

June J





F2 BLOWER COILS

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KBH This unit features a horizontal concealed arrangement with belt driven motor.



BLOWER COILS

KBV This unit features a

vertical concealed arrangement with belt driven motor.



KSL This unit features a

This unit features a vertical small footprint arrangement with bottom return air.

vertical small footprint arrangement with rear



KSB This unit features a

return air. **KBM**This unit featu



KBM This unit features a highly configurable modular arrangement.

KBH & KBV

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Excellence in Air Distribution

KSL & KSB

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Introduction: KBH, KBV -

Model KBH and KBV belt drive blower coils offer a wide range of application flexibility, while maintaining a simple, easy to install unit design. They may be applied in many types of building structures including schools, office buildings, hospitals, condominiums, assisted living facilities, apartments or stores. Applications can be constant or variable volume. There are many applications the KBH and KBV product can be utilized. Some examples are listed below.

Constant Volume Applications:

- Two-pipe hydronic system for cooling and/or h eating.
- Two-pipe hydronic cooling system with electric heat.
- Four-pipe system with dedicated heating and cooling coils.
- Direct Expansion (DX) split systems with hydronic heat.
- Direct Expansion (DX) split systems with electric heat.

Variable Volume Applications:

- Two-pipe hydronic system for cooling and/or heating.
- Two-pipe hydronic cooling system with electric heat.
- · Four-pipe system with dedicated heating and cooling coils.

MODEL

KBH - Horizontal Unit KBV - Vertical Unit





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F2 BLOWER COILS KBH, KBV | Horizontal and Vertical

KBH, KBV Product Description -

ACOUSTICS

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Control of noise within both occupied and unoccupied spaces has become increasingly important to designers and building owners/occupants. Proper consideration must be given to placement of indoor air conditioning units, particularly in the occupied space. Inherent flexibility of the fan and coil combination in the vertical configuration allows application in sound-sensitive areas. In such instances, a fan running at a low speed with a high capacity coil normally yields satisfactory results. It also may be desirable to select a larger nominal capacity unit and operate it at a less than nominal airflow for further acoustic benefit.

Three phase motors are recommended for soundsensitive applications to avoid potential single phase motor hum. Unit operation in the stall region of the fan curve is not recommended since it may cause unsatisfactory noise levels and excessive unit vibration.

INSTALLATION

These floor mounted or ceiling hung units can be installed with external vibration isolation on a base rail (KBH or KBV) or hanger rods (KBH only) at the corner points. This requires flex connections at the corner brackets, ductwork, electrical connections and piping connections. One of the most important and basic IAQ issues is condensate management. The first step to trouble-free operation is proper installation. It is very important that the unit be mounted high enough so that the condensate drain from the unit may be properly trapped.

Please refer to the KBH and KBV IOM manual at www.kruegerhvac.com for specifics on this issue. As with all HVAC systems, these units should be installed according to all applicable ASHRAE standards, SMACNA, and local code requirements.

OPERATING LIMITATIONS

Units must not be operated above maximum fan speed or unit airflow as listed in the fan performance section of this catalog. Unit operation at greater than maximum fan speed could drastically reduce bearing life and may result in a catastrophic wheel failure. Operating at greater than the maximum allowable airflow in the cooling mode may result in unsatisfactory operation due to moisture carry over from the coil. In addition, it is often not economical to operate a unit at its maximum fan speed due to the greater motor power requirements.

Units with electric heat should not be operated with leaving air temperature greater than 104°F (40°C), to prevent excessive leaving air temperatures and electric heat limit trips. A hydronic (or steam) coil and electric heat should not be operated simultaneously to prevent excessive leaving air temperatures and limit trips. Electric heat units are equipped with a high limit lockout switch that disables the electric heater if the temperature of the hydronic coil is greater than 104°F (40°C).

H Water coils must not be operated above a fluid velocity of 8 ft./sec. to reduce the possibility of velocity induced erosion and flow noise. Water coils must not be operated below a fluid velocity of 1 ft./sec. to prevent degraded coil performance caused by laminar flow. These high or low fluid flow rates may not be included in the AHRI coil certification.

DESIGNED FOR MAXIMUM FLEXIBILITY

Both horizontal and vertical belt drive blower coils are designed to maximize flexibility of selection and installation.

The units will exceed the stringent quality standards of the institutional market, while remaining cost competitive in the light commercial segment of the market.

COMPONENT OPTIONS

The extensive variety of standard options available on the KBH and KBV units are where you find the versatility to fit any HVAC system designer's needs.

Options include mixing boxes with standard low leak dampers, high efficiency filter sections for 2" prefilter and 4" final filter and blow thru electric heat with single point power connection. All Electric Heat units are listed with ETL as an assembly and carry the cETL label.

High Efficiency motors, starters, disconnects and fusing mean easier coordination between mechanical and electrical trades. All KBH and KBV belt drive blower coils have the option of foil faced insulation.

COIL OPTIONS

Coil options allow for 4 or 6 row cooling coils. Water coils have optional circuiting that can be used to reduce water pressure drop, which may also allow for pipe size reductions and lower material cost. Hot water or standard steam coils may be placed in the preheat or reheat position.

QUALITY PRODUCT

KBH and KBV belt drive blower coils are built from 18 gage galvanized steel. This metal surpasses the ASTM 125 hour salt spray test for corrosion and rust. Standard insulation is 1 inch thick fiberglass, complying with UL 181 and NFPA 90A.

All units, with or without electric heat, are cETL listed and labeled. All wiring is in compliance with NEC, assuring safety and quality for the owner.

LOWER INSTALLED COST

All KBH and KBV belt drive blower coils are shipped completely assembled, reducing field installation time and labor. All units are thoroughly inspected and tested prior to shipment, eliminating potential problems at startup. Motor wiring is brought to a junction box on the outside of the unit casing, reducing electrical hook-up time.

A wide variety of fan discharge configurations allow for increased flexibility and easier installation on the jobsite, resulting in cost reductions by eliminating expensive elbows, etc.

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KBH, KBV Product Description

STANDARD FEATURES

Construction

- · Galvanized steel cabinet construction, minimum 18 gage.
- 1" thick fiberglass insulation.
- · 1" supply duct collars.
- · Gasketed, removable access panels sized for easy handling.
- IAQ galvanized steel drain pan.
- · Left and right hand arrangement.

Fan Assembly

- · Forward curved (double width, double inlet) fans .
- Statically and dynamically balanced.
- · Solid steel shafting.
- Ball bearings with a minimum design average life (L50) of 100,000 hours.

Fan Motor and Drive

- NEMA design ODP motors.
- 1750 RPM single speed, 60 Hertz.
- Single phase motors with inherent thermal protection.
- Three phase motors.
- Rigid mount adjustable motor base.
- Standard cross section "V-belt" drive with 1.2 service factor.
- Adjustable pitch motor pulley and fixed pitch blower pulley.

Coils

- Krueger coils are designed, manufactured and tested by Krueger.
- 1/2" O.D. seamless copper tubes.
- High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover.
- Mechanically expanded copper tubes leak tested to a minimum 450 PSIG air pressure under water.
- · Manual air vent plug on all water coils.
- · Copper ODM sweat connections.
- 300 PSIG working pressure at 200°F.
- Evaporator coils are factory sealed and charged with a minimum of 5 PSIG nitrogen or refrigerated dry air.
- Refrigerant coils are provided with a fixed orifice distributor.
- Steam coils rated at 15 PSIG maximum operating pressure at about 35°F.
- 0.016" tube wall thickness (0.025" on steam).

Filters and Filter Rack

- Hinged side access flat filter rack.
- Standard size 2" nominal throwaway filters.
- Filter rack designed to accept 2" filters.

Electrical

- Fan motor wired and terminated to junction box.
- All units cETL listed in compliance with UL/ANSI Standard 1995.

OPTIONAL FEATURES

Construction

- IAQ (sloped) stainless steel drain pan with 1" MPT galvanized pipe outlet.
- · Galvanized steel drain pan.
- External rubber-in-shear or spring type vibration isolators, hangers or floor mount.
- Fan discharge arrangements.
- Scrim reinforced foil faced insulation.
- · Hinged access panels with lift and turn fasteners.
- · Base rails with rigging slots factory assembled and installed.
- · Auxiliary (secondary) drain connections.

Fan Motor and Drive

- · High efficiency motors.
- TEFC motors.

Coils

- 3, 4 and 6 row chilled water or DX coils.
- 1 and 2 row hot water or standard steam coils.
- · Heating coil in preheat or reheat position.
- · Coil connections opposite handing.
- Stainless steel coil casings.
- · Automatic air vents on water coils.
- · Heat pump compatible cooling coils.
- 0.025" tube wall thickness.

Filters

- 2" pleated filter.
- Spare throwaway or pleated filters.
- High efficiency filter rack with 2" and 4" filters.

Inlet Damper Section

- · Factory assembled and installed.
- · Heavy gage galvanized steel formed blade dampers.
- Low leak dampers with extruded vinyl blade seals and flexible metal jamb seals.
- · Parallel blade operation.
- · Interconnecting damper linkage.

Electrical

- Motor wiring on conduit.
- Motor starter (contactor with overload for three phase; contactor for single phase), factory installed (mounted and wired).
- · Door interlocking disconnect switch (non-fused).
- · Hand off auto switch (HOA).
- · Main fusing.

Electric Heat Section

• Factory mounted electric heater with single point power connection, cETL listed as an assembly (see page 13).

BLOWER COILS

F2 BLOWER COILS

KBH, KBV | Horizontal and Vertical

KBH, BHV Coil and Static Pressure Information -

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BLOWER COIL

Krueger offers hot water, chilled water and direct expansion (DX) coils for specific application with all KBH and KBV blower coils. A strict on-site inspection before, during, and after installation guarantees the highest quality and performance available.

STANDARD FEATURES

- · Krueger coils are designed, manufactured and tested by Krueger.
- 1/2" O.D. seamless copper tubes.
- High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carry over.
- · Mechanically expanded copper tubes leak tested to a minimum 450 PSIG air pressure under water.
- · Manual air vent plug on all water coils.

COMPONENT STATIC PRESSURE LOSS ("WG)

· Copper ODM sweat connections.

- 300 PSIG working pressure at 200°F.
- Evaporator coils are factory sealed and charged with a minimum of 5 PSIG nitrogen or refrigerated dry air.
- Refrigerant coils are provided with a fixed orifice distributor.
- Steam coils rated at 15 PSIG maximum operating pressure at about 35°F.
- 0.016" tube wall thickness (0.025" on steam).

OPTIONAL FEATURES

- · Stainless steel coil casings.
- · Automatic air vents on water coils.
- Heat pump compatible cooling coils.
- 0.025" tube wall thickness.

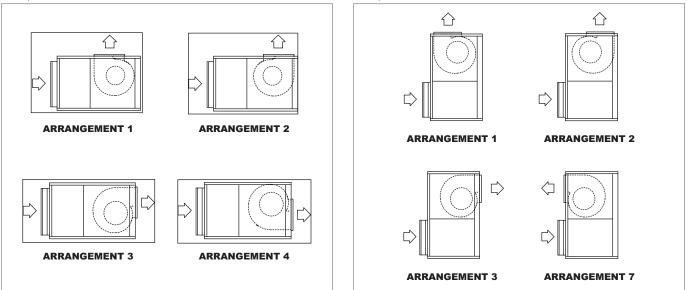
2												
	Unit Nominal Size CFM Cabinet		Cabinet	Cohinot	Filter			Coil Type			Inlet	Electric Heat
				(2" T/A)	1 Row	2 Row	3 Row	4 Row	6 Row	Damper Section	Section	
I	8	800	0.09	0.25	0.05	0.1	0.23	0.31	0.47	0.04	0.05	
ſ	12	1200	0.09	0.25	0.06	0.12	0.29	0.39	0.58	0.06	0.05	
	16	1600	0.1	0.25	0.06	0.13	0.3	0.4	0.6	0.09	0.05	
	20	2000	0.11	0.25	0.06	0.11	0.26	0.35	0.52	0.05	0.05	
	30	3000	0.14	0.25	0.07	0.13	0.31	0.41	0.61	0.08	0.05	
ſ	40	4000	0.16	0.25	0.07	0.14	0.32	0.43	0.64	0.07	0.05	

NOTES: All static pressures are at nominal CFM. Coil static pressure for standard coil, 10 FPI at 80/67 EAT and 45° EWT with 10° temperature rise. For 8, 12 or 14 FPI, refer to Krueger's selection software. Filter static pressure based on 50% loaded filter. If pleated filters are used in lieu of throw away, the filter static pressure loss is 0.35.

KBV, DISCHARGE OPTIONS

KBH, BHV Discharge Options

KBH, DISCHARGE OPTIONS



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arrangement 3 and 4 only.

NOTES: Refer to dimensional data for unit dimensions. All drawings subject to change without prior notice. Electric heaters are available in fan 💿

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KBH, BHV Coil and Filter Information -

COIL AND FILTER INFORMATION

Unit Size	Coil Face Area		2" Flat Filter	Filter Face Area
Unit Size			Sizes	Filler Face Area
8	2.1 [0.20]	1	16" x 20" x 2" (406 x 508 x 51)	2.2 [0.20]
12	2.7 [0.25]	1	16" x 25" x 2" (406 x 635 x 51)	2.8 [0.26]
16	3.5 [0.33]	2	16" x 20" x 2" (406 x 508 x 51)	4.4 [0.41]
20	4.9 [0.46]	1 1	16" x 20" x 2" (406 x 508 x 51) 16" x 25" x 2" (406 x 635 x 51)	5.0 [0.46]
30	6.5 [0.60]	2 1	16" x 25" x 2" (406 x 635 x 51) 20" x 25" x 2" (508 x 635 x 51)	9.0 [0.84]
40	8.4 [0.78]	3	20" x 25" x 2" (508 x 635 x 51)	10.4 [0.97]

NOTES: Standard filters are 2" throw away. Filter sizes are nominal and standard size, measured in inches (millimeters). Coil and filter face areas are measured in square feet [square meters]. Cooling and heating coils have same face area.

NOMINAL COIL CONNECTION SIZES

	Coil Type														
Unit	Water					Steam			Refrigerant						
Size	1	2	3	4	6	1 R	low	2 R	low	3 F	Row	4 F	low	6 R	low
	Row	Row	Row	Row	Row	Stm.	Cond.	Stm.	Cond.	Liq.	Suct.	Liq.	Suct.	Liq.	Suct.
8	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"	7/8"	1 1/8"	7/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	(16)	(16)	(22)	(22)	(22)	(29)	(22)	(29)	(22)	(16)	(16)	(16)	(16)	(16)	(16)
12	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"	7/8"	1 1/8"	7/8"	5/8"	7/8"	5/8"	7/8"	5/8"	7/8"
	(16)	(16)	(22)	(22)	(22)	(29)	(22)	(29)	(22)	(16)	(22)	(16)	(22)	(16)	(22)
16	5/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	7/8"	1 3/8"	1 1/8"	5/8"	7/8"	5/8"	7/8"	5/8"	7/8"
	(16)	(22)	(22)	(22)	(29)	(29)	(22)	(35)	(29)	(16)	(22)	(16)	(22)	(16)	(22)
20	5/8"	7/8"	1 1/8	1 1/8"	1 1/8"	1 3/8"	1 1/8"	1 3/8"	1 1/8"	5/8"	7/8"	5/8"	7/8"	5/8"	7/8"
	(16)	(22)	(29)	(29)	(29)	(35)	(29)	(35)	(29)	(16)	(22)	(16)	(22)	(16)	(22)
30	7/8"	1 1/8"	1 1/8	1 1/8"	1 3/8"	1 5/8"	1 1/8"	1 5/8"	1 1/8"	5/8"	1 1/8"	5/8"	1 1/8"	5/8"	1 1/8"
	(22)	(29)	(29)	(29)	(35)	(41)	(29)	(41)	(29)	(16)	(29)	(16)	(29)	(16)	(29)
40	1 1/8"	1 3/8"	1 3/8	1 3/8"	1 5/8"	2 1/8"	1 3/8"	2 1/8"	1 3/8"	5/8"	1 1/8"	5/8"	1 1/8"	7/8"	1 3/8"
	(29)	(35)	(35)	(35)	(41)	(54)	(35)	(54)	(35)	(16)	(29)	(16)	(29)	(22)	(35)

NOTES: Water coils are based on standard GPM circuiting. Consult Krueger for applications requiring special circuiting. For other selections, refer to Krueger's selection software. Refrigerant coil connection sizes for single circuit coils and may vary with application. Contact Krueger for double circuit coils. All dimensional data is outside diameter (O.D.), measured in inches (millimeters). See page 5 for a list of standard and optional features of coils.

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B V

F2 BLOWER COILS

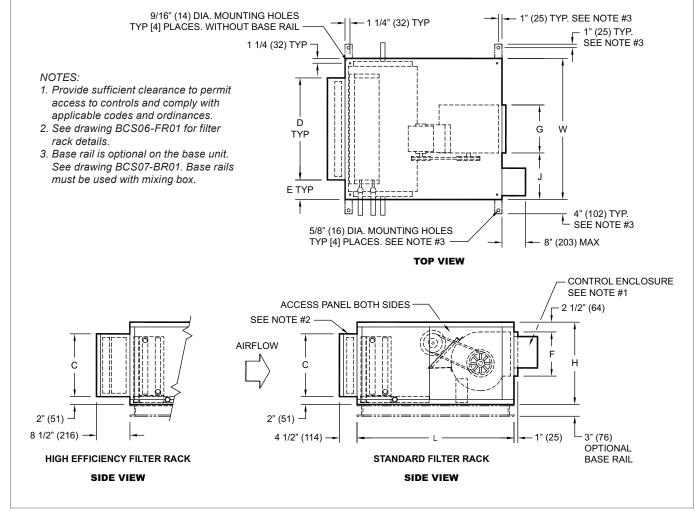
KBH Dimensional Information

KBH TOP AND SIDE VIEWS (ARR 3)

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OWER COIL

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KBH DIMENSIONAL DETAILS

Unit Size	Fan Size	L	W	Н	С	D	E	F	G	J
8	9" x 4"	40"	30"	21"	16"	20"	5"	10 1/4"	6 7/8"	11 9/16"
	(229 x 102)	(1016)	(762)	(533)	(406)	(508)	(127)	(260)	(175)	(294)
12	9" x 6"	40"	36"	21"	16"	25"	5 1/2"	11 1/4"	8 1/4"	13 7/8"
	(229 x 152)	(1016)	(914)	(533)	(406)	(635)	(140)	(286)	(210)	(352)
16	10" x 8"	40"	44"	21"	16"	39 1/2"	2 1/4"	11 3/8"	10 1/4"	16 7/8"
	(254 x 203)	(1016)	(1118)	(533)	(406)	(1003)	(57)	(289)	(260)	(429)
20	10" x 10"	40"	50"	21"	16"	44 1/2"	2 3/4"	11 3/8"	13 1/4"	18 3/8"
	(254 x 254)	(1016)	(1270)	(533)	(406)	(1130)	(70)	(289)	(337)	(467)
30	15" x 9"	46"	59"	30"	25"	51"	4"	16"	13 1/4"	22 7/8"
	(381 x 229)	(1168)	(1499)	(762)	(635)	(1295)	(102)	(406)	(337)	(581)
40	15" x 11"	46"	68"	30"	25"	59"	4 1/2"	16"	15"	26 1/2"
	(381 x 279)	(1168)	(1727)	(762)	(635)	(1499)	(114)	(406)	(381)	(673)

NOTES: Dimensions in parentheses are mm. All dimensions are ±1/4" (6mm). Metric values are soft conversion. Right hand unit shown, left hand unit opposite. Motor/drive location may be specified left hand or right hand. Standard control enclosure location matches motor/drive position. See coil connection sizes and locations.

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В V

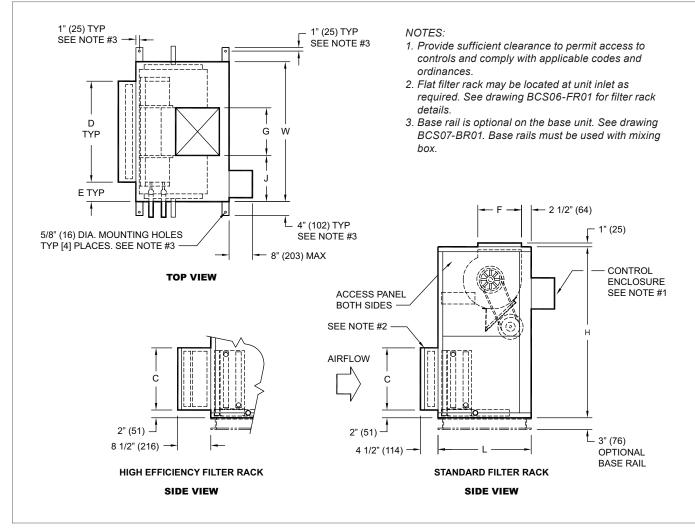


Excellence in Air Distribution



KBV Dimensional Information

KBV TOP AND SIDE VIEWS (ARR 2)



KBV DIMENSIONAL DETAILS

Unit Size	Fan Size	L	W	Н	С	D	E	F	G	J
8	9" x 4"	24"	30"	44"	16"	20"	5"	10 1/4"	6 7/8"	11 9/16"
	(229 x 102)	(610)	(762)	(1118)	(406)	(508)	(127)	(260)	(175)	(294)
12	9" x 6"	24"	36"	44"	16"	25"	5 1/2"	11 1/4"	8 1/4"	13 7/8"
	(229 x 152)	(610)	(914)	(1118)	(406)	(635)	(140)	(286)	(210)	(352)
16	10" x 8"	24"	44"	44"	16"	39 1/2"	2 1/4"	13 1/2"	10 1/4"	16 7/8"
	(254 x 203)	(610)	(1118)	(1118)	(406)	(1003)	(57)	(343)	(260)	(429)
20	10" x 10"	30"	50"	50"	16"	44 1/2"	2 3/4"	13 1/2"	13 1/4"	18 3/8"
	(254 x 254)	(762)	(1270)	(1270)	(406)	(1130)	(70)	(343)	(337)	(467)
30	15" x 9"	30"	59"	56"	25"	51"	4"	16"	13 1/4"	22 7/8"
	(381 x 229)	(762)	(1499)	(1422)	(635)	(1295)	(102)	(406)	(337)	(581)
40	15" x 11"	30"	68"	59"	25"	59"	4 1/2"	16"	15"	26 1/2"
	(381 x 279)	(762)	(1727)	(1499)	(635)	(1499)	(114)	(406)	(381)	(673)

 NOTES: Dimensions in parentheses are mm. All dimensions are ±1/4" (6mm). Metric values are soft conversion. Right hand unit shown, left hand unit opposite. Motor/drive location may be specified left hand or right hand. Standard control enclosure location matches motor/drive position.
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 See coil connection drawings for coil connection sizes and locations.
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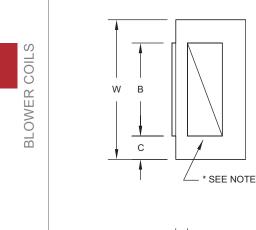
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B V



KBH, BHV Standard Mixing Box Dimensional Information

STANDARD MIXING BOX TOP AND SIDE VIEWS

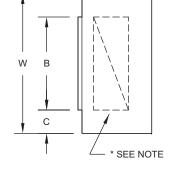


1" (25)

AIRFLOW

3" (76)

1" (25)





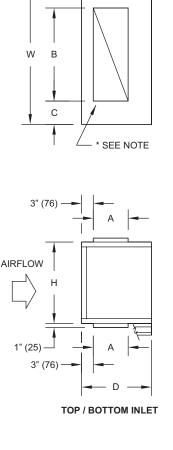
3" (76)

AIRFLOW

1" (25)

3" (76) BASE

RAIL



SIDE VIEWS

BOTTOM / REAR INLET

3" (76)

1" (25)

Α

* Damper drive rods are internal, located on both sides of unit.

D

TOP / REAR INLET

3" (76)

Α

STANDARD MIXING BOX, DIMENSIONAL DETAILS

Unit Size	Н	W	Α	В	С	D
8	21" (533)	30" (762)	9" (229)	18" (457)	6" (152)	18" (457)
12	21" (533)	36" (914)	9" (229)	24" (610)	6" (152)	18" (457)
16	21" (533)	44" (1118)	9" (229)	30" (762)	7" (178)	18" (457)
20	21" (533)	50" (1270)	12" (305)	36" (914)	7" (178)	21" (533)
30	30" (762)	59" (1499)	12" (305)	45" (1143)	7" (178)	21" (533)
40	30" (762)	68" (1727)	15" (381)	48" (1219)	10" (254)	24" (610)

NOTES: Dimensions in parentheses are mm. All dimensions are ±1/4" (6mm). Metric values are soft conversion. Mixing box includes space for standard flat filter rack. See drawing BCS07-BR01. Base rails are including with mixing box.

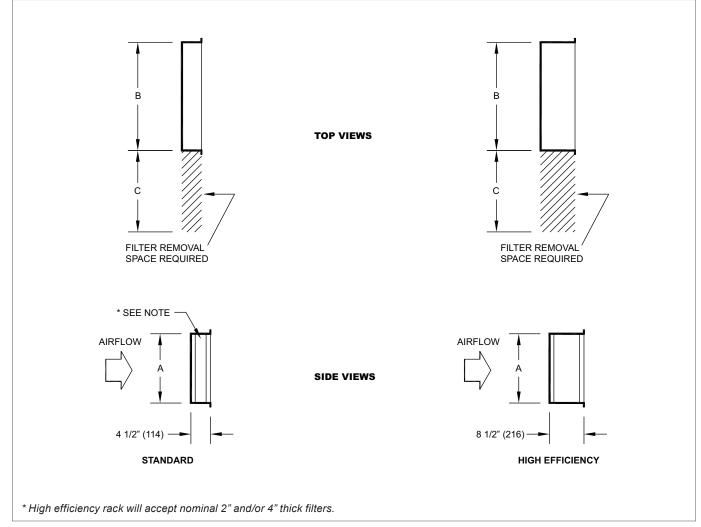


BLOWER COILS F2

KBH, KBV | Horizontal and Vertical

KBH, BHV Standard Flat Filter Rack Dimensional Information -

STANDARD FLAT FILTER RACK TOP AND SIDE VIEWS



STANDARD MIXING BOX, DIMENSIONAL DETAILS

Unit Size	Н	W	A	Filter Quantity	Filter Size
8	16" (406)	20" (508)	20" (508)	1	16" x 20"
12	16" (406)	25" (635)	25" (635)	1	16" x 25"
16	16" (406)	39 1/2" (1003)	20" (508)	2	16" x 20"
20	16" (406)	44 1/2" (1130)	25" (635)	1 1	16" x 20" 16" x 25"
30	25" (635)	51" (1295)	25" (635)	2 1	16" x 25" 20" x 25"
40	25" (635)	59" (1499)	25" (635)	3	20" x 25"

NOTES: Dimensions in parentheses are mm. All dimensions are $\pm 1/4$ " (6mm). Metric values are soft conversion. Flat filter rack may be located at unit inlet as required. Standard rack will accept nominal 1" or 2" thick filters. 1" duct connections space provided on entering side of rack for connection of field ductwork. Hinged cover provided in both sides of externally mounted filter racks. Internal standard filter racks have pivoting bar type filter retainer. See individual unit submittal drawings for location of filter rack on unit. High efficiency rack not available with mixing box option.

BLOWER COILS

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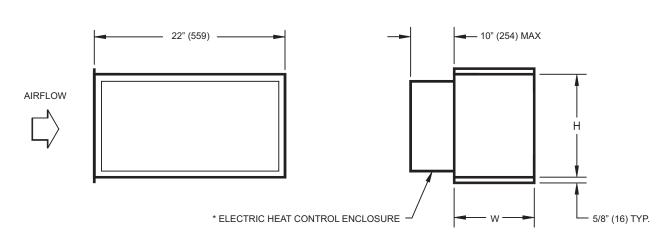
BLOWER COIL

KBH, KBV | Horizontal and Vertical



KBH, KBV Electric Heat Dimensional Information

BLOW THRU ELECTRIC HEAT TOP AND SIDE VIEWS



*Provide sufficient clearance to permit access to controls and comply with applicable codes and ordinances.

BLOW THRU ELECTRIC HEAT DIMENSIONAL DETAILS

Unit Size	Н	W	Weight lbs (kg)
8	11 7/8" (302)	8 7/8" (225)	42" (19)
12	11 7/8" (302)	8 7/8" (225)	42" (19)
16	12" (305)	10 7/8" (278)	42" (19)
20	12" (305)	13 7/8" (352)	50" (23)
30	16 5/8" (422)	13 7/8" (352)	55" (25)
40	16 5/8" (422)	15 5/8" (397)	55" (25)

NOTES: Dimensions in parentheses are mm. All dimensions are $\pm 1/4$ " (6mm). Metric values are soft conversion. Motor/drive location may be specified left or right hand. Standard control enclosure location matches motor/drive position. Available for horizontal discharge only.



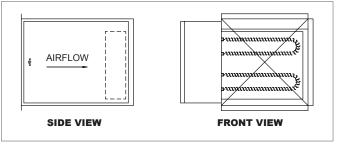


ELECTRIC HEAT STANDARD FEATURES

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- · Flanged construction for direct unit mounting, in blow thru configuration.
- Listed for zero clearance installation.
- · Meets National Electrical Code requirements.
- · Ni-Chrome wire in ceramic insulators.
- · Stainless steel element terminals and hardware.
- · Element support brackets on maximum 3 1/2" centers.
- · Solid cover with continuous full height hinge.
- · Over-temperature protection.
- All internal wiring rated for 105°C minimum.
- · Airflow switch.
- Incoming line power distribution block.
- cETL Listed in compliance with UL/ANSI Standard 1995.
- Single point power connection.
- · Heater factory mounted to unit with cETL listing as an assembly.

BLOW THRU (INSTALLED ON UNIT DISCHARGE)



OPTIONAL HEATER CONTROL

- · Main incoming power disconnect (non-fused)
- Fusing (main) (per stage).
- · Magnetic contactors wired for disconnecting operation.
- · Fan control package with heater interlock contacts (required for single point power connection).

ELECTRICAL CALCULATIONS INFORMATION

- · Non-fused door interlock disconnect switch shall be sized according to MCA.
- · Main fusing shall be sized according to MOP.

NOTE: A minimum of 0.1" w.g. downstream static pressure is required in the duct to ensure proper heater operation.

HEATER AMP CALCULATION

Voltage	AMPs per kW
115 / 1	8.70
208 / 1	4.81
230 / 1	4.35
277 / 1	3.61
208 / 3	2.78
230 / 3	2.51
460 / 3	1.26
575 / 3	1.00



ELECTRIC HEAT kW LIMITS

	4 \ / - 14								Unit	Size							
Unit Voltage and Phase			8		10		1	2	1	6	20		30		40		
			Min	Max	Min	Max	Min	Мах	Min	Max	Min	Мах	Min	Мах	Min	Мах	
	115	kW	3	5	3	5	3	5	4	5	4	5					
	115	AMPs	26.1	43.5	26.1	43.5	26.1	43.5	34.8	43.5	34.8	43.5		-		-	
	208	kW	3	9	3	9	3	9	4	9	4	9	6	9	7	9	
Single	200	AMPs	14.4	43.3	14.4	43.3	14.4	43.3	19.2	43.3	19.2	43.3	28.8	43.3	33.7	43.3	
Phase	230	kW	3	11	3	11	3	11	4	11	4	11	6	11	7	11	
		AMPs	13.0	47.8	13.0	47.8	13.0	47.8	17.4	47.8	17.4	47.8	26.1	47.8	30.4	47.8	
	277	kW	3	13	3	13	3	13	4	13	4	13	6	13	7	13	
		AMPs	10.8	46.9	10.8	46.9	10.8	46.9	14.4	46.9	14.4	46.9	21.7	46.9	25.3	46.9	
	208	kW	3	13	3	16	3	16	4	16	4	16	4	16	7	16	
	200	AMPs	8.3	36.1	8.3	44.4	8.3	44.4	11.1	44.4	11.1	44.4	11.1	44.4	19.4	44.4	
	230	kW	3	13	3	18	3	18	4	18	4	18	4	18	7	18	
Three	230	AMPs	7.5	32.6	7.5	45.2	7.5	45.2	10.0	45.2	10.0	45.2	10.0	45.2	17.6	45.2	
Phase	460	kW	3	13	3	20	3	20	4	26	4	26	4	26	7	38	
	460	AMPs	3.8	16.3	3.8	25.1	3.8	25.1	5.0	32.6	5.0	32.6	5.0	32.6	8.8	47.7	
	575	kW	3	13	3	20	3	20	4	26	4	26	4	26	7	46	
	5/5	AMPs	3.0	13.1	3.0	20.1	3.0	20.1	4.0	26.1	4.0	26.1	4.0	26.1	7.0	46.2	

NOTES: Factory certified submittals available upon request. Standard heater kW limits are maximum per unit size and voltage. Heater should be sized for a maximum leaving air temperature of 104°F.



BLOWER COILS



KBH, KBV Electrical and Weight Information -

MOTOR ELECTRICAL INFORMATION

	Maximum Motor Amperage														
Horsepower		Voltage													
	115/1	208/1	230/1	277/1	208/3	230/3	460/3	575/3							
1/3	6.3	3.5	3.2	2.6	1.7	1.5	0.8	-							
1/2	7.8	4.3	3.9	3.6	2.2	2.1	1.1	0.9							
3/4	10.6	5.4	5.3	5.0	3.2	3.0	1.5	1.2							
1	15.0	8.3	7.5	5.5	4.0	3.6	1.8	1.4							
1 1/2	-	-	-	-	5.3	5.0	2.5	1.9							
2	-	-	-	-	7.0	6.4	3.2	2.5							
3	-	-	-	-	9.1	9.0	4.5	3.2							
5	-	-	-	-	14.2	12.8	6.4	5.2							

NOTES: Actual motor nameplate AMPs may vary, but will not exceed values shown. Consult Krueger for applications requiring special motors.

UNIT WEIGHTS

Comm	onont			Unit	Size			
Comp	oonent	8	12	16	20	30	40	
Base	e Unit	135 [61]	157 [71]	177 [80]	200 [90]	290 [131]	360 [163]	
Mixin	g Box	46 [21]	54 [24]	65 [29]	90 [41]	105 [46]	162 [73]	
Blow Thru El	lectric Heater	42 [19]	42 [19]	42 [19]	50 [23]	55 [25]	55 [25]	
	1 ROW - DRY	12 [5]	14 [6]	17 [8]	21 [10]	26 [12]	32 [15]	
	1 ROW - WET	14 [6]	16 [7]	20 [9]	25 [11]	32 [15]	41 [19]	
	2 ROW - DRY	17 [8]	21 [10]	26 [12]	33 [15]	42 [19]	52 [24]	
	2 ROW - WET	21 [10]	26 [12]	32 [15]	42 [19]	54 [25]	69 [31]	
Coil Rows	3 ROW - DRY	23 [10]	28 [13]	35 [16]	45 [20]	57 [26]	72 [33]	
COILKOWS	3 ROW - WET	29 [13]	36 [16]	44 [20]	59 [27]	75 [34]	95 [43]	
	4 ROW - DRY	29 [13]	35 [16]	44 [20]	57 [26]	73 [33]	91 [41]	
	4 ROW - WET	37 [17]	45 [20]	56 [25]	74 [34]	96 [44]	121 [55]	
	6 ROW - DRY	40 [18]	49 [22]	62 [28]	81 [37]	104 [47]	132 [60]	
	6 ROW - WET	52 [24]	64 [29]	81 [37]	106 [48]	138 [63]	178 [81]	

NOTES: Unit weight data is shipping weight in pounds [kilograms].

MOTOR / DRIVE WEIGHTS

Turne				Motor Ho	rsepower			
Туре	1/3	1/2	3/4	1	1 1/2	2	3	5
Single Phase	37 [17]	37 [17]	45 [20]	47 [21]	-	-	-	-
Three Phase	34 [15]	34 [15]	40 [18]	43 [20]	46 [21]	53 [24]	81 [37]	94 [43]

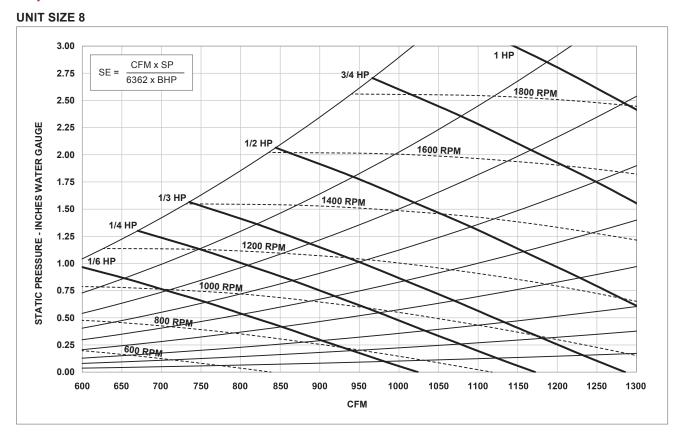
NOTES: Includes motor, pulleys, belts, and motor base. Motor/drive weight data is shipping weight in pounds [kilograms].



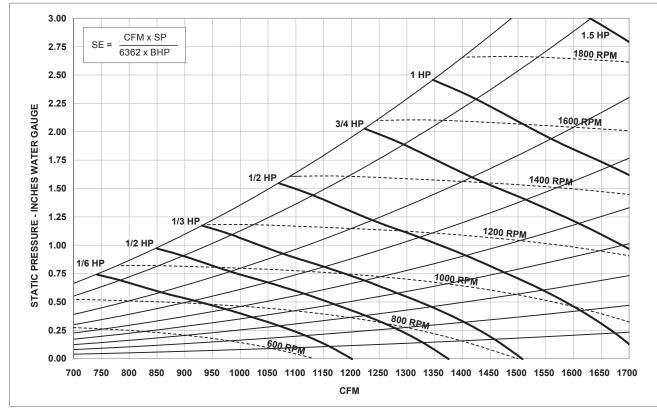
KBH, KBV Fan Curves

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UNIT SIZE 12



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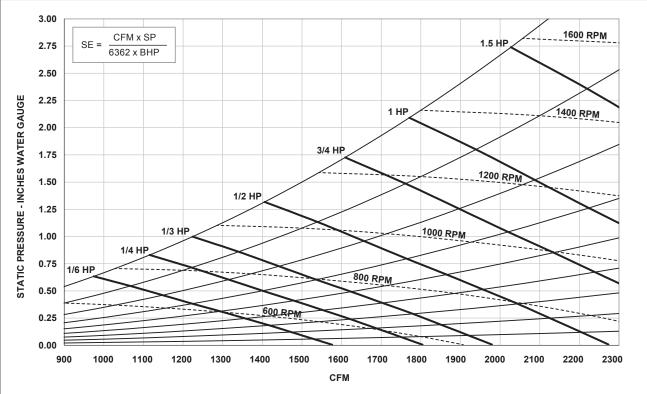
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F2 BLOWER COILS

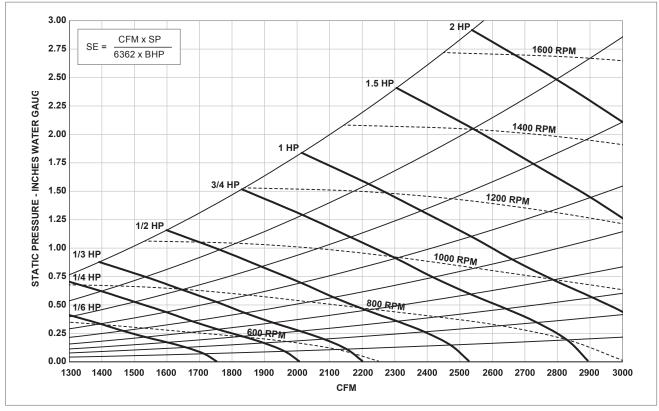
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UNIT SIZE 20



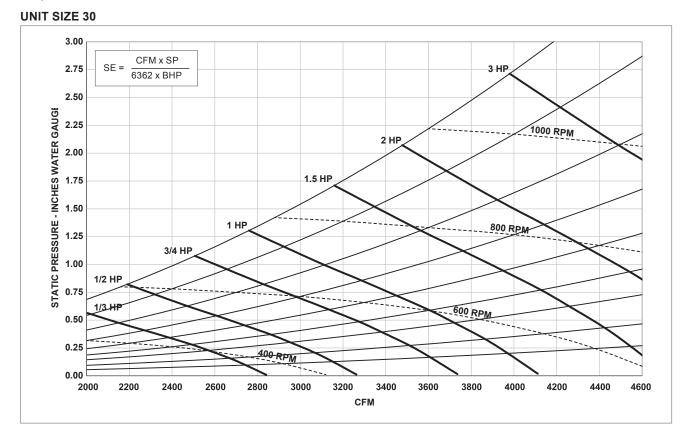




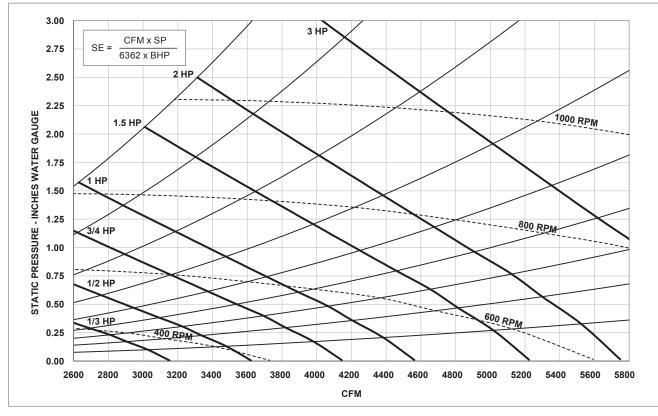
KBH, KBV Fan Curves

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UNIT SIZE 40



BLOWER COILS

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KBH, KBV Performance Data -

FORWARD CURVED FAN PERFORMANCE DATA, UNIT SIZES 8 - 16

TSP	Unit Size		1	8				1	12					16		
"WG	Actual CFM	600	700	800	900	1000	1000	1100	1200	1300	1400	1400	1500	1600	1700	1800
2.4	RPM	-	-	-	-	1746	-	-	-	-	1710	-	-	-	-	-
2.4	BHP	-	-	-	-	0.70	-	-	-	-	1.02	-	-	-	-	-
2.2	RPM	-	-	-	1670	1674	-	-	-	1638	1638	-	-	-	-	1415
2.2	BHP	-	-	-	0.57	0.65	-	-	-	0.87	0.95	-	-	-	-	1.08
2.0	RPM	-	-	-	1594	1598	-	-	-	1561	1568	-	-	-	1349	1353
2.0	BHP	-	-	-	0.52	0.59	-	-	-	0.79	0.88	-	-	-	0.92	0.99
1.8	RPM	-	-	1510	1514	1524	-	-	1481	1485	1494	-	-	1279	1283	1287
1.0	BHP	-	-	0.41	0.47	0.55	-	-	0.66	0.73	0.81	-	-	0.78	0.84	0.91
1.6	RPM	-	-	1425	1430	1446	-	1397	1397	1406	1415	-	1206	1210	1214	1218
1.0	BHP	-	-	0.37	0.43	0.50	-	0.53	0.59	0.66	0.74	-	0.65	0.70	0.76	0.82
1.4	RPM	-	1331	1335	1347	1366	-	1306	1314	1323	1335	1128	1132	1136	1140	1149
1.4	BHP	-	0.28	0.33	0.39	0.45	-	0.47	0.53	0.60	0.67	0.53	0.58	0.63	0.68	0.75
1.2	RPM	-	1235	1242	1259	1283	1209	1216	1225	1236	1249	1048	1052	1057	1067	1077
1.2	BHP	-	0.24	0.29	0.34	0.40	0.37	0.42	0.47	0.53	0.59	0.46	0.51	0.55	0.61	0.67
1.0	RPM	1125	1129	1145	1168	1200	1109	1118	1130	1144	1163	962	969	979	988	1002
1.0	BHP	0.17	0.21	0.25	0.30	0.36	0.32	0.36	0.41	0.47	0.53	0.40	0.44	0.49	0.54	0.60
0.8	RPM	1009	1022	1044	1075	1113	1002	1014	1030	1049	1073	872	882	895	909	923
0.0	BHP	0.14	0.17	0.21	0.26	0.32	0.26	0.31	0.35	0.40	0.47	0.34	0.38	0.42	0.47	0.52
0.6	RPM	884	906	939	979	1024	885	903	926	951	984	777	791	806	822	838
0.0	BHP	0.11	0.14	0.18	0.22	0.28	0.21	0.25	0.30	0.35	0.41	0.28	0.32	0.36	0.40	0.45
F	an Size			0904R			0906R					1008R				
Coi	Face Area			2.1			2.7					3.5				
FP	M @ CFM	286	333	381	429	476	370	407	444	481	519	400	429	457	486	514

FORWARD CURVED FAN PERFORMANCE DATA, UNIT SIZES 20 - 40

TSP	Unit Size			20					30					40		
"WG	Actual CFM	1800	1950	2100	2250	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400
2.4	RPM	-	-	-	-	1507	-	-	-	1034	1037	-	-	-	1021	1023
2.4	BHP	-	-	-	-	1.60	-	-	-	2.01	2.20	-	-	-	2.00	2.15
2.2	RPM	-	-	-	1441	1446	-	-	-	992	996	-	-	977	979	980
2.2	BHP	-	-	-	1.37	1.49	-	-	-	1.88	2.06	-	-	1.72	1.86	1.99
2.0	RPM	-	-	1373	1377	1382	-	-	945	949	952	-	932	933	934	937
2.0	BHP	-	-	1.15	1.26	1.37	-	-	1.59	1.75	1.91	-	1.46	1.58	1.71	1.85
1.8	RPM	-	-	1305	1310	1315	-	896	899	903	906	-	885	886	888	892
1.0	BHP	-	-	1.05	1.15	1.25	-	1.33	1.47	1.61	1.76	-	1.33	1.44	1.57	1.71
1.6	RPM	-	1230	1234	1239	1251	844	847	851	854	858	834	835	837	841	844
1.0	BHP	-	0.87	0.95	1.04	1.16	1.09	1.21	1.34	1.47	1.60	1.10	1.20	1.31	1.43	1.56
1.4	RPM	1150	1154	1159	1170	1182	792	796	799	803	810	781	783	787	790	794
1.4	BHP	0.70	0.77	0.85	0.95	1.05	0.98	1.09	1.21	1.32	1.46	0.98	1.08	1.18	1.29	1.41
1.2	RPM	1068	1073	1085	1097	1114	737	741	745	752	759	726	729	732	737	743
1.2	BHP	0.61	0.68	0.76	0.85	0.96	0.87	0.97	1.07	1.19	1.31	0.86	0.96	1.05	1.16	1.27
1.0	RPM	981	993	1006	1024	1042	677	682	689	697	705	666	670	676	681	687
1.0	BHP	0.52	0.60	0.67	0.76	0.86	0.75	0.84	0.95	1.05	1.17	0.75	0.83	0.93	1.02	1.12
0.8	RPM	892	908	926	947	969	613	621	629	637	648	602	608	614	622	631
0.0	BHP	0.45	0.52	0.59	0.68	0.77	0.64	0.72	0.82	0.92	1.03	0.64	0.72	0.79	0.89	0.99
0.6	RPM	800	820	842	865	889	544	553	564	576	590	532	541	550	559	570
0.0	BHP	0.38	0.44	0.51	0.59	0.68	0.53	0.61	0.70	0.79	0.90	0.52	0.60	0.67	0.76	0.85
I	Fan Size	1010R					1509R					1511R				
Coi	I Face Area			4.9			6.5					8.4				
FP	PM @ CFM	367	398	428.6	459.2	489.8	400	431	462	492	523	429	452	476	500	524

BLOWER COILS

NOTES: Consult Krueger for applications at operating conditions not shown above. Fan motor voltage, fan rotation, and fan RPM may require field setting/adjustment. Drive losses not included in fan performance.

Excellence in Air Distribution



BLOWER COILS F2

KBH, KBV | Horizontal and Vertical

KBH, KBV Engineering Specification & Configuration =

GENERAL

Furnish and install Krueger model KBH and KBV Belt Drive Blower Coil Units where indicated on the plans and specifications. Units shall be completely factory assembled and tested and shipped as one piece except where noted.

All units shall be capable of meeting or exceeding the scheduled capacities for cooling, heating and air delivery. All unit dimensions for each model and size shall be considered maximums.

All units shall be of "draw-thru" design with coils, fans, motor/ drive and drain pan completely contained within the unit cabinet.

Electric heat to be in the blow-thru configuration. Units shall be cETL listed in compliance with UL/ANSI Std. 1995.

All unit coils shall meet or exceed the scheduled cooling and heating capacity, selected and rated in accordance with AHRI 410.

CONSTRUCTION

All units shall be fabricated of minimum 18 gage galvanized steel, able to withstand a 125 hour salt spray test per ASTM B-117. Panels shall be die-formed "multi-bend" construction for optimum strength and rigidity. All exterior panels shall be (single wall insulated with 1 inch thick fiberglass insulation) (foil faced-insulated with 1" thick, 1.6 pound per cubic foot density scrim reinforced foil faced insulation), rated for a maximum air velocity of 5000 f.p.m. In addition to using adhesive complying with NFPA 90A, the insulation shall incorporate a secondary mechanical fastener attached to the unit casing wall (weld pin). Adhesive as the only method of fastening the insulation to the casing is not acceptable. Maximum thermal conductivity shall be 0.24. Insulation must meet all requirements of ASTM C1071 (including C665), UL181 for erosion, and carry a 25/50 rating for flame spread/smoke developed per ASTM E-84, UL723 and NFPA 90A. All units shall have minimum 1" duct collars on discharge and return.

All access panels shall be fully insulated and attached with (standard) (hinged with lift and turn) fasteners on at least two opposite sides. No single access panel shall be larger than 30" x 36" for safety and ease of handling. No coil or drain piping or electrical connections shall pass through any access panel.

Each unit shall be furnished with a one-piece heavy gage (IAQ galvanized steel) (IAQ stainless steel) (galvanized steel) drain pan with welded corner construction.

All units shall be provided with 9/16" diameter hanger rod holes in the top and bottom panels for "through-bolt" type suspension installation. (Rubber-in-shear) (spring) type unit mounting vibration isolators shall be provided by the unit manufacturer.

FAN ASSEMBLY

All units shall be furnished with standard selection double inlet forward curved centrifugal blowers statically and dynamically balanced for smooth operation. All blower wheels shall have two set screws and shall be mounted on solid steel shafting rotating in ball bearings with a minimum design average life (L50) of 100,000 hours. All standard blower assemblies shall have resilient mounted cartridge type permanently lubricated ball bearings.

FAN MOTOR & DRIVE ASSEMBLY

All fan motors shall be standard NEMA design motors of the horsepower listed in the equipment schedule. All motors shall be 1750 RPM, 60 hertz (ODP) (ODP E+) single speed motors rated for continuous duty. All motors shall be reversible rotation type.

Three phase motors shall be "across-the-line" start type in 56 Frame size up through two horsepower. Three horsepower and larger shall be standard "T" frame with rigid mount.

All motors shall be mounted on an adjustable base. All motor wiring is to be terminated in a junction box, external to the unit casing.

All fan drive assemblies shall include an adjustable pitch motor pulley, a fixed pitch blower pulley and a standard cross section "V-belt". All fan drives shall be selected at a minimum service factor of 1.2.

COILS

All unit coils shall be rated in accordance with ARI 410.

All coils shall be 1/2" O.D. seamless copper tubes with collared aluminum fins. All tubes shall be mechanically expanded to provide an efficient bond between tube and fin. All water coils shall be provided with a manual air vent fitting to allow for coil venting. Valve core type vent fittings shall not be accepted.

All chilled water, hot water, and direct expansion (DX) coils shall have aluminum fins and 0.016" tube wall thickness. All steam coils shall have 0.025" tube wall thickness.

All steams coils shall be suitable for temperatures about 35°F and 15 PSIG maximum operating pressure.

All coils shall be hydrostatically tested with air under water at 450 PSIG minimum pressure and rated for a maximum of 300 PSIG working pressure at 200°F.

DX coils shall be tested to 450 PSIG pressure and factory sealed and charged with a minimum of 5 PSIG nitrogen or refrigerated dry air. DX coils shall be provided with a fixed orifice refrigerant distributor. A field furnished and installed thermal expansion valve (TXV) can be mounted directly to the refrigerant distributor.

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KBH, KBV Engineering Specification & Configuration =

COIL OPTIONS

NWFR

Coil casing shall be fabricated from stainless steel.

Provide automatic air vents, in lieu of manual air vents.

Tube wall thickness shall be 0.025" on chilled water, hot water, and direct expansion coils.

FILTER RACK ASSEMBLY

All units shall be furnished with a flat filter rack with hinged access on both sides designed to accept a 2" nominal standard sized filters. All units shall be provided with nominal 2" (throwaway) (pleated) filters factory installed. One complete set of spare (throwaway) (pleated) filters shall be provided for each unit.

FILTER OPTIONS

Unit shall have a high efficiency filter rack suitable for a 2" (30%) and a 4" (60-65%) (80-85%) (90-95%) pleated filter.

INLET DAMPER SECTION

Where shown on the plans, the unit manufacturer shall furnish a fully insulated mixing box section (factory assembled and installed inlet damper section) to be mounted next to the unit on base rail (unit and mixing box).

The mixing box section shall include heavy gage formed steel blade dampers in a heavy gage steel frame with extruded vinyl blade seals and flexible metal jamb seals. Damper drive linkage shall be factory furnished and installed by the unit manufacturer. A field furnished and installed damper actuator can be mounted directly to the damper shaft.

ELECTRICAL CONTROL

The unit fan motor shall be completely factory wired to an external electrical enclosure. Each unit shall include fan control package with 24 volt control voltage. Each unit shall include motor circuit fusing, contactor, control circuit transformer and terminal strip for connection of field wiring.

A main incoming power non-fused disconnect switch shall be factory furnished and wired by the unit manufacturer for single point power connection.

ELECTRIC HEAT SECTION

Where shown on the plans, the unit manufacturer shall furnish an electric resistance heating assembly with the heating capacity, voltage and stages as shown in the schedule. The heater assembly shall be designed and rated for installation to the blower coil unit in the blow-thru configuration without the use of duct extensions or transitions between the unit and the heater assembly. The heater assembly shall be factory assembled to the air handling unit and completely factory wired. The heater/unit assembly shall be listed for zero clearance meeting all N.E.C. requirements and be cETL listed in compliance with UL/ANSI Standard 1995.

All heating elements shall be open coil design using Ni-Chrome wire mounted in ceramic insulators and housed in an insulated heavy gage galvanized steel housing. All elements shall terminate in a machine staked stainless steel terminal secured with stainless steel hardware. The element support brackets shall be spaced no greater than 3-1/2" on center. All internal wiring shall be rated for 105°C minimum.

All heaters shall include over temperature protection. All heaters shall include a non-adjustable airflow switch. An incoming line power distribution block shall be provided. The power distribution block shall be designed to accept incoming power wiring capable of carrying 125% of the calculated load current.

In addition to the above, electric heaters shall include the following options:

- Main incoming power disconnect (non-fused).
- · Main fusing.
- Magnetic contactors wired for disconnecting operation.
- · Fan control package with heater interlock contacts (required for single point power connection).

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KBH, KBV Engineering Specification & Configuration -

1. SERIES: (XXX)

KBH - Horizontal Blower Coil KBV - Vertical Blower Coil

2. ARRANGEMENT: (X)

- 1 Fan Arr. 1 (Upblast Rear)
- 2 Fan Arr. 2 (Upblast Front)
- 3 Fan Arr. 3 (Horizontal Top Front)
- 4 Fan Arr. 4 (Horizontal Bottom Front)
- 7 Fan Arr. 7 (Horizontal Top Rear) *KBV Only

3. INLET: (X)

- 0 None
- 1 High Efficiency Rack
- 2 Mixing Box with Linkage

4. MIXING BOX DAMPER LOCATION: (XX)

- 00 None
- BR Bottom and Rear Inlet
- TB Top and Bottom Inlet
- TR Top and Rear Inlet

5. SIZE: (XX)

- 08 Size 8
- 12 Size 12
- 16 Size 16
- 20 Size 20
- 30 Size 30
- 40 Size 40
- 6. MOTOR: (XX) (See Krueger's selection software.)

7. MOTOR HAND: (X)

- L Left-hand Motor
- R Right-hand Motor
- 8. CONDUIT: (X)
 - 0 None
 - C Conduit

9. DISCONNECT SWITCH: (X)

- 0 None
- D Disconnect Switch

10. FAN CONTROL PACKAGE: (X)

- 0 None
- F Fan Control Package
- 11. AUTO SWITCH: (X)
 - 0 None
 - H Hand-Off Auto Switch

12. SPARE BELTS: (X)

- 0 None
- 1 1 Spare Belt
- 2 2 Spare Belts
- 3 3 Spare Belts

13. COIL 1: (X)

- A 3 Row Cold Water
- B 4 Row Cold Water
- C 6 Row Cold Water
- D 3 Row DX, Single Circuit
- E 4 Row DX, Single Circuit F 6 Row DX, Single Circuit
- G 1 Row Hot Water
- H 2 Row Hot Water
- I 1 Row Steam
- J 2 Row Steam
- K 3 Row with Changeover
- L 4 Row with Changeover
- M 6 Row with Changeover

14. COIL 1 FPI: (XX)

- 08 8 FPI 10 - 10 FPI
- 12 12 FPI
- 14 14 FPI

15. COIL 1 HAND: (XX)

LL - Coil 1 Left Hand, Coil 2 Left Hand LR - Coil 1 Left Hand, Coil 2 Right Hand RL - Coil 1 Right Hand, Coil 2 Left Hand RR - Coil 1 Right Hand, Coil 2 Right Hand

16.COIL 1 AUTO AIR VENT: (X)

- 0 None
- 1 Auto Air Vent

17. COIL 1 CASING: (X)

- 0 Galvanized Casing
- 1 Stainless Steel Casing

18. COIL 1 TUBE WALL: (X)

0 - 0.016" 1 - 0.025"

19. COIL 2: (X)

- 0 None
 - A 3 Row Cold Water
 - B 4 Row Cold Water
 - C 6 Row Cold Water
 - D 3 Row DX, Single Circuit
 - E 4 Row DX, Single Circuit F 6 Row DX, Single Circuit

 - G 1 Row Hot Water
 - H 2 Row Hot Water
 - I 1 Row Steam
 - J 2 Row Steam

20. COIL 2 FPI: (XX)

- 00 None 08 - 8 FPI 10 - 10 FPI 12 - 12 FPI
- 14 14 FPI

Continued on next page

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21. COIL 2 AUTO AIR VENT: (X)

- 0 None
- 1 Auto Air Vent

22. COIL 2 CASING: (X)

- 0 Galvanized Casing
- 1 Stainless Steel Casing

23. COIL 2 TUBE WALL: (X)

- 0 0.016"
- 1 0.025"

24. ELECTRIC HEAT CASING: (X)

- 0 None
- U Blow Through Uninsulated
- W Blow Through Double Wall

25. ELECTRIC HEAT VOLTAGE: (X)

(See Krueger's selection software.)

26. ELECTRIC HEAT KW: (XX)

(See Krueger's selection software.)

27. ELECTRIC HEAT HAND: (X)

- 0 None
- L Left-hand
- R Right-hand

28. MAGNETIC CONTACTOR: (X)

0 - None

M - Magnetic Contactor

29. FUSING PER STEP: (X)

- 0 None
- F Fusing per Step

30. DOOR DISCONNECT: (X)

- 0 None
- K Door Interlocking Fused Disconnect
- L Door Interlocking Non-Fused Disconnect

31. MAIN FUSING: (X)

- 0 None
- M Main Fusing

32. DRAIN PAN: (X)

- 1 IAQ Galvanized Drain Pan
- 2 Flat Galvanized Drain Pan
- 3 IAQ Stainless Steel Drain Pan
- 4 Flat G90 with Secondary Drain Connection
- 5 IAQ SS with Secondary Drain Connection

33. FILTER: (X)

- 0 None
- 1 2" Throwaway
- 2 2" 30% Pleated (MERV 7)
- 3 2" 30% Pleated (MERV 7), 4" 65% Pleated (MERV 11)
- 4 2" 30% Pleated (MERV 7), 4" 85% Pleated (MERV 14)
- 5 2" 30% Pleated (MERV 7), 4" 95% Pleated (MERV 15)

- 0 None
- A 2" Throwaway Spare Filter
 - B 2" 30% Pleated Spare (MERV 7)
 - C 4" 65% Pleated Spare (MERV 11)
 - D 4" 85% Pleated Spare (MERV 14)
 - E 4" 95% Pleated Spare (MERV 15)
 - F (2) 2" Throwaway Spare Filter
 - G (2) 2" 30% Pleated Spare (MERV 7)
 - H (2) 4" 65% Pleated Spare (MERV 11)
 - J (2) 4" 85% Pleated Spare (MERV 14)
 - K (2) 4" 95% Pleated Spare (MERV 15)
 - L (3) 2" Throwaway Spare Filter
 - M (3) 2" 30% Pleated Spare (MERV 7)
 - N (3) 4" 65% Pleated Spare (MERV 11)
 - P (3) 4" 85% Pleated Spare (MERV 14)
 - Q (3) 4" 95% Pleated Spare (MERV 15)

35. BASE RAILS: (X)

0 - None

B - Base Rails

36. FOIL OPTIONS: (X)

- 0 None
- F Foil Insulation

37. HINGE DOORS: (X)

- 0 None
- S Hinged Doors with Lift and Turn Fasteners
- D DW Hinged Doors with Lift and Turn Fasteners

38. VIBRATION: (X)

- 0 None
- R Rubber in Shear
- S Spring

39. FLOAT: (X)

- 0 None
- R Condensate Float Switch

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Excellence in Air Distribution