

MEETS 2006
DOE REQUIREMENTS (1)

HBX0-120 Series

Vertical / Horizontal Air Handler
120V-Cooling or Heat pump
2 - 5 tons



Description :

The **HBX0-120** series air handler is designed to offer the industry an air handler that includes every available feature as well as up to 13 SEER, depending on the selected outdoor unit. The **HBX0-120** is completely factory assembled with a cooling coil, 120V motor, 24V transformer, horizontal drain pan, and throw away filter. All components are installed within a fully insulated, galvanized steel cabinet.

(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 approved indoor/outdoor matches, go to: www.firstco.com or contact the factory.**

New Feature: Field or factory installable TXV's for optimum cooling performance.

NOW AVAILABLE WITH FIELD OR FACTORY INSTALLED R22 OR R410A EXPANSION VALVES

FEATURES:

1. Factory installed horizontal drain pan (Left or Right side down)
2. Compatible with all major brands of **split condensing units** and **heat pumps**
3. **Piston-type** metering device on cooling coil or field or factory installed R22 or R410a TXV's
4. Factory installed **filter**
5. **Copper tube** cooling coils
6. Primary and secondary **drain connections** on cooling coil
7. Fully **insulated and painted** galvanized steel cabinet



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HBX0-120 Series

DX / Heat Pump

Efficiency:

The **HBX0-120** series air handler is the latest state-of-the-art air handler for heat pump or straight cool (DX) operation. Depending on the condensing unit or heat pump used, cooling efficiency is up to 14 SEER (depending on the selected outdoor unit). Cooling coils have either piston type metering devices, or R22 or R410a TXV's and are circuited for cooling or heat pump operation.

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 approved indoor/outdoor matches, go to:

www.firstco.com or contact the factory

Components:

Each air handler includes a high efficiency cooling coil, 120V fan motor, 24V transformer, horizontal drain pan, and throw away filter.

Cabinets:

Cabinets are fully insulated.

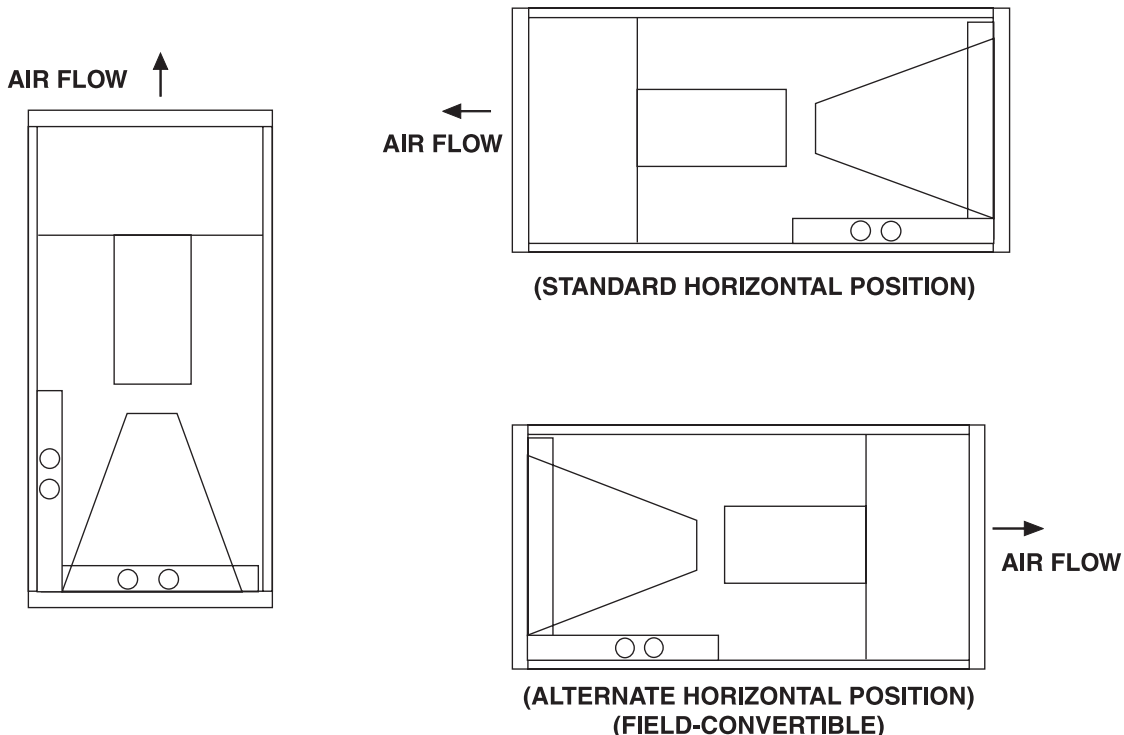
Installation:

No modification is required for vertical or horizontal (right-to-left) airflow. A horizontal drain pan is factory installed for right-to-left airflow and can be re-positioned within the cabinet to offer left-to-right airflow.

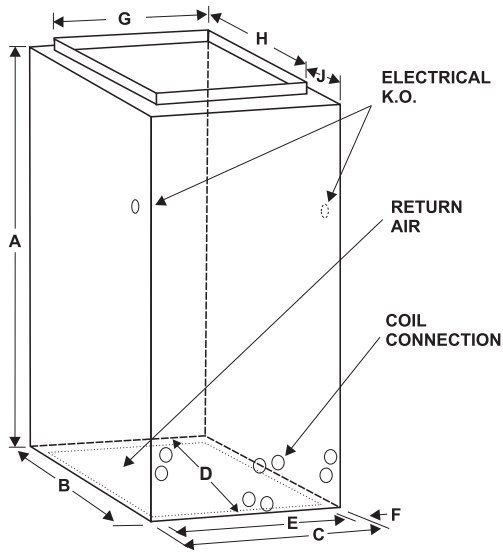
Accessories:

Accessories include cooling / heat pump TXV kits. (See page 4)

3-WAY AIRFLOW



HBX0-120 Series



PHYSICAL DIMENSIONS												
UNIT MODEL	A	B	C	D	E	F	G	H	J	LIQ. (SWEAT)	SUCT. (SWEAT)	FILTER
24HBX0-120	40	20	20	18-1/2	16	2	18	16	3	3/8	5/8	18 X 20 X 1
36HBX0-120	42	23	20	21-1/2	16	2	18	17	5	3/8	3/4	20 X 22 X 1
48/60HBX0-120	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

(See P.4 for Model Numbers)

BLOWER DATA											
UNIT MODEL	NOM. COOL TONS	MOTOR HP-AMP (120V)	MIN. CKT. AMPACITY	MAX. CKT. PROTECTION	MOTOR SPEED	CFM vs. EXTERNAL STATIC PRESSURE					
						0.05	0.10	0.20	0.30	0.40	0.50
24HBX0-120	2	1/5-3.0	3.75	15	HIGH	920	890	825	750	680	580
					MED-HI	750	730	680	610	540	450
					MED-LOW	555	530	480	420	330	---
					LOW	350	310	240	170	100	---
36HBX0-120	3	1/3-6.0	7.5	15	HIGH	1220	1185	1120	1070	1015	960
					MED-HI	1085	1060	1010	960	910	865
					MED-LOW	935	915	875	830	775	700
					LOW	750	730	695	650	605	550
48HBX0-120	4	1/2-8.0	10.0	15	HIGH	1730	1690	1620	1540	1450	1350
					MED	1580	1550	1490	1430	1360	1270
					LOW	1360	1340	1310	1270	1210	1100
60HBX0-120	5	3/4-10.5	13.12	15	HIGH	2030	2000	1950	1900	1840	1770
					MED	1630	1615	1580	1540	1490	1440
					LOW	1280	1270	1240	1210	1180	1140

Model Numbers:

		FACTORY INSTALLED TXV'S	
MODEL SIZE (BTU)	MODEL (PISTON)	MODEL (R22 TXV)	MODEL (R410a TXV)
24,000	24HBX0-120	24HBX0-120 w/R22 TXV	24HBX0-120 w/R410a TXV
36,000	36HBX0-120	36HBX0-120) w/R22 TXV	36HBX0-120 w/R410a TXV
42,000/48,000	48HBX0-120	48HBX0-120 w/R22 TXV	48HBX0-120 w/R410a TXV
60,000	60HBX0-120	60HBX0-120 w/R22 TXV	60HBX0-120 w/R410a TXV

All TXV's are approved for cooling only or heat pump operation.

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)	
PART NUMBER	FITS
R22	
9EVR22-4	24HBX0-120
9EVR22-5	36HBX0-120
9EVR22-6	48/60HBX0-120
R410a	
9EVR410-3	24HBX0-120
9EVR410-4	36HBX0-120
9EVR410-5	48/60HBX0-120

NOTES:

1. Above expansion valve kits are approved for both cooling only (non heat pump) and heat pump applications.
2. Valves are external equalizing, internal bleed.
3. Valves have screw-on connections.

In keeping with its policy of continuous progress and product improvement, First Operations reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at www.firstco.com.