



KLB

RETROFIT/BYPASS TERMINAL UNITS

**KLB Product Description**

**CASING**

- All KLB unit casing panels are constructed of 20 gage galvanized steel.

**INLET COLLARS**

- All collars are round to accommodate standard flex duct sizes.
- An optional manual inlet damper is available.

**OUTLET CONNECTIONS**

- Bypass and outlet connections are round.
- Optional multiple outlet is available.
- Optional manual dampers are available.

**INSULATION**

- Casing insulation is 1/2" thick, 1 1/2 lb. dual density, fiberglass liner that meets UL 181 and NFPA 90A requirements.

**CONTROLS**

- Pressure dependent pneumatic and electric control types are available. A "no control" unit is also available for field mounting of controls.

**HANGER BRACKETS**

- Optional hanger brackets are available.

**CONTROL TRANSFORMERS**

- Electric controlled units are available with a factory supplied and wired optional 24 volt control transformer, mounted inside the control enclosure.

**LABELS**

- Label information adhered to each unit includes model name, unit size, configuration code, airflow (CFM) and tagging information.

**PACKAGING**

- Units are individually packaged in a carton and stacked on a pallet. Each pallet of units is banded and stretch wrapped with cellophane.

**Introduction: KLB**

The Model KLB is designed to maintain optimum occupant comfort by varying the amount of cold air from the constant volume air handler and bypassing the excess cooling air back to the air handler. The KLB responds to the thermostat demand for cooling by varying the position of the unit damper, which in turn controls the amount of air entering a zone. During reduced loads, the damper position changes to deflect supply air into the ceiling plenum or return air duct. In this way, the air handler operates at constant volume, while individual zones benefit from increased control of comfort levels.

Savings result from the elimination of variable speed drives for the air handling system fan(s). At reduced zone loads, cool primary air is returned to the air handler via the plenum or return air duct without experiencing zone heat gains. The lower return air temperature allows the air handler to operate more efficiently.

**MODEL**

KLB - Bypass Terminal Unit

**FEATURES**

- 20 Gage galvanized steel casing construction.
- Single-blade design results in fewer parts and leads to increased reliability and a low pressure drop.
- Manual discharge damper with no spring loaded parts to fail.
- Side bypass discharge for easy access to balancing dampers.
- Manual inlet air damper to control air volume entering the unit.
- Low pressure drop; requires less energy than competing models and a lower central fan motor horsepower requirement.
- Insulated case provides thermal and acoustical insulation.
- Capacities as high as 4400 CFM to increase design flexibility.
- Choice of Pneumatic or Electric Controls on top or bottom of unit; results in flexibility to fit most building control packages.

**KLB Unit Capacities**

**KLB, UNIT CAPACITIES**

Unit Size	Max. CFM [L/s]
6	500 [236]
8	900 [425]
10	1300 [614]
12	2000 [944]
14	2500 [1180]
16	3600 [1699]
18	4400 [2077]

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