



Kickster Wall Mount Fan Coil Installation Instructions Model KWM All Sizes with Valve Control Box (VCB)

Installation:

- Kickster Wall Mount hydronic fan coils with VCB are suitable for connection to a hot water supply at any pressure up to 300 psi with a maximum water temperature of 200°F.
- Building codes and plumbing regulations may vary. Check local codes and regulations before determining proper application and installation.
- Examine unit for shipping damage.
- Unit is designed to be mounted under sheetrock for proper fit of the cover. Install at least 6" - 8" above the floor for best performance. Unit will fit between standard 16" studs on center.
- For unit dimensions on the KWM6 refer to Figure 1 & 3. For KWM11 refer to figure 2 & 4.
- Secure unit in proper position. Unit must be level to assure proper drainage and operation.

Figure 1 - KWM6 VCB

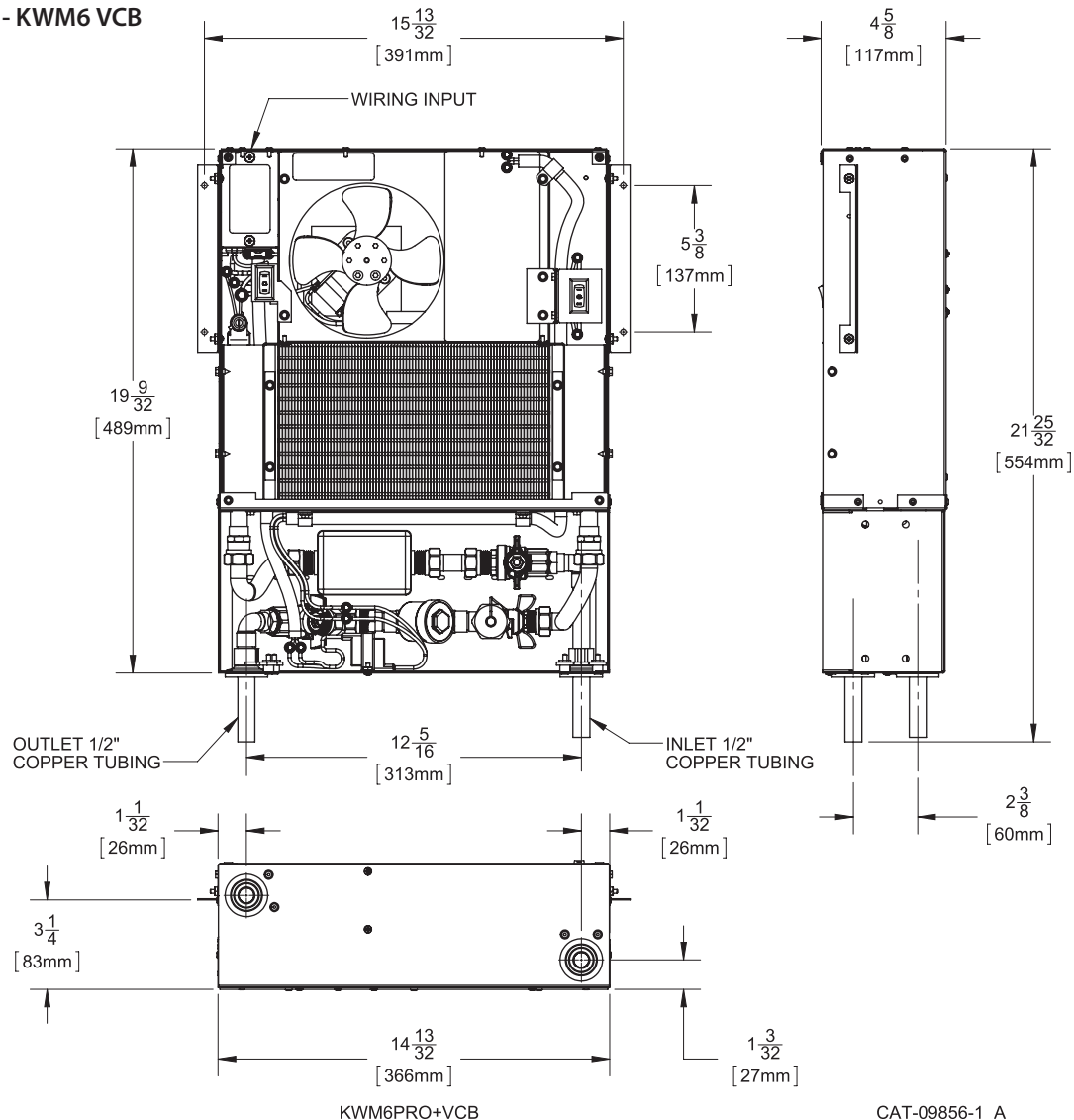
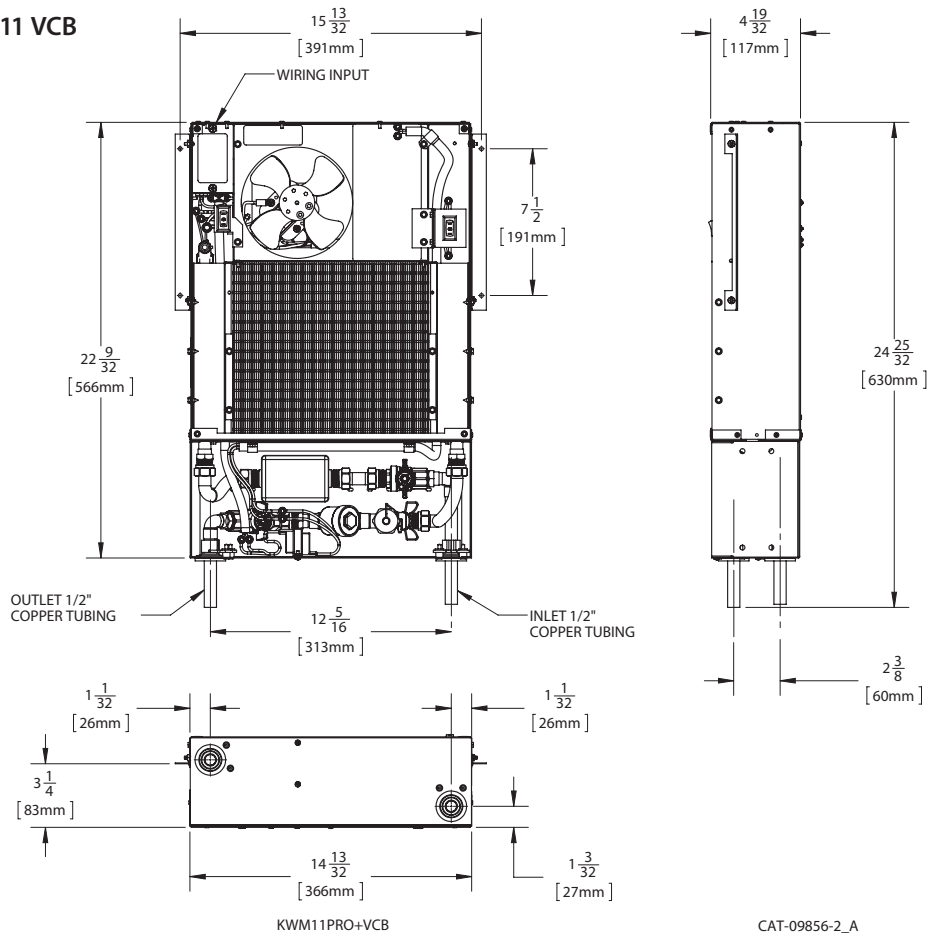


Figure 2 - KWM11 VCB



Piping

- The piping on the unit will usually be copper or any other locally approved piping. Accessible ½” sweat fittings are provided on the unit itself. For VCB component listing see Figure 3.
- All piping systems should be designed by a technician with experience in the various piping arrangements that work with this type of unit.
- As with any system employing circulated water, the pipes passing through unheated spaces should be insulated.

NOTE: When using mono-flo or “venturi” fittings, we suggest placement of a ball valve just after the supply take-off and before the return is connected.

Piping: Hot Water Boiler

- The unit supply line should be taken from the boiler side beyond any flo-control valve. If the system being used is a gravity-flow or cast iron hot water system, a separate circuit must be installed.

Piping: Water Heater

- To install correctly, a technician with knowledge of piping arrangements and back-flo valves must design the piping system.

Purge and Flush Instructions

After the unit is connected to the water system, verify that there are no leaks.

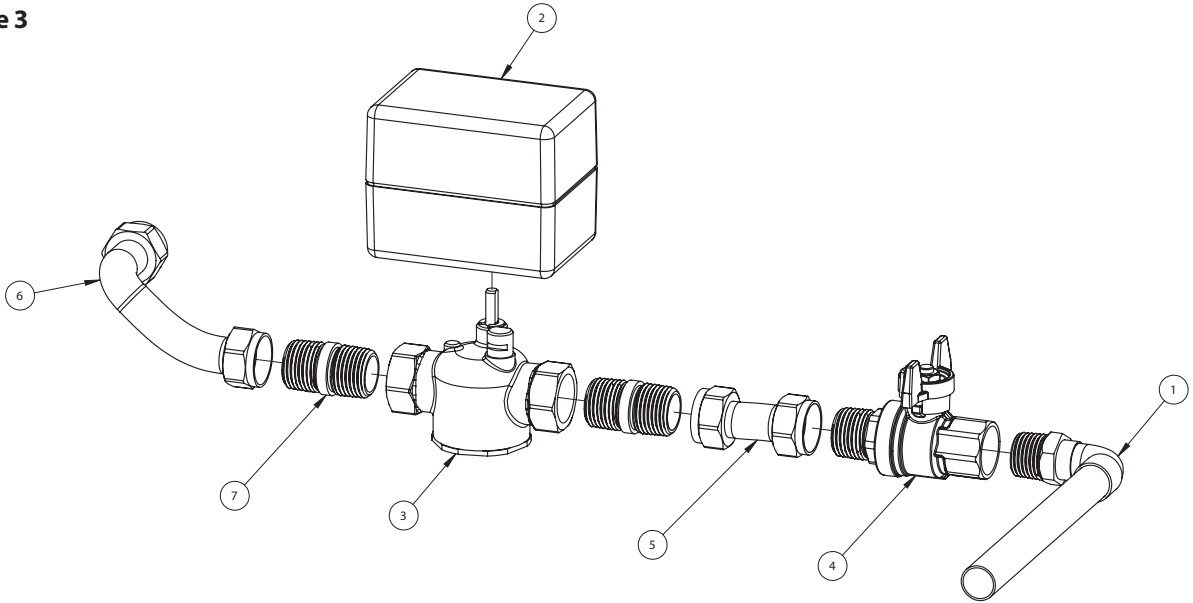
1. Close the ball valve on the outlet pipe
2. Open the ball valve on the inlet pipe
3. Remove the brass cap on the purge/flush valve
4. Connect a garden hose to the purge/flush valve and make sure you are running the hose into a drain or large bucket
5. Open the purge/flush valve. This will purge air from the system.
6. Continue to flush the system until all air and foreign matter is removed.
7. Close the purge/flush valve and replace the brass cap
8. Open the ball valve on the outlet pipe.

Prior to Zone valve actuator installation both ball valves must be open as pressure is applied to the system.

Wiring the Unit

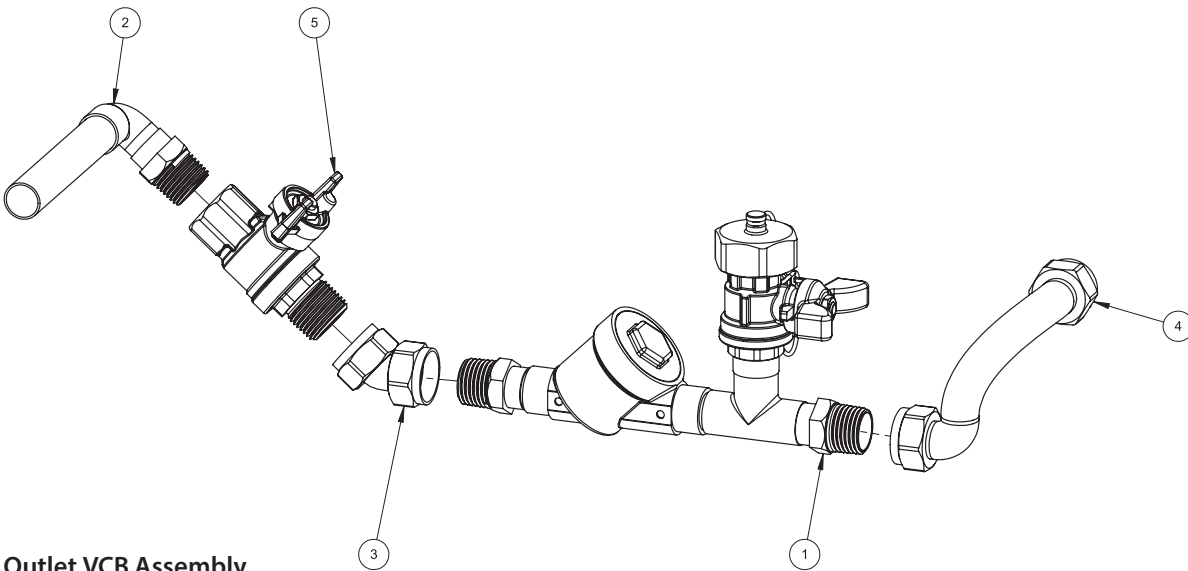
- A field wiring connection is provided on the unit. Connect wires at this point only.
- The unit is manufactured with a built-in factory wired aquastat with a set point of 140°F on and 110°F off. The aquastat may be disabled in the field if not required.
- For 24V wiring with transformer see Figure 4.
- For 120V wiring see Figure 5.

Figure 3



Inlet VCB Assembly

ITEM NO.	RES. COMF. P/N	DESCRIPTION	MATERIAL	QTY.
1	TUR-10053-001	ASSEMBLY, COPPER TUBE, VALVE CONTROL, INLET	N/A	1
2	TUR-09825-001	VALVE ACTUATOR, NORMALLY CLOSED, 120VAC	N/A	1
3	TUR-09831-001	VALVE BODY, 2-WAY, 1/2" NPT	N/A	1
4	TUR-09832-001	VALVE, FULL PORT BALL	BRASS	1
5	TUR-09823-002	FLEX PIPE, CSST, 1/2" FIP X 2"	304 SS	1
6	TUR-09823-005	FLEX PIPE, CSST, 1/2" FIP X 5"	304 SS	1
7	TUR-10096-001	NIPPLE, CLOSE, 1/2" NPT	BRASS	2



Outlet VCB Assembly

ITEM NO.	RES. COMF. P/N	DESCRIPTION	MATERIAL	QTY.
1	TUR-10052-001	ASSEMBLY, FLOW AND PURGE VALVE, VALVE CONTROL	N/A	1
2	TUR-10053-001	ASSEMBLY, COPPER TUBE, VALVE CONTROL, OUTLET	N/A	1
3	TUR-09823-002	FLEX PIPE, CSST, 1/2" FIP X 2"	304 SS	1
4	TUR-09823-005	FLEX PIPE, CSST, 1/2" FIP X 5"	304 SS	1
5	TUR-09832-001	VALVE, FULL PORT BALL	BRASS	1

Figure 4 - Wiring Diagram KWM6/KWM11 VCB 24V Wiring with Transformer

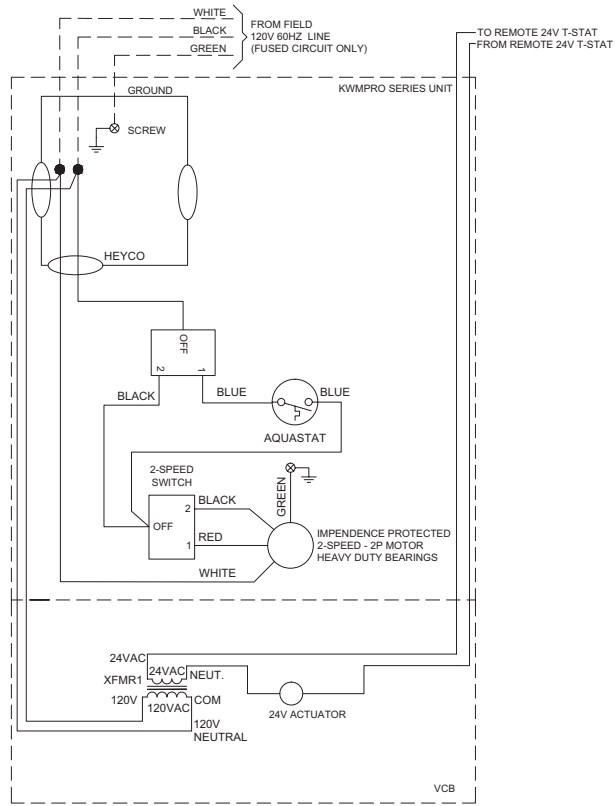
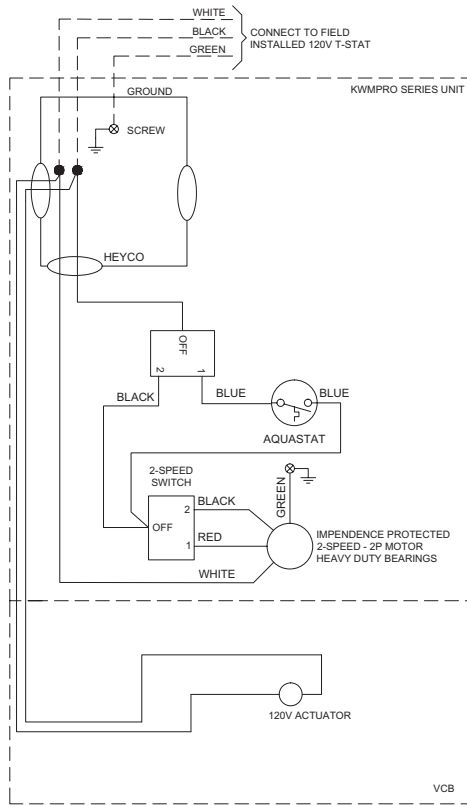


Figure 5 - Wiring Diagram KWM6/KWM11 VCB 120V Wiring



NOTES:
 1. FOR USE WITH MODELS: KWMPRO SERIES
 2. ALL WIRING SHALL MEET ALL LOCAL AND NATIONAL CODE.