



ChillBox™ 115V-Series

DX Cooling / Hot Water Heating

WMF-50 Series (1.5 to 3.0 Tons Capacities)

Compatible With R410A (For Servicing Existing Equipment Only), & R32, R454B



WMF-50 Series Shown Above 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
- Can Be Field Configured For R32, R454B with Refrigerant Sensor Kit

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

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

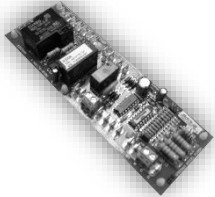
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ChillBox™ WMF-50 Series Features / Options / Accessories

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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

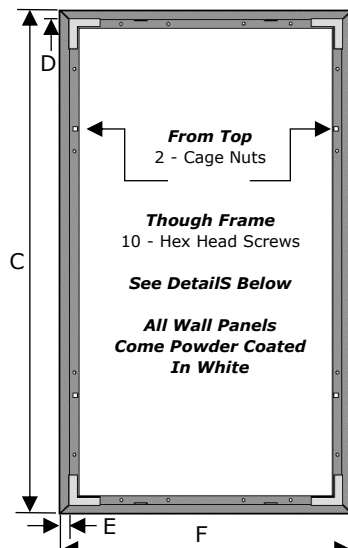
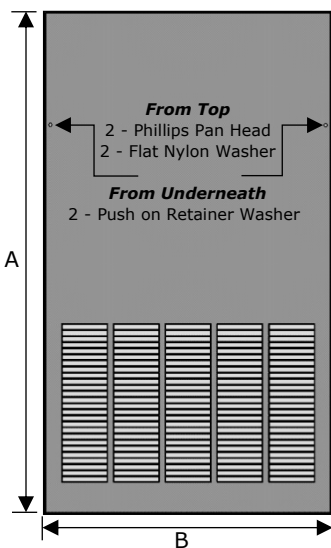
Bolt On Thermal Expansion Valve (Optional / Field Installed)



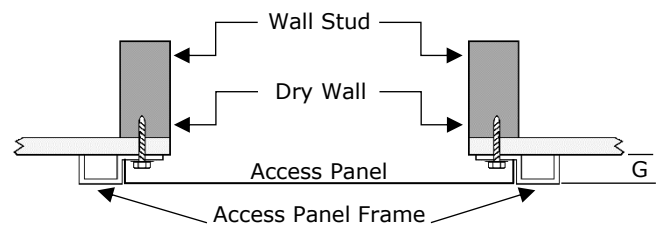
- Field Installable, Available for 1.5 to 3 Ton (See Chart for Part Number)
- Approved for both cooling only (non-heat pump) or heat pump applications.
- Non-Bleed Type (Hard Start Kit May Be Needed)
- Mounts Inside the Cabinet.

NOTE:

The TXV must be compatible with the A2L refrigerant used. If A2L refrigerants are used, the equipment must be equipped with a Refrigerant Detection Sensor (RDS). Failure to install the RDS may result in equipment damage, damage to property and / or death. Warranty will be void.



Field Installed TXV's	
	JRJ Part #
R410A*	VL001X-SP
R32**	VL001X-SP
R454B**	VL001X-SP
*For Servicing Existing Equipment Only	
**A2L Refrigerant Safety Group, Refrigerant Detection System (RDS) Required, (JRJ Part# KTA2L01)	



Replaces Models: First Co. 9PWUC03, 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 = WMP-94*-00
*Available In: L = Louvered Wall Panel / S = Solid Wall Panel

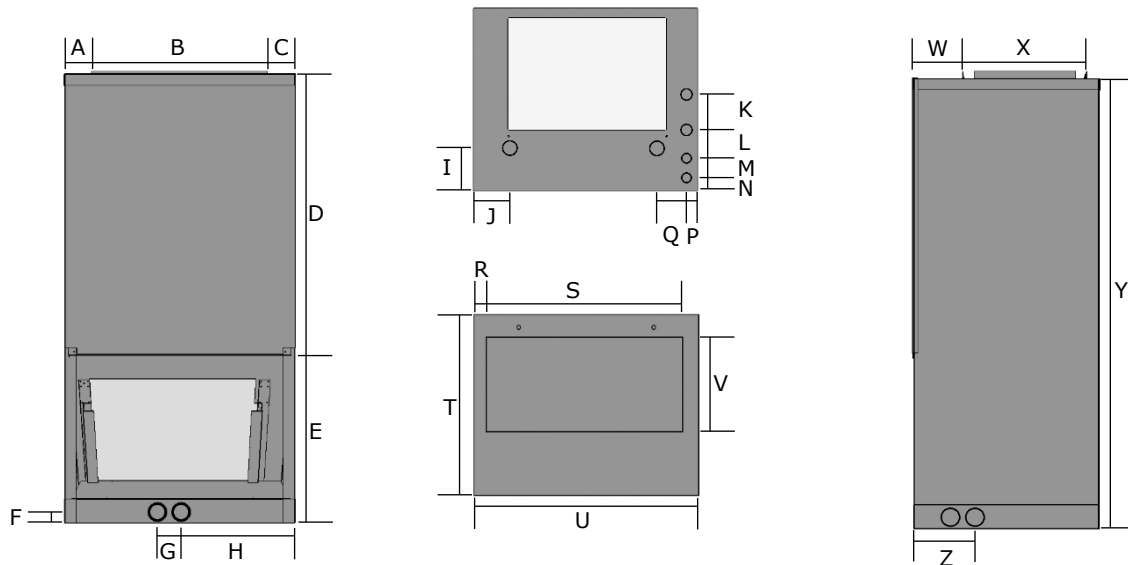
Warranty - 1 Year Parts
2 Year Coils (When Registered)
JRJ Manufacturing, LLC

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	--		

ChillBox™ WMF- 50 Series Dimensional Data



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Representative Drawing Only. Some Models May Vary in Appearance.

WMF-18/24/30-50					
A	3-1/2"	J	3-1/2"	S	20-1/4"
B	15-3/4"	K	11-5/8"	T	18"
C	3"	L	9-3/16"	U	22"
D	23-3/4"	M	3-1/4"	V	10-1/4"
E	19-1/4"	N	1-1/4"	W	6"
F	1"	O	--	X	11"
G	2"	P	1-1/8"	Y	43"
H	12"	Q	3"	Z	4-3/4"
I	4-1/8"	R	1"		

Model	Weight	Filter Size
WMF-1815-50	125 lbs.	16" X 16" X 1"
WMF-2415-50	125 lbs.	16" X 16" X 1"
WMF-3015-50	138 lbs.	18" X 20" X 1"
WMF-3615-50	138 lbs.	18" X 20" X 1"

Bottom Return Kit	Unit Fit
SH102A-SP	All WMF-50



Listing # E114799
Complies With UL 1995
Fifth Edition Heating &
Cooling Equipment

WMF-3615-50					
A	2"	J	1-3/4"	S	20-1/4"
B	18-1/4"	K	9-1/2"	T	21"
C	2"	L	7-1/2"	U	22"
D	23-3/4"	M	3-1/4"	V	13-1/8"
E	19-1/4"	N	1-1/4"	W	4-1/4"
F	1"	O	--	X	15-3/4"
G	2"	P	1"	Y	43"
H	12"	Q	1-7/8"	Z	4-3/4"
I	2-1/4"	R	1"		

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

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 BTU/H 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			

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 With TXV (Field Installed)	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. 19UCQB

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. 25UCQB

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 With TXV (Field Installed)	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. 37UCQB