



InspirAIR™ HOME STANDARD RESIDENTIAL E110-TF Energy Recovery Ventilator

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA



PRODUCT DESCRIPTION

Compact size, large performance – the E110-TF energy recovery ventilator produces approximately **101 CFM** at 0.20 in.w.g (ESP) and recovers sensible and latent heat through its high-latent-transfer membrane core. The E110-TF has been thoughtfully engineered for simple installation in apartments, condos, and small houses. The removable collars are top-mounted, which makes the unit both narrow and shallow enough to fit inside standard closets and other tight spaces.

The E110-TF has two exclusive features. EvacMAX™ provides on-demand boost for maximum ventilation. With FLEXControl, airflow circuits can be calibrated electronically, eliminating the need for resistance-inducing balancing dampers and improving overall efficiency.

KEY FEATURES

- Damage-free packaging protects the unit in transit and makes it easy to remove it from the carton without damaging the collars
- Electronically and independently adjustable supply and exhaust blowers (FLEXControl)
- Gauge ports on the door for fast and reliable airflow readings
- Twist-in collars for easy flex-duct attachment
- Non-dust-loading backward-inclined impellers on totally enclosed motors
- Snap-out motor decks
- Easy access to core and filters for cleaning
- Extremely durable core
- Standard MERV 6 filters
- Multiple low-voltage controller options

CASING

Material: Pre-painted 24-gauge galvanized steel
Duct Connections: Ø 4" (Ø 102 mm)
Insulation: Molded EPS
Width: 23-1/8" (587 mm)
Height: 16-3/4" (425 mm)
Depth: 12-3/8" (314 mm)
Weight: 29 lbs (13 kg); Shipping Weight: 37 lbs (17 kg)

MOUNTING

- Suspended by chains with vibration-isolating springs
- Wall-mounting accessory available (P/N: 608575)

RECOVERY CORE

Material: High-latent-transfer membrane

BLOWERS

Quantity: 2
Type: Motorized impellers (backward-inclined)

ELECTRICAL REQUIREMENTS

120 VAC, 60 Hz, 0.6 A, 72 W
Cord Set: 48" (1219 mm) with ground

CONTROLS

Low voltage dry contact (24VAC) for:

- Fan interlock (NO and NC)
- Digital Multifunction Control (P/N: 611242)

Low voltage (24VAC) for:

- Humidity Control (P/N: 611224)
- Speed Control (Low/Intermittent/High) (P/N: 611229)
- 20/40/60 Minute Timer (P/N: 611228)

FROST CONTROL

- Automatic timed integral exhaust defrost
- Activated by a sensor when the outdoor temperature drops below 14°F (-10°C)

FILTERS

Quantity: 2
Type: MERV 6 (P/N: 612409)

WARRANTY

Core Assembly: Limited 5-year warranty
All Other Covered Components: Limited 5-year warranty

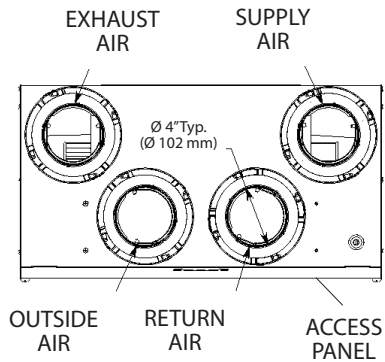
APPROVALS

Meets Standards:
• C22.2 no113
• UL 1812

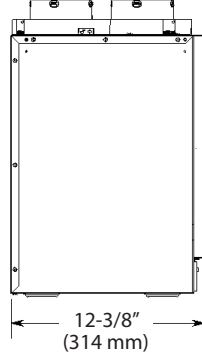


Dimensions

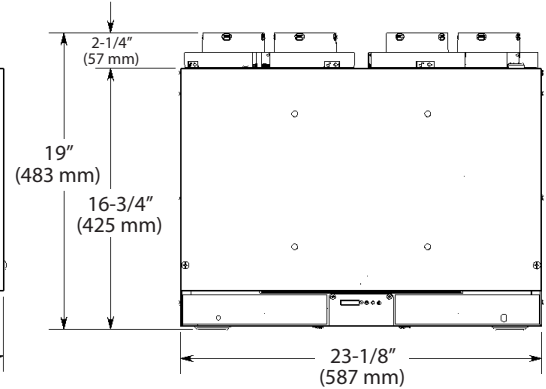
TOP VIEW



SIDE VIEW



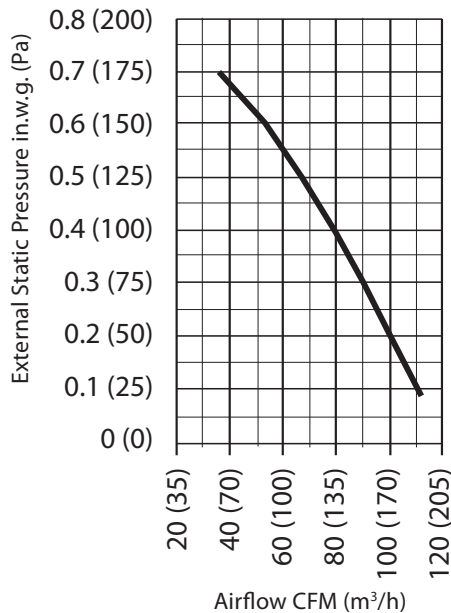
FRONT VIEW



Performance



E110-TF Ventilation Performance



Recovery Performance

Outside Air Temperature		Net Airflow		Power Consumed (W)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Latent Recovery/Moisture Transfer	Total Recovery Efficiency
°F	°C	CFM	L/s					
Heating								
32	0	54	26	30	71%	80%	61%	--
32	0	65	31	32	68%	74%	56%	--
32	0	106	50	56	62%	68%	49%	--
-13	-25	50	23	35	61%	77%	56%	--
Cooling								
95	35	51	24	30	--	--	--	54%

Project:		Architect:	
Location:		Engineer:	
Model #:		Contractor:	
Quantity:		Comments:	
Submitted By:			
Date:			

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