

EXTERNAL HEAT RECOVERY VENTILATOR

Model 20LCe

Part #: 1620024



VB0034

EFFECTIVE VENTILATION WITHOUT SPACE LOSS

Today's business need to optimize every square inch without compromising on ventilation quality. Designed for rooftop applications, this unit delivers 2000 cfm (944 l/s) of ventilation air at 1"wg (250 Pa) of external static pressure.

The 20LCe features a plate to plate heat exchanger (available in polypropylene plastic or aluminum) providing sensible heat transfer, ideal for cold or dry climates.

- Outdoor installation
- Belt-driven blowers
- Durable prepaint enamel cabinet
- Return and supply air openings can be placed vertically or horizontally

These products are designed to resolve Indoor Air Quality issues and to satisfy the ventilation requirements of ASHRAE 62 and other applicable building codes in an energy efficient manner. The 20LCe heat recovery ventilator saves on operating costs, decreases demand load and considerably reduces capital costs for heating equipment.

Available at:

Controls

Basic control is made with terminal strips to select ventilation mode. For optional remote controls, terminal strips will allow on/off control from remote contacts. Optional remote controls are:

- Venta (off/min/max and dehumidistat), part #40310
- Supra (off/intermittent/min/max/dehumidistat), part #40320
- Basic (off/min/max and dehumidistat), part #40210
- Electro (off/intermittent/min/max/dehumidistat), part #40220

Heat Recovery Core

Type: Plate to plate

Material: Polypropylene or aluminum (optional)

Sensible effectiveness: 56%

Servicing: Easily removable on co-extruded tracks for cleaning

Cross leakage: Less than 1%

Warranty: 15-year warranty

Optional Features and Accessories

- Recirculation Defrost: part #14054
- Aluminum Core: part #1808174
- Motor: 208/230/1/60, 1.5 hp, 2 speeds part #1808163
- Motor: 208/230/1/60, 2 hp, 1 speed part #141164
- Insulated Roofcurb: part #205249
- Non Insulated Roofcurb: part #204972
- Flow Measuring Station: part #1605135

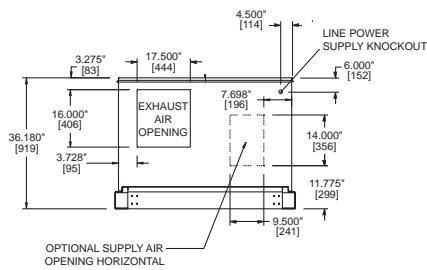
Requirements and Standards

- Complies with CSA C22.2 and UL 1812
- CETL and ETL approved
- Airflow data complies with AMCA 210 method of testing fans
- Insulation complies with NFPA 90A requirements for flame spread and smoke generation
- Polypropylene heat recovery core complies with UL standard 94-HB

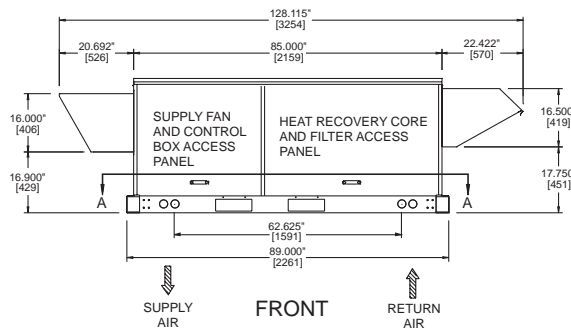
Warranty

The 20LCe unit is fully protected by a 2-year warranty on all parts, excluding heat recovery core.

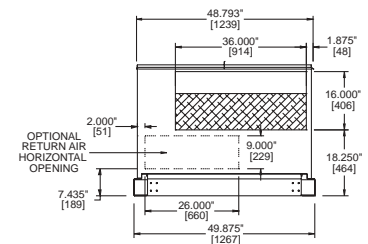
Dimensions and Clearances: 20LCe



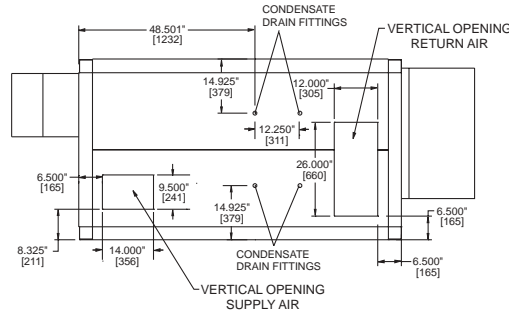
LEFT SIDE



FRONT



RIGHT SIDE

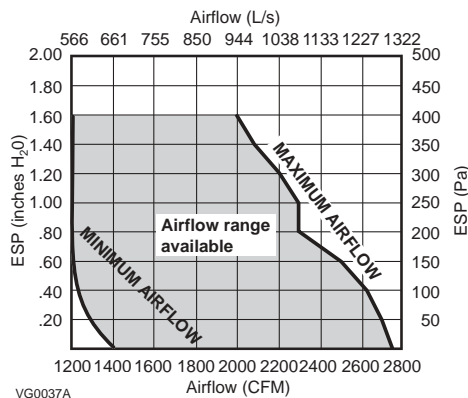


BOTTOM CROSS SECTION A-A

- NOTES: 1. A minimum of 26" (660 mm) is required from any obstructions for removal of plate heat exchanger, fans and filters.
 2. Dimensions in brackets are in millimeters.

VK0030A

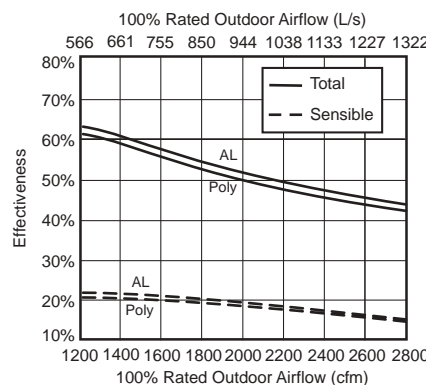
Ventilation Performances



VG0037A

- NOTES: 1. Airflow range is achieved by various pulley and motor combinations.
 2. Airflow based on supply blower.

Energy Performances



VG0032A

NOTE: Latent effectiveness = 0. Base airflow rate at 2000 cfm.

Polypropylene Core

Condition	Heating Season		Cooling	
	75% of rated flow	100% of rated flow	75% of rated flow	100% of rated flow
Effectiveness	75%	100%	75%	100%
Sensible	56%	50%	54%	48%
Latent	0%	0%	0%	0%
Total	38%	33%	19%	17%

Aluminum Core

Condition	Heating Season		Cooling Season	
	75% of rated flow	100% of rated flow	75% of rated flow	100% of rated flow
Effectiveness	75%	100%	75%	100%
Sensible	59%	53%	57%	51%
Latent	0%	0%	0%	0%
Total	39%	35%	20%	18%

Specifications and Ratings

- Model: 20LCe
- Part Number: #1620024 (with polypropylene core)
- Total Assembled Weight: 730 lbs (332 kg)
- Dampers: insulated spring return supply damper and insulated motorized exhaust damper
- Cabinet: gray, pre-painted steel
- Hoods: intake and exhaust included
- Defrost: exhaust only
- Ports: down supply discharge and bottom return air
- Filtration: standard
- Motor: single phase, 1.5 hp, 1 speed
- Unit Electrical Characteristics:
 - Voltage: 208 volts ac
 - Frequency: 60 Hz

Submitted by:		Date:	Project:
Qty:	Model #:	Remarks:	Location:
			Architect:
			Engineer:
			Contractor:

