



ChillBox™ 115V-Series

DX Cooling / Hot Water Heating

WMF-50 Series (1.5 to 3.0 Tons Capacities)

For Replacement Only – Not For New Construction



WMF-50 Series Shown With Panels Removed

ChillBox™ WMF-50 Series are built with the following standard features:

- Direct Drive Blower
- 3 Speed Air-Over Motor
- Sturdy Constructed Cabinet
- Built-In Filter Rack
- Door Safety Switch
- Air Purge Valve
- Non-Corrosive Hardware
- Standard Bolt on Piston Design (Field Option TXV)
- 304 Stainless Steel Drain Pan with Primary and Secondary 3/4" Stainless NPT Drain Fittings
- 2 lb. Thermal Acoustic, Anti-Microbial Duct Insulation
- Multi-Function Micro-Processor Circuit Board
- Circulating Water Pump with Check Valve

Warranty: 1 Year Parts / 2 Year Coils (When Registered)

EXACT FOOTPRINT REPLACEMENT FOR THE FOLLOWING MANUFACTURER'S EQUIPMENT / First Co. UCQB-Series Units

In Keeping With Its Policy Of Continuous Progress And Improvements, JRJ Manufacturing Reserves The Right To Make Changes Without Notice And Incurring Obligation. The customer is responsible for confirming which fan coil models are compatible with select out-door unit(s) and which expansion valves (if any) are required.

JRJ Manufacturing, LLC

WMF-50-R221010

24910 Reservoir Road, Cascade, MD 21719 / Phone: 717-941-1180 / Fax: 717-941-1181



ChillBox™ WMF-50 Series Features / Options / Accessories

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Multi-Function Micro-Processor Circuit Board



- **Automatic Pump Timer:** The circulation pump automatically energizes for 60 seconds every 6 hours (4 times daily) to purge the water from the hot water coil and piping (The pump cycle is skipped when the compressor is operating).
- **Blower-On:** (Heating Mode) Pre-Heats the hot water coil for 45 seconds.
- **Blower-Off:** (Heating & Cooling Mode) Blower continues to operate for 45 seconds after the thermostat is satisfied for increased efficiency.
- 120 Volt / 24 Volt Controls

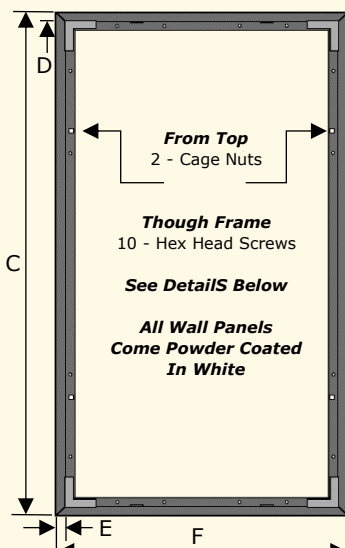
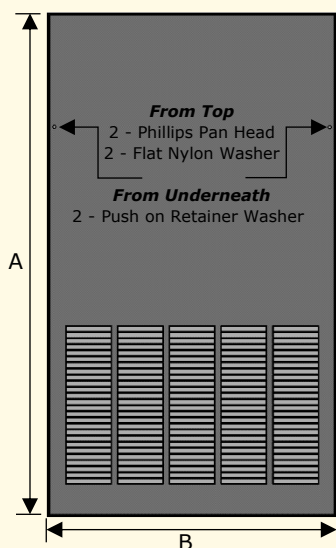
Optional Features:

- (Field Installed) Freeze Protection (Energizes the circulation pump if temperature falls below 40°F)
- (Field Installed) Condensate Overflow Switch

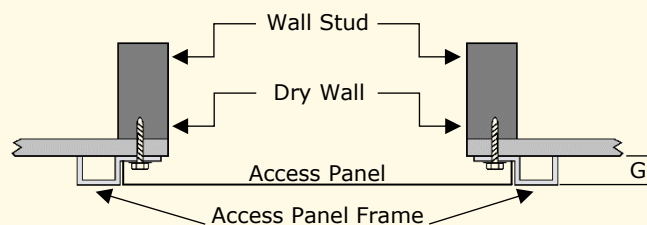
Bolt On Thermal Expansion Valve (Optional / Field Installed)



- Field Installable, Available for 1.5 to 3 Ton (JRJ Part #VL001X-SP).
- Approved for both cooling only (non-heat pump) or heat pump applications.
- Non-Bleed Type (Hard Start Kit MAY Be Needed).
- Mounts Inside The Cabinet.



Warranty
1 Year Parts
2 Year Coils
(When Registered)

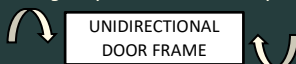


Replaces Models:
First Co. 9PWUC03
First Co. 9PWUC04

WMP-93(L/S)-00

A	48-5/8"	J	--	S	--
B	24-7/8"	K	--	T	--
C	49-3/8"	L	--	U	--
D	13/16"	M	--	V	--
E	13/16"	N	--	W	--
F	25-5/8"	O	--	X	--
G	11/16"	P	--	Y	--
H	--	Q	--	Z	--
I	--	R	--		

Representative Drawing Only. Some Models May Vary In Appearance.



Recommended Wall Panel

WMF-1815-50 = WMP-93*-00
WMF-2415-50 = WMP-93*-00
WMF-3015-50 = WMP-93*-00
WMF-3615-50 = WMP94*-00

*Available In: L = Louvered Wall Panel / S = Solid Wall Panel

WMP-94(L/S)-00

A	51-3/4"	J	--	S	--
B	30-7/8"	K	--	T	--
C	52-1/2"	L	--	U	--
D	13/16"	M	--	V	--
E	13/16"	N	--	W	--
F	31-5/8"	O	--	X	--
G	11/16"	P	--	Y	--
H	--	Q	--	Z	--
I	--	R	--		

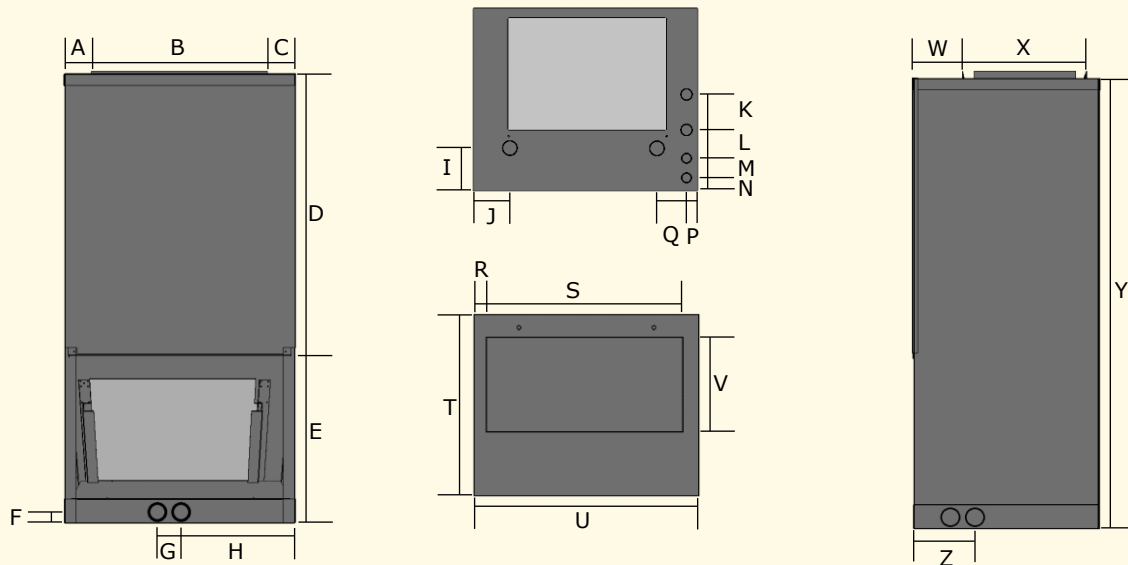
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ChillBox™ WMF- 50 Series Dimensional Data



In Keeping With Its Policy Of Continuous Progress And Improvements, JRJ Manufacturing Reserves The Right To Make Changes Without Notice And Incurring Obligation.



Representative Drawing Only. Some Models May Vary In Appearance.

WMF-18/24/30-50						Model		Weight		Filter Size		WMF-3615-50								
A	3-1/2"	J	3-1/2"	S	20-1/4"	WMF-1815-50	125 lbs.	16" X 16" X 1"	A	2"	J	1-3/4"	S	20-1/4"						
B	15-3/4"	K	11-5/8"	T	18"	WMF-2415-50	125 lbs.	16" X 16" X 1"	B	18-1/4"	K	9-1/2"	T	21"						
C	3"	L	9-3/16"	U	22"	WMF-3015-50	138 lbs.	18" X 20" X 1"	C	2"	L	7-1/2"	U	22"						
D	23-3/4"	M	3-1/4"	V	10-1/4"	WMF-3615-50	138 lbs.	18" X 20" X 1"	D	23-3/4"	M	3-1/4"	V	13-1/8"						
E	19-1/4"	N	1-1/4"	W	6"	<div>Bottom Return Kit</div> <div>SH102A-SP</div>			<div>Unit Fit</div> <div>All WMF-50</div>		E	19-1/4"	N	1-1/4"	W	4-1/4"				
F	1"	O	--	X	11"						F	1"	O	--	X	15-3/4"				
G	2"	P	1-1/8"	Y	43"	<div><div>LISTED</div><div>MET</div><div>Listing # E114799</div><div>Complies With UL 1995</div><div>Fifth Edition Heating & Cooling Equipment</div></div>									G	2"	P	1"	Y	43"
H	12"	Q	3"	Z	4-3/4"										H	12"	Q	1-7/8"	Z	4-3/4"
I	4-1/8"	R	1"												I	2-1/4"	R	1"		

Electrical Data						
Model	Motor HP (120V)	Speed	AMPS Motor Pump		Min. Circuit Ampacity	Max. Breaker / Fuse Size
WMF-1815-50	1/3	Medium	6.5	0.57	9	15
WMF-2415-50	1/3	Medium	6.5	0.57	9	15
WMF-3015-50	1/3	High	6.5	0.57	9	15
WMF-3615-50	1/3	High	6.5	0.57	9	15

Pipe Size			
Model	Liquid Line	Suction Line	All WMF-50 Series Units
WMF-1815-50	3/8" OD	5/8" OD	Heating output will not exceed output of water heater.
WMF-2415-50	3/8" OD	5/8" OD	Heat BTUH is calculated at 70°F entering air temperature.
WMF-3015-50	3/8" OD	3/4" OD	180°F data is supplied for boiler applications.
WMF-3615-50	3/8" OD	3/4" OD	Approved for installation with 0" clearance to combustible materials.
All water connections are 7/8" OD			

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ChillBox™ WMF-50 Series Capacity Data



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1.5 Ton Capacity

DX Coil Is Compatible with Most Major Brands of Split Condensing Units.

Model Number	Heating and Cooling Performance					Blower Data					
WMF-1815-50	Nominal Cooling (BTUH)	Ft. Water (Coil Only)	Heating Capacity @ 3.5 GPM Entering Water Temperature			CFM vs. External Static Pressure					
	18,000	1.8	120°F	140°F	180°F	0.10	0.15	0.20	0.30	0.40	0.50
			18,500	25,900	33,300	725	700	690	660	635	620

Exact Footprint Replacement for the First Co. 18UCQB

2.0 Ton Capacity

DX Coil Is Compatible with Most Major Brands of Split Condensing Units.

Model Number	Heating and Cooling Performance					Blower Data					
WMF-2415-50	Nominal Cooling (BTUH)	Ft. Water (Coil Only)	Heating Capacity @ 3.5 GPM Entering Water Temperature			CFM vs. External Static Pressure					
	24,000	1.8	120°F	140°F	180°F	0.10	0.15	0.20	0.30	0.40	0.50
			22,100	31,000	38,400	725	700	690	660	635	620

Exact Footprint Replacement for the First Co. 24UCQB

2.5 Ton Capacity

DX Coil Is Compatible with Most Major Brands of Split Condensing Units.

Model Number	Heating and Cooling Performance					Blower Data					
WMF-3015-50	Nominal Cooling (BTUH)	Ft. Water (Coil Only)	Heating Capacity @ 3.5 GPM Entering Water Temperature			CFM vs. External Static Pressure					
	30,000	1.8	120°F	140°F	180°F	0.10	0.15	0.20	0.30	0.40	0.50
			25,000	35,100	45,200	1030	1015	990	945	895	830

Exact Footprint Replacement for the First Co. 31UCQB

3.0 Ton Capacity

DX Coil Is Compatible with Most Major Brands of Split Condensing Units.

Model Number	Heating and Cooling Performance					Blower Data					
WMF-3615-50	Nominal Cooling (BTUH)	Ft. Water (Coil Only)	Heating Capacity @ 3.5 GPM Entering Water Temperature			CFM vs. External Static Pressure					
	36,000	1.8	120°F	140°F	180°F	0.10	0.15	0.20	0.30	0.40	0.50
			29,700	41,200	65,400	1150	1120	1100	1050	985	930

Exact Footprint Replacement for the First Co. 36UCQB

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