

UC-HW Series

Wall / Closet Air Handlers

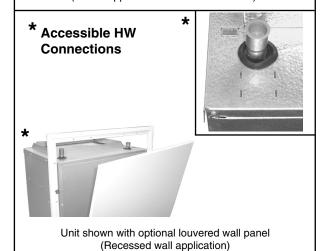
1.5 - 3.0 Tons **Cooling or Heat Pump**Up to 72,400 BTUH **Hydronic Heat**(Without Pump)



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



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



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 seperate 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 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.

The cabinet is made of galvanized steel and is fully insulated. The 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 sloped for positive drainage
- Separate compartment for drain connections
- 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, 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

(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)			MIN. CIRCUIT	MAX. FUSE OR HACR
				120°F	140°F	180°F	AMPACITY	BREAKER
18-20UC-HW	18,000	4.5 3.5 2.5	3.3 2.1 1.2	19.1 18.5 17.6	26.8 25.9 24.6	42.1 40.7 38.7	8	15
24-26UC-HW	24,000 / 18,000	4.5 3.5 2.5	3.3 2.1 1.2	22.9 22.1 20.8	32.1 31.0 29.2	50.4 48.7 45.9	8	15
30/31UC-HW	30,000 / 24,000	4.5 3.5 2.5	3.3 2.1 1.2	26.1 25.0 23.5	36.5 35.1 32.9	57.3 55.1 51.7	11	15
32UC-HW	30,000 / 24,000	4.5 3.5 2.5	3.6 2.4 1.3	28.1 26.9 25.2	39.3 37.7 35.3	61.7 59.2 55.4	11	15
36-38UC-HW	36,000 / 30,000	4.5 3.5 2.5	3.6 2.4 1.3	30.9 29.6 27.5	43.2 41.3 38.5	67.9 64.9 60.5	11	15



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										
		MOTOR	FAN	CFM vs. EXTERNAL STATIC PRESSURE						
MODEL	H.P. (120V)	AMPS (120V)	SPEED	0.10	0.15	0.20	0.25	0.30	0.40	0.50
		5.4	MED-HIGH	790	775	760	745	730	700	670
18/19UC-HW	1/3		MED-LOW	710	695	680	665	650	630	610
			LOW	560	550	540	525	510	490	460
			MED-HIGH	770	750	730	710	690	650	610
20UC-HW	1/3	5.4	MED-LOW	690	675	660	645	630	590	550
			LOW	540	525	510	495	480	450	420
			HIGH	840	820	800	780	760	710	660
24/25UC-HW	1/3	5.4	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
	1/2		MED-HIGH	1020	1000	980	960	940	890	820
			MED-LOW	760	755	750	735	720	680	640
			MED-HIGH	1140	1110	1080	1050	1020	960	900
32UC-HW	1/2	8.1	MED-LOW	900	885	870	855	840	790	740
			LOW	650	645	640	635	630	610	580
36/37UC-HW		8.1	HIGH	1160	1135	1110	1080	1050	990	930
	1/2		MED-HIGH	1120	1095	1070	1045	1020	970	900
			MED-LOW	890	875	860	845	830	790	740
	1/2	8.1	HIGH	1400	1375	1350	1325	1300	1250	1200
38UC-HW			MED	1260	1245	1230	1210	1190	1150	1100
			LOW	1090	1080	1070	1055	1040	1010	970

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.

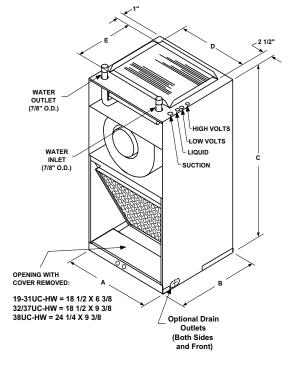
NOTES:

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

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

NOTES:

1. All coil connections are sweat



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MODEL NUMBERS:

		FACTORY INSTALLED TXV'S
MODEL SIZE (BTU)	MODEL (PISTON)	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
36,000	38UC-HW	38UC-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 or contact the factory for assistance.

(See P. 4 for Optional Accessories)

ALL UC-HW OPTIONAL ACCESSORIES (FIELD INSTALLED)						
DESCRIPTION	PART NO.	FOR	DIMENSIONS			
	9PWUC03L	18-37UC-HW	49-3/8 X 25-5/8	46-3/8 x 22-5/8		
WALL PANEL (1)	9PWUC04L	38UC-HW	52-1/2 X 31-5/8 (Outside Frame)	49-1/2 X 28-5/8 (Inside Frame)		
CLOSET BRKT.	90PK3	18-37UC-HW	1-3/4 X 22-1/8			
CLOSET BRKT.	90PK31	38UC-HW	1-3/4 X 27-15/16			
BOTTOM RETURN	90PK5	18-37UC-HW	20-7/16 X 22			
AIR KIT	90PK51	38UC-HW	20-5/8 X 28			
CONDENSATE OVERFLOW SS3 SWITCH		ALL UC-HW				
FREEZE (2) PROTECTOR 941-1		ALL UC-HW				

NOTES:

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

EXPANSION VALVE KITS (Heat Pump or Cooling Only) (FIELD INSTALLED)					
PART NO. TYPE FOR					
9EVR410-1	R410A	18 - 38UC-HW (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. Field added. Hard start kit may be required.
- 3. Valves mount inside unit cabinet





Unit shown with front panel removed



Optional wall panel (Recessed wall application)



Condensate drain connections (With drain cover removed)



Unit shown with optional bottom return air kit