, and ventilation requirements. These details are essential for the efficient running of the refrigeration systems ensuring its long life span and trouble free operation.

1. Ventilation – Basic Principles

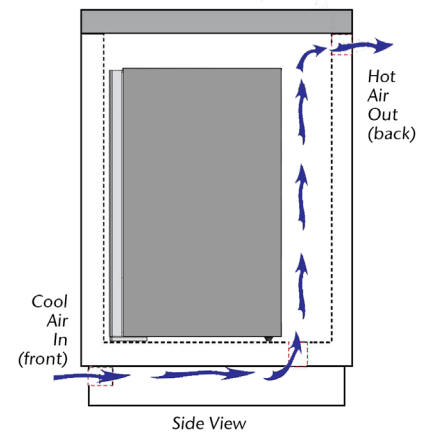
Ventilation occurs by convection. Convection is the movement of air caused by the tendency of hotter and less dense air to rise, and colder, denser air to sink under the influence of gravity, which consequently results in transfer of heat. See recommendations in 1.1, 1.2, and 1.3 on how to achieve adequate ventilation.

Minibar Systems would like to stress that proper ventilation for the GuestFridge and SmartFridge is imperative to ensure efficient operation of the compressor. If these conditions are not met, the warranty is void.

1.1 Inlet Ventilation

The inlet vent(s) must have a minimum open area of 31 in² (200 cm²) to comply with specifications. This is based on a typical guest room environment of 77° F (25° C) with a relative humidity of no more than 65%. The inlet vent can be provided in any of the following configurations:

- i) A cutout in the toe kick
- ii) A series of slots in the toe kick
- iii) A grill in the toe kick
- iv) An arched opening in the toe kick



1.2 Shelf Cutout

The shelf is to be cut away directly below the compressor. The shelf cutout must have a minimum open area of **31 in²** (200 cm²). The easiest way to accomplish the required ventilation is to cut away the shelf across its complete width and extend the cut out back to the rear of the case good.

1.3 Exhaust Ventilation

Heated air rises. If exhaust ventilation is not located high enough in the cabinet warm air will be trapped causing the compressor to malfunction. The exhaust vent(s) must have a minimum open area of 31 in² (200 cm²) to comply with specifications. The exhaust vent(s) can be provided in any of the following configurations:

- i) A series of slots or a grill in the top
- ii) A series of slots or a grill in the back at the top (see above diagram)
- iii) If the design will not permit the use of slots or grills, the unit can be spaced 2" (50.8) mm from the wall to allow exhaust mitigation. It is recommended that spacers be used to prevent the case good from being pushed against the wall. In this instance the back of the case good housing the minibar must be cut away completely. The underside of the shelf above the minibar must be flat so no obstruction is caused to the airflow.

The exhaust vent must exit into free space in the guest room. *It must not vent into an enclosed space such as a closet, case good or ceiling void, as the heat will be trapped. The minibar must not be placed against a heating radiator, window, curtains, or in direct sunlight. Ventilation grills or slots must not be covered. Please contact Minibar Systems for review of your case good drawings to ensure your design meets the GuestFridge and SmartFridge Case Good Specifications. If these ventilation requirements are not met, the warranty is void. The case good document can be found on the www.minibarNA.com website on the respective product pages.*

2. Diagram A—Cavity Opening

The physical cavity opening must be larger than the GuestFridge and SmartFridge to allow for proper ventilation. This will also allow the GuestFridge and SmartFridge to be removed as needed. See Diagram A for cavity dimensions.

Model	A* (Shelf Cutout)	B* (Depth)	C (Width)	D (Height)
GuestFridge 50 Slim	14.765" 375 mm	17.39" 442 mm	18" 457 mm	21" 534 mm
GuestFridge 65 Slim	14.765" 375 mm	17.39" 442 mm	18" 457 mm	26" 661 mm
SmartFridge 50 Slim	14.765" 375 mm	17.39" 442 mm	18" 457 mm	21.5 546 mm
SmartFridge 65 Slim	14.765" 375 mm	17.39" 442 mm	18" 457 mm	26.5" 673 mm
SmartFridge 50 Full Glass Door	18.875" 480 mm	21.5 546 mm	18" 457 mm	21.5 546 mm

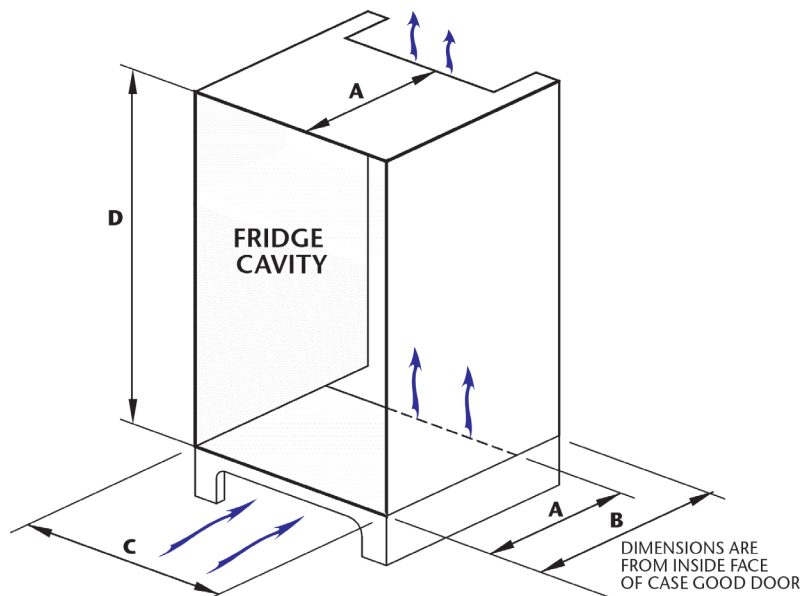


DIAGRAM A

Notes

- All dimensions are internal
- Placement of fridge begins 0.25" (6.5 mm) inside the case good door
- All tolerances 0.12" (3 mm)
- Not to scale