



# UCS SERIES

*UCS\*0 • UCS\*X*  
Wall Mount Fan Coils

- Compatible with R454B and R32
- Wall / Closet Indoor Air Handler
- 1.5 – 3.0 Ton Cooling or Heat Pump
- Up to 10 kW Electric Heat



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# TABLE OF CONTENTS

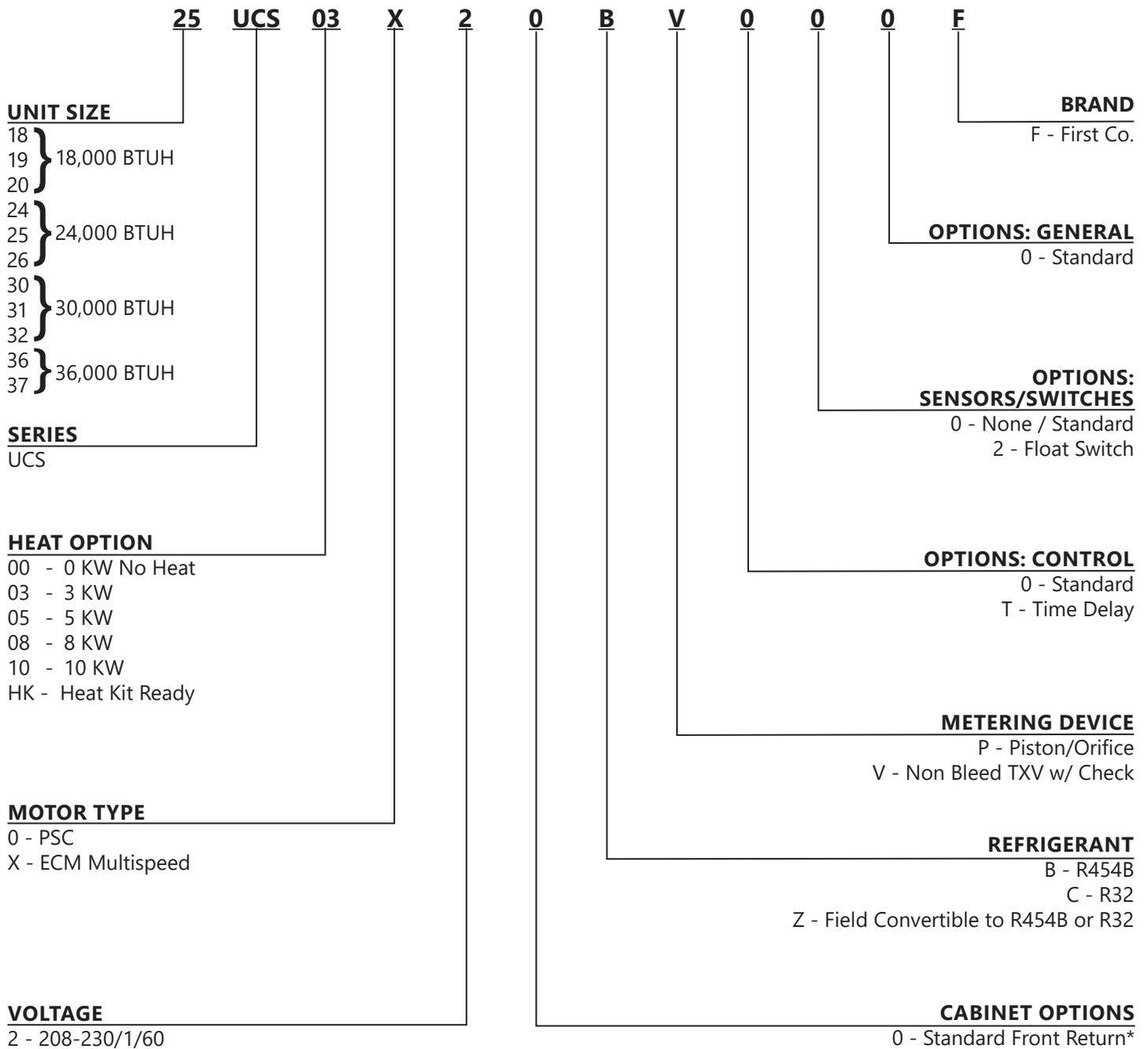
NOMENCLATURE .....	3
SERIES FEATURES .....	4
SERIES ACCESSORIES .....	5-6
DIMENSIONS .....	7
<b>UCS*0</b>	
NOMENCLATURE .....	8
PERFORMANCE DATA .....	9
BLOWER DATA .....	10
<b>UCS*X</b>	
NOMENCLATURE .....	11
PERFORMANCE DATA .....	12
ELECTRICAL DATA .....	13

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.

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

# NOMENCLATURE

## FULL SERIES NOMENCLATURE



*Model specific nomenclature presented at each respective section of document.*

**\*Field converted bottom return is achieved by removing the bottom panel and installing it on lower front of cabinet.**

# UCS SERIES

## WALL MOUNT FAN COILS

### FEATURES

The UCS unit is designed as an upflow indoor air handler for use with today's higher efficiency split-system heat pumps or condensing units.

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.

Units ordered for R454B (Option B) and R32 (Option C) are factory configured with TXV or piston and factory installed refrigerant sensor.

Field convertible units (Option Z) are configured for R454B and R32 refrigerants with a factory installed refrigerant sensor. TXV kits are available.

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

### STANDARD FEATURES

- 240V motor, 24V controls
- Factory installed disconnect only with Electric Heat
- Separate compartment for drain connections
- Drain pan has 3/4" male or female primary and secondary fittings
- High efficiency cooling coil
- Convenient equalizer connection for factory or field installed TXV's (non- bleed type)
- Easily accessible 1" filter
- Cabinet air leakage is no more than 2% when tested in accordance with ASHRAE 193
- Wall hanging brackets are included with each unit
- Flat top, handbend foldable flanges for ducting
- Easy blower removal with slideout blower

### OPTIONAL FEATURES

Optional accessories include field installed Heater Kits, factory or field installed TXV Kits (non-bleed type), Wall Panels with Captive Screws, Condensate Overflow Switch, and Closet Hanger Bracket Kit.



Field converted bottom return is achieved by removing the bottom panel and installing it on lower front of cabinet as shown.

UCS Render

Unit shown as bottom return

## UCS\*0 & UCS\*X – ACCESSORIES

OPTIONAL ACCESSORIES (ALL FIELD INSTALLED)					
DESCRIPTION	SIZE	PART #	TYPE	DIMENSIONS	
				(OUTSIDE FRAME)	(INSIDE FRAME)
WALL PANELS	18-25/31	9PWUCS06L	LOUVERED	39 - 7/8 X 24	36 - 7/8 X 21
	30/32-37	9PWUCS07L	LOUVERED	43 - 1/16 X 25 - 9/16	40 - 1/16 X 22 - 9/16
	18-25/31	9PWUCS06S	SOLID	39 - 7/8 X 24	36 - 7/8 X 21
	30/32-37	9PWUCS07S	SOLID	43 - 1/16 X 25 - 9/16	40 - 1/16 X 22 - 9/16
3kW HEATER KIT	18-25	9EHUCS1-203	---	---	---
	26/31	9EHUCS2-203	---	---	---
	30/32-37	9EHUCS3-203	---	---	---
5kW HEATER KIT	18-25	9EHUCS1-205	---	---	---
	26/31	9EHUCS2-205	---	---	---
	30/32-37	9EHUCS3-205	---	---	---
8kW HEATER KIT	18-25	9EHUCS1-208	---	---	---
	26/31	9EHUCS2-208	---	---	---
	30/32-37	9EHUCS3-208	---	---	---
10kW HEATER KIT	18-25	9EHUCS1-210	---	---	---
	26/31	9EHUCS2-210	---	---	---
	30/32-37	9EHUCS3-210	---	---	---
CONDENSATE OVERFLOW KIT	---	SS3	---	---	---



**Optional Wall Panel**  
Recessed wall application



**UCS**  
Electric Heat w/ Disconnect

**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 "HK" models. Heater kits are not approved for UCS units that already contain factory installed heaters.

### UCS\*0 & UCS\*X – ACCESSORIES (CONT'D)

#### **IMPORTANT NOTE**

All Z model units ship with factory-installed refrigerant sensor. Field installed TXV must be compatible with A2L refrigerant being used. Failure to maintain use of refrigerant sensor may result in unit damage, property damage, and/or death. Warranty will be void.

#### EXPANSION VALVE KITS (HEAT PUMP OR COOLING ONLY)

PART NUMBER	DESCRIPTION
9EVR454B-1A	UC R454B TXV (For Z options only)
9EVR32-1A	UC R32 TXV (For Z options only)

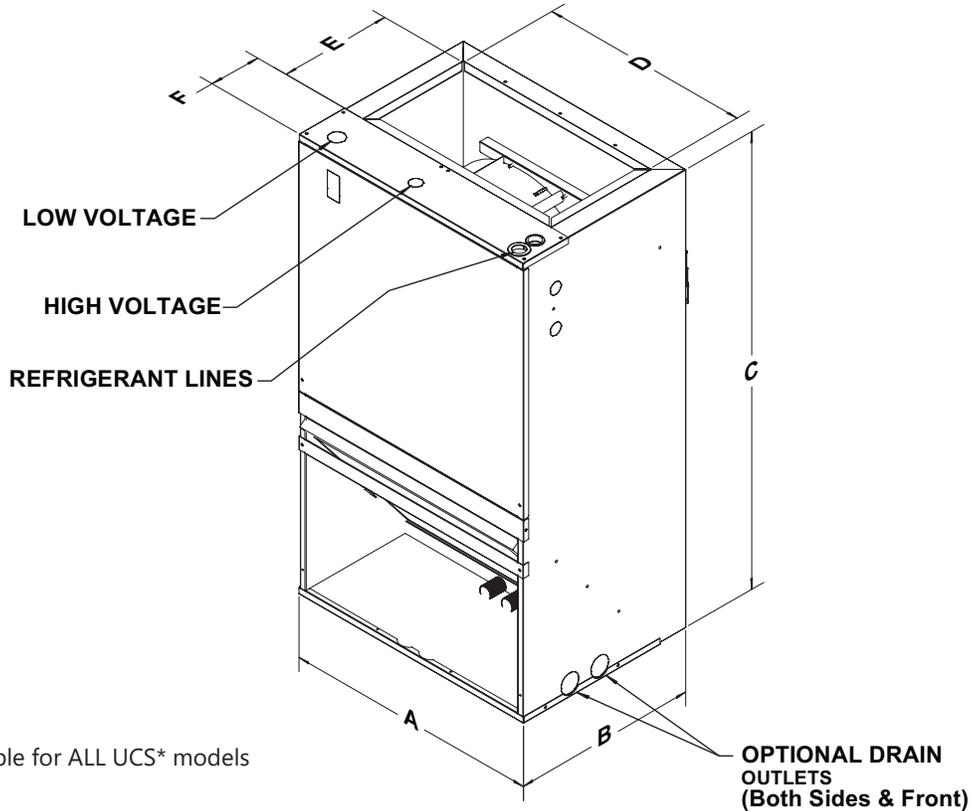
#### NOTES:

1. Above expansion valve kits are approved for both cooling only (non heat pump) or heat pumps applications.
2. Valves are non-bleed type. Field added. Hard start kit may be required.
3. Valves have screw-on connections.



**Condensate Overflow Switch**  
#SS3

## UCS\*0 & UCS\*X – DIMENSIONS



**NOTES:**

1. 0 - 10 kW is available for ALL UCS\* models

UCS*0 – PHYSICAL DIMENSIONS										
UNIT MODEL	A	B	C	D	E	F	FILTER SIZE	LIQUID LINE	SUCTION LINE	OPENING DIM.
18,19,20,24,25 UCS*0	20-5/8	15-1/16	36-1/2	17-1/3	9-1/3	4-11/64	16X20	3/8 O.D.	3/4 O.D.	19-9/16X10-15/16
26,31 UCS*0	20-5/8	17-1/16	36-1/2	17-1/3	9-1/3	6-1/8	16X20	3/8 O.D.	3/4 O.D.	19-9/16X11-15/64
30,32,36,37 UCS*0	22-3/16	19-3/32	39-11/16	18-13/16	8-15/16	8-9/16	20X20	3/8 O.D.	3/4 O.D.	20-3/4X13-3/4

**NOTES:**

1. Coil connections are sweat

UCS*X – PHYSICAL DIMENSIONS										
UNIT MODEL	A	B	C	D	E	F	FILTER SIZE	LIQUID LINE	SUCTION LINE	OPENING DIM.
18,19,20,24,25 UCS*X	20-5/8	15-1/16	36-1/2	17 1/3	9 1/3	4-11/64	16X20	3/8 O.D.	3/4 O.D.	19-9/16X10-15/16
26,31 UCS*X	20-5/8	17-1/16	36-1/2	17 1/3	9 1/3	6-1/8	16X20	3/8 O.D.	3/4 O.D.	19-9/16X11-15/64
30,32,36,37 UCS*X	22-3/16	19-3/32	39-11/16	18-13/16	8-15/16	8-9/16	20X20	3/8 O.D.	3/4 O.D.	20-3/4X13-3/4

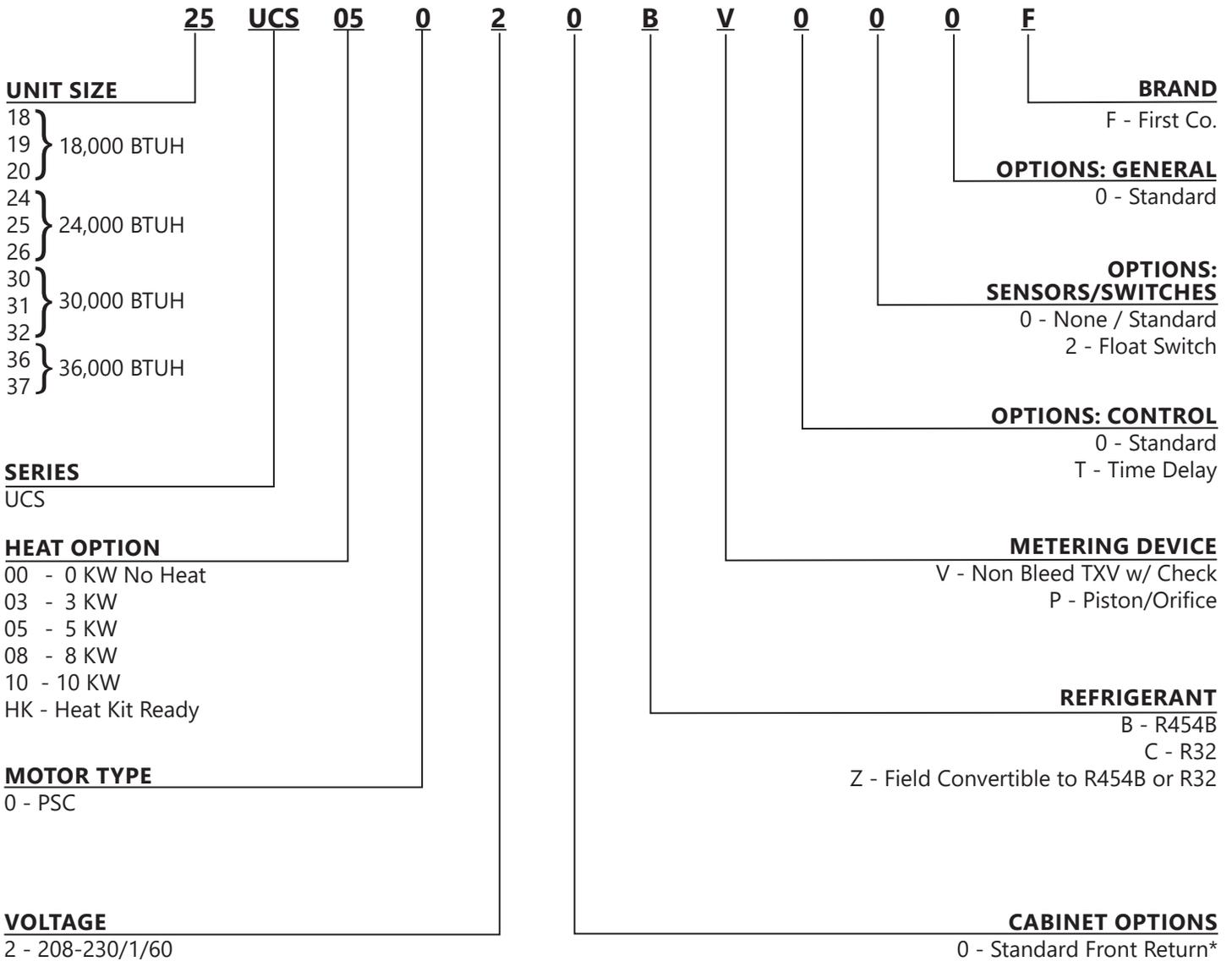
**NOTES:**

1. Coil connections are sweat

# UCS SERIES

## ELECTRIC HEAT W/PSC MOTOR

# UCS\*0



\*Field converted bottom return is achieved by removing the bottom panel and installing it on lower front of cabinet.

# UCS SERIES

ELECTRIC HEAT W/PSC MOTOR

**UCS\*0**

DATA TABLES

UCS*0 – PERFORMANCE DATA													
UNIT MODEL		NOM. CFM	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				
18UCS*0 19UCS*0 20UCS*0	0	600	18000	0	0	0	0	1.70	1.70	2	2	15	15
	3			3	2.3	10239	7781	14	12.76	18	16	20	20
	5			5	3.8	17065	12969	22	18	27	25	30	30
	8			8	6.0	27304	20750	34	29	43	37	45	40
	10			10	7.5	34130	25597	43	37.76	54	47	60	50
24UCS*0 25UCS*0 26UCS*0	0	800	25000	0	0	0	0	2.0	2.0	3	3	15	15
	3			3	2.3	10239	7781	15	15	18	16	20	20
	5			5	3.8	17065	12969	23	19.97	28	26	30	30
	8			8	6.0	27304	20750	35	30.55	44	38	45	40
	10			10	7.5	34130	25597	43	37.76	54	47	60	50
30UCS*0 31UCS*0 32UCS*0	0	1000	30000	0	0	0	0	2.0	2.0	3	3	15	15
	3			3	2.3	10239	7781	15	15	18	16	20	20
	5			5	3.8	17065	12969	23	19.97	28	26	30	30
	8			8	6.0	27304	20750	35	30.55	44	38	45	40
	10			10	7.5	34130	25597	44	38	55	48	60	50
36UCS*0 37UCS*0	0	1200	36000	0	0	0	0	2.5	2.5	4	4	15	15
	3			3	2.3	10239	7781	1.6	15.7	19	17	20	20
	5			5	3.8	17065	12969	23	20	29	26	30	30
	8			8	6.0	27304	20750	35	31	44	39	45	40
	10			10	7.5	34130	25597	44	38	55	48	60	50

# UCS SERIES

ELECTRIC HEAT W/PSC MOTOR

# UCS\*0

DATA TABLES

BLOWER DATA							
MODEL	MOTOR (HP) (240V)	FAN SPEED	CFM VS. EXTERNAL STATIC PRESSURE				
			0.10	0.20	0.30	0.40	0.50
18UCS*0	1/6	HIGH	880	840	810	790	760
		MEDIUM	660	640	630	600	570
		LOW	540	520	500	470	440
19UCS*0	1/6	HIGH	850	820	780	750	710
		MEDIUM	660	640	610	570	540
		LOW	540	520	500	470	430
20UCS*0	1/6	HIGH	840	800	760	710	660
		MEDIUM	660	640	610	570	530
		LOW	540	510	500	460	420
24UCS*0	1/4	HIGH	870	840	810	780	750
		MEDIUM	670	650	630	590	560
		LOW	560	540	510	480	440
25UCS*0	1/4	HIGH	840	800	760	710	670
		MEDIUM	660	640	620	590	550
		LOW	550	530	490	460	430
26UCS*0	1/4	HIGH	860	830	790	740	690
		MEDIUM	670	650	630	590	550
		LOW	550	530	500	470	440
30UCS*0	1/4	HIGH	1080	1045	1030	975	920
		MEDIUM	950	940	910	865	820
		LOW	865	855	825	790	745
31UCS*0	1/4	HIGH	910	880	840	790	740
		MED-HIGH	860	830	790	740	690
		MED-LOW	830	790	750	710	660
32UCS*0	1/4	MED-HIGH	1080	1040	1000	950	900
		MED-LOW	970	940	900	850	800
		LOW	690	650	600	550	510
36UCS*0	1/2	HIGH	1300	1240	1180	1120	1050
		MED-HIGH	1100	1050	1010	960	910
		MED-LOW	980	950	920	880	830
37UCS*0	1/2	HIGH	1240	1180	1120	1070	1020
		MED-HIGH	1080	1040	1000	960	910
		MED-LOW	980	950	910	870	820

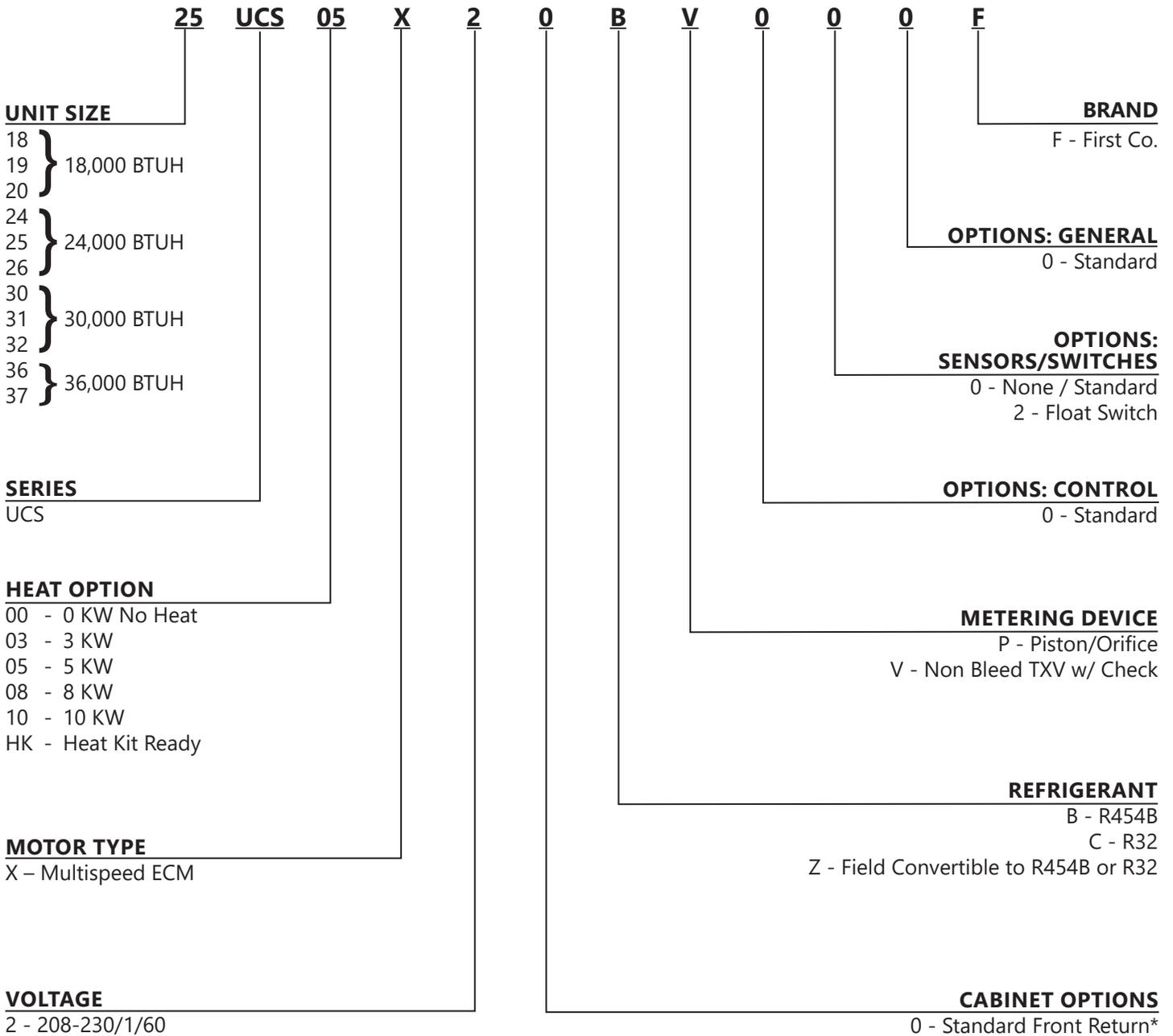
**NOTES:**

1. Add nominal .05 static if wall panel is used.
2. ALL models have multi-speed motors but are factory wired on the shaded speeds.
3. Contact factory for correct matches with outdoor units.
4. Approved for installation with "0" clearance to combustibile material.

# UCS SERIES



## ELECTRIC HEAT W/ECM MOTOR



\*Field converted bottom return is achieved by removing the bottom panel and installing it on lower front of cabinet.

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
18UCS*X 19UCS*X 20UCS*X	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
24UCS*X 25UCS*X 26UCS*X	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
30UCS*X 31UCS*X 32UCS*X	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
36UCS*X 37UCS*X	1/2	5	0.60	3.9	1450	1390	1330	1260	1190
		4	0.45	3.1	1250	1220	1190	1150	1120
		3	0.35	2.3	1090	1060	1030	990	960
		2	0.20	1.9	980	940	910	870	840

**NOTES:**

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

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

# UCS SERIES

ELECTRIC HEAT W/ECM MOTOR

UCS*X – ELECTRICAL DATA													
UNIT MODEL		NOM. CFM	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				
18UCS*X 19UCS*X 20UCS*X	0	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
	5			5	3.8	17061	13648	23.6	20.8	30	27	30	30
	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
24UCS*X 25UCS*X 26UCS*X	0	800	24000	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
	5			5	3.8	17061	13648	23.6	20.8	30	27	30	30
	8			8	6.0	27297	20473	36.1	31.6	46	40	50	40
	10			10	7.5	34121	25591	45.8	40.2	58	50	60	50
30UCS*X 31UCS*X 32UCS*X	0	1000	30000	0	0	0	0	4.1	4.1	6	6	15	15
	3			3	2.3	10236	6824	16.6	14.9	21	19	25	20
	5			5	3.8	17061	13648	24.9	22.1	32	28	35	30
	8			8	6.0	27297	20473	37.4	32.9	47	42	50	45
	10			10	7.5	34121	25591	47.7	42.1	60	53	60	60
36UCS*X 37UCS*X	0	1200	36000	0	0	0	0	4.1	4.1	6	6	15	15
	3			3	2.3	10236	6824	16.6	14.9	21	19	25	20
	5			5	3.8	17061	13648	24.9	22.1	32	28	35	30
	8			8	6.0	27297	20473	37.4	32.9	47	42	50	45
	10			10	7.5	34121	25591	45.8	40.2	58	50	60	50

**NOTES:**

- (1) 0 - 10 kW is available for ALL UCS models
- (2) \*HK models are available for each Heat Option displayed



*AMERICAN-MADE. FAMILY OWNED.*



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