



BROAN B12LC
Part no. B12LC

767 to 1026 cfm (0.4 in. w.g.)



VB0240

FOR LIGHT COMMERCIAL APPLICATIONS

High CFM ventilation for small business owners concerned about indoor air quality (excess moisture, smoke, odors and cleanliness).

Suitable for installation above a suspended ceiling, mechanical room or suspended from a ceiling, this model delivers year-round comfort and sensible heat recovery with virtually no cross leakage. On this unit, the heat exchange efficiency can reach up to 60%.

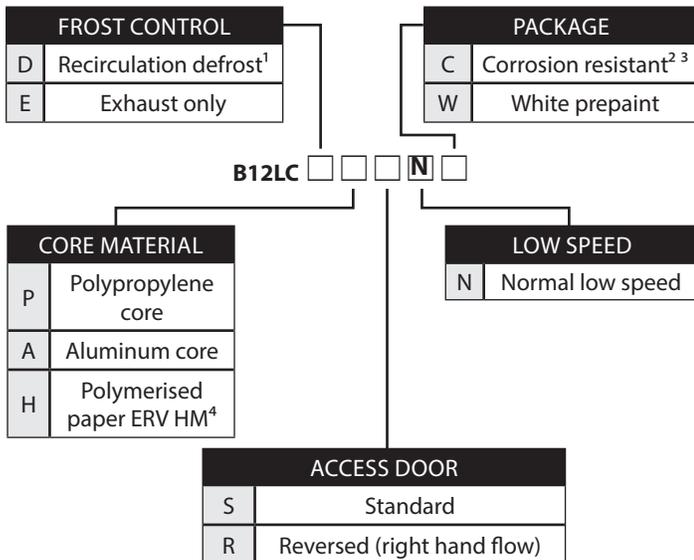
- Only 24.5" high for false ceiling installation
- Defrost system
- Two-speed control
- Low voltage remote switch

REPAIRS AND MAINTENANCE

All parts of the B12LC such as the large access door and the entire motor sub-assembly can be removed for ease of maintenance.

Furthermore, the electronic circuit board reduces electro-mechanical parts, minimizing repair time to a minimum.

ORDERING EXAMPLE



¹ When ordered, the recirculation defrost damper module is factory installed.
² Not recommended with aluminum cores.
³ Not recommended for ERV.
⁴ Not for all configurations; please contact a sales representative for more details.

**HEAT RECOVERY VENTILATOR/
 ENERGY RECOVERY VENTILATOR**

Control

- Built-in electronic circuit board ready to receive the VT1W main wall control.

Heat recovery cores/Energy recovery cores

Dimensions: 12" x 12" x 13.125"

Exchange surface: 200 ft²

Weight: HRV Polypropylene: 9.2 lb.; Aluminum 13.9 lb.
 ERV Polymerised paper: 11.2 lb.

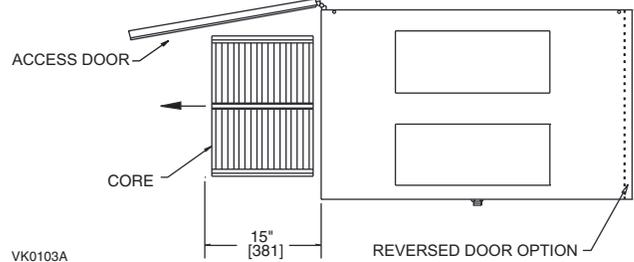
Type: plate to plate core

Quantity: 3

Material: HRV polypropylene or aluminum
 ERV polymerised paper

Warranty: HRV 15 years; ERV 5 years

A MINIMUM OF 15" [381] CLEARANCE FROM ANY OBSTRUCTION IS REQUIRED FOR REMOVAL OF CORES, FANS, ETC. THE ACCESS DOOR CAN BE REMOVED FROM CABINET WITH ONLY 2" [51] OF CLEARANCE.



VK0103A

Options

- Medium efficiency air supply filters

Recirculation or exhaust defrost

| OUTDOOR TEMPERATURE | | DEFROST CYCLE (IN MINUTES) |
|---------------------|----------------|----------------------------|
| °C | °F | DEFROST/OPERATION |
| WARMER THAN -5 | WARMER THAN 23 | NO DEFROST |
| -5 TO -15 | 23 TO 5 | 12/60 |
| -15 TO -30 | 5 TO -21 | 12/24 |
| -30 & LESS | -21 & LESS | 12/12 |

Requirements and Standards

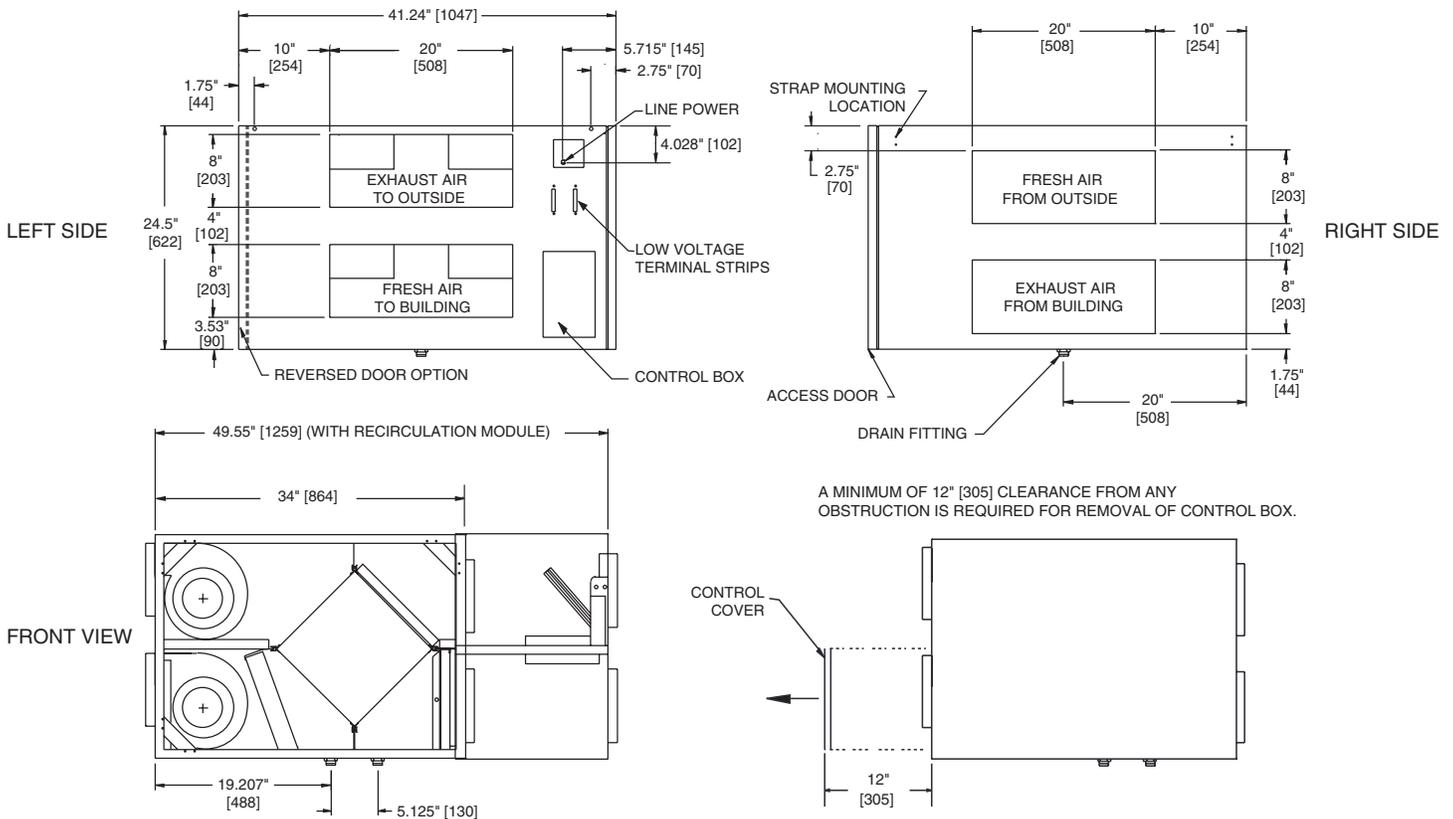
- Complies with the CSA C22.2, no. 113 Standard applicable to ventilators
- Complies with UL Standard 1812 - ducted Heat Recovery Ventilators and Energy Recovery Ventilators

Warranty

The B12LC unit is fully protected by a 2-year warranty on parts, the best in the industry, and the heat recovery cores are covered by a 15-year warranty and the energy recovery cores are protected by a 5-year warranty.

Available at:

DIMENSIONS AND SERVICE CLEARANCES: B12LC



VK0053A

WEIGHT

B12LC Exhaust Defrost

| Core Types | Total Assembled Weight |
|-------------------|------------------------|
| Polypropylene | 186 lb. |
| Aluminum | 208 lb. |
| Polymerized paper | 199 lb. |

B12LC Recirculation Defrost

| Core Types | Total Assembled Weight |
|-------------------|------------------------|
| Polypropylene | 247 lb. |
| Aluminum | 269 lb. |
| Polymerized paper | 260 lb. |

PERFORMANCES

| External Static Pressure | | Power consumed Watt | HRV High Speed | | ERV High Speed | | HRV and ERV | | | | |
|--------------------------|--------|---------------------|----------------|-----|----------------|-----|--------------|-----|-----------|-----|-----|
| | | | cfm | L/s | cfm | L/s | Medium Speed | | Low Speed | | |
| in. w.g. | Pascal | | | | | cfm | L/s | cfm | L/s | cfm | L/s |
| 0.1 | 25 | 1361 | 1138 | 537 | 1108 | 523 | 1000 | 472 | 776 | 366 | |
| 0.2 | 50 | 1328 | 1104 | 521 | 1074 | 507 | 965 | 455 | 767 | 362 | |
| 0.3 | 75 | 1290 | 1067 | 503 | 1037 | 489 | 930 | 439 | 756 | 357 | |
| 0.4 | 100 | 1247 | 1026 | 484 | 996 | 470 | 894 | 422 | 743 | 350 | |
| 0.5 | 125 | 1199 | 981 | 463 | 950 | 448 | 856 | 404 | 728 | 343 | |
| 0.6 | 150 | 1146 | 929 | 438 | 899 | 424 | 817 | 385 | 707 | 333 | |
| 0.7 | 175 | 1087 | 870 | 410 | 840 | 396 | 774 | 365 | 675 | 318 | |
| 0.8 | 200 | 1024 | 800 | 377 | 770 | 363 | 723 | 341 | 628 | 296 | |
| 0.9 | 225 | 955 | 714 | 337 | 685 | 323 | 657 | 310 | 571 | 269 | |
| 1.0 | 250 | 881 | 614 | 290 | 582 | 275 | | | | | |

ENERGY PERFORMANCE

| POLYPROPYLENE CORE | | | | EFFECTIVENESS | | |
|--------------------|-----|--------------|-----|---------------|--------|-------|
| SUPPLY TEMPERATURE | | NET AIR FLOW | | SENSIBLE | LATENT | TOTAL |
| °F | °C | CFM | L/S | | | |
| HEATING | | | | | | |
| 35 | 1.7 | 600 | 283 | 57 | 0 | 38 |
| 35 | 1.7 | 450 | 212 | 63 | 0 | 42 |
| COOLING | | | | | | |
| 95 | 35 | 600 | 283 | 55 | 0 | 21 |
| 95 | 35 | 450 | 212 | 60 | 0 | 23 |

| ALUMINUM CORE | | | | EFFECTIVENESS | | |
|--------------------|-----|--------------|-----|---------------|--------|-------|
| SUPPLY TEMPERATURE | | NET AIR FLOW | | SENSIBLE | LATENT | TOTAL |
| °F | °C | CFM | L/S | | | |
| HEATING | | | | | | |
| 35 | 1.7 | 600 | 283 | 54 | 0 | 36 |
| 35 | 1.7 | 450 | 212 | 57 | 0 | 38 |
| COOLING | | | | | | |
| 95 | 35 | 600 | 283 | 52 | 0 | 20 |
| 95 | 35 | 450 | 212 | 56 | 0 | 21 |

| POLYMERIZED PAPER CORE (HM) | | | | EFFECTIVENESS | | |
|-----------------------------|-----|--------------|-----|---------------|--------|-------|
| SUPPLY TEMPERATURE | | NET AIR FLOW | | SENSIBLE | LATENT | TOTAL |
| °F | °C | CFM | L/S | | | |
| HEATING | | | | | | |
| 35 | 1.7 | 600 | 283 | 60 | 47 | 56 |
| 35 | 1.7 | 450 | 212 | 65 | 53 | 61 |
| COOLING | | | | | | |
| 95 | 35 | 600 | 283 | 60 | 38 | 46 |
| 95 | 35 | 450 | 212 | 63 | 45 | 52 |

EFFECTIVENESS

| UNIT PERFORMANCE, SENSIBLE EFFECTIVENESS | | | | |
|--|---------------|-----|-----|------|
| HEATING SUPPLY TEMPERATURE 35°F / 1.7°C | AIRFLOW (CFM) | | | |
| | 450 | 700 | 950 | 1200 |
| POLYPROPYLENE | 70 | 61 | 54 | 51 |
| ALUMINUM | 63 | 57 | 63 | 50 |
| POLYMERIZED PAPER (HM) | 75 | 70 | 67 | 64 |

| UNIT PERFORMANCE, TOTAL EFFECTIVENESS | | | | |
|---|---------------|-----|-----|------|
| COOLING SUPPLY TEMPERATURE 95°F / 35°C | AIRFLOW (CFM) | | | |
| | 450 | 700 | 950 | 1200 |
| POLYMERIZED PAPER (HM) | 47 | 41 | 37 | 35 |

NOTE: All specifications are subject to change without notice.

ACOUSTIC NOISE POWER CHART (dBA) AT UNIT PORTS

| Airflow | Fresh air to building port | Exhaust air from building port |
|--------------------------|----------------------------|--------------------------------|
| 1026 CFM at 0.4 in. w.g. | 74.8 dBA | 58.5 dBA |
| 767 CFM at 0.2 in. w.g. | 71.5 dBA | 56.3 dBA |

The data shown on left chart come from measurement performed according to ISO 5136 Standard. These data represent the sound power directly measured at the fresh air distribution port and exhaust air from building port. To get the actual noise level in the room, consider noise attenuation resulting from total ductwork installation.

SPECIFICATIONS

- Models: 12LC and V12LC
- All duct connections: 20" x 8"
- Housing: 20 ga. pre-painted steel
- Mounting: Reinforced rubber straps
- Drains: 3/4" threaded fittings
- Filters: 6 reticulated washable foam filters (20 ppi)
3 disposable MERV 8 filters (optional) part no. SV63342
- Mounting: Reinforced rubber straps
- Insulation: 1" foil faced and 1" acoustic fiberglass wool
- Supply and exhaust blower motors:
 - Motor type: PSC motors with sealed sleeved bearings
 - 3 speeds (2 available to customer)
 - R.P.M.: 1625 - H.P.: 1/3
 - Fan type: direct drive centrifugal blower 7 1/8" x 6"
 - Housing: galvanised steel
- Fans speed control:
 - Low, medium and high speeds
 - 2 speeds available to user
 - Low or medium speed is selected at the time of installation
- Unit electrical characteristics:

| Volts | MCA | MOP | Watts |
|-------|------|------|-------|
| 120 | 14.3 | 20.0 | 1275 |

| Project: | REMARKS |
|------------------|---------|
| Location: | |
| Model No.: B12LC | |
| Quantity: | |
| Submitted by: | Date: |



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