



Submittal: AN035NSEDV/AA

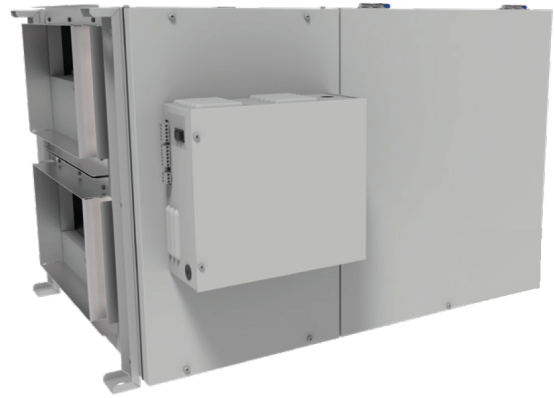
Energy Recovery Ventilator

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

Location _____
 Engineer _____
 Reference ☐ Approval ☐ Construction ☐
 Schedule # _____

Standard Features

- Energy recovery core
- Fans with backward curved blades
- Dual service doors & Reversible electrical box
- Push-pull configuration
- External electrical box
- Electrostatic filters
- Removable screw terminal for easy connection
- Full length drain pan
- Outdoor ducts on the same side
- Control PCB supports Modbus monitoring and control as standard.



Specifications

- Volts, Phase: 120V, Single
- Amperage: 4.17 Amps Total
- Blowers (X2): 115V, 60 Hz, 2.7 Amps
- Weight: 132 lbs. (60 Kg)
- Shipping Weight: 167 Lbs. (76 Kg)
- Shipping Dimensions: 42" X 48" X 27"

Accessories

☐	ECO-TOUCH	Touch wired controller
☐	MXD-K200VN	ERV Central control adapter (also requires MIM-N10 for connection to Samsung central controls)
☐	MIM-N10	Central control interface module (can connect up to 16 ERV's via MXD-K200VN ERV adapters)

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

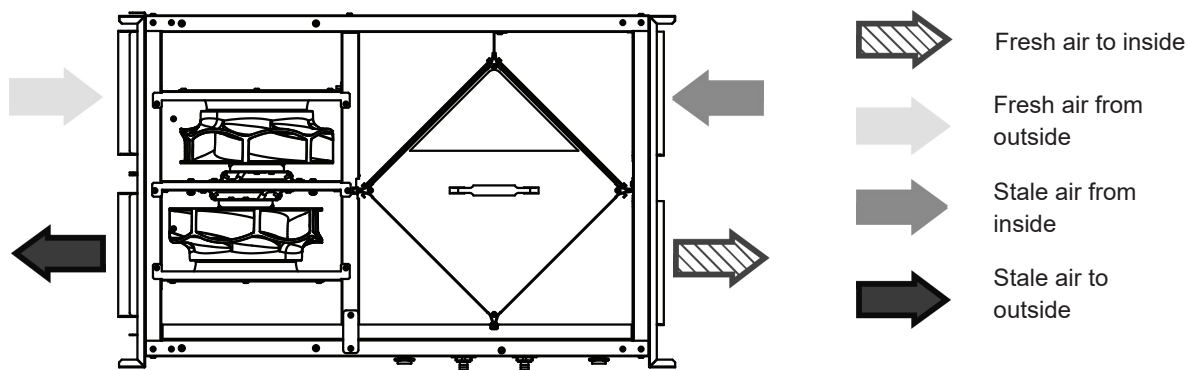


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Descriptions

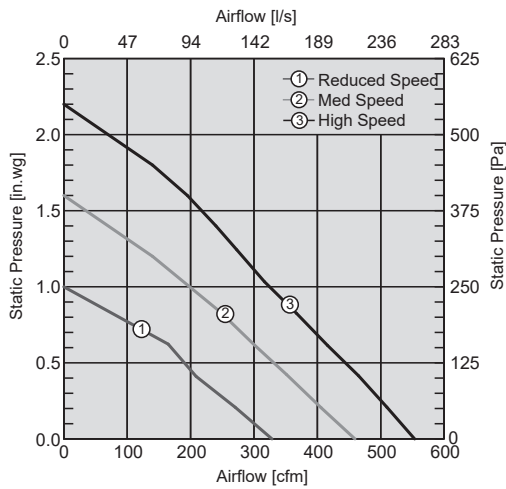
Cabinet:	22 gauge G90 galvanized steel sheet coated with baked powder paint, insulated with 1 in. (25 mm) fiberglass with FSK facing for condensation control. The cabinet is insulated with 2 inch (50 mm) of foil-faced high density polystyrene foam on the outdoor air side for condensation control.
Blowers:	Two maintenance-free Ebm-Papst™ backward inclined motorized impellers with permanently lubricated sealed ball bearings and (TOP) thermal overload protected.
Energy recovery core:	AHRI certified core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. During winter, the core transfers heat and moisture from the outgoing air to the incoming fresh air and during summer the core transfers heat and moisture from the incoming air to the outgoing air to essentially reduce the latent load.
Filters:	The exhaust and fresh air streams are protected by MERV1 washable filters constructed to meet UL 900.
Controls:	External three (3) position (Low / Standby / Medium) rocker switch that will offer continuous ventilation. Optional wired controller available.
Frost control:	A preset frost control sequence is initiated if the outdoor temperature falls below the set point of 23°F (-5° C). During the initial stage, the supply blower shuts down & the exhaust blower switches into high speed to eliminate frost build-up in the core. The unit then returns to normal operation for the final stage of the frost control sequence at which time the sequence is repeated if the outdoor air temperature is still below the set point.
Serviceability:	Cores, filters and drain pan can be accessed easily from both sides of the ERV from hinged access panels. Cores conveniently slide out with only 15" (380 mm) clearance. Blowers can be accessed from both side of the ERV from fastened access panels. Blowers are easily removed by taking off the access panel and sliding the motor plates out of the ERV. A quick connect allows for fast inspection of blowers.
Mounting:	Unit may be suspended by using threaded rod (field supplied) or placed on a platform. Unit shall be adaptable for easy service of electrical components.
Warranty:	Fresh Access™ ERV's have a warranty that is limited to 3 years on all parts from the date of install, including parts replaced during this time period. If there is no proof of purchase available, the date associated with the serial number will be used for the beginning of the warranty period



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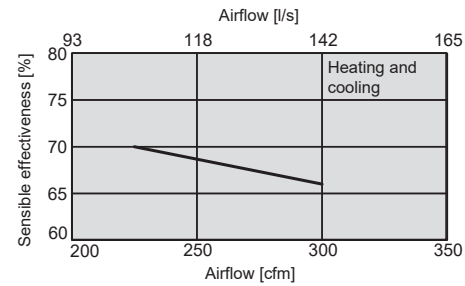
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Ventilation Performance

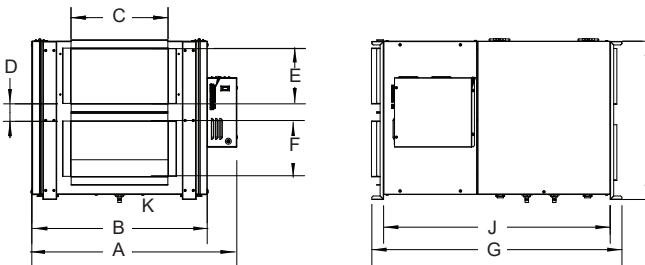


Energy Performance

	Supply Temperature		Net Airflow		Net Effectiveness		
					Sensible	Latent	Total
	°F	°C	CFM	L/s	%	%	%
Heating	35	1.7	300	142	66	46	59
	35	1.7	225	106	70	51	54
Cooling	95	35	300	142	66	42	58
	95	35	225	106	70	48	63



Dimensions



A		B		C		D		E		F		G		I		J		K	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
29 1/2	747	25 1/8	639	14	355	2 1/2	64	8	203	8	203	35 15/16	911	22 11/16	577	32 1/2	826	1/2	13

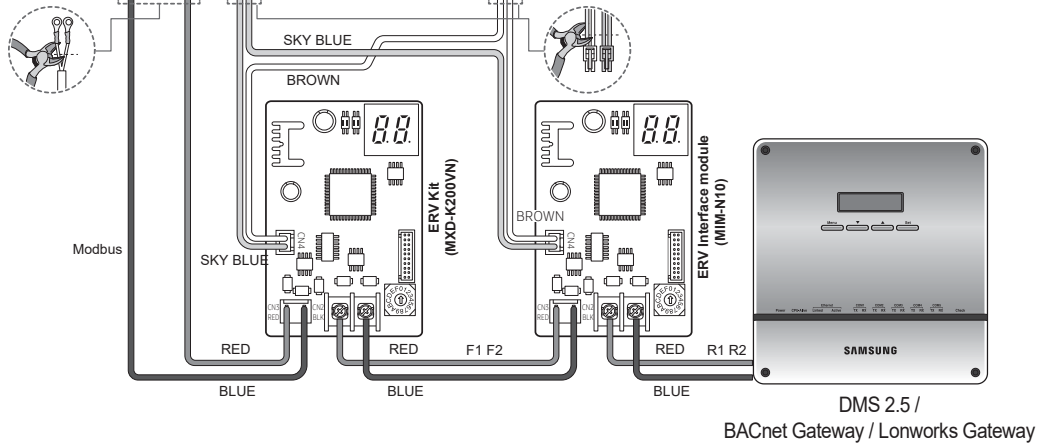
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ERV Adapter and ERV Central Control Interface Module Connection

Fresh Access™ ERV Terminal Block

Block											
Mark	S+	S-	B	A	I	T+	T-	W	W	D+	D-
Note	-	-	BLU	RED	GND	-	-	-	-	+12V [+12V]	-



Central Controls Connection Example (to Samsung central controls)

