

**PRODUCT
DATA**
SURE-LINE™
SERIES SHL
PD-SLSHL-03A
JANUARY 2003

HIGH
EFFICIENCY
AIR FILTRATION
EQUIPMENT

SURE-LINE™
SERIES S HEPA LOCK
SPECIAL APPLICATIONS HOUSING

Series S HEPA Lock

SPECIAL FOR

High Performance HEPA
Filtration Applications

CONSTRUCTION

14 Gauge Aluminized or
304/316 Stainless Steel

FILTER SEAL

Screw-Type Locking for
1,400 Ft. Lbs. per HEPA

HIGH PRESSURE

Standard Up To 10" W.G.
Optional Up To 20" W.G.

AIRTIGHT WELDING

Reinforced Joints/Seams



ATTACHED DOORS

2 Swing Doors with
Swivel Door Latches

UNIT SIZES

Standard Up To 3 Filters
High by 3 Filters Wide

FILTERS

2", 4" or 6" Prefilter (s)
6" or 12" HEPA Filter (s)

MOUNTING FLANGES

1 1/2" and Turned Out
for Easy Installation

INSPECTION

Comprehensive Testing

Constructed for High Performance

High Performance HEPA Filtration applications require specific engineering solutions. BLC's Special Applications HEPA Lock Housing (Series S) is intended to meet or exceed these extraordinary performance requirements.

SPECIAL

BLC's Series S HEPA Lock Housing meets the sizes and capacities shown on plans and listed in the equipment schedule. This unit is manufactured from 14 gauge aluminized steel and fully factory assembled. It is provided with a 2", 4" or 6" prefilter track when prefilters are required. The Series S HLH has a solid welded HEPA Filter sealing grid and includes 1 1/2" standard mounting flanges for installation. Standard, its pressure rating goes up to 10" W.G. and its size up to 3 Filters High by 3 Filters Wide.

The Series S HLH is provided with two (2) crossbroke access doors that are completely removable with lifting handles. These doors are fully gasketed with EPDM gasket on the perimeter for an effective door seal and are sealed by use of variable pressure knobs.

LOCKING MECHANISM AND OPTIONS

This unit is provided with a screw-type locking mechanism which generates 1,400 ft. lbs. of spring loaded pressure to seal the HEPA Filters. Its design allows the locking mechanism to be activated from one side.

Many different options are available for the Series S: Insulation, Double Wall Insulation, Weatherproofing, High Pressure, Flange Adapters, Support Legs, Hanger Brackets, Static Taps, Stainless Steel, Epoxy Coating.

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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 S HEPA Lock Housing: Options

EQUIPMENT OPTIONS

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

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

Materials of construction for BLC's Series S (Special Applications) HEPA Lock Housings should be determined by field conditions to which they will be exposed. Most applications can be met by BLC's superior construction, but where necessary the Housings may be constructed from Stainless Steel. Also, an epoxy or plasite coating can be applied when specified. Please consult factory.

Series SHL Housings may be Double Wall Insulated to combat vibration, noise and condensation, to protect the filtered air's quality. Standard insulation offered is 1 inch thick with 1 1/2 pound density. The insulation is applied to the interior surface of the doors and the exterior surface of the top and bottom panels. The insulation is then enclosed and captured with 24 gauge aluminized panels ensuring its integrity for the unit's life.

Weatherproof units for outside installations provide a pitched roof, rain guards over the doors and permanent sealing at all seams to secure the Housing against the elements. Finally, Flange Adapters for all commercial air handling units and Flange Adapters to meet any ductwork requirements are also available.

MODULAR ASSEMBLY

The maximum size of a single Series S HEPA Lock Housing is 3 Filters High by 3 Filters Wide. However, many of these units can be stacked or butted together to achieve almost any desired capacity. Any multi-section SHL arrives complete at the job site, with pre-drilled and gasketed cornerposts along with adjoined supports and railings -- all built in. It is the easiest, best designed system and solution for high capacity applications.

Dimensional Data

HEIGHT CODE (Nominal)	ACTUAL HEIGHT	MODEL NUMBER EXTENSION	WIDTH CODE (Nominal)					
			01	02	03	04	05	06
			ACTUAL WIDTH					
			15"	27"	39"	51"	63"	75"
06	90"	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
05	78"	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
04	60"	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
03	48"	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
02	30"	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
01	15"	MODEL EXT. CFM @ 500 FPM FILTER QTY.		02X01 1000 1H		04X01 2000 2H		06X01 3000 3H

- Maximum standard width is 6 feet. But units can be stacked or butted together.
- H denotes half size filter - 12 x 24 HEPA. F denotes full size filter - 24 x 24 HEPA.
- denotes unit requires a 12 x 12 HEPA blank-off panel, which is supplied.
- Unit depth is 33 1/4" with either the 2", 4" or 6" prefilter track.
- CFM shown is based on use of High Capacity HEPA Filters.

MODEL NUMBER KEY

SHL06X06/12
Insert model number extension to complete model number.

- S- Series S - Special
- HL- HEPA Lock
- 06- Unit Width
- 06- Unit Height
- 12- HEPA Filter Depth

**SPECIFICATION
DATA**
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SERIES SHL
SPD-SLSHL-03A
JANUARY 2003

**HIGH
EFFICIENCY
AIR FILTRATION
EQUIPMENT**

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SERIES S HEPA LOCK
SPECIAL APPLICATIONS HOUSING

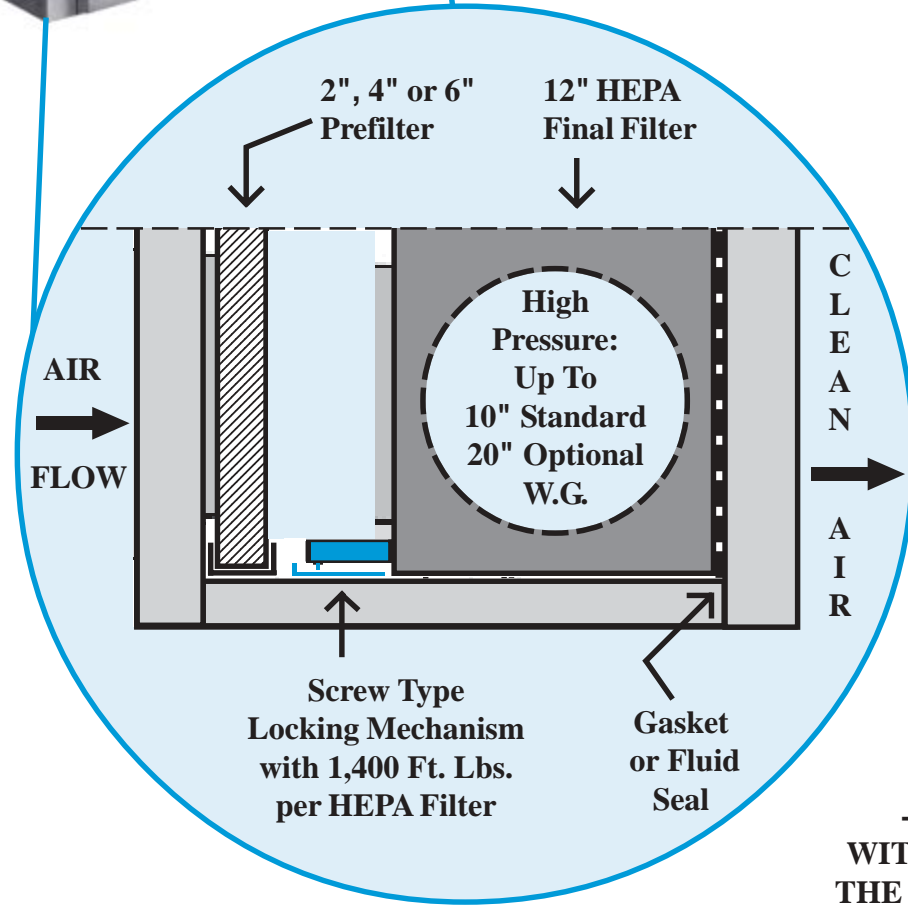


SPECIFICATIONS:

- Completely Factory Assembled
- 14 Gauge Aluminized Steel
- 2 Totally Removable Access Doors
- 2", 4" or 6" Prefilter / 6" or 12" HEPA
- Screw-Type Locking Mechanism for 1,400 Ft. Lbs. per HEPA Filter
- Airtight Welding, Reinforced Joints
- 1 1/2" Mounting Flanges

OPTIONS:

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



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MECHANICAL SPECIFICATIONS - SURE-LINE SERIES S HEPA LOCK HOUSING

Filter housings shall be SURE-LINE Series S (Special Applications) HEPA Lock Housings as manufactured by BLC Industries, Inc. Units shall be completely factory assembled with 1 1/2" turned out mounting flanges provided for easy field installation. Standard design for 10" W.G. positive or negative pressure. Units shall include the following equipment features and options:

STANDARD UNIT CONSTRUCTION

Material of Construction

Series S HEPA Lock Housing(s) shall be manufactured of 14 gauge aluminized steel. All fasteners are to be corrosion resistant finish. Pressure retaining joints and seams shall be welded airtight and reinforced to withstand 10" W.G. pressure.

Track System

Series S HEPA Lock Housing(s) filter tracks shall provide for either a 2", 4" or a 6" prefilter and a 6" or a 12" HEPA-type final filter. Each prefilter track shall be sealed at its end by use of EPDM gasket.

HEPA Filter Locking Mechanism

Series S HEPA Lock Housing(s) shall be provided with a screw-type locking mechanism which shall be activated from one side of the unit. The locking mechanism is to be operated by screw-type lock which forces the downstream filter gasket seal against a sealing grid, providing a full face seal of the HEPA Filter(s) and maintaining a positive pressure of 1,400 ft. lbs. per HEPA Filter.

Access Doors

Series S HEPA Lock Housing(s) shall be provided with two (2) crossbroke access doors. Doors shall be completely removable with lifting handles and shall be fully gasketed with EPDM gasket. Doors shall be sealed by use of variable pressure knobs.

UNIT OPTIONS

Insulation

Series S HEPA Lock Housing(s) shall be provided with 1 inch thick insulation. Insulation is applied to the interior 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

Series S HEPA Lock Housing(s) shall be provided with 1 inch thick double wall insulation. Insulation shall be enclosed in 24 gauge aluminized steel panels and may be 1.5 or 3.0 pound density.

Weatherproofing

Series S HEPA Lock 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).

Higher Pressure

Series S HEPA Lock Housing(s) shall be provided to meet operating static pressure of 10 IN. W.G. (Positive/Negative). Higher pressure of 20 IN. W.G. (Positive/Negative) is also available. Consult factory for all other high pressure applications.

Mounting Flange Adapters

Series S HEPA Lock Housing(s) shall be provided with 14 gauge aluminized steel flat adapter flange to match customer equipment specifications. Flanges may be **single** (air-entering or air-leaving) or **double** (air-entering and air-leaving) per requirements.

Support Legs

Series S HEPA Lock 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 wide units/4 support legs. For other applications, consult factory.

Hanger Brackets

Series S HEPA Lock Housing(s) shall be provided with 12 gauge aluminized steel hanger brackets welded to the top panel. Brackets are supplied with a 5/8" diameter hole for hanger rod. Hanger brackets are for support of the filter housing only.

Static Taps

Series S HEPA Lock Housing(s) shall be supplied with static pressure fittings for 1/4" metal tube connection. Tap Location No. 1: Before prefilter. Tap Location No. 2: Between prefilter and HEPA filter. Tap Location No. 3: After HEPA filter.

Stainless Steel

Series S HEPA Lock Housing(s) shall be manufactured of 304 or 316 stainless steel when specified.

Epoxy Coating

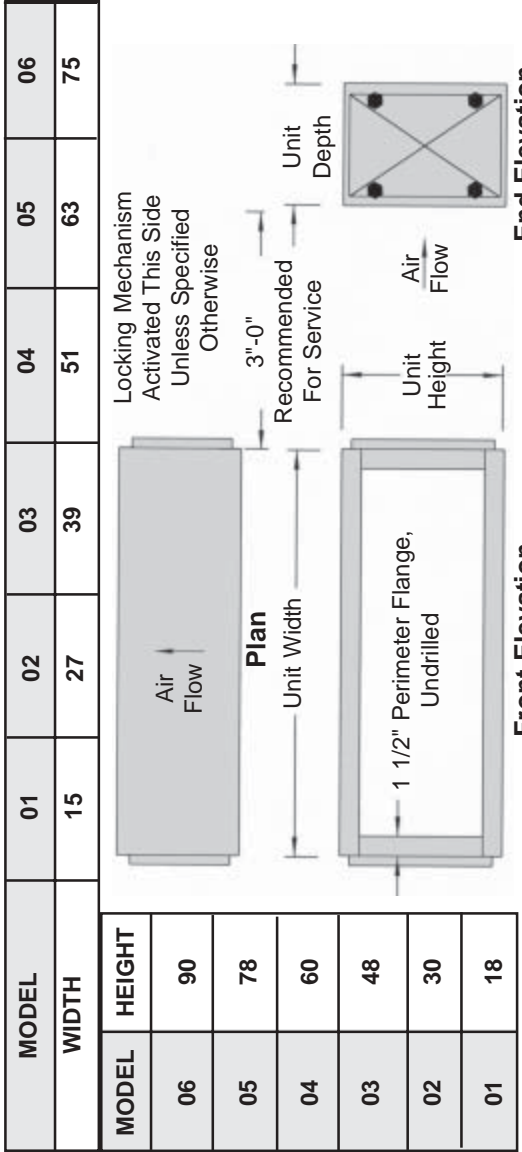
Standard aluminized units shall be supplied with an air dried epoxy coating. Epoxy coating can be interior-only, exterior-only or interior and exterior.

SUBMITTAL DATA

SURE-LINE SERIES S HEPA LOCK HOUSING

SD-SLSHL-03A
JANUARY 2003

BLC Order Number	Customer	Project Name	Tag	Purchase Order	Ship Date
BLC Model Number	Qty. Width Height	Unit Depth <i>Unit depth is dependent upon air filter and access door selection and configuration. Factory to provide actual depth information.</i>		HEPA Filter Seal <input type="radio"/> Gasket Seal <input type="radio"/> Fluid Seal	
Door Location	Prefilter Information: <input type="radio"/> 2" <input type="radio"/> 4" <input type="radio"/> 6"	Weatherproofing <input type="radio"/> Double Wall Insulation <input type="radio"/> Stainless Steel _____ Alloy <input type="radio"/> High Pressure _____ POS _____ NEG _____ W.G. <input type="radio"/> DOP Test Port		Air Filter Monitoring Information <input type="radio"/> Air Filter Gages <input type="radio"/> Field Mount <input type="radio"/> Factory Mount <input type="radio"/> By Others	
<input type="radio"/> One Access Door Left	HEPA Filter Information: <input type="radio"/> 6" HEPA <input type="radio"/> 12" HEPA	Locations: <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3		Prefilter Model _____ Final Filter Model _____	
<input type="radio"/> One Access Door Right		Additional Notes - See Attached.		AIR FILTER INFORMATION (For each unit shown at left.) <input type="checkbox"/> By Others* <input type="checkbox"/> Initial Supply <input type="checkbox"/> Spare Set <small>*BLC provides no warranty as to the fit or performance of air filters supplied by others.</small>	
<input type="radio"/> Two Access Doors (One Per Side)		For Test Housings, Transitions, Isolation Dampers, Blowers and other Specialty Options - See Attached.		Number Required - 12 x24 _____ Number Required - 24 x24 _____ Unit CFM @ 500 FPM _____	
<input type="radio"/> Two Access Doors - Left Side (Separate Access for Prefilter, Separate Access for Final Filter)		Preliminary Engineered Drawing - (2 Weeks Required)			
<input type="radio"/> Two Access Doors - Right Side (Separate Access for Prefilter, Separate Access for Final Filter)					
<input type="radio"/> Four Access Doors (2) per Side (Separate Access for Prefilter, Separate Access for Final Filter)					



NOTES:

- MATERIAL OF CONSTRUCTION: 14 AND 11 GAUGE ALUMINIZED STEEL.
- UNITS ACCOMMODATE 11 3/8 X 23 3/8 OR 23 3/8 X 23 3/8 (ACTUAL SIZE) INCH PREFILTERS.
- UNITS ACCOMMODATE 12 X 24 OR 24 X 24 (ACTUAL SIZE) HEPA FILTERS.
- OPTIONAL STATIC TAP LOCATION: 1- BEFORE PREFILTER 2- BETWEEN PRE AND HEPA FILTER 3- AFTER HEPA FILTER.
- LOCKING MECHANISM ACTIVATED FROM RIGHT HAND DOOR SIDE, UNLESS SPECIFIED OTHERWISE. MULTIPLE SECTION UNITS WITH WIDTH OVER 06 REQUIRE ACCESS AT BOTH ENDS TO ACTIVATE LOCKING MECHANISM.