

First Co.

UCS HYDRONIC HEAT SERIES

UCSW/ UCSQ*/ UCSR**

PSC & ECM Wall Mount Fan Coils

Compatible With R454B & R32 & R410A-(Replacement Only)

Wall/Closet Indoor Air Handler

1.5 – 3.0 Ton Nominal Capacity

Up To 55,000 BTUH Hydronic Heat



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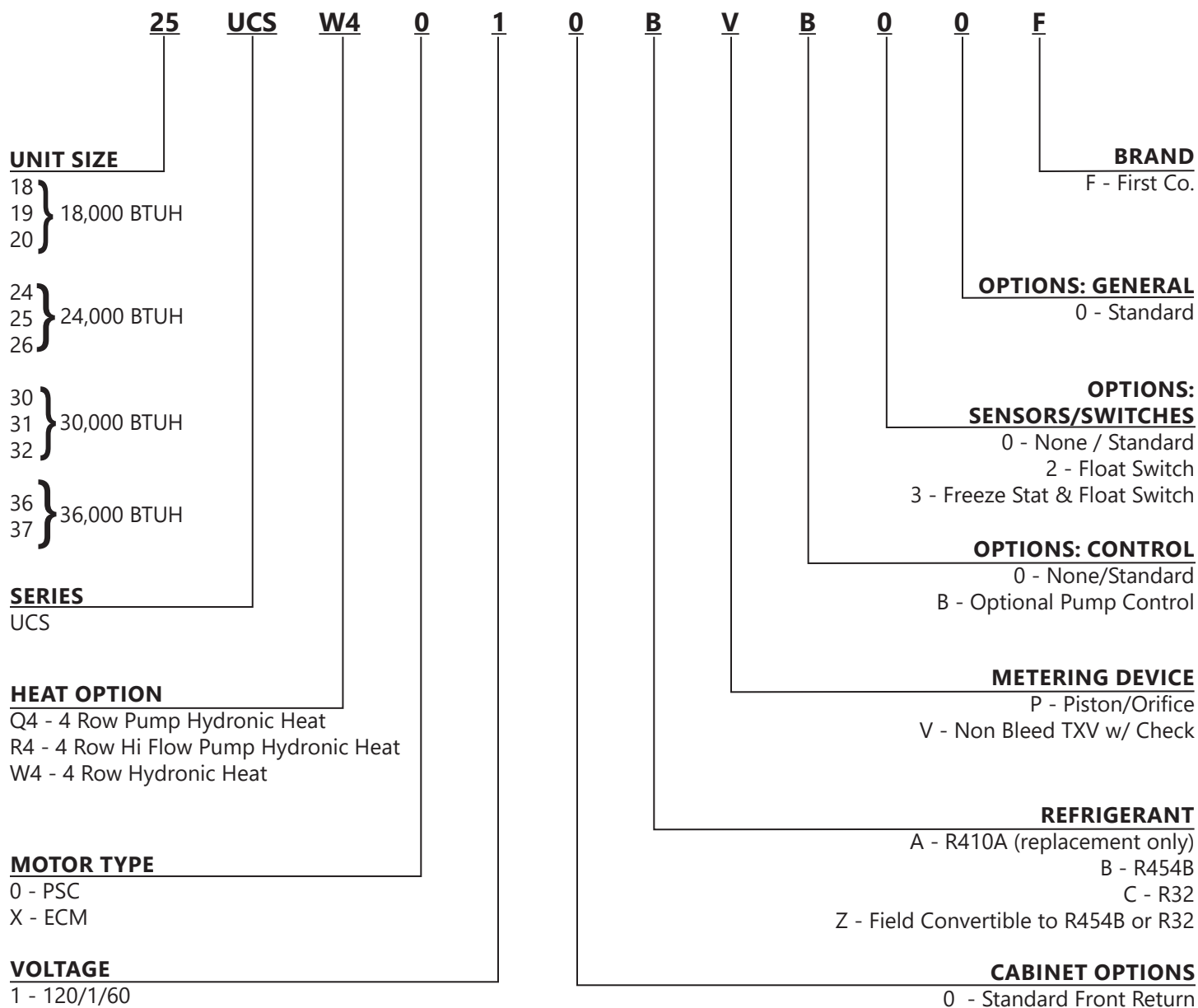
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NOMENCLATURE



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UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

PRODUCT OVERVIEW

APPLICATION

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

The cabinet is constructed of galvanized steel and is fully insulated. It has been tested in accordance with ASHAE 193 and verified to have a leakage rate not exceeding 2%.

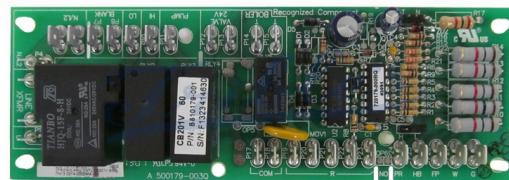
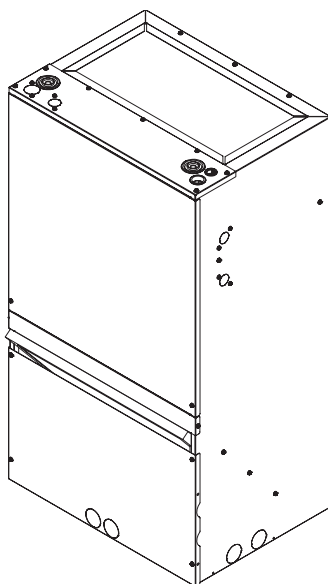
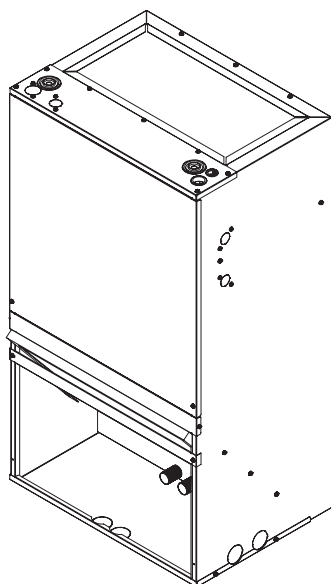
The condensate pan is sloped to ensure proper drainage. For installation flexibility, drain piping can be located on the bottom, front, left, or right side of the cabinet.

Units ordered with R-454B or R-32 are factory configured with a TXV or piston and include a factory-installed refrigerant detection sensor. Field-convertible units are designed for use with R-454B and R-32 refrigerants and also include a factory-installed refrigerant detection sensor. TXV kits are available separately.

The removable door on the optional wall panel is equipped with captive screws that remain in place when the door is removed for service or filter replacement.

STANDARD FEATURES

- 120V Motor, 24V Controls
- Factory installed hot water coil
- Separate compartment for drain connections
- Drain pan has 3/4" male or female primary and secondary fittings
- Convenient equalizer connection for factory or field installed TXV's (non- bleed type)
- Easily accessible 1" filter
- Easily accessible blower
- Back panel tooled to fit into wall hanging bracket (purchased separately)
- Front air return easily converted to bottom air return
- Blower door shut-off switch
- Separate compartment for drain connections
- Time Delay Relay is standard on units with Hydronic Heat and Pump Control



Hydronic Heat Controller Board

To convert the unit to a bottom air return, remove the bottom panel and reinstall it on the lower front of the cabinet as shown.

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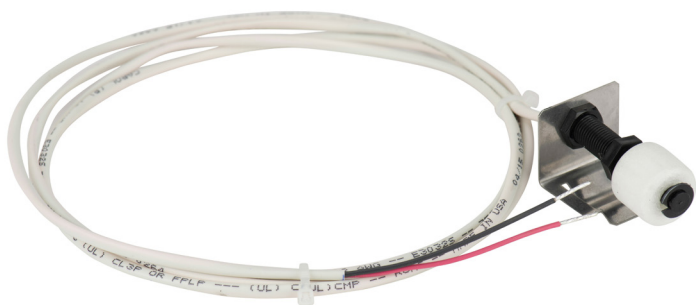
UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

PRODUCT OVERVIEW (CONT'D)

OPTIONAL FEATURES & ACCESSORIES

- Freeze protection on hydronic heat coil
- ECM motor
- Special circulating Standard or Hi Flow pump with unique, easy access anti-siphon check valve and air purge valve
- Non-bleed type TXV to efficiently regulate refrigerant flow
- Float switch for condensate overflow
- Closet hanger bracket kit



Condensate Overflow Switch
#SS3



Optional Wall Panel
Recessed wall application

FIELD-INSTALLED ACCESSORY PART NUMBERS			
DESCRIPTION	PART #	DIMENSIONS	
		(OUTSIDE FRAME)	(INSIDE FRAME)
Louvered Wall Panel	9PWUC03L	49.38 X 25.63	46.38 X 22.63
Solid Wall Panel	9PWUC03S		
Condensate Overflow Kit	SS3	---	---
Freeze Protection (2)	941-1	---	---
R454B Field-Convertible TXV	9EVR454B-1A	---	---
R32 Field-Convertible TXV	9EVR32-1A	---	---

NOTES:

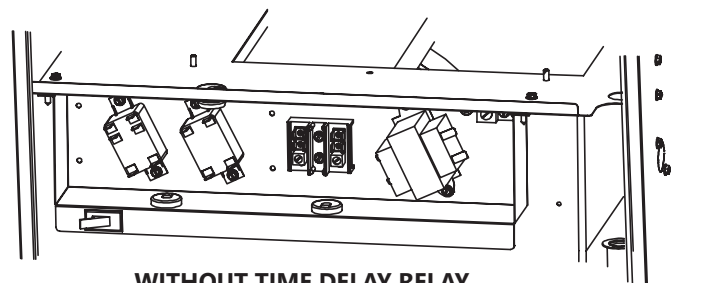
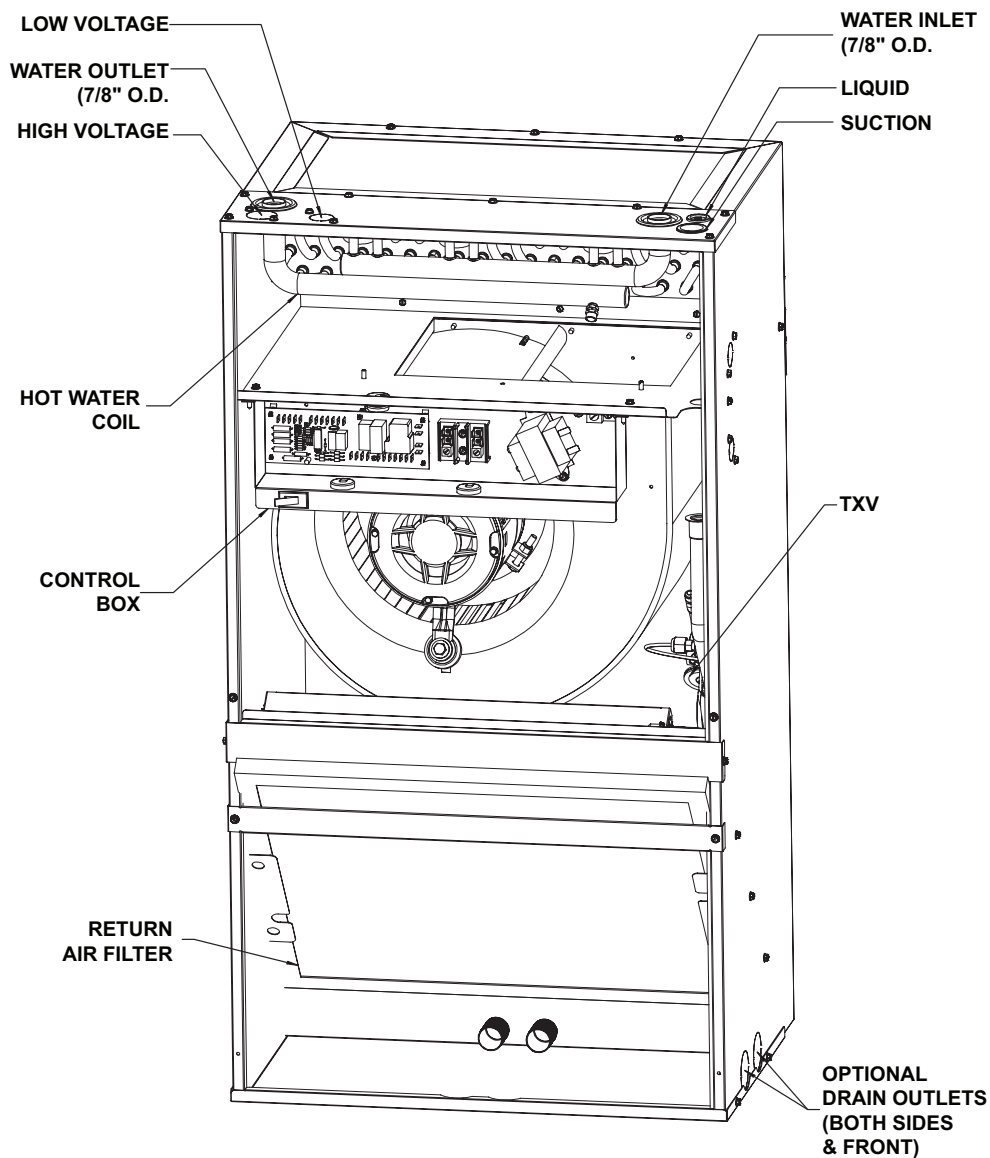
1. Above expansion valve kits are approved for cooling and heating applications.
2. Valves are non-bleed type with Chatleff connections. Hard start kit may be required

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WALL MOUNT FAN COILS

MAJOR COMPONENTS



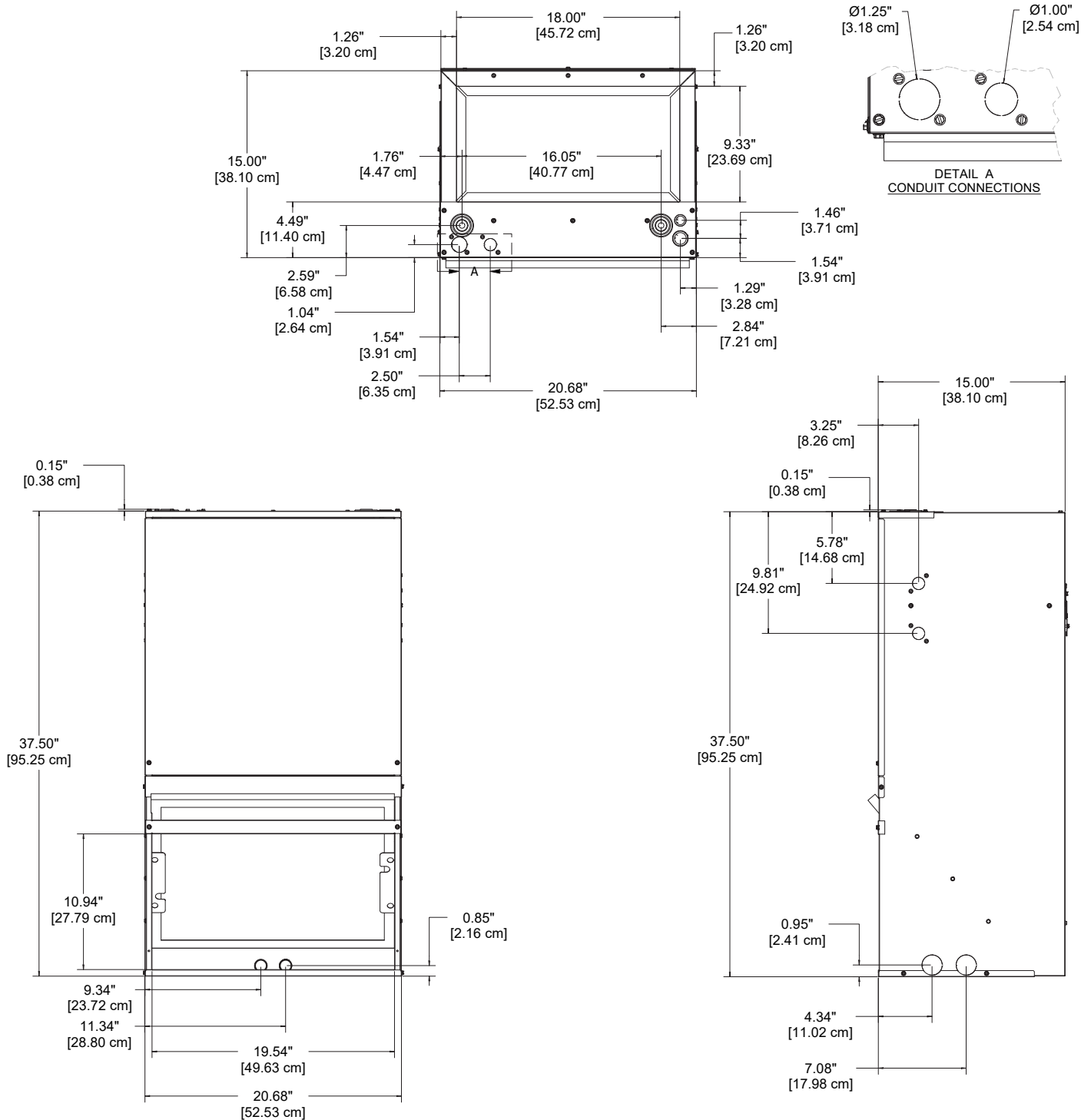
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UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

PHYSICAL DATA

SIZE 18/19/20/24/25



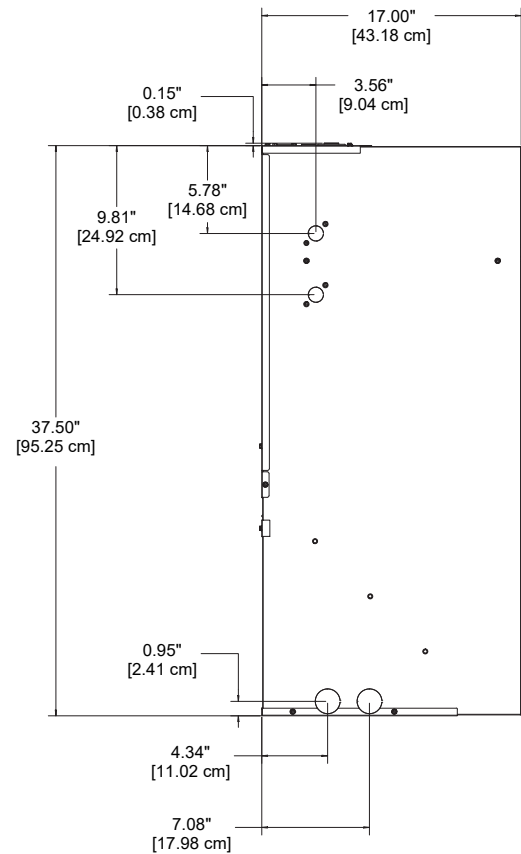
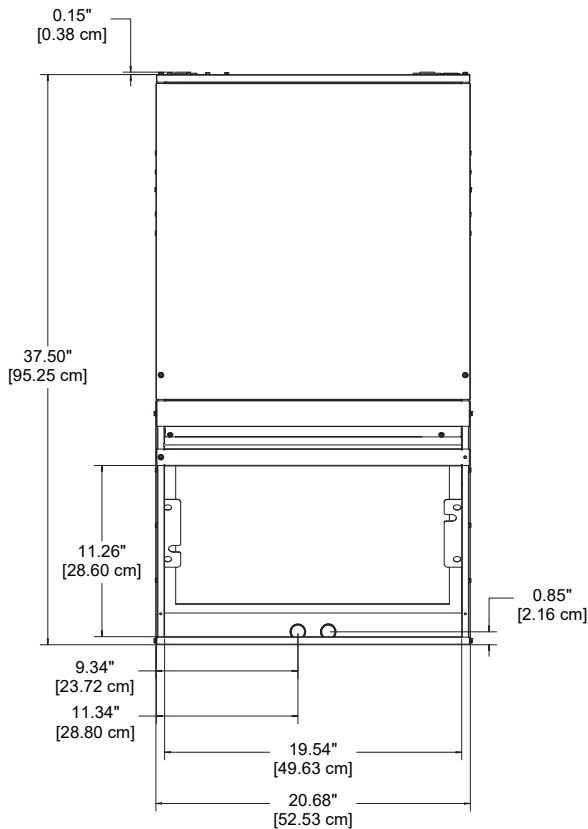
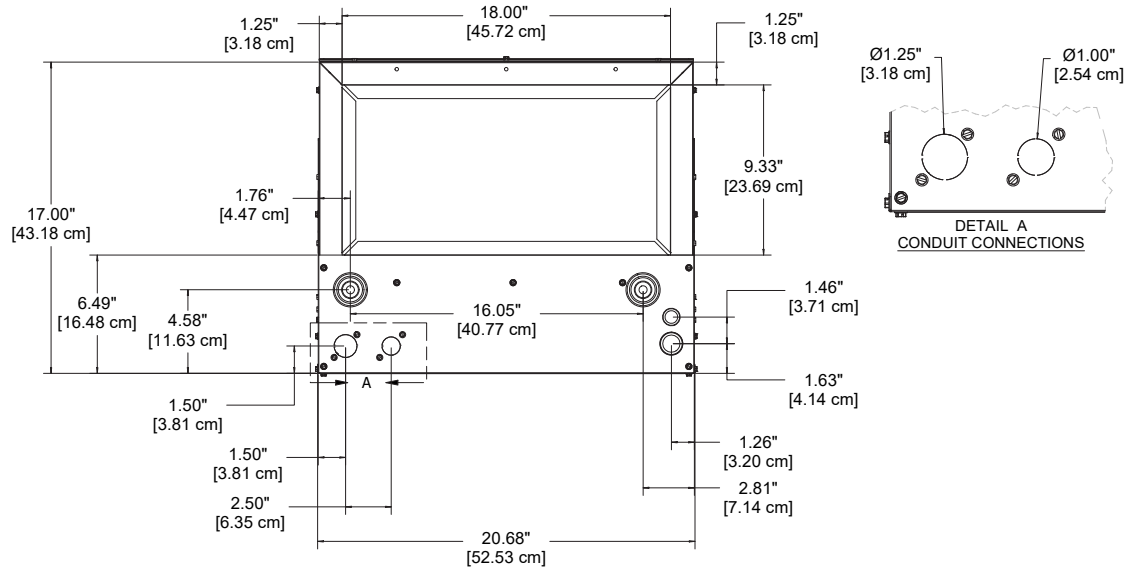
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UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

PHYSICAL DATA

SIZE 26/31



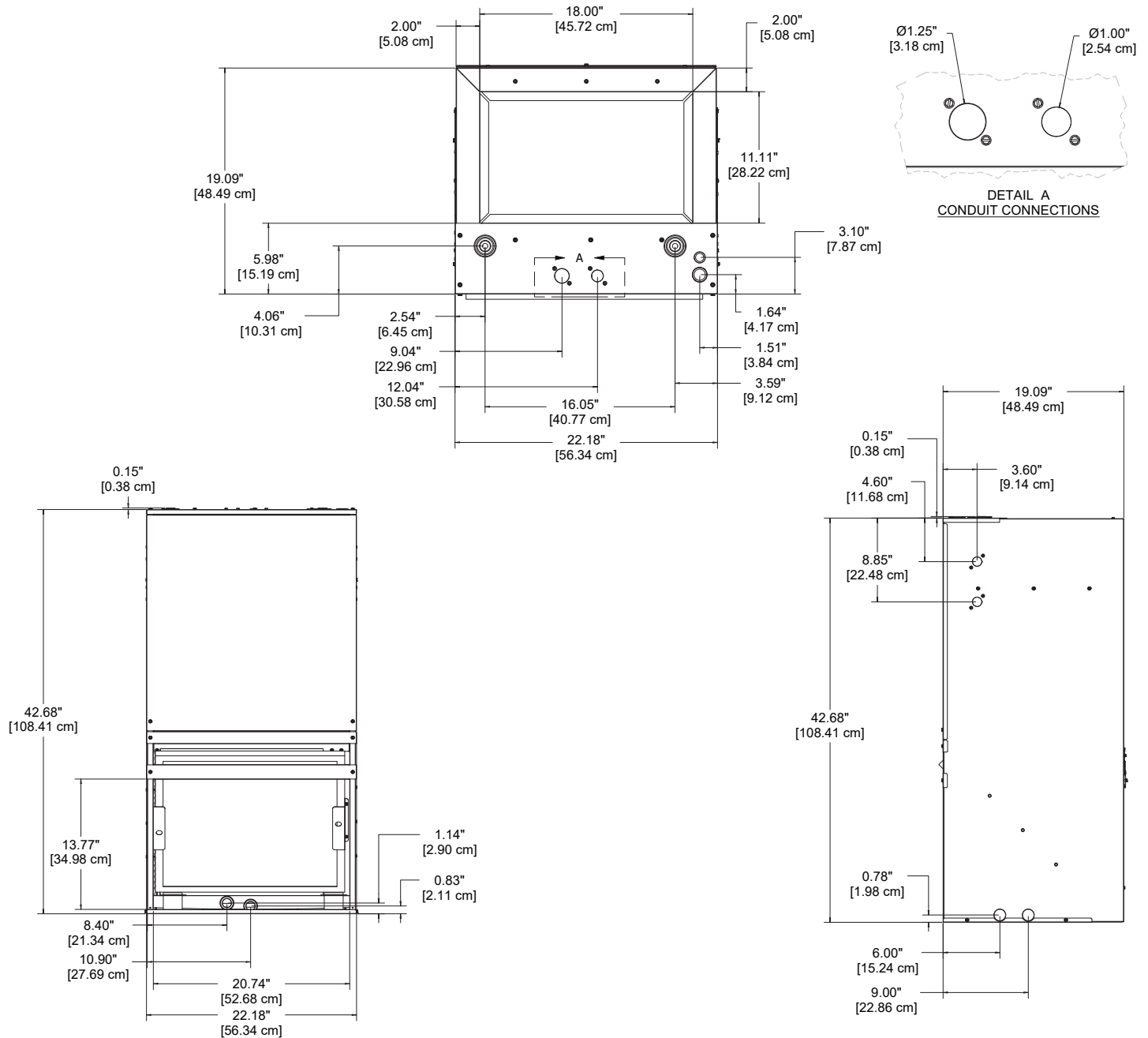
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UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

PHYSICAL DATA

SIZE 30/32/36/37



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UCS HYDRONIC HEAT SERIES

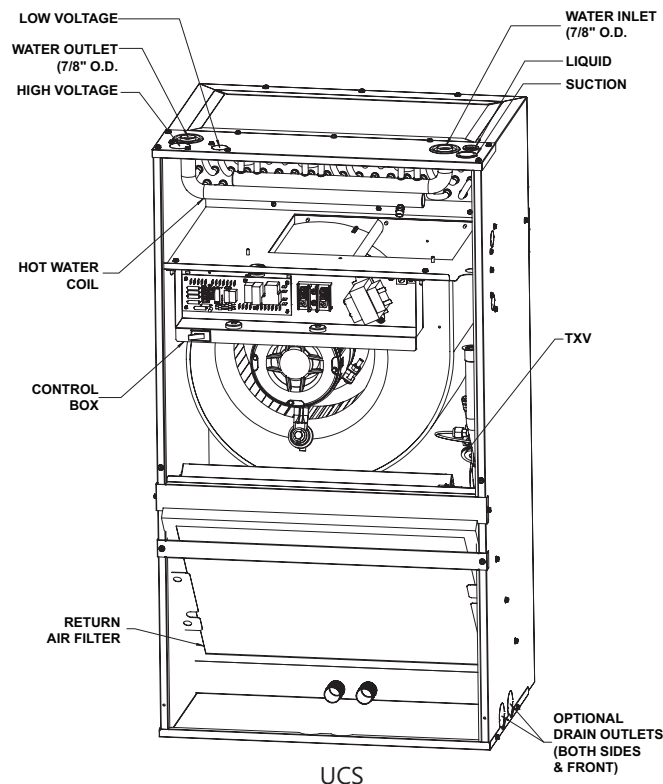
WALL MOUNT FAN COILS

GENERAL DATA

UCSW/Q/R*				
MODEL	18/19/20UCS*	24/25/26UCS*	30/31/32UCS*	36/37UCS*
Voltage	120V			
Refrigerant	R454B, R32, R410A ¹			
Nominal SCFM	600.0	800.0	1,000	1,200
COOLING PERFORMANCE				
Nominal Airflow (SCFM)	18,000	24,000	30,000	36,000
OPERATION CONDITIONS				
Max. Static Pressure (in.w.g.)	0.5			
PHYSICAL DATA				
ECM Motor (HP)	1/3	1/2		
PSC Motor (HP)	1/4	1/2	3/4	
Expansion Device	TXV or PISTON			
Shipping Weight (lbs)	90.0		113.0	

NOTE:

1. R410A only available on replacement units



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UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

PERFORMANCE DATA

UCSW* 4ROW PERFORMANCE DATA										
UNIT MODEL	NOM. COOLING (BTUH)	P.D. FT. WTR. COIL ONLY	HEATING CAPACITY BTUH AT ENTERING WATER TEMPERATURE (1) DELTA-T 20°						MCA	MOCP
			120°F	GPM	140°F	GPM	180°F	GPM		
18UCSW*	18,000	3.20	18,300	2.50	25,700	2.50	40,400	2.50	8.0	15.0
19UCSW*		2.10	17,700	3.50	24,800	3.50	39,000	3.50		
20UCSW*		1.10	16,900	4.50	23,900	4.50	37,100	4.50		
24UCSW*	24,000	3.20	22,000	2.50	30,800	2.50	48,300	2.50	9.0	15.0
25UCSW*		2.10	21,200	3.50	29,700	3.50	46,700	3.50		
26UCSW*		1.10	19,900	4.50	28,000	4.50	44,000	4.50		
30UCSW*	30,000	3.20	28,000	2.50	39,200	2.50	61,500	2.50	11.0	15.0
31UCSW*		2.10	25,800	3.50	36,100	3.50	56,800	3.50		
32UCSW*		1.10	25,100	4.50	35,200	4.50	55,200	4.50		
36UCSW*	36,000	3.70	31,200	2.50	43,600	2.50	68,000	2.50	11.0	15.0
37UCSW*		2.50	29,800	3.50	41,500	3.50	65,300	3.50		
		1.30	27,400	4.50	38,400	4.50	60,500	4.50		

NOTE:

1. Size 31 not available with PSC motor.



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UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

PERFORMANCE DATA

UCSQ* 4 ROW PERFORMANCE DATA										
MODEL	NOM. CAPACITY (BTU/h)	HEATING CAPACITY (BTUH)				TOTAL AMPS (PUMP 120V)	CAST IRON PUMP MED. FLOW (A)	BRONZE PUMP LOW FLOW (A)	MCA	MOCP
		120°F	GPM	140°F	GPM					
18UCSQ* 19UCSQ* 20UCSQ*	18,000	17,800	3.50	24,600	3.50	4.10	0.75	0.54	8.0	15.0
24UCSQ* 25UCSQ* 26UCSQ*	24,000	21,200	3.50	29,800	3.50	6.50	0.75	0.54	11.0	15.0
30UCSQ* 31UCSQ* 32UCSQ*	30,000	26,000	3.50	36,400	3.50	6.50	0.75	0.54	12.0	15.0
36UCSQ* 37UCSQ*	36,000	29,600	3.50	41,500	3.50	6.50	0.75	0.54	12.0	15.0

NOTE:

1. Size 31 not available with PSC motor

UCSR* 4ROW PERFORMANCE DATA												
MODEL	NOM. CAPACITY (BTU/h)	COIL DP (in. wg)	HEATING CAPACITY (BTUH)						TOTAL AMPS (PUMP 120V)	TOTAL AMPS (MOTOR 120V)	MCA	MOCP
			120°F	GPM	140°F	GPM	180°F	GPM				
18UCSR* 19UCSR* 20UCSR*	18,000	39.59	18,300	4.0	25,700	4.0	40,400	4.0	4.10	0.84	8.0	15.0
		25.19	17,700	4.0	24,800	4.0	39,000	4.0				
		14.40	16,900	4.0	23,900	4.0	37,100	4.0				
24UCSR* 25UCSR* 26UCSR*	24,000	39.59	22,000	4.0	30,800	4.0	48,300	4.0	6.50	0.84	9.0	15.0
		25.19	21,200	4.0	29,700	4.0	46,700	4.0				
		14.40	19,900	4.0	28,000	4.0	44,000	4.0				
30UCSR* 31UCSR* 32UCSR*	30,000	43.19	28,000	4.0	39,200	4.0	61,500	4.0	6.50	0.84	11.0	15.0
		28.79	25,800	4.0	36,100	4.0	56,800	4.0				
		15.60	25,100	4.0	35,200	4.0	55,200	4.0				
36UCSR* 37UCSR*	36,000	43.19	31,200	4.0	43,600	4.0	68,000	4.0	6.50	0.84	11.0	15.0
		28.79	29,800	4.0	41,500	4.0	65,300	4.0				
		15.60	27,400	4.0	38,400	4.0	60,500	4.0				

NOTE:

1. Size 31 not available with PSC motor

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WALL MOUNT FAN COILS

BLOWER DATA

ECM BLOWER DATA									
MODEL	NOM. CAPACITY (BTU/h)	MOTOR H.P. (120V)	MOTOR AMPS (120V)	SPEED TAP	CFM vs. EXTERNAL STATIC PRESSURE				
					0.1	0.2	0.3	0.4	0.5
18UCS*X*	18,000	1/3	4.10	T3	840.0	820.0	790.0	760.0	730.0
				T2	750.0	730.0	710.0	690.0	660.0
				T1	620.0	590.0	570.0	550.0	530.0
19UCS*X*	18,000	1/3	4.10	T3	760.0	730.0	700.0	670.0	640.0
				T2	680.0	660.0	640.0	610.0	590.0
				T1	580.0	560.0	530.0	500.0	480.0
20UCS*X*	18,000	1/3	4.10	T3	730.0	710.0	680.0	650.0	620.0
				T2	670.0	650.0	620.0	600.0	580.0
				T1	570.0	550.0	520.0	490.0	470.0
24UCS*X*	24,000	1/2	6.50	T3	870.0	850.0	830.0	810.0	790.0
				T2	790.0	770.0	750.0	730.0	700.0
				T1	680.0	660.0	640.0	610.0	590.0
25UCS*X*	24,000	1/2	6.50	T3	810.0	800.0	780.0	760.0	740.0
				T2	730.0	720.0	700.0	680.0	550.0
				T1	640.0	620.0	590.0	570.0	550.0
26UCS*X*	24,000	1/2	6.50	T3	850.0	830.0	810.0	780.0	760.0
				T2	770.0	750.0	730.0	700.0	680.0
				T1	660.0	630.0	610.0	580.0	560.0
30UCS*X*	30,000	1/2	6.50	T3	1,100	1,080	1,060	1,030	1,010
				T2	1,020	990.0	970.0	950.0	920.0
				T1	880.0	850.0	820.0	790.0	760.0
31UCS*X*	30,000	1/2	6.50	T3	930.0	910.0	880.0	850.0	820.0
				T2	790.0	770.0	750.0	720.0	700.0
				T1	610.0	580.0	550.0	530.0	500.0
32UCS*X*	30,000	1/2	6.50	T3	1,060	1,030	990.0	960.0	920.0
				T2	970.0	930.0	890.0	860.0	820.0
				T1	820.0	770.0	730.0	690.0	660.0
36UCS*X*	36,000	1/2	6.50	T3	1,140	1,120	1,090	1,060	1,030
				T2	1,040	1,020	1,000	970.0	950.0
				T1	810.0	780.0	750.0	720.0	690.0
37UCS*X*	36,000	1/2	6.50	T3	1,080	1,050	1,010	980.0	940.0
				T2	990.0	960.0	920.0	880.0	850.0
				T1	750.0	700.0	660.0	620.0	580.0

NOTE:

1. T3 = High Speed for all; use Violet lead.
2. T2 = Low Speed for all; use Grey lead.

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UCS HYDRONIC HEAT SERIES

WALL MOUNT FAN COILS

BLOWER DATA

BLOWER DATA PSC									
UNIT MODEL	NOM. CAPACITY (BTU/h)	MOTOR H.P. (120V)	MOTOR AMPS (120V)	FAN SPEED	CFM vs. EXTERNAL STATIC PRESSURE				
					0.1	0.2	0.3	0.4	0.5
18UCS*0*	18,000	1/4	4.70	High	790.0	740.0	710.0	650.0	610.0
				Medium	740.0	700.0	660.0	620.0	580.0
				Low	580.0	560.0	540.0	520.0	470.0
19UCS*0*	18,000	1/4	4.70	High	750.0	710.0	670.0	630.0	580.0
				Medium	690.0	660.0	620.0	590.0	540.0
				Low	540.0	530.0	500.0	480.0	450.0
20UCS*0*	18,000	1/4	4.70	High	720.0	690.0	650.0	610.0	570.0
				Medium	680.0	640.0	610.0	570.0	530.0
				Low	540.0	520.0	550.0	480.0	440.0
24UCS*0*	24,000	1/2	5.70	High	860.0	820.0	770.0	720.0	680.0
				Medium	830.0	800.0	750.0	700.0	660.0
				Low	740.0	700.0	670.0	620.0	580.0
25UCS*0*	24,000	1/2	5.70	High	770.0	740.0	700.0	660.0	610.0
				Medium	750.0	710.0	670.0	640.0	590.0
				Low	680.0	650.0	610.0	570.0	530.0
26UCS*0*	24,000	1/2	5.70	High	850.0	820.0	780.0	720.0	650.0
				Medium	830.0	790.0	740.0	690.0	630.0
				Low	730.0	700.0	660.0	610.0	560.0
30UCS*0*	30,000	3/4	5.40	High	1,090	1,040	990.0	940.0	890.0
				Medium	1,020	970.0	920.0	870.0	820.0
				Low	990.0	950.0	900.0	860.0	800.0
32UCS*0*	30,000	3/4	5.40	High	1,030	970.0	920.0	860.0	820.0
				Medium	1,010	960.0	910.0	850.0	800.0
				Low	990.0	940.0	890.0	830.0	780.0
36UCS*0*	36,000	3/4	5.40	High	1,090	1,040	990.0	940.0	890.0
				Medium	1,020	970.0	920.0	870.0	820.0
				Low	990.0	950.0	900.0	860.0	800.0
37UCS*0*	36,000	3/4	5.40	High	1,030	970.0	920.0	860.0	820.0
				Medium	1,010	690.0	910.0	850.0	800.0
				Low	990.0	940.0	890.0	830.0	780.0

NOTE:

1. High Speed = Black Lead; Medium Speed = Blue Lead; Low Speed = Red Lead



AMERICAN-MADE. FAMILY OWNED.



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