

NEW - CABINET
LESS THAN 2% LEAK LOSS



HBXX Series

1.5-5.0 tons, Cooling or Heat Pump
0 - 20 kW Electric Heat
Upflow / Horizontal



The HBXX air handler is designed for use with today's high efficiency split-system condensing units and heat pumps. All HBXX air handlers include a standard ECM motor. These motors offer the efficiency of variable speed type ECM motors, but at a considerably lower cost.

Cooling efficiencies are up to 15 SEER, depending on the outdoor unit. **First Co's customer is ultimately responsible for confirming which indoor 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 or contact the factory.**

Standard configuration from the factory is upflow and horizontal (right-to-left airflow). All sizes can be easily re-configured in the field for horizontal (left-to-right) airflow.

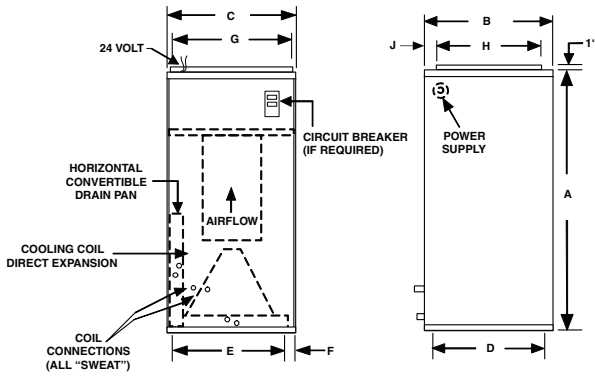
Standard Features:

- High efficiency standard ECM motor
- 240V motor, 24V controls
- Factory or field installed R-410A TXV (cooling or heat pump operation) (non-bleed type)
- High efficiency copper tube, aluminum fin coils
- Non-corrosive thermoplastic drain pan (vertical only), sloped for positive drainage, with 3/4" MPT primary and secondary drain connections
- Factory installed disconnect (15 and 20 kW only)
- Easily accessible 1" throwaway filter
- **Cabinet air leakage is no more than 2% when tested in accordance with ASHRAE 193.**

Optional Accessories: (see p.3)



HBXX Series



(See P.3 for Model Numbers)

BLOWER DATA									
UNIT MODEL	MOTOR HP	SPEED TAP	MOTOR BHP	NOM. AMPS	CFM vs. EXTERNAL STATIC PRESSURE				
					0.10	0.20	0.30	0.40	0.50
18HBXX	1/3	3	0.21	1.5	910	870	830	790	730
		2	0.14	0.9	750	710	670	620	570
		1	0.14	0.9	750	710	670	620	570
24HBXX	1/3	4	0.33	2.0	1030	960	890	810	730
		3	0.21	1.5	880	840	800	760	700
		2	0.14	0.9	710	670	630	580	530
30HBXX	1/2	3	0.38	2.4	1360	1330	1300	1270	1230
		2	0.29	1.6	1180	1140	1100	1060	1020
		1	0.29	1.6	1180	1140	1100	1060	1020
36HBXX	1/2	4	0.47	3.2	1500	1450	1390	1330	1270
		3	0.38	2.4	1330	1300	1270	1230	1190
		2	0.29	1.6	1150	1110	1070	1030	990
48HBXX	1	4	0.72	4.1	1790	1740	1700	1670	1640
		3	0.68	3.8	1730	1690	1650	1610	1570
		2	0.51	2.6	1470	1430	1390	1350	1300
		1	0.36	1.6	1200	1160	1110	1050	970
60HBXX	1	3	0.98	6.5	2100	2060	2020	1980	1940
		2	0.85	5.1	1930	1890	1850	1810	1770
		1	0.68	3.7	1700	1660	1620	1580	1540

- NOTES: 1. Use 48HBXX for 3.5 ton applications and field convert to medium speed for cooling.
2. Shaded speed taps are factory settings (higher speed is cooling).

PHYSICAL DIMENSIONS												
UNIT MODEL	A	B	C	D	E	F	G	H	J	LIQ. (SWEAT)	SUCT. (SWEAT)	FILTER
18/24HBXX	40	20	20	18-1/2	16	2	18	16	3	3/8	5/8	18 X 20 X 1
30/36HBXX	42	23	20	21-1/2	16	2	18	17	5	3/8	3/4	20 X 22 X 1
48/60HBXX	48	28	21-1/4	26-1/4	17	2	19-1/4	18-1/4	8-7/8	1/2	7/8	20 X 25 X 1

PERFORMANCE DATA													
UNIT MODEL	NOM. CFM	(1) NOM. COOL. BTUH	ELECTRIC HEAT CAPACITY				TOTAL AMPS		MIN. CIR. AMPACITY		MAX. FUSE OR HACR BREAKER		
			kW		BTUH		240V	208V	240V	208V	240V	208V	
			240V	208V	240V	208V							
18HBXX & 24HBXX	-0	600	18,000	0	0	0	0	2.8	2.8	-	-	15	15
	-3			3	2.3	10,200	7,700	15.3	13.6	20	17	20	20
	-4			4	3	13,600	10,200	19.5	17.2	25	22	25	25
	-5	800	24,000	5	3.8	17,000	13,000	23.6	20.8	30	26	30	30
	-6			6	4.5	20,500	15,400	27.8	24.4	35	31	35	35
	-8			8	6	27,300	20,500	36.1	31.6	46	40	50	40
	-10			10	7.5	34,100	25,600	44.5	38.9	56	49	60	50
30HBXX & 36HBXX	-0	1,000	30,000	0	0	0	0	4.1	4.1	-	-	15	15
	-5			5	3.8	17,000	13,000	24.9	22.1	32	28	35	30
	-8			8	6	27,300	20,500	37.4	32.9	47	42	50	45
	-10	1,200	36,000	10	7.5	34,100	25,600	45.8	40.2	58	51	60	60
	(2) -15			15	11.3	51,100	38,500	45.8	40.2	58	51	60	60
								20.8	18	26	23	30	25
48HBXX	-0	1,600	48,000	0	0	0	0	7.6	7.6	-	-	15	15
	-5			5	3.8	17,000	13,000	28.4	25.6	36	32	40	35
	-8			8	6	27,300	20,500	40.9	36.4	52	46	60	50
	-10	(2) -15	48,000	9.5	7.1	34,100	25,600	47.2	41.9	59	53	60	60
				14.5	10.9	51,100	38,500	47.2	41.9	59	53	60	60
								20.8	18	26	23	30	25
60HBXX	-0	2,000	60,000	0	0	0	0	7.6	7.6	-	-	15	15
	-5			5	3.8	17,000	13,000	28.4	25.6	36	32	40	35
	-8			8	6	27,300	20,500	40.9	36.4	52	46	60	50
	-10	(2) -15	60,000	9.5	7.1	34,100	25,600	47.2	41.9	59	53	60	60
				14.5	10.9	51,100	38,500	47.2	41.9	59	53	60	60
								20.8	18	26	23	30	25
	(2) -20			19.5	14.6	68,200	51,100	47.2	41.9	59	53	60	60
					41.6	36	52	45	60	45			

NOTES:

- Nom. cooling at 45°F suction temp. 80°F DB / 67°F WB air on.
- 15kW and 20kW models require 2 supply circuits.
- Units suitable for installation with 0" clearance to combustible material.



Model Numbers:

		FACTORY INSTALLED TXV'S
MODEL SIZE (BTU)	MODEL (PISTON)	MODEL (R-410A TXV)
18,000	18HBXX(*)	18HBXX(*) R410A TXV
24,000	24HBXX(*)	24HBXX(*) R410A TXV
30,000	30HBXX(*)	30HBXX(*) R410A TXV
36,000	36HBXX(*)	36HBXX(*) R410A TXV
42,000/48,000	48HBXX(*)	48HBXX(*) R410A TXV
60,000	60HBXX(*)	60HBXX(*) R410A TXV

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

(*) = kW HEAT

NOTE:

Expansion valve requirement depends on the selected outdoor unit. Go to www.firstco.com or contact the factory for assistance.

ACCESSORIES - (all field installed)

EXPANSION VALVE KITS (Field installed) (cooling only or heat pump)	
R-410A	FOR
9EVR410-3	18/24HBXX
9EVR410-4	30/36HBXX
9EVR410-5	48/60HBXX

NOTES:

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

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.

Catalog HBXX620 (replaces hbxx718)