



# UCX

Air-Handlers

Wall / Closet Air Handler

1.5 - 3 Tons Cooling or Heat Pump

Up to 10 kW Electric Heat



# UCX

These upflow air handlers are designed for use with today's higher efficiency split-system condensing units and heat pumps. All **UCX** fan coils include a standard ECM motor. These motors offer the efficiency of a variable speed type ECM motor, but at a considerably lower cost.

The **UCX** 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. For installation flexibility, drain piping can come from the bottom, front, left, or right side of the cabinet.

The removable door of the optional wall panel now includes "captive screws" that won't fall out when the door is removed for service or filter change.

## STANDARD FEATURES:

- High efficiency standard ECM motor
- Factory installed disconnect
- 240V motor, 24V controls
- Factory or field installed R-410A TXV (non-bleed type) (cooling or heat pump operation).
- Separate compartment for drain connections
- Easily accessible 1" throwaway filter



Unit shown with louvered wall panel  
(Recessed wall application)



Unit shown with optional  
bottom return air kit

## OPTIONAL FEATURES:

Optional accessories include field installed Heater Kits (only for 0kW models) , factory or field installed TXV Kits (non-bleed type), Wall Panels with Captive Screws, Condensate Overflow Switch, Closet Hanger Bracket Kit, and Bottom Return Air Kit.

*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.ahridirectory.org](http://www.ahridirectory.org) or [www.firstco.com](http://www.firstco.com).*

ELECTRICAL DATA													
UNIT MODEL			NOM. COOL BTUH	ELECTRIC HEAT CAPACITY				TOTAL AMPS		MIN. AMPACITY		MAX. OVERCURRENT PROTECTION	
				kW		BTUH		240V	208V	240V	208V	240V	208V
				240V	208V	240V	208V						
19UCX 20UCX	0-HK	600	18000	0	0	0	0	2.8	2.8	4	4	15	15
	3			3	2.3	10236	6824	15.3	13.6	20	18	20	20
	4			4	3.0	13648	10236	19.5	17.2	25	22	25	25
	5			5	3.8	17061	13648	23.6	20.8	30	27	30	30
	6			6	4.5	20473	15355	27.8	24.4	35	31	35	35
	8			8	6	27297	20473	36.1	31.6	46	40	50	40
	10			10	7.5	34121	25591	44.5	38.9	56	49	60	50
	25UCX 26UCX			0-HK	800	24000/ 18000	0	0	0	0	2.8	2.8	4
3		3	2.3	10236			6824	15.3	13.6	20	18	20	20
4		4	3.0	13648			10236	19.5	17.2	25	22	25	25
5		5	3.8	17061			13648	23.6	20.8	30	27	30	30
6		6	4.5	20473			15355	27.8	24.4	35	31	35	35
8		8	6	27297			20473	36.1	31.6	46	40	50	40
10		10	7.5	34121			25591	44.5	38.9	56	49	60	50
31UCX		0-HK	1000	30000/ 24000			0	0	0	0	4.1	4.1	6
	3	3			2.3	10236	6824	16.6	14.9	21	19	25	20
	4	4			3.0	13648	10236	20.8	18.5	26	24	30	25
	5	5			3.8	17061	13648	24.9	22.1	32	28	35	30
	6	6			4.5	20473	15355	29.1	25.7	37	33	40	35
	8	8			6	27297	20473	37.4	32.9	47	42	50	45
	10	10			7.5	34121	25591	45.8	40.2	58	50	60	50
	32UCX 37UCX 38UCX	0-HK			1200	36000/ 30000	0	0	0	0	6.0	6.0	8
3		3	2.3	10236			6824	18.5	16.8	24	22	25	25
5		5	3.8	17061			13648	26.8	24.0	34	31	35	35
6		6	4.5	20473			15355	31.0	27.6	39	35	40	35
8		8	6	27297			20473	39.3	34.8	50	44	50	45
10		10	7.5	34121			25591	47.7	42.1	60	53	60	60

NOTES: (1) 0 - 10 kW is available for ALL UCX models



In keeping with its policy of continuous progress and product improvement, First Co. Reserves the right to make changes without notice.

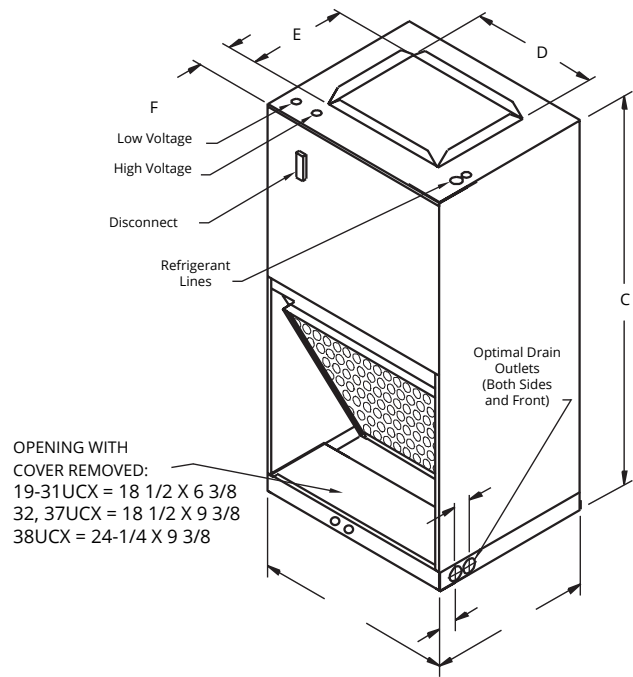


PERFORMANCE DATA									
UNIT MODEL	MOTOR HP	FAN SPEED TAP	MOTOR BHP	NOM. AMPS	CFM VS. EXTERNAL STATIC PRESSURE				
					0.10	0.20	0.30	0.40	0.50
19UCX 20UCX	1/3	5	0.23	1.9	850	830	800	770	730
		4	0.16	1.2	680	650	610	570	540
		3	0.13	1.0	610	570	530	490	460
25UCX 26UCX	1/3	5	0.33	2.4	1030	1000	970	930	890
		4	0.25	2.1	890	860	830	810	780
		3	0.19	1.5	770	740	710	680	640
		2	0.15	1.2	670	630	600	570	530
31UCX	1/2	4	0.50	2.8	1190	1140	1090	1040	980
		3	0.37	2.6	1120	1090	1060	1010	960
		2	0.27	2.0	940	910	880	860	830
		1	0.21	1.5	820	790	760	730	700
32UCX	3/4	4	0.41	2.9	1250	1220	1190	1150	1120
		3	0.35	2.5	1090	1060	1030	990	960
		2	0.25	1.5	980	940	910	870	840
		1	0.19	1.0	870	830	790	740	700
37UCX	3/4	5	0.75	3.9	1450	1390	1330	1260	1190
		4	0.41	3.1	1250	1220	1190	1150	1120
		3	0.33	2.3	1090	1060	1030	990	960
		2	0.27	1.9	980	940	910	870	840
38UCX	3/4	5	0.53	3.5	1400	1370	1350	1320	1290
		4	0.47	2.8	1310	1280	1250	1230	1200
		3	0.38	2.1	1160	1130	1100	1070	1040
		2	0.34	1.8	1090	1060	1020	990	960

NOTES:

1. Shaded rows are factory preset speeds.
2. Cooling = High Speed, Heating = Low Speed
3. Contact factory for correct matches with outdoor units.
4. Approved for installation with "0" clearance to combustible material.
5. Add nominal .05 static if wall panel is used.

UNIT MODEL	NOM. COOLING BTUH	MOTOR SPEED TAP CONNECTION	
		HIGH SPD (GRN LEAD)	LOW SPD (WHT LEAD)
19/20UCX	18,000	4	3
25/26UCX	18,000	3	2
	24,000	4	3
31UCX	24,000	3	2
	30,000	4	3
32UCX	24,000	2	1
	30,000	3	2
37UCX	30,000	4	3
	36,000	5	4
38UCX	30,000	3	2
	36,000	4	3



PHYSICAL DATA									
UNIT MODEL	A	B	C	D	E	F	FILTER SIZE	LIQUID LINE	SUCTION LINE
19-25UCX	22-1/8	15-1/8	40	14	10-1/2	3-5/8	18 X 18	3/8 O.D.	5/8 O.D.
26, 31UCX	22-1/8	15-1/8	40	14	10-1/2	3-5/8	18 X 20	3/8 O.D.	3/4 O.D.
32, 37UCX	22-1/8	18-1/8	43	14	13	3-5/8	18 X 24	3/8 O.D.	3/4 O.D.
38UCX	28-1/8	21	46	16-1/2	13	7-1/2	24 x 24	3/8 O.D.	7/8 O.D.

NOTES:  
1. Coil connections are sweat

## MODEL NUMBERS:

MODEL SIZE (BTU)	MODEL (PISTON)	MODEL (R410A TXV)
18,000	19UCX( )	19UCX( ) R410 TXV
18,000	20UCX( )	20UCX( ) R410 TXV
24,000 / 18,000	25UCX( )	25UCX( ) R410 TXV
24,000 / 18,000	26UCX( )	26UCX( ) R410 TXV
30,000 / 24,000	31UCX( )	31UCX( ) R410 TXV
30,000 / 24,000	32UCX( )	32UCX( ) R410 TXV
36,000 / 30,000	37UCX( )	37UCX( ) R410 TXV
36,000 / 30,000	38UCX( )	38UCX( ) R410 TXV

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

( ) = kW HEAT (0-HK = NO HEAT)

- 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.
  - For field installed TXV order "Piston" model and TXV kit #9EVR410-1 (see P.4)

(See P. 4 for Optional Accessories)



**WARNING AVERTISSEMENT ADVERTENCIA**  
Cancer and Reproductive Harm  
Cancer et Troubles de l'appareil reproducteur  
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[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) LBY9057

# Accessories

## OPTIONAL ACCESSORIES (ALL FIELD INSTALLED)

DESCRIPTION	PART #						DIMENSIONS	
	19-31UCX		32-37UCX		38UCX		(OUTSIDE FRAME)	(INSIDE FRAME)
	LOUVERED	SOLID	LOUVERED	SOLID	LOUVERED	SOLID		
WALL PANEL (1)	9PWUC01L	9PWUC01S	9PWUC02L	9PWUC02S	9PWUC04L	9PWUC04S	43-3/8 X 25-5/8 46-3/8 X 25-5/8 52-1/2 X 31-5/8	40-3/8 X 22-5/8 43-3/8 X 22-5/8 49-1/2 X 28-5/8
HANGER BRKT SET	90PK3		90PK3		90PK31		1-3/4 X 22-1/8 1-3/4 X 27-15/16	---
BOTTOM RETURN AIR KIT	90PK4		90PK5		90PK51		19-13/16 X 22 20-7/16 X 22 20-5/8 X 28	---
3kW HEATER KIT (2)	9EHUC1-203 (2)		9EHUC2-203 (2)		9EHUC2-203 (2)			
5kW HEATER KIT (2)	9EHUC1-205 (2)		9EHUC2-205 (2)		9EHUC2-205 (2)			
6kW HEATER KIT (2)	9EHUC1-206 (2)		9EHUC2-206 (2)		9EHUC2-206 (2)		---	---
8kW HEATER KIT (2)	9EHUC1-208 (2)		9EHUC2-208 (2)		9EHUC2-208 (2)			
10kW HEATER KIT (2)	9EHUC1-210 (2)		9EHUC2-210 (2)		9EHUC2-210 (2)			
CONDENSATE OVERFLOW KIT	SS3		SS3		SS3		---	---

### NOTES:

1. Dimensions for wall panels are the outside of the panels. Inside "Opening" dimensions are approximately 3" less than shown.
2. Heater kits are only approved for installation in the "0-HK" models. Heater kits are not approved for UCX units that already contain factory installed heaters.



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



**Optional wall panel**  
Recessed wall application



Condensate Overflow Switch #SS3



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

### EXPANSION VALVE KITS (Heat Pump or Cooling Only) (FIELD INSTALLED)

PART NO.	TYPE	FOR
9EVR410-1	R-410A	19 - 38UCX-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. Valves mount inside unit cabinet.



FIRST CO.  
P.O. BOX 270969 - DALLAS, TEXAS 75227  
PH. (214) 388-5751 | FAX (214) 388-2255  
[WWW.FIRSTCO.COM](http://WWW.FIRSTCO.COM)  
APRIL 2024