Project _____

Item # _____

Quantity _____

Cold Simulated Stone♦ Shelves Built-In Flush Top

Models: CSSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S
CSSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

Hatco's Cold Simulated Stone♦ Shelves Built-In Flush Top are designed to keep your products in the perfect chill zone.

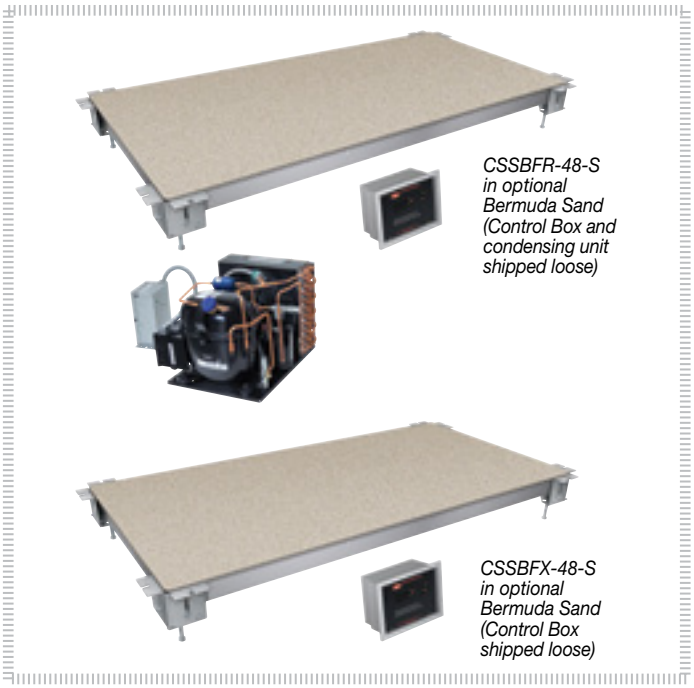
They are a must for buffet lines in cafeterias, restaurants and much more! These sturdy, foodsafe shelves are available in three attractive simulated stone colors.

The CSSBFR, CSSBFX Remote (R or X) models have the added benefit of offering design flexibility for fabricators.

Standard features

- CSSBFR units have unattached Condenser and Control Box
  CSSBFX units have no Condenser (condenser supplied by others) and unattached Control Box
- CSSBFR condensers utilize R-513A
  CSSBFX models allow shelves to be cooled with other refrigerants
- Patented thermal break reduces condensation and temperature transfer on adjacent surfaces
- All units have an Electronic Temperature Control Box with a 4' (1219 mm) lead wire (Standard)
- Control box can be mounted on the front of the cabinet, 4' (1219 mm) from center of shelf
- All models are bottom mount units, flush to countertop
- Models shipped with a shelf assembly with a temperature probe, assembled TXV valve (shipped loose on CSSBFR, CSSBFX models), control box (shipped loose on CSSBFR, CSSBFX models), liquid line solenoid valve attached to the shelf (CSSBFX models only) and CSSBFR models include a condensing unit (CSSBFR shipped loose)
- All models not available with CE Mark

♦ Models with simulated stone are Swanstone®.



CSSBFR-48-S in optional Bermuda Sand (Control Box and condensing unit shipped loose)

CSSBFX-48-S in optional Bermuda Sand (Control Box shipped loose)

Options (available at time of purchase only)

Simulated stone♦ color – Night Sky Standard – Non-standard colors are non-returnable
☐ Gray Granite ☐ Bermuda Sand

☐ Additional four year parts only warranty on the compressor available at time of purchase (U.S. and Canada only)

CSSBFR models only:

For operation, location and safety information, please refer to the Installation and Operating Manual.

MADE IN THE USA

HATCO CORPORATION | P.O. Box 340500 Milwaukee, WI 53234-0500 U.S.A. | (414) 671-6350

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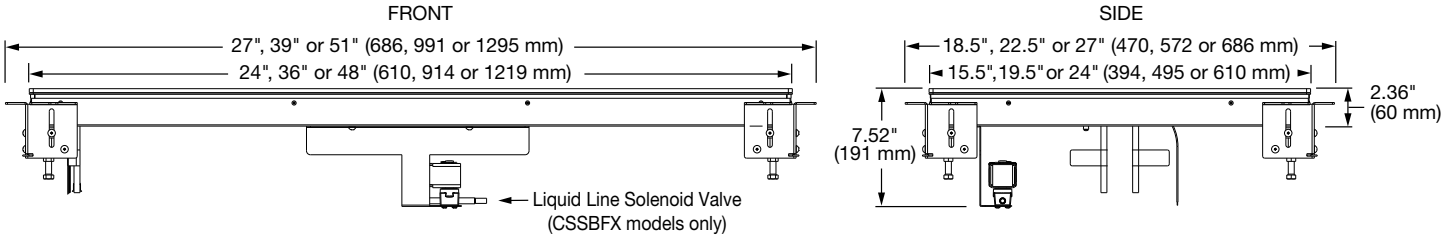
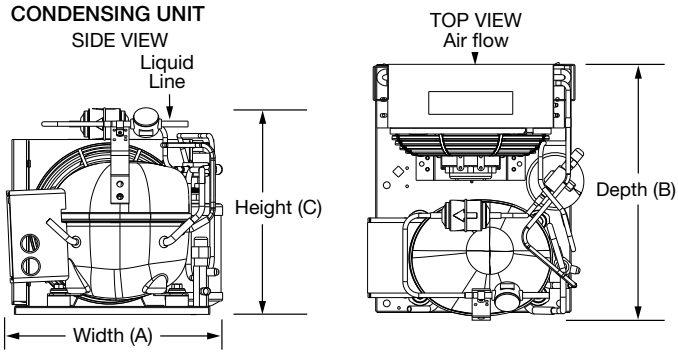
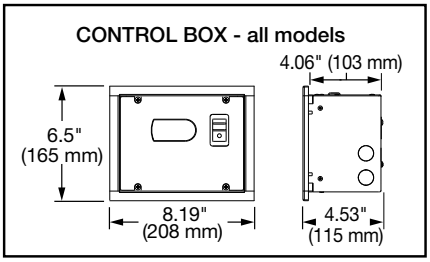
Cold Simulated Stone[◆] Shelves Built-In Flush Top

Models: CSSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S
CSSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

CSSBFR, CSSBFX







R-404A Condenser Dimensions for Hot/Cold Simulated Stone Shelves Built-In Flush Top (For Export Markets Only)

Model	HZ	Voltages	Width (A)	Depth (B)	Height (C)
CSSBFR-24-F	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-24-F	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-24-I	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-24-I	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-24-S	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-24-S	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-36-F	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-36-F	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-36-I	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-36-I	50	220/230/240	13.10" (333 mm)	16" (406 mm)	11.70" (297 mm)
	60		12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-36-S	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-36-S	50	220/230/240	13.10" (333 mm)	16" (406 mm)	11.70" (297 mm)
	60		12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-48-F	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-48-F	50	220/230/240	13.10" (333 mm)	16" (406 mm)	11.70" (297 mm)
	60		12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-48-I	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFX-48-I	50	220/230/240	13.10" (333 mm)	16" (406 mm)	11.70" (297 mm)
	60		12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSSBFR-48-S	60	120	13.10" (333 mm)	17.40" (442 mm)	11.80" (300 mm)
CSSBFX-48-S	50	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
	60		14.34" (364 mm)	18" (457 mm)	11.80" (300 mm)

[◆] Models with simulated stone are Swanstone®.

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Cold Simulated Stone♢ Shelves Built-In Flush Top

Models: CSSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S
CSSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

SPECIFICATIONS

Cold Simulated Stone♢ Shelves Built-In Flush Top - Remote - R with unattached Condenser and Control Box

The shaded areas contain electrical information for International models

Model	Overall Dimension W x D x H	Usable Shelf Space W x D of cooled surface	Compressor Size HP	Volts✖	Watts	Amps	Hz	Approx. Ship Weight
CSSBFR-24-F	27" x 18.5" x 7.52" (686 x 470 x 191 mm)	24" x 15.5" (610 x 394 mm)	1/5	120	300	3.8	60	119 lbs. (54 kg)
			1/3	220	1089	5.0	50	
				230	1190	5.2		
				240	1296	5.4		
				220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-24-I	27" x 22.5" x 7.52" (686 x 572 x 191 mm)	24" x 19.5" (610 x 495 mm)	1/5	120	300	3.8	60	124 lbs. (57 kg)
			1/3	220	1089	5.0	50	
				230	1190	5.2		
				240	1296	5.4		
				220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-24-S	27" x 27" x 7.52" (686 x 686 x 191 mm)	24" x 24" (610 x 610 mm)	1/5	120	300	3.8	60	138 lbs. (63 kg)
			1/3	220	1089	5.0	50	
				230	1190	5.2		
				240	1296	5.4		
				220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-36-F	39" x 18.5" x 7.52" (991 x 470 x 191 mm)	36" x 15.5" (914 x 394 mm)	1/5	120	300	3.8	60	135 lb. (62 kg)
			1/3	220	1089	5.0	50	
				230	1190	5.2		
				240	1296	5.4		
				220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-36-I	39" x 22.5" x 7.52" (991 x 572 x 191 mm)	36" x 19.5" (914 x 495 mm)	1/3	120	450	5.9	60	147 lbs. (67 kg)
			3/8	220	826	3.8	50	
				230	904	3.9		
				240	984	4.1		
			1/3	220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-36-S	39" x 27" x 7.52" (991 x 686 x 191 mm)	36" x 24" (914 x 610 mm)	1/3	120	450	5.9	60	159 lbs. (73 kg)
			3/8	220	826	3.8	50	
				230	904	3.9		
				240	984	4.1		
			1/3	220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-48-F	51" x 18.5" x 7.52" (1295 x 470 x 191 mm)	48" x 15.5" (1219 x 394 mm)	1/3	120	450	5.9	60	136 lbs. (62 kg)
			3/8	220	826	3.8	50	
				230	904	3.9		
				240	984	4.1		
			1/3	220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-48-I	51" x 22.5" x 7.52" (1295 x 572 x 191 mm)	48" x 19.5" (1219 x 495 mm)	1/3	120	450	5.9	60	165 lbs. (75 kg)
			3/8	220	826	3.8	50	
				230	904	3.9		
				240	984	4.1		
			1/3	220	1129	5.1	60	
				230	1234	5.4		
				240	1344	5.6		
CSSBFR-48-S	51" x 27" x 7.52" (1295 x 686 x 191 mm)	48" x 24" (1219 x 610 mm)	5/8	120	800	8.7	60	187 lbs. (85 kg)
			1/2	220	826	3.8	50	
				230	904	3.9		
				240	984	4.1		
			5/8	220	1956	8.9	60	
				230	2138	9.3		
				240	2328	9.7		

♢ Models with simulated stone are Swanstone®. ✖ All voltages are non-CE.

Cold Simulated Stone▽ Shelves Built-In Flush Top

Models: CSSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S
CSSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

SPECIFICATIONS

Cold Simulated Stone▽ Shelves Built-In Flush Top - Remote - X with unattached Control Box only (no Condenser)

The shaded areas contain electrical information for International models

Model	Overall Dimension W x D x H	Usable Shelf Space W x D of cooled surface	Volts✖	Rated Watts	Amps	Hz	Evaporator Load BTU/Hr	Approx. Ship Weight
CSSBFX-24-F	27" x 18.5" x 7.52" (686 x 470 x 191 mm)	24" x 15.5" (610 x 394 mm)	120	12	0.1	60	844	69 lbs. (32 kg)
			220, 230, 240	17	0.1	50	844	
			220, 230, 240	12	0.1	60	844	
CSSBFX-24-I	27" x 22.5" x 7.52" (686 x 572 x 191 mm)	24" x 19.5" (610 x 495 mm)	120	12	0.1	60	1019	79 lbs. (36 kg)
			220, 230, 240	17	0.1	50	1019	
			220, 230, 240	12	0.1	60	1019	
CSSBFX-24-S	27" x 27" x 7.52" (686 x 686 x 191 mm)	24" x 24" (610 x 610 mm)	120	12	0.1	60	1216	89 lbs. (41 kg)
			220, 230, 240	17	0.1	50	1216	
			220, 230, 240	12	0.1	60	1216	
CSSBFX-36-F	39" x 18.5" x 7.52" (991 x 470 x 191 mm)	36" x 15.5" (914 x 394 mm)	120	12	0.1	60	1183	98 lbs. (45 kg)
			220, 230, 240	17	0.1	50	1183	
			220, 230, 240	12	0.1	60	1183	
CSSBFX-36-I	39" x 22.5" x 7.52" (991 x 572 x 191 mm)	36" x 19.5" (914 x 495 mm)	120	12	0.1	60	1385	110 lbs. (50 kg)
			220, 230, 240	17	0.1	50	1385	
			220, 230, 240	12	0.1	60	1385	
CSSBFX-36-S	39" x 27" x 7.52" (991 x 686 x 191 mm)	36" x 24" (914 x 610 mm)	120	12	0.1	60	1649	122 lbs. (56 kg)
			220, 230, 240	17	0.1	50	1649	
			220, 230, 240	12	0.1	60	1649	
CSSBFX-48-F	51" x 18.5" x 7.52" (1295 x 470 x 191 mm)	48" x 15.5" (1219 x 394 mm)	120	12	0.1	60	1453	99 lbs. (45 kg)
			220, 230, 240	17	0.1	50	1453	
			220, 230, 240	12	0.1	60	1453	
CSSBFX-48-I	51" x 22.5" x 7.52" (1295 x 572 x 191 mm)	48" x 19.5" (1219 x 495 mm)	120	12	0.1	60	1767	128 lbs. (56 kg)
			220, 230, 240	17	0.1	50	1767	
			220, 230, 240	12	0.1	60	1767	
CSSBFX-48-S	51" x 27" x 7.52" (1295 x 686 x 191 mm)	48" x 24" (1219 x 610 mm)	120	12	0.1	60	3009	140 lbs. (64 kg)
			220, 230, 240	17	0.1	50	3009	
			220, 230, 240	12	0.1	60	3009	

▽ Models with simulated stone are Swanstone®.
✖ All voltages are non-CE.

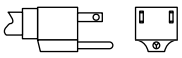
CUTOUT DIMENSIONS

Refer to the Installation and Operating Manual for more information.

Model	Width with 0.375" (10 mm) radii	Depth with 0.375" (10 mm) radii
CSSBFR-24F & CSSBFX-24F	24.375" (619 mm)	15.875" (403 mm)
CSSBFR-24-I & CSSBFX-24-I	24.375" (619 mm)	19.875" (505 mm)
CSSBFR-24-S & CSSBFX-24-S	24.375" 619 mm)	24.375" (619 mm)
CSSBFR-36-F & CSSBFX-36-F	36.375" (924 mm)	15.875" (403 mm)
CSSBFR-36-I & CSSBFX-36-I	36.375" (924 mm)	19.875" (505 mm)
CSSBFR-36-S & CSSBFX-36-S	36.375" (924 mm)	24.375" (619 mm)
CSSBFR-48-F & CSSBFX-48-F	48.375" (1229 mm)	15.875" (403 mm)
CSSBFR-48-I & CSSBFX-48-I	48.375" (1229 mm)	19.875" (505 mm)
CSSBFR-48-S & CSSBFX-48-S	48.375" (1229 mm)	24.375" (619 mm)
All Models	**Width**	**Height**
Control Box Cut Out Dimensions	7.438" (189 mm)	5.625" (143 mm)

PLUG CONFIGURATION

NEMA 5-15P



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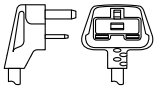

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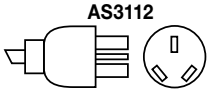

R-513A REFRIGERANT OPERATING SPECIFICATIONS IN 75°F (24°C) AMBIENT

(Refer to the Installation section in the Installation and Operating Manual on the Hatco website)

- Suction Pressure: 6-9 PSIG (0.4-0.6 Bar)
- Discharge Pressure : 115-125 PSIG (7.9-8.6 Bar)
- Superheat: 4-10° F (2.2 to 5.6°C)
- Subcooling: 5-10° F (2.8 to 5.6°C)

FACTORY FILL RATES for R-513A REFRIGERANT

(CSSBFR condensers are shipped without refrigerants)

Model	Fill Weight	Model	Fill Weight
CSSBF-24-F	1 lb. 3 oz. (0.539 kg)	CSSBFR-24-F	1 lb. 13 oz. (0.822 kg)
CSSBF-24-I		CSSBFR-24-I	
CSSBF-24-S	1 lb. 5 oz. (0.595 kg)	CSSBFR-24-S	1 lb. 15 oz. (0.879 kg)
CSSBF-36-F	1 lb. 5 oz. (0.595 kg)	CSSBFR-36-F	1 lb. 15 oz. (0.879 kg)
CSSBF-36-I	1 lb. 3 oz. (0.539 kg)	CSSBFR-36-I	1 lb. 13 oz. (0.822 kg)
CSSBF-36-S		CSSBFR-36-S	
CSSBF-48-F	1 lb. 3 oz. (0.539 kg)	CSSBFR-48-F	1 lb. 13 oz. (0.822 kg)
CSSBF-48-I		CSSBFR-48-I	
CSSBF-48-S	1 lb. 15 oz. (0.879 kg)	CSSBFR-48-S	2 lb. 8 oz. (1.134 kg)

Cold Simulated Stone◆ Shelves Built-In Flush Top - Remote (R or X models)

The patented Cold Simulated Stone Shelves Built-In Flush Top - Remote (R or X) shall be model … as manufactured by the Hatco Corporation, Milwaukee, WI 53234 U.S.A.

The Cold Simulated Stone Shelves Built-In Flush Top - Remote (R or X) model shall be rated at … watts, … volts, and … inches (millimeters) in overall width.

CSSBFR shall utilize R-513A refrigerant. CSSBFR and CSSBFX models shall consist of a foodsafe simulated stone material surface shelf assembly with a temperature probe, an unattached TXV valve, an unattached Electronic Temperature Control Box, an unattached condenser (CSSFBR models only) and a solenoid valve attached to shelf (CSSBFX models only).

Warranty consists of 24/7 parts and service assistance (U.S. and Canada only).

◆ Models with simulated stone are Swanstone®.