



FIRST CO.  
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WWW.FIRSTCO.COM

# UCQBR Series

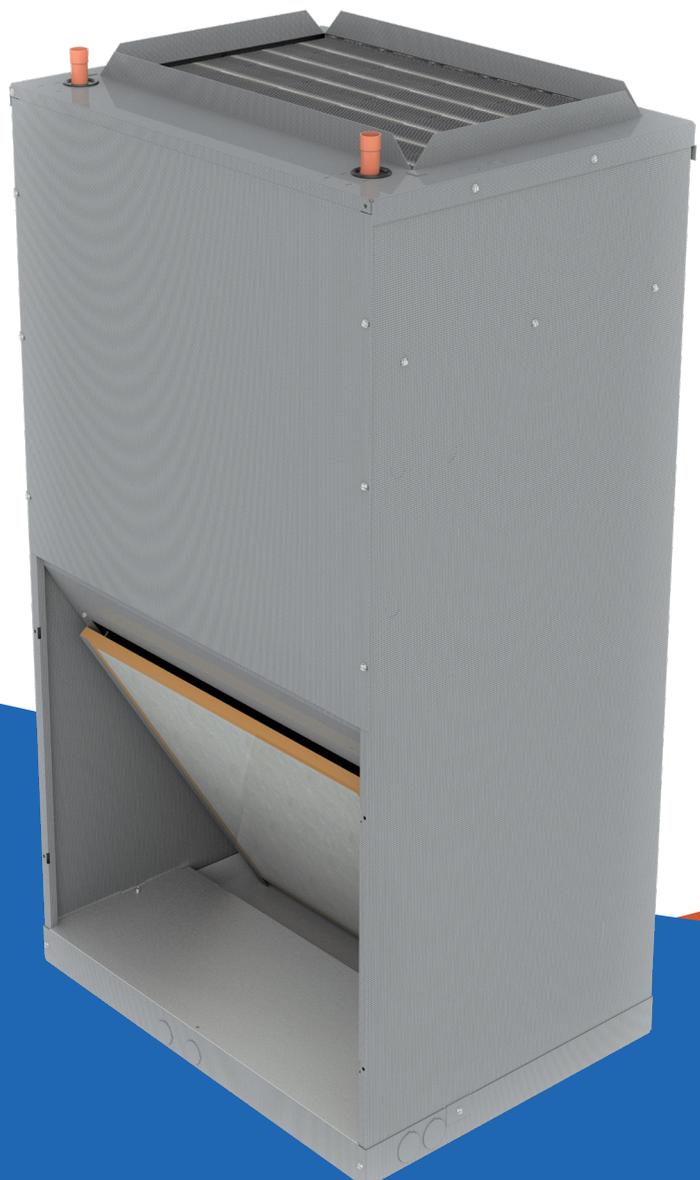
Designed For Use with Tank-less  
Water Heaters!



## Wall / Closet Air Handlers

1.5 - 3.0 Tons Cooling or Heat Pump

Up to 45,300 BTUH Hydronic Heat



# UCQBR Series

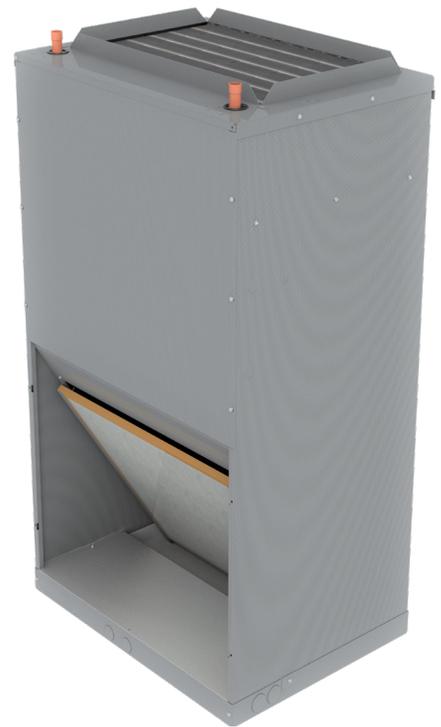
These up flow air handlers are designed for use with today's higher efficiency split-system heat pump and condensing units.

The **UCQBR** can be installed on a closet platform, hung on a closet wall, or recessed in a wall between the studs.

These fan coils are compatible with any source of hot water that doesn't exceed 180°. These units are NSF/ANSI certified for use with domestic water. This certification only applies if the bronze pump is used and not the cast iron.

The **UCQBR** is the most innovative hydronic heat air handler available today and is the only hydronic air handler with the following features:

- **Standard low lead Bronze pump.**
- **Multi-function micro-processor circuit board with these standard features.**
  - **Automatic pump timer** - The pump operates for sixty seconds every six hours in order to purge the water from the hot water coil and piping (the pump timer cycle is skipped while the compressor is operating).
  - **Blower-on fan delay** (heating mode) - preheats the HW coil for 45 seconds.
  - **Blower-off fan delay** (heating and cooling modes) - blower continues to operate for 45 seconds after thermostat is satisfied for increased efficiency.
  - **TT Connections for boiler or tank-less control**

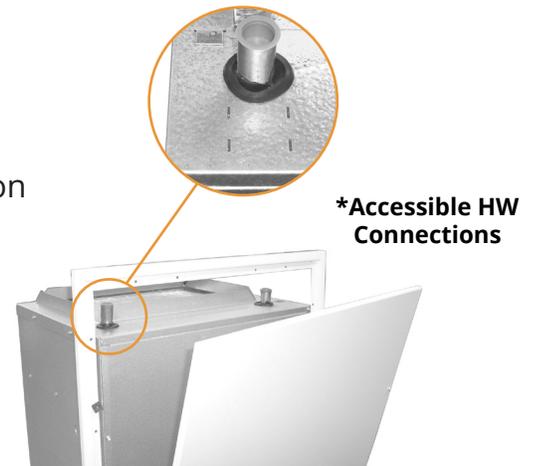


**Standard Unit**  
Closet application - Front Return Air

*First Co's customer is ultimately responsible for confirming which fan coil models are compatible with selected outdoor unit(s) and which expansion valves (if any) are required. To determine certified indoor/outdoor combinations, go to [www.firstco.com](http://www.firstco.com) or contact the factory.*

## STANDARD FEATURES:

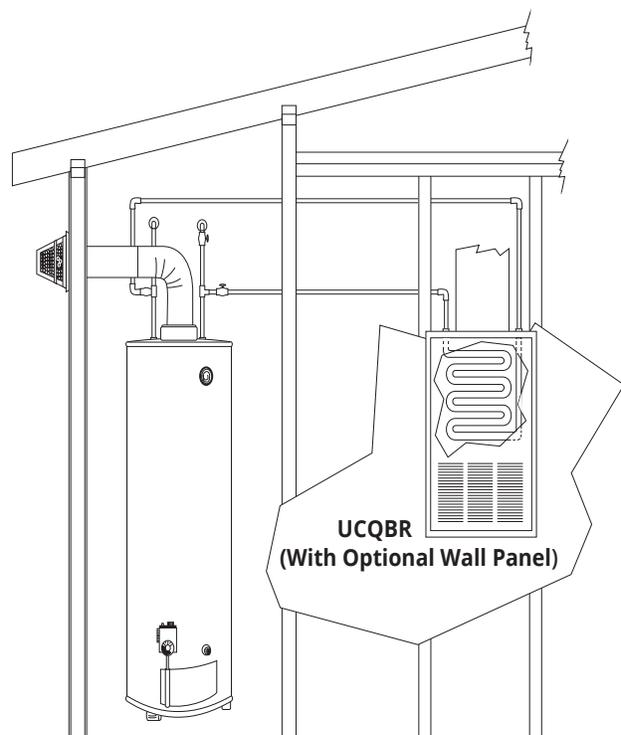
- **Multi-function micro-processor board**
- 120V motor, 24V controls
- Cooper tube/aluminum fin heating and cooling coils
- Blower door shut-off switch
- Separate compartment for drain connections
- Drain pan has 3/4" female primary and secondary fittings
- Higher efficiency cooling coil with piston-type or R410 TXV metering device (contact factory for correct indoor/outdoor match)
- Convenient equalizer connection for field or factory installed R410A TXV (non-bleed type)
- Circulating pump with unique, easy access anti-siphon check valve, and air purge valve
- Easily accessible 1" filter
- **Cabinet air leakage is no more than 2% when tested in accordance with ASHRAE 193.**



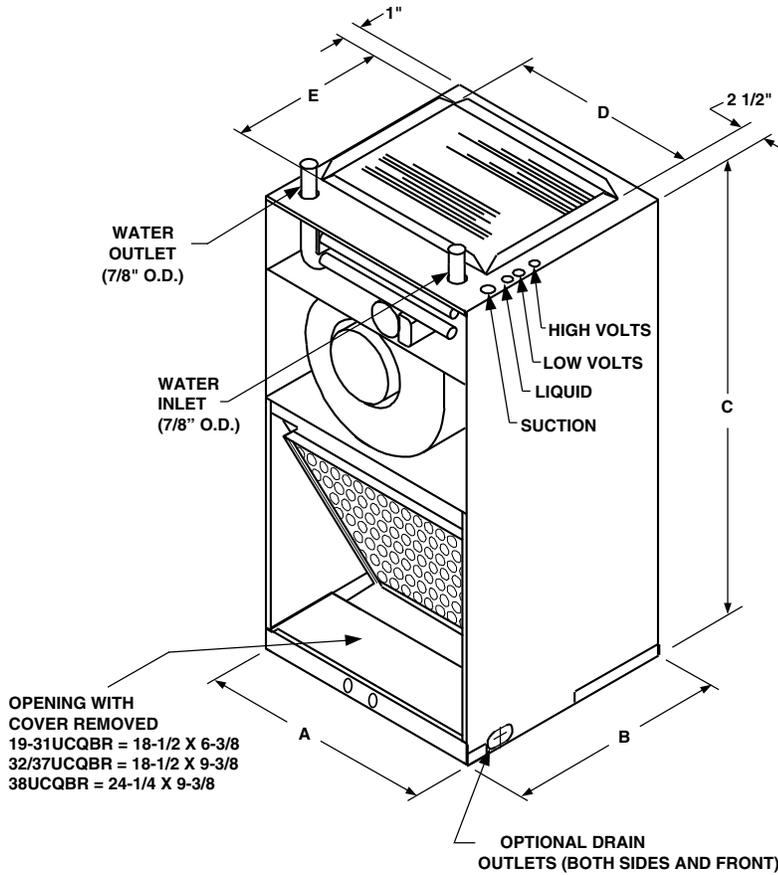
**Unit shown with optional louvered wall panel**  
Recessed wall application

## OPTIONAL FEATURES: (see p.4)

- Optional features include Wall Panels with Captive Screws Factory or Field installed TXV's (non-bleed type), Condensate Overflow Switch, Closet Hanger Bracket Kit, and Bottom Return Air Kit.
- **Unique New Feature** - In recessed wall applications utilizing the optional wall panel, the hot water coil can be removed without modifications to the drywall.
- To allow this feature, the top of the **UCQBR** cabinet is notched for coil removal and the wall panel is 3" taller than the cabinet.



# UCQBR Series



PHYSICAL DIMENSIONS								
UNIT MODEL	A	B	C	D	E	FILTER SIZE	LIQUID LINE	SUCTION LINE
18-25UCQBR	22-1/8	18	43	18	12-1/2	18 X 18	3/8" O.D.	5/8" O.D.
26/31UCQBR	22-1/8	18	43	18	12-1/2	18 X 20	3/8" O.D.	3/4" O.D.
32-37UCQBR	22-1/8	21	43	18	z15-1/2	18 X 24	3/8" O.D.	3/4" O.D.
38UCQBR	28-1/8	21	46	24-1/8	15-3/4	24 X 24	3/8" O.D.	7/8" O.D.

**NOTE:**  
 1. All coil connections are sweat

## MODEL NUMBERS:

MODEL SIZE (BTUH COOLING)	MODEL NUMBER
18,000	19UCQBR R410 TXV
18,000	20UCQBR R410 TXV
24,000	25UCQBR R410 TXV
24,000	26UCQBR R410 TXV
30,000	31UCQBR R410 TXV
30,000	32UCQBR R410 TXV
36,000	37UCQBR R410 TXV
36,000	38UCQBR R410 TXV

**NOTES:**  
 1. TXV's are approved for cooling or heat pump operation.  
 2. TXV's are non-bleed type. A field installed hard start kit may be required.



# UCQBR Series

(See P. 3 for Model Numbers)

PERFORMANCE DATA																
UNIT MODEL	NOMINAL CFM	HEATING GPM (NOM.)	HEATING BTUH (1000) AT ENTERING WATER TEMPERATURE (1) Delta-T 20°F & GPM										TOTAL AMPS (MOTOR) (120V)	TOTAL AMPS (PUMP) (120V)	MIN CIRCUIT AMPACITY	MAX CIRCUIT PROTECTION
			120°F	GPM	130°F	GPM	140°F	GPM	150°F	GPM	160°F	GPM				
19UCQBR	600	4	16.9	1.7	20.3	2	23.7	2.4	27.1	2.7	30.5	3.1	5.4	.84	6	15
20UCQBR	600	4	16.9	1.7	20.3	2	23.7	2.4	27.1	2.7	30.5	3.1	5.4	.84	6	15
25UCQBR	690	4	20.6	2.1	24.7	2.5	28.8	2.9	32.9	3.3	37	3.7	5.4	.84	8	15
26UCQBR	700	4	20.8	2.1	24.9	2.5	29.1	2.9	33.3	3.3	37.4	3.7	5.4	.84	8	15
31UCQBR	940	4	24.8	2.5	29.7	3	34.7	3.5	39.7	4	44.6	4.5	8.1	.84	8	15
32UCQBR	840	4	24.8	2.5	29.8	3	34.8	3.5	39.9	4	44.8	4.5	8.1	.84	11	15
37UCQBR	1020	4	27.8	2.8	33.4	3.3	39	3.9	44.6	4.5	50.2	5	8.1	.84	11	15
38UCQBR	1050	4	27.8	2.8	33.4	3.3	39	3.9	44.6	4.5	50.2	5	8.1	.84	11	15

**NOTES:**

- (1) Heat BTUH is at 70°F entering air temperature.
- (2) Based on 20°F Delta-T. Velocity not to exceed 4ft./sec.
- (3) Heat BTUH output will not exceed output of water source.

BLOWER DATA											
UNIT MODEL	MOTOR H.P. (120V)	MOTOR AMPS (120V)	FAN SPEED	CFM vs. EXTERNAL STATIC PRESSURE							
				0.10	0.15	0.20	0.25	0.30	0.40	0.50	
19UCQBR	1/3	5.4	MED-HIGH	790	775	760	745	730	700	670	
			MED-LOW	710	695	680	665	650	630	610	
			LOW	560	550	540	525	510	490	460	
20UCQBR	1/3	5.4	MED-HIGH	770	750	730	710	690	650	610	
			MED-LOW	690	675	660	645	630	590	550	
			LOW	540	525	510	495	480	450	420	
25UCQBR	1/3	5.4	HIGH	840	820	800	780	760	710	660	
			MED-HIGH	770	750	730	710	690	650	610	
			MED-LOW	690	665	660	645	630	590	550	
26UCQBR	1/3	5.4	HIGH	860	845	830	810	790	750	700	
			MED-HIGH	780	765	750	735	720	680	640	
			MED-LOW	700	685	670	655	640	600	560	
31UCQBR	1/2	8.1	HIGH	1070	1045	1020	995	970	920	850	
			MED-HIGH	1020	1000	980	960	940	890	820	
			MED-LOW	760	755	750	735	720	680	640	
32UCQBR	1/2	8.1	MED-HIGH	1140	1110	1080	1050	1020	960	900	
			MED-LOW	900	885	870	855	840	790	740	
			LOW	650	645	640	635	630	610	580	
37UCQBR	1/2	8.1	HIGH	1160	1135	1110	1080	1050	990	930	
			MED-HIGH	1120	1095	1070	1045	1020	970	900	
			MED-LOW	890	875	860	845	830	790	740	
38UCQBR	1/2	8.1	HIGH	1400	1375	1350	1325	1300	1250	1200	
			MED	1260	1245	1230	1210	1190	1150	1100	
			LOW	1090	1080	1070	1055	1040	1010	970	

**NOTES:**

- 1. Add nominal .05 static when optional wall panel is used.
- 2. Shaded rows are factory preset speeds.

In keeping with its policy of continuous progress and product improvement, First Co. Reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at [www.firstco.com](http://www.firstco.com).



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NSF/ANSI  
 169:2016

# Accessories

ALL UCQBR OPTIONAL ACCESSORIES (FIELD INSTALLED)				
DESCRIPTION	PART NO.	FOR	DIMENSIONS	
WALL PANEL (1)	9PWUC03L	12-37UCQBR	49-3/8 X 25-5/8	46-3/8 x 22-5/8
	9PWUC04L	38UCQBR	52-1/2 X 31-5/8 (Outside Frame)	49-1/2 X 28-5/8 (Inside Frame)
CLOSET BRKT.	90PK3	12-37UCQBR	1-3/4 X 22-1/8	---
	90PK31	38UCQBR	1-3/4 X 27-15/16	---
BOTTOM RETURN AIR KIT	90PK5	12-37UCQBR	20-7/16 X 22	---
	90PK51	38UCQBR	20-5/8 X 28	---
CONDENSATE OVERFLOW SWITCH	SS3	ALL UCQBR	---	---
FREEZE (2) PROTECTOR	941-1	ALL UCQBR	---	---

**NOTES:**

- (1) Wall panels are taller than the **UCQBR** cabinet to allow access to hot water coil connections.
- (2) Energizes the pump if HW coil temperature falls below 40°.



**Condensate Overflow Switch #SS3**



**Optional wall panel**  
Recessed wall application

EXPANSION VALVE KITS (Heat Pump or Cooling Only) (FIELD INSTALLED)		
PART NO.	TYPE	FOR
9EVR410-1	R-410A	12 - 38UCQBR (1-1/2 - 3 TON)

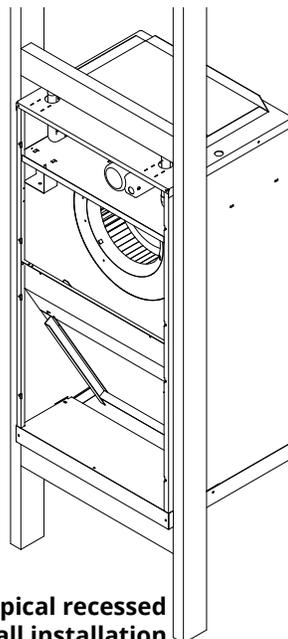
**NOTES:**

- 1. Expansion valve kits are approved for both cooling only (non heat pump) or heat pump applications.
- 2. Valves are non-bleed type.
- 3. Valves mount inside unit cabinet



**Condensate drain connections**  
With drain cover removed  
Thermoplastic pan shown

**Unit shown with optional bottom return air kit**



**Typical recessed Wall installation**

**Unit shown with front panel removed**





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