Project _____

Item # _____

Quantity _____

Cold Shelves Built-In Flush Top

Models:

CSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

CSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

Hatco's Cold Shelves Built-In Flush Top, in our signature aluminum hardcoat, are designed to keep your pre-chilled beverages, hors d'oeuvres, side dishes, buffet items and more, perfectly chilled.

The CSBFR, CSBFX Remote (R or X) models have the added benefit of allowing design flexibility for fabricators.

Standard features

- CSBFR units have unattached Condenser and Control Box CSBFX units have no Condenser (condenser supplied by others) and unattached Control Box
- CSBFR condensers utilize R-513A refrigerant and CSBFX models allow shelves to be cooled with other refrigerants
- Condensing unit features easy serviceability with sight glass, service valves, dryer/filter and receiver (CSBFR models only)
- 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)
- All models are top mounted with a hardcoat aluminum surface
- All models match the GRSBF Heated Built-In Shelves for a fully integrated look
- Models shipped with a shelf assembly with a temperature probe, assembled TXV valve (shipped loose on CSBFR, CSBFX models), control box (shipped loose on CSBFR, CSBFX models), liquid line solenoid valve attached to the shelf (CSBFX models only) and CSBFR models include a condensing unit (CSBFR shipped loose)
- All models not available with CE Mark

CSBFR-48-S (Flush Top) Condenser and Control Box shipped loose

CSBFX-48-S (Flush Top) Control Box shipped loose

Options (available at time of purchase only)

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

CSBFR models only:

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

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

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Cold Shelves Built-In Flush Top

Models: CSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S
CSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

CSBFR, CSBFX

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

Model	HZ	Voltages	Width (A)	Depth (B)	Height (C)
CSBFR-24-F CSBFX-24-F	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSBFR-24-I CSBFX-24-I	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSBFR-24-S CSBFX-24-S	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSBFR-36-F CSBFX-36-F	60	120	11.80" (300 mm)	13.60" (346 mm)	11.40" (289 mm)
	50/60	220/230/240	12.10" (307 mm)	13.60" (346 mm)	11.40" (289 mm)
CSBFR-36-I CSBFX-36-I	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
	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)
CSBFR-36-S CSBFX-36-S	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
	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)
CSBFR-48-F CSBFX-48-F	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
	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)
CSBFR-48-I CSBFX-48-I	60	120	11.90" (302 mm)	13.60" (346 mm)	11.40" (289 mm)
	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)
CSBFR-48-S CSBFX-48-S	60	120	13.10" (333 mm)	17.40" (442 mm)	11.80" (300 mm)
	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)

Cold Shelves Built-In Flush Top

Models: CSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S
CSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

SPECIFICATIONS

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

The shaded areas contain electrical information for International models

Model	Overall Shelf Dimensions W x D x H	Usable Shelf Space W x D	Compressor Size HP	Volts∅	Watts	Amps	Hz	Approx. Ship Weight
CSBFR-24-F	25.5" x 17" x 7.29" (648 x 432 x 185 mm)	24" x 15.5" (610 x 394 mm)	1/5	120	300	3.8	60	108 lbs. (46 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		
CSBFR-24-I	25.5" x 21" x 7.29" (648 x 533 x 185 mm)	24" x 19.5" (610 x 495 mm)	1/5	120	300	3.8	60	116 lbs. (49 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		
CSBFR-24-S	25.5" x 25.5" x 7.29" (648 x 648 x 185 mm)	24" x 24" (610 x 610 mm)	1/5	120	300	3.8	60	124 lbs. (53 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		
CSBFR-36-F	37.5" x 17" x 7.29" (953 x 432 x 185 mm)	36" x 15.5" (914 x 394 mm)	1/5	120	300	3.8	60	115 lbs. (52 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		
CSBFR-36-I	37.5" x 21" x 7.29" (953 x 533 x 185 mm)	36" x 19.5" (914 x 495 mm)	1/3	120	450	5.9	60	131 lbs. (59 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		
CSBFR-36-S	37.5" x 25.5" x 7.29" (953 x 648 x 185 mm)	36" x 24" (914 x 610 mm)	1/3	120	450	5.9	60	144 lbs. (65 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		
CSBFR-48-F	49.5" x 17" x 7.29" (1257 x 432 x 185 mm)	48" x 15.5" (1219 x 394 mm)	1/3	120	450	5.9	60	131 lbs. (59 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		
CSBFR-48-I	49.5" x 21" x 7.29" (1257 x 533 x 185 mm)	48" x 19.5" (1219 x 495 mm)	1/3	120	450	5.9	60	150 lbs. (68 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		
CSBFR-48-S	49.5" x 25.5" x 7.29" (1257 x 648 x 185 mm)	48" x 24" (1219 x 610 mm)	5/8	120	800	8.7	60	170 lbs. (77 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		

Cold Shelves Built-In Flush Top

Models: CSBFR-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S
CSBFX-24-F, -24-I, -24-S, -36-F, -36-I, -36-S, -48-F, -48-I, -48-S

SPECIFICATIONS

Remote Cold 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 Shelf Dimensions (W x D x H)	Usable Shelf Space (W x D)	Volts⊘	Rated Watts	Amps	Hz	Evaporator Load BTU/Hr	Approx. Ship Weight
CSBFX-24-F	25.5" x 17" x 7.29" (648 x 432 x 185 mm)	24" x 15.5" (610 x 394 mm)	120	12	0.1	60	844	63 lbs. (29 kg)
			220, 230, 240	17	0.1	50	844	
			220, 230, 240	12	0.1	60	844	
CSBFX-24-I	25.5" x 21" x 7.29" (648 x 533 x 185 mm)	24" x 19.5" (610 x 495 mm)	120	12	0.1	60	1019	71 lbs. (33 kg)
			220, 230, 240	17	0.1	50	1019	
			220, 230, 240	12	0.1	60	1019	
CSBFX-24-S	25.5" x 25.5" x 7.29" (648 x 648 x 185 mm)	24" x 24" (610 x 610 mm)	120	12	0.1	60	1216	79 lbs. (36 kg)
			220, 230, 240	17	0.1	50	1216	
			220, 230, 240	12	0.1	60	1216	
CSBFX-36-F	37.5" x 17" x 7.29" (953 x 432 x 185 mm)	36" x 15.5" (914 x 394 mm)	120	12	0.1	60	1183	76 lbs. (35 kg)
			220, 230, 240	17	0.1	50	1183	
			220, 230, 240	12	0.1	60	1183	
CSBFX-36-I	37.5" x 21" x 7.29" (953 x 533 x 185 mm)	36" x 19.5" (914 x 495 mm)	120	12	0.1	60	1385	92 lbs. (42 kg)
			220, 230, 240	17	0.1	50	1385	
			220, 230, 240	12	0.1	60	1385	
CSBFX-36-S	37.5" x 25.5" x 7.29" (953 x 648 x 185 mm)	36" x 24" (914 x 610 mm)	120	12	0.1	60	1649	110 lbs. (50 kg)
			220, 230, 240	17	0.1	50	1649	
			220, 230, 240	12	0.1	60	1649	
CSBFX-48-F	49.5" x 17" x 7.29" (1257 x 432 x 185 mm)	48" x 15.5" (1219 x 394 mm)	120	12	0.1	60	1453	93 lbs. (43 kg)
			220, 230, 240	17	0.1	50	1453	
			220, 230, 240	12	0.1	60	1453	
CSBFX-48-I	49.5" x 21" x 7.29" (1257 x 533 x 185 mm)	48" x 19.5" (1219 x 495 mm)	120	12	0.1	60	1767	112 lbs. (51 kg)
			220, 230, 240	17	0.1	50	1767	
			220, 230, 240	12	0.1	60	1767	
CSBFX-48-S	49.5" x 25.5" x 7.29" (1257 x 648 x 185 mm)	48" x 24" (1219 x 610 mm)	120	12	0.1	60	3009	122 lbs. (56 kg)
			220, 230, 240	17	0.1	50	3009	
			220, 230, 240	12	0.1	60	3009	

⊘All voltages non-CE

COUNTERTOP CUTOUT DIMENSIONS

See Installation and Operating Manual for more information

Model	Width Minimum	Width Maximum	Depth Minimum	Depth Maximum
CSBFR-24-F CSBFX-24-F	24.6" (625 mm)	25.0" (635 mm)	16.125" (409 mm)	16.5" (419 mm)
CSBFR-24-I CSBFX-24-I	24.6" (625 mm)	25.0" (635 mm)	20.125" (511 mm)	20.5" (521 mm)
CSBFR-24-S CSBFX-24-S	24.6" (625 mm)	25.0" (635 mm)	24.6" (625 mm)	25.0" (635 mm)
CSBFR-36-F CSBFX-36-F	36.6" (930 mm)	37.0" (940 mm)	16.125" (409 mm)	16.5" (419 mm)
CSBFR-36-I CSBFX-36-I	36.6" (930 mm)	37.0" (940 mm)	20.125" (511 mm)	20.5" (521 mm)
CSBFR-36-S CSBFX-36-S	36.6" (930 mm)	37.0" (940 mm)	24.6" (625 mm)	25.0" (635 mm)
CSBFR-48-F CSBFX-48-F	48.6" (1234 mm)	49.0" (1245 mm)	16.125" (409 mm)	16.5" (419 mm)
CSBFR-48-I CSBFX-48-I	48.6" (1234 mm)	49.0" (1245 mm)	20.125" (511 mm)	20.5" (521 mm)
CSBFR-48-S CSBFX-48-S	48.6" (1234 mm)	49.0" (1245 mm)	24.6" (625 mm)	25.0" (635 mm)

All Models	Width *(should not exceed)*	Height *(should not exceed)*
Control Box Cut Out Dimensions	7.44" (189 mm)	5.6" (143 mm)

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

(CSBFR condensers are shipped without refrigerants)

Model	Fill Weight
CSBFR-24-F	1 lb. 13 oz. (0.822 kg)
CSBFR-24-I	
CSBFR-24-S	1 lb. 15 oz. (0.879 kg)
CSBFR-36-F	1 lb. 15 oz. (0.879 kg)
CSBFR-36-I	1 lb. 13 oz. (0.822 kg)
CSBFR-36-S	
CSBFR-48-F	1 lb. 13 oz. (0.822 kg)
CSBFR-48-I	
CSBFR-48-S	2 lb. 8 oz. (1.134 kg)

PLUG CONFIGURATION

NEMA 5-15P

CEE 7/7 Schuko

BS-1363

AS3112

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

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

CSBFR units shall utilize R-513A refrigerant CSBFR and CSBFX models shall consist of a food-safe material surface shelf assembly with temperature probe, unattached TXV valve, unattached Electronic Temperature Control Box, unattached condenser (CSFBR models only) and solenoid valve attached to shelf (CSBFX models only).

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