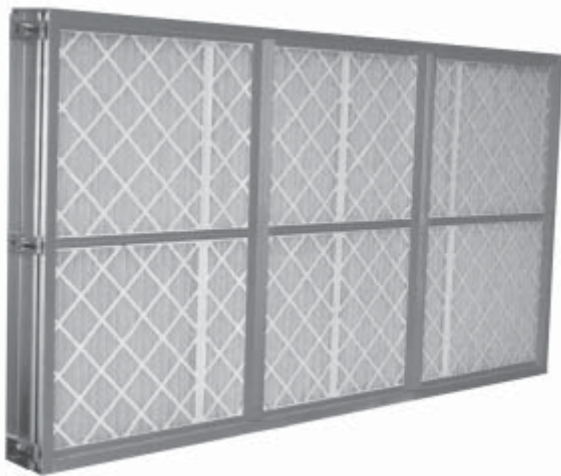


**PRODUCT
DATA**
CLEAN-LINE™
SERIES 05FB/07FB
PD-CLFB-03A
JANUARY 2003

AIR
FILTRATION
EQUIPMENT

CLEAN-LINE™ SERIES 05FB AND 07FB 2" AND 4" FLAT BANK FILTER HOUSINGS



Flat Bank

The BLC Flat Bank Filter Housing is engineered to provide a rugged one piece unit. It is completely factory assembled, ready for immediate installation when received at the job site. Unit sizes range from 1 foot wide x 2 feet high to 10 feet wide x 7 feet high. The BLC Flat Bank Housing for the HVAC industry is offered in two styles to provide filtration flexibility. Supplied with 2 inch steel filter slide tracks, the 2 inch Flat Bank Housing will accommodate 2 inch panel styled filters in a minimal depth of 5 3/16 inches. Equipped with 4 inch steel filter slide tracks, the 4 inch Flat Bank Housing utilizes 4 inch panel styled filters in a unit depth of 7 3/16 inches to achieve the maximum square footage of filtering area for the Flat Bank Series. All models of the Flat Bank Housing require only 2 sizes of filters, 12 x 24 and 24 x 24 (nominal) in 2 or 4 inch depths; thereby reducing stocking requirements and eliminating confusion when change-out of the filters are required.

CONSTRUCTION FEATURES

- 16 GAUGE ALUMINIZED STEEL
- FACTORY ASSEMBLED
- (2) HINGED ACCESS DOORS
- GASKETED ACCESS DOORS
- 2" OR 4" STEEL FILTER TRACKS
- 1 1/2" MOUNTING FLANGES

Options

Weatherproofing for outside installations consists of a pitched roof, rain guards over the doors and a permanent (non-silicon) sealer at all seams. Insulation is available in 1 inch thick, 1.5 pound density applied to the exterior of the access doors and the unit. BLC's Double Wall Insulation combats vibration, noise and condensation (protecting the quality of the filtered air). With this application, the insulation is enclosed with 24 gauge aluminized panels ensuring the insulation's integrity for the life of the unit. Adapter flanges for all commercial air handling units and adapter flanges to meet any ductwork requirements are available. Stainless Steel, Epoxy Coating or High Pressure options are also available.

CONSTRUCTION

Aluminized steel provides superior corrosion and heat resistance, resulting in longer product life and appearance. Aluminized steel offers an improved overall product appearance when compared to galvanized material. Aluminized steel conforms to ASTM Specification A463 and is used for such applications as space heaters, mufflers and incinerators which are subjected to extremely corrosive conditions. Clearly, BLC engineers have determined that the Flat Bank Filter Section be manufactured from 16 gauge aluminized steel. *We are currently the only manufacturer who does so.*

Spot weld construction and fasteners are used to assemble units and each is supplied with 2 access doors hinged at the rear of the housing for easy access to filters. Each door is fully gasketed at its perimeter and at the end of the filter tracks by use of EPDM gasket. Quick acting, over-center, positive lock latches are used to secure doors without bypass. This standard design will withstand positive or negative pressure up to 3" W.G.

EQUIPMENT OPTIONS

- INSULATION
- DOUBLE WALL INSULATION
- WEATHERPROOFING
- HIGH PRESSURE
- FLANGE ADAPTERS
- SUPPORT LEGS
- HANGER BRACKETS
- STATIC TAPS
- STAINLESS STEEL

*These and other specialty options are available,
please contact factory for further information.*

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We reserve the right to make changes in product design and product specifications without prior notice or obligation.

BLC INDUSTRIES INC.

Breathe Easy, We Have The Line On Air Filtration.

Series 05FB: Dimensional Data

HEIGHT CODE (Nominal)	ACTUAL HEIGHT	MODEL EXT.	WIDTH CODE (Nominal)									
			01	02	03	04	05	06	07	08	09	10
			ACTUAL WIDTH									
			11 1/2"	23 1/2"	35"	47"	58 1/2"	70 1/2"	82"	94"	105 1/2"	117 1/2"
07	85 3/4"	MODEL EXT. CFM @ 500 FPM FILTER QTY.		02X07 7000 1H 3F	03X07 10000 4H 3F	04X07 14000 2H 6F	05X07 17000 5H 6F	06X07 21000 3H 9F	07X07 24000 6H 9F	08X07 28000 4H 12F	09X07 31000 7H 12F	10X07 35000 5H 15F
06	74 1/16"	MODEL EXT. CFM @ 500 FPM FILTER QTY.	01X06 3000 3H	02X06 6000 3F	03X06 9000 3H 3F	04X06 12000 6F	05X06 15000 3H 6F	06X06 18000 9F	07X06 21000 3H 9F	08X06 24000 12F	09X06 27000 3H 12F	10X06 30000 15F
05	62 1/16"	MODEL EXT. CFM @ 500 FPM FILTER QTY.		02X05 5000 1H 2F	03X05 7000 3H 2F	04X05 10000 2H 4F	05X05 12000 4H 4F	06X05 15000 3H 6F	07X05 17000 5H 6F	08X05 20000 4H 8F	09X05 22000 6H 8F	10X05 25000 5H 10F
04	50 3/8"	MODEL EXT. CFM @ 500 FPM FILTER QTY.	01X04 2000 2H	02X04 4000 2F	03X04 6000 2H 2F	04X04 8000 4F	05X04 10000 2H 4F	06X04 12000 6F	07X04 14000 2H 6F	08X04 16000 8F	09X04 18000 2H 8F	10X04 20000 10F
03	38 3/8"	MODEL EXT. CFM @ 500 FPM FILTER QTY.		02X03 3000 1H 1F	03X03 4000 2H 1F	04X03 6000 2H 2F	05X03 7000 3H 2F	06X03 9000 3H 3F	07X03 10000 4H 3F	08X03 12000 4H 4F	09X03 13000 5H 4F	10X03 15000 5H 5F
02	26 11/16"	MODEL EXT. CFM @ 500 FPM FILTER QTY.	01X02 1000 1H	02X02 2000 1F	03X02 3000 1H 1F	04X02 4000 2F	05X02 5000 1H 2F	06X02 6000 3F	07X02 7000 1H 3F	08X02 8000 4F	09X02 9000 1H 4F	10X02 10000 5F
01	14 11/16"	MODEL EXT. CFM @ 500 FPM FILTER QTY.		02X01 1000 1H		04X01 2000 2H		06X01 3000 3H		08X01 4000 4H		10X01 5000 5H

1. H denotes half size filter - 11 3/8 x 23 3/8 x 1 7/8.
2. F denotes full size filter - 23 3/8 x 23 3/8 x 1 7/8.
3. ■ denotes unit requires an 11 3/8 x 11 3/8 x 1 7/8 blank off panel, which is supplied.
4. Unit depth is 5 3/16".

MODEL NUMBER KEY

05FB04X02
Insert model number extension
to complete model number.

- 05- 5 3/16" Depth
FB- Flat Bank
04- Unit Width
02- Unit Height

Series 07FB: Dimensional Data

HEIGHT CODE (Nominal)	ACTUAL HEIGHT	MODEL EXT.	WIDTH CODE (Nominal)									
			01	02	03	04	05	06	07	08	09	10
			ACTUAL WIDTH									
			11 1/2"	23 1/2"	35"	47"	58 1/2"	70 1/2"	82"	94"	105 1/2"	117 1/2"
07	85 3/4"	MODEL EXT. CFM @ 625 FPM FILTER QTY.		02X07 8750 1H 3F	03X07 12500 4H 3F	04X07 17500 2H 6F	05X07 21250 5H 6F	06X07 26250 3H 9F	07X07 30000 6H 9F	08X07 35000 4H 12F	09X07 38750 7H 12F	10X07 43750 5H 15F
06	74 1/16"	MODEL EXT. CFM @ 625 FPM FILTER QTY.	01X06 3750 3H	02X06 7500 3F	03X06 11250 3H 3F	04X06 15000 6F	05X06 18750 3H 6F	06X06 22500 9F	07X06 26250 3H 9F	08X06 30000 12F	09X06 33750 3H 12F	10X06 37500 15F
05	62 1/16"	MODEL EXT. CFM @ 625 FPM FILTER QTY.		02X05 6250 1H 2F	03X05 8750 3H 2F	04X05 12500 2H 4F	05X05 15000 4H 4F	06X05 18750 3H 6F	07X05 21250 5H 6F	08X05 25000 4H 8F	09X05 27500 6H 8F	10X05 31250 5H 10F
04	50 3/8"	MODEL EXT. CFM @ 625 FPM FILTER QTY.	01X04 2500 2H	02X04 5000 2F	03X04 7500 2H 2F	04X04 10000 4F	05X04 12500 2H 4F	06X04 15000 6F	07X04 17500 2H 6F	08X04 20000 8F	09X04 22500 2H 8F	10X04 25000 10F
03	38 3/8"	MODEL EXT. CFM @ 625 FPM FILTER QTY.		02X03 3750 1H 1F	03X03 5000 2H 1F	04X03 7500 2H 2F	05X03 8750 3H 2F	06X03 11250 3H 3F	07X03 12500 4H 3F	08X03 15000 4H 4F	09X03 16250 5H 4F	10X03 18750 5H 5F
02	26 11/16"	MODEL EXT. CFM @ 625 FPM FILTER QTY.	01X02 1250 1H	02X02 2500 1F	03X02 3750 1H 1F	04X02 5000 2F	05X02 6250 1H 2F	06X02 7500 3F	07X02 8750 1H 3F	08X02 10000 4F	09X02 11250 1H 4F	10X02 12500 5F
01	14 11/16"	MODEL EXT. CFM @ 625 FPM FILTER QTY.		02X01 1250 1H		04X01 2500 2H		06X01 3750 3H		08X01 5000 4H		10X01 6250 5H

1. H denotes half size filter - 11 3/8 x 23 3/8 x 3 7/8.
2. F denotes full size filter - 23 3/8 x 23 3/8 x 3 7/8.
3. ■ denotes unit requires an 11 3/8 x 11 3/8 x 3 7/8 blank off panel, which is supplied.
4. Unit depth is 7 3/16".

MODEL NUMBER KEY

07FB08X04
Insert model number extension
to complete model number.

- 07- 7 3/16" Depth
FB- Flat Bank
08- Unit Width
04- Unit Height

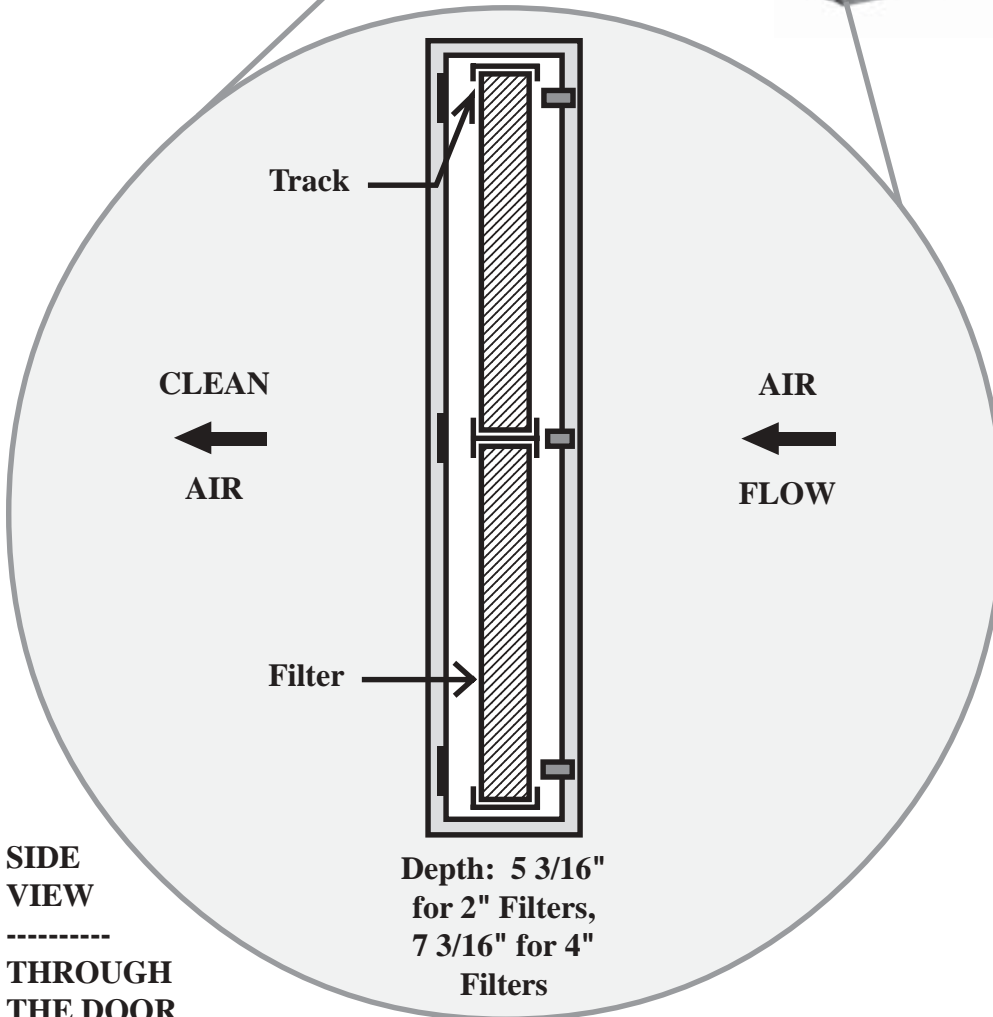
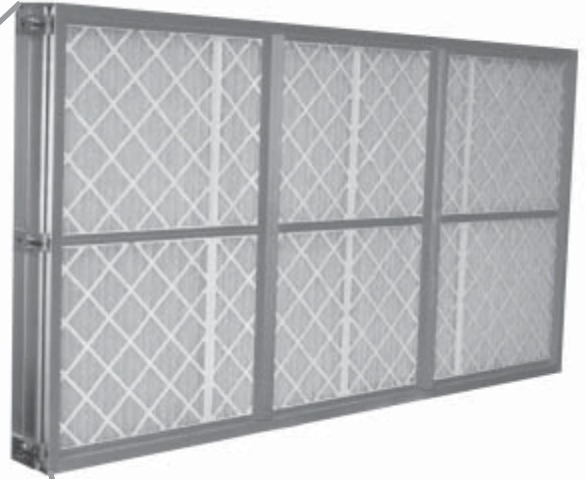
**SPECIFICATION
DATA**
CLEAN-LINE™
SERIES 05FB/07FB
SPD-CLFB-03A
JANUARY 2003

AIR
FILTRATION
EQUIPMENT

CLEAN-LINE™
FLAT BANK HOUSING
2" AND 4" FLAT BANK FILTER HOUSINGS

SPECIFICATIONS:

- Completely Factory Assembled
- 16 Gauge Aluminized Steel
- (2) Access Doors
- Fully Gasketed Access Doors



OPTIONS:

- Insulation
- Double Wall Insulation
- Weatherproofing
- High Pressure
- Flange Adapters
- Support Legs
- Hanger Brackets
- Static Taps
- Stainless Steel

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MECHANICAL SPECIFICATIONS - CLEAN-LINE FLAT BANK HOUSINGS

Filter housings shall be CLEAN-LINE Flat Bank Housings as manufactured by BLC Industries, Inc. Units shall be completely factory assembled with 1 1/2" mounting flanges provided for field installation. Standard design for 3" W.G. positive or negative pressure. Units shall include the following equipment features and options:

STANDARD UNIT CONSTRUCTION

Material of Construction

Flat Bank Housing(s) shall be manufactured of 16 gauge aluminized steel. All fasteners are to be corrosion resistant finish.

Track System

Flat Bank Housing(s) filter tracks shall be manufactured from aluminized steel and allow for 2" or 4" nominal depth filters. Each filter track is sealed at its end by use of EPDM gasket.

Access Doors

Flat Bank Housing(s) shall be provided with two hinged access doors. Doors to be sealed with over-center draw latches. Door perimeters are sealed with EPDM gasket.

UNIT OPTIONS

Insulation

Flat Bank Housing(s) shall be provided with 1 inch thick insulation. Insulation is applied to the exterior of the access doors and to the exterior of the top and bottom panels. Insulation may be 1.5 pound or 3.0 pound density.

Double Wall Insulation

Flat Bank Housing(s) shall be provided with 1 inch thick Double Wall Insulation. Insulation shall be enclosed in 24 gauge aluminized steel panels located on the exterior of the access doors and the exterior of the top and bottom panels. Insulation may be 1.5 or 3.0 pound density.

Weatherproofing

Flat Bank Housing(s) shall be provided with a 16 gauge aluminized steel pitched rain roof. All seams shall be sealed using a high viscosity permanent sealer (non-silicon).

High Pressure

Flat Bank Housing(s) shall be provided to meet operating static pressure of 10 IN W.G. (Positive/Negative). Access door are provided with full length piano hinges welded in place. Consult factory for all other high pressure applications.

Mounting Flange Adapters

Flat Bank Housing(s) shall be provided with 16 gauge aluminized steel flat adapter flange to match customer equipment/specifications. Flanges may be single-air entering, single-air leaving or double-air entering and air leaving per customer requirements.

Support Legs

Flat Bank Housing(s) shall be provided with 12 gauge aluminized steel support legs. Maximum height of 6 inches from bottom of flange to floorline. Quantity of support legs are as follows: 01 ft - 04 ft wide units/2 support legs, 05 ft - 07 ft wide units/3 support legs, 08 ft - 10 ft wide units/4 support legs. For other applications, consult factory.

Hanger Brackets

Flat Bank Housing(s) shall be provided with 12 gauge aluminized steel hanger brackets welded to the top panel. Location may be one (1) pair of brackets - air entering/top corners or one (1) pair of brackets - air leaving/top corners brackets are supplied with a 5/8" diameter hole for hanger rod. Hanger brackets are for support of the filter housing only. Any other equipment or duct connections must be supported independently.

Static Taps

Flat Bank Housing(s) shall be supplied with static pressure fittings for 1/4" metal tube connection. Tap Location No. 1: Before filter. Tap Location No. 3: After filter.

Alternate Material of Construction

Flat Bank Housings shall be manufactured of 304 or 316 stainless steel. Standard aluminized units shall be supplied with an air dried epoxy coating. Epoxy coating can be interior-only, exterior-only or interior and exterior.

SUBMITTAL DATA

CLEAN-LINE FLAT BANK HOUSING

SD-CLFB-03A
JANUARY 2003

BLC Order Number	Customer	Project Name	Tag	Purchase Order	Ship Date
BLC Model Number	Qty. Width Height	Unit Depth <input type="radio"/> 05" - 2" Final Filter (5 3/16" Actual Depth) <input type="radio"/> Custom <input type="radio"/> 07" - 4" Final Filter (7 3/16" Actual Depth)			
Door Location	Air Filter Information:	Air Filter Monitoring Information <input type="radio"/> Static Taps <input type="radio"/> Air Filter Gage Locations - (See Note 4) Model <input type="radio"/> 1 <input type="radio"/> 3 <input type="radio"/> Field Mount <input type="radio"/> Factory Mount <input type="radio"/> By Others			
<input checked="" type="radio"/> 2 Doors - All Flat Bank Units are supplied with (2) Access Doors Standard.	<input type="radio"/> Weatherproofing <input type="radio"/> Double Wall Insulation 1.5# 3.0# <input type="radio"/> Stainless Steel Alloy <input type="radio"/> High Pressure POS NEG W.G. <input type="radio"/> Support Legs <input type="radio"/> Hanger Brackets <input type="radio"/> Adapters <input type="radio"/> Air Entering <input type="radio"/> Air Leaving <input type="radio"/> Both	AIR FILTER INFORMATION (For each unit shown at left.) <input type="checkbox"/> By Others* <input type="checkbox"/> Initial Supply <input type="checkbox"/> Spare Set *BLC provides no warranty as to the fit or performance of air filters supplied by others.			
Notes	Number Required - 12 x24 _____ Number Required - 24 x24 _____ Unit CFM @ 500 FPM _____				
	Air Filter Type _____ 12x24 Model Number _____ 24x24 Model Number _____ ASHRAE Efficiency _____ Initial Pressure Drop _____ Recommended Final _____				
	Approved/Date _____				

MODEL	01	02	03	04	05	06	07	08	09	10
WIDTH	11 1/2	23 1/2	35	47	58 1/2	70 1/2	82	94	105 1/2	117 1/2

Plan

Front Elevation

End Elevation

NOTES:

- MATERIAL OF CONSTRUCTION: 16 GAUGE ALUMINIZED STEEL.
- UNITS ACCOMMODATE 11 3/8 X 23 3/8 OR 23 3/8 X 23 3/8 INCH FILTERS.
- FILTER TRACKS ARE 1 7/8" FOR 05FB HOUSINGS AND 3 7/8" DEEP FOR 07FB HOUSINGS.
- OPTIONAL STATIC TAP LOCATION: 1- BEFORE PREFILTER 3- AFTER FINAL FILTER.

**TECHNICAL
DATA
CLEAN-LINE™
SERIES FB,VB,SA
TD-CLFBVBSAI01-A
JANUARY 2003**

**AIR
FILTRATION
EQUIPMENT**

**CLEAN-LINE™
SERIES FB,VB,SA
INSTALLATION AND OPERATION
INSTRUCTIONS**

INSTALLATION AND OPERATION INSTRUCTIONS

FLAT BANK, V-BANK AND SIDE ACCESS HOUSINGS

ORDER NUMBER: _____

SERIAL NUMBER: _____

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INSTALLATION INSTRUCTIONS FLAT BANK, V-BANK AND SIDE ACCESS HOUSINGS

I. READ ENTIRE INSTALLATION INSTRUCTIONS BEFORE INSTALLING UNIT.

II. PRELIMINARY INSTALLATION OPERATIONS

- A. Separate all cartons marked "Filters" from material received. Store "Filters in clean, dry place until system is ready to be operated. **DO NOT OPEN CARTONS AT THIS TIME.**
- B. Distribute filter units as required to system locations. (See markings on each housing.)
- C. Carefully uncrate filter housings.
- D. Systems must allow for proper access to filters for routine servicing. General rule is to use housing depth.
- E. System must provide for firm, level and plumb installation for filter housing. **DO NOT DISTORT FILTER HOUSING.**

III. INSTALLATION OF FILTER HOUSING

- A. Installation of housing can be attained by anchoring duct work to and from housing flange. Housing flange(s) should be caulked to deter air by-pass.
- B. Housing is supplied with an air flow label to ensure proper orientation.

IV. FILTER INSTALLATION

- A. Open access door.
- B. Slide appropriate filter into housing tracks. Quantities and Model Numbers of filters are listed on unit ID nameplate.
- C. Secure access door.
- D. The use of a manometer is recommended to check pressure drop of final filter for determining when renewal of filter should be made.

V. CAREFULLY REVIEW ABOVE INSTRUCTIONS.