

NEW MODELS  
ADDED (20, 26, 32)



## UC-HW Series

### Wall / Closet Fan Coils

1.5 - 3.0 Tons **DX Cooling**

Up to 72,400 BTUH **Hydronic Heat**  
(Without Pump)

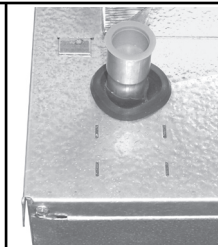


Unit shown without wall panel  
(Closet application - Front Return Air)



Unit shown with bottom return air cover  
(Closet application - Bottom Return Air)

#### \* Accessible HW Connections



Unit shown with optional louvered wall panel  
(Recessed wall application)

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

All **UC-HW's** include high efficiency cooling coils and separate hot water coils.

**(1) 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 matches, go to: [www.firstco.com](http://www.firstco.com) or contact the factory.**

The **UC-HW** can be installed on a closet platform, hung on a closet wall, or recessed in a wall between the studs. All models are 22" wide to allow standard stud spacing for all sizes.

The cabinet is made of galvanized steel and is fully insulated. The non-corrosive thermoplastic condensate pan is sloped to ensure proper drainage. Drain piping can enter from the bottom, front, left, or right side of the cabinet.

#### Standard Features:

- 120V motor, 24V controls
- Cooper tube/aluminum fin heating and cooling coils
- Blower door shut-off switch
- Drain pan is coated to reduce corrosion and sloped for positive drainage
- Separate compartment for drain connections allows the field use of PVC drain piping
- Drain pan has 3/4" female primary and secondary fittings
- Higher efficiency cooling coil
- Convenient equalizer connection for field or factory installed R410A TXV (non-bleed type)
- Easily accessible 1" filter

#### Optional Features: (see Page 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 (#9PWUC03L), the hot water coil can be removed without modifications to the drywall. To allow this feature, the top of the **UC-HW** cabinet is notched for coil removal and the wall panel is 3" taller than the cabinet.

# UC-HW Series

Up to 72,400 BTUH Hydronic Heat

(See P. 3 for Model Numbers)



PERFORMANCE DATA						
UNIT MODEL	NOMINAL COOLING BTUH	GPM (HEATING)	P.D. (FT. WATER) (COIL ONLY)	HEATING BUTH (1000) AT ENTERING WATER TEMPERATURE (1)		
				120°F	140°F	180°F
18-20UC-HW	18,000	4.5	3.3	19.1	26.8	42.1
		3.5	2.1	18.5	25.9	40.7
		2.5	1.2	17.6	24.6	38.7
24-26UC-HW	24,000 / 18,000	4.5	3.3	22.9	32.1	50.4
		3.5	2.1	22.1	31.0	48.7
		2.5	1.2	20.8	29.2	45.9
30/31UC-HW	30,000 / 24,000	4.5	3.3	26.1	36.5	57.3
		3.5	2.1	25.0	35.1	55.1
		2.5	1.2	23.5	32.9	51.7
32UC-HW	30,000 / 24,000	4.5	3.6	28.1	39.3	61.7
		3.5	2.4	26.9	37.7	59.2
		2.5	1.3	25.2	35.3	55.4
36/37UC-HW	36,000 / 30,000	4.5	3.6	30.9	43.2	67.9
		3.5	2.4	29.6	41.3	64.9
		2.5	1.3	27.5	38.5	60.5

**NOTES:**

1. Heating output will not exceed output of hot water source.
  2. Approved for installation with 0" clearance to combustible materials.
  3. Contact factory for correct matches with outdoor unit.
- (1) Heat BTUH is at 70°F entering air temperature.

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
18/19UC-HW	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
20UC-HW	1/3	5.4	MED-HIGH	770	750	730	710	690	650	510
			MED-LOW	690	675	660	645	630	590	550
			LOW	540	525	510	495	480	450	420
24/25UC-HW	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
26UC-HW	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
30/31UC-HW	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
32UC-HW	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
36/37UC-HW	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

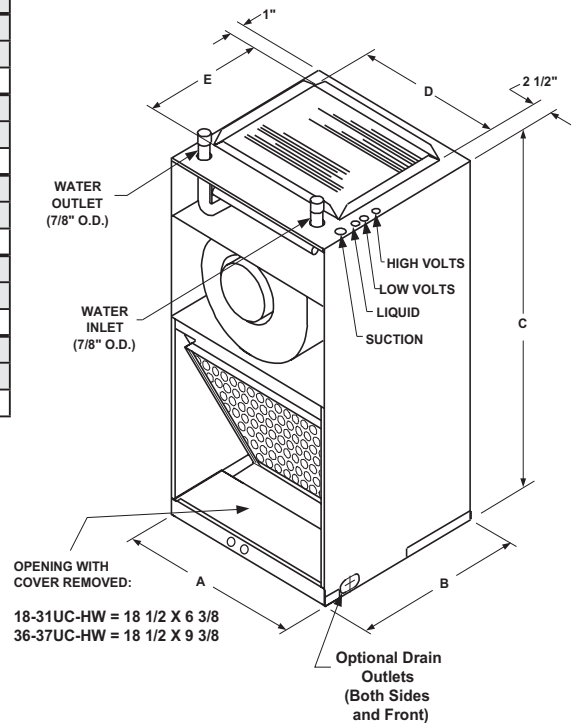
**NOTES:**

1. Add nominal .05 static when optional wall panel is used.
2. Shaded areas are factory motor settings.

PHYSICAL DIMENSIONS							
UNIT MODEL	A	B	C	D	E	FILTER SIZE	SUCTION LINE
18-25UC-HW	22-1/8	18	43	18	12-1/2	18 X 18	3/8" O.D.
26-31UC-HW	22-1/8	18	43	18	12-1/2	18 X 20	3/8" O.D.
32-37UC-HW	22-1/8	21	43	18	15-1/2	18 X 24	3/8" O.D.

**NOTES:**

1. All coil connections are sweat



# UC-HW Series

Up to 72,400 BTUH Hydronic Heat

## MODEL NUMBERS:

MODEL SIZE (BTU)	MODEL (PISTON)	FACTORY INSTALLED TXV'S
		MODEL (R-410A TXV)
18,000	18UC-HW	18UC-HW R410A TXV
18,000	19UC-HW	19UC-HW R410A TXV
18,000	20UC-HW	20UC-HW R410A TXV
24,000	24UC-HW	24UC-HW R410A TXV
24,000	25UC-HW	25UC-HW R410A TXV
24,000	26UC-HW	26UC-HW R410A TXV
30,000	30UC-HW	30UC-HW R410A TXV
30,000	31UC-HW	31UC-HW R410A TXV
30,000	32UC-HW	32UC-HW R410A TXV
36,000	36UC-HW	36UC-HW R410A TXV
36,000	37UC-HW	37UC-HW R410A TXV

**All TXV's are approved for cooling only or heat pump operation (non-bleed type).**

**NOTE:**

Expansion valve requirement depends on the selected outdoor unit.  
Go to: [www.firstco.com](http://www.firstco.com) or contact the factory for assistance.

**(See P. 4 for Optional Accessories)**

OPTIONAL ACCESSORIES (FIELD INSTALLED)				
DESCRIPTION	PART #	FOR	DIMENSIONS	
WALL PANEL (1)	9PWUCO3L	ALL UC-HW	49-3/8 X 25-5/8 (Outside Frame)	46-3/8 X 22-5/8 (Inside Frame)
CLOSET BRKT.	90PK3	ALL UC-HW	1-1/2 X 22-1/8	---
BOTTOM RETURN AIR KIT	90PK5	ALL UC-HW	21-5/8 X 22	---
CONDENSATE (1) OVERFLOW SWITCH	SS3	ALL UC-HW	---	---

**NOTES:**

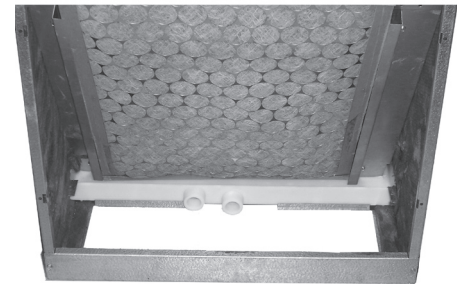
(1) Wall Panels are taller than the UC-HW cabinet to allow access to hot water coil connections.



Optional wall panel  
(Recessed wall application)



Condensate Overflow Switch  
#SS3



Condensate drain connections  
(With drain cover removed)  
(Male connections shown)



Unit shown with front panel  
removed



Unit shown with optional  
bottom return air kit (# 90PK5)

EXPANSION VALVE KITS (Heat Pump or cooling only) (FIELD INSTALLED)		
PART NO.	TYPE	FOR
9EVR410-1	R410A	18 - 37UC-HW (1-1/2 - 3 TON)

**NOTES:**

1. Above expansion valve kits are approved for both cooling only (non heat pump) or heat pump applications.
2. Valves are non-bleed type. Field added. Hard start kit may be required.
3. Hot water valves must be installed externally.

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).