

# ENGINEERING DATA



## Model: FC-150EC-ERV

Energy Recovery Ventilator

Part Number: 602613115



Intertek



### FEATURES

- Compact Size – Fits between joists
- High Recovery Efficiency
- High Airflow
- Easy-Mount Brackets
- Washable Core
- Tool-less Maintenance
- Auto Defrost Function
- Works with HVAC System without external controls

### COMPATIBLE WITH

FAVC, FCMC, FC-HERV-C2, and all ventilation controls and IAQ thermostats with Ventilation functions and 24VAC or dry contacts.

### ON BOARD CONTROLS

Manual Mode switch:

Mode 1: Continuous

Mode 2: Intermittent

Mode 3: Independent

AUTO DEFROST prevents core freezing

### OPTIONAL CONTROLS

FC-HERV-2 Auto/Timer Wall Control

### CERTIFICATIONS

UL 1812

### WARRANTY

10 years on core, 5 year on unit



Field Controls  
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### SPECIFICATIONS

SRE	78% at 32°F supply and 66cfm net airflow
Airflow @0.2 in. wg (MERV3)	Supply: 153 cfm Exhaust: 158 cfm
Efficacy	1.3 cfm/w @ 95° supply and 110 cfm net airflow
Electrical	120 VAC, 60 Hz, 1.2A
Filters	2x Washable MERV3 Optional: MERV 8 and 13
Core	Graphene Polymer Membrane
Case	Painted galvanized, 1" EPP insulaton
Motors	2x permanently lubricated ECM motors
Mounting	Between Ceiling Joist, Ceiling, Wall, and Floor
Logistics	29" x 23" x 13" / 57lbs.

### BENEFITS

- Replace poor stale indoor air with fresh outdoor air.
- Save energy and costs by pre-conditioning fresh outdoor air when ventilating.

When installed and setup properly, the FC-150EC-ERV will meet the mechanical ventilation requirements of:

- ASHRAE Standard 62.2
- IECC 2021
- IRC 2021
- IMC 2021

### SERVICEABILITY

Core, filters, fans and electrical panel can be accessed easily from the tool-less access door. Core conveniently slides out.

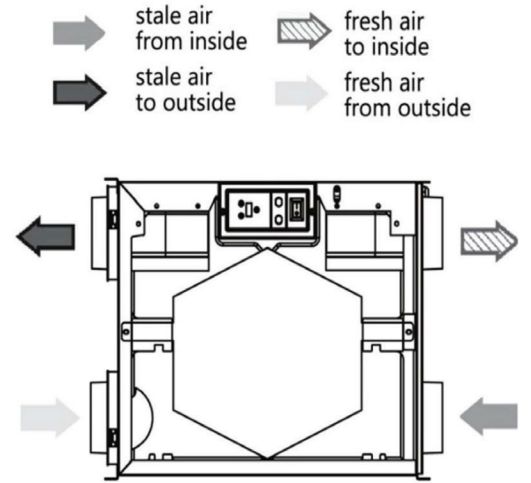
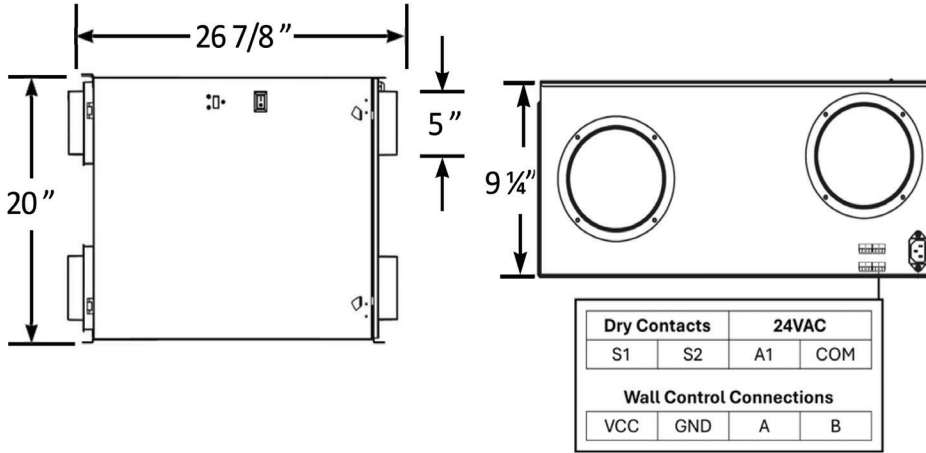
### REPLACEMENT PART LISTS

MERV 8 Filter (2 pack)	730009100
MERV 13 Filter (2 pack)	730009300
Washable Filter (2 pack)	730009150
FC-HERV-2	602613250

Field Controls reserves the right to change specifications without notice.

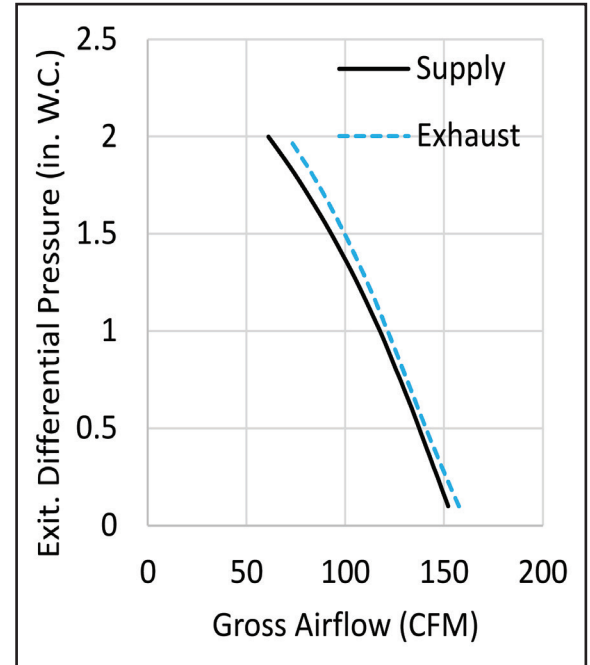
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## DIMENSIONS AND AIRFLOW



## AIRFLOW PERFORMANCE

EXTERNAL PPRESSION		GROSS SUPPLY		GROSS EXHAUST		NET SUPPLY		NET EXHAUST *		POWER*
Pa	in.w.g.	L/s	CFM	L/s	CFM	L/s	CFM	L/s	CFM	Watts
25	0.1	74	157	77	163	72	152	74	158	156
50	0.2	72	153	75	158	70	148	72	153	156
75	0.3	71	149	73	154	68	145	70	149	156
100	0.4	69	146	71	149	67	141	68	145	156
125	0.5	67	142	69	145	65	137	67	141	156
150	0.6	65	138	67	141	63	134	65	137	156
175	0.7	63	134	65	137	61	130	63	133	156
200	0.8	61	130	63	133	59	126	61	129	156
225	0.9	59	126	61	129	58	122	59	125	156
250	1	57	121	59	125	55	118	57	121	156
300	1.2	53	112	55	117	51	108	54	113	156
350	1.4	48	101	51	108	46	98	49	104	156
400	1.6	43	90	46	98	41	87	45	95	156
450	1.8	37	77	41	86	35	75	39	84	156
500	2	30	63	35	73	29	61	34	71	156



NOTE: FAN CURVE PERFORMED WITH WASHABLE FILTER ON HIGHEST SPEED

\* NET EXHAUST AND POWER RATINGS ARE NOT CERTIFIED BY HVI



**FIELDCONTROLS**

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## ENERGY PERFORMANCE

TEMP MODE	Supply Temp (C)	Supply Temp (F)	Net Airflow (L/s)	Net Airflow (cfm)	Power Consumed (watts)	Efficacy (L/s/W)	Efficacy (cfm/W)	SRE	ASRE	NMT	TRE	ATRE
HEATING	0	32	17	36	19	0.89	1.8	85	88	0.76		
HEATING	0	32	31	66	32	0.96	2	78	82	0.68		
HEATING	0	32	52	110	77	0.67	1.4	72	77	0.60		
COOLING	35	95	31	66	32	0.96	2			0.83	78	81
COOLING	35	95	52	110	79	0.65	1.3			0.72	67	71

## DEFROST MODE

INCOMING FRESH AIR TEMPERATURE	ERV FAN OPERATION	
	DEFROST MODE (MIN)	DEFAULT MODE (MIN)
Above 23°F (-5°C)	-	MODE 1/2/3
23°F (-5°C) DOWN TO 5°F (-15°C)	10	30
5°F (-15°C) DOWN TO -17°F (-27°C)	10	20
Below -17°F (-27°C)	10	15

## PROJECT INFORMATION

Quoted by:	Date:
Project:	Remarks:
Quantity:	
Model:	
Site:	
Architect:	
Engineer:	
Contractor:	



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