**GUIDE SPECIFICATION**

*Specifier Notes: This guide specification is written in Construction Specifications Institute (CSI) 3-Part Format in accordance with The CSI Construction Specifications Practice Guide, MasterFormat, SectionFormat, and PageFormat.*

*Specifier Notes: This Section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the Project and local building code. Coordinate this Section with Division 01, other specification sections, and the Drawings. Delete all Specifier Notes after editing this Section.*

*Section numbers and titles are based on MasterFormat 2016 Update.*

**SECTION 23 72 00**

**AIR-TO-AIR ENERGY RECOVERY VENTILATOR**

*Specifier Notes: This Section covers Fantech’s FIT 120E, FIT 120E-M, and FIT 120E-HC series of Energy Recovery Ventilators. Consult Fantech for assistance in editing this Section as required for the Project.*

**PART 1. GENERAL**

**1.1 SECTION INCLUDES**

1. Energy Recovery Ventilators

**1.2 RELATED REQUIREMENTS**

*Specifier Notes: Edit the following list of related sections as required for the Project. Limit the list to sections with specific information that the reader might expect to find in this Section but is specified elsewhere.*

1. Section 23 08 00 – Commissioning of HVAC

**1.3 REFERENCE STANDARDS**

*Specifier Notes: List reference standards used elsewhere in this Section, complete with designations and titles. Delete reference standards from the following list not used in the edited Section.*

1. CSA C22.2, No. 113 – Fans and Ventilators
2. CSA C439 – Laboratory Methods of Test for Rating the Performance of Heat/Energy-

 Recovery Ventilators

1. CSA F326 – Residential Mechanical Ventilation Systems
2. IEC 60529 – Ingress Protection Test Standard
3. ISO 9001:2015 – Quality Management Systems – Requirements
4. NFPA 70 – National Electrical Code (NEC)
5. UL1004 – Standard for Safety Electric Motors
6. UL1812 – Standard for Ducted Heat Recovery Ventilators

**1.4 PREINSTALLATION MEETINGS**

*Specifier Notes: Edit the Preinstallation Meetings article as required for the Project. Delete article if not required.*

1. Convene preinstallation meeting [1 week] [2 weeks] before start of Work of this Section
2. Require attendance of parties directly affecting Work of this Section, including Contractor, Architect, installer, and manufacturer’s representative
3. Review the Following:
	1. Materials
	2. Installation
	3. Adjusting
	4. Protection
	5. Coordination with other Work

**1.5 SUBMITTALS**

*Specifier Notes: Edit the Submittals article as required for the Project. Delete submittals not required.*

1. Comply with Division 01
2. Product Data: submit manufacturer’s product data, including installation instructions
3. Shop Drawings: submit manufacturer’s shop drawings, including plans, elevations, sections, and details
	1. Wiring Diagrams: indicate wiring for each item of equipment and interconnections between items of equipment
	2. Include manufacturer’s names, model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams, and conduit layouts
4. Manufacturer’s Certification: submit manufacturer’s certification that materials comply with specified requirements and are suitable for intended application
5. Operation and Maintenance Data:
	1. Submit manufacturer’s operation and maintenance manual; including the following:
		1. Operation, maintenance, adjustment, and cleaning instructions
		2. Troubleshooting guide
		3. Parts list
		4. Electrical wiring diagrams if required
	2. Provide detailed information required for Owner to properly operate and maintain equipment
6. Warranty Documentation: submit manufacturer’s standard warranty

**1.6 QUALITY ASSURANCE**

1. Manufacturer’s Qualifications:
	1. Manufacturer regularly engaged in the manufacturing of air handling units, heat, or energy recovery ventilators in the last 10 years
	2. ISO 9001 Certified
2. Installer's Qualifications:
	1. Installer regularly engaged in installation of air handling units, heat, or energy recovery ventilators to that specified for a minimum of 5 years
	2. Use persons trained for installation of air handling units, hear or energy recovery ventilators

**1.7 DELIVERY, STORAGE, AND HANDLING**

1. Delivery Requirements: deliver materials to site in manufacturer’s original, unopened containers, and packaging, with labels clearly identifying product name and manufacturer.
2. Storage and Handling Requirements:
	1. Store and handle materials in accordance with manufacturer’s instructions
	2. Keep materials in manufacturer’s original, unopened containers, and packaging until installation
	3. Store materials in clean, dry area indoors
	4. Keep materials from freezing
	5. Protect materials during storage, handling, and installation to prevent damage

**1.8 LIMITED WARRANTY**

Warranty Period: 5 years on energy recovery core, 7 years on motors, and 5 years on parts

**PART 2. PRODUCTS**

**2.1 MANUFACTURERS**

1. Manufacturer: Systemair MFG Inc., 50 Kanalflakt Way, Bouctouche, New Brunswick E4S 3M5, Canada
For Canada: Toll Free 800-565-3548, CANADAsupport@fantech.net
For USA: Toll Free 800-747-1762, USsupport@fantech.net
*Specifier Notes: Specify if substitutions will be permitted*
2. Substitutions: [Not permitted] [Comply with Division 01]
3. Single Source: Provide materials from single manufacturer
	1. **ENERGY RECOVERY VENTILATORS**
	*Specifier Notes: Specify required model. Consult Fantech for assistance in determining Energy Recovery Ventilator model for the specific application (EC Motors could help your apply for LEED credits; dampers included only with the FIT 120E-D, FIT 120E-D-M, FIT 120E-D-EC, and the FIT 120E-D-M-EC; specify the FIT120E or the FIT120E-M if you want to provide your own shut-off damper solution.) Options are denoted by brackets.*
4. [Energy Recovery Ventilators: FIT 120E]
	1. Warm supply and return air on the right-hand side
	2. Indoor, compact, residential Energy Recovery Ventilators
	3. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	4. Unit Cabinet
		1. Single Wall Cabinet:
			1. 22-gauge G90 galvanized corrosion-resistant steel case
			2. Seams: sealed, requiring no caulking in field
			3. Duct Connections: 5-inch (127mm) round metal duct connections with rubberized seal
		2. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	5. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	6. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
				1. Class 44 for FIT 120E,  FIT 120E-D, FIT 120E-M, FIT 120E-D-M, FIT 120E-HC, FIT 120E-D-HC, FIT 120E-M-HC, FIT 120E-D-M-HC
				2. Class 54 for FIT 120E-D-EC,  FIT 120E-D-EC-M, FIT 120E-D-EC-HC, FIT 120E-D-EC-M-HC
		3. Separate fan motor assemblies for supply and exhaust airstreams
	7. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	8. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	9. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	10. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Factory wired for single-point power connection
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	11. Electrical Box Components: accessible without stopping unit or opening doors
	12. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	13. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
5. [Energy Recovery Ventilators: FIT 120E-HC]
	1. Hard-connect system, no power cord provided.
	2. Warm supply and return air on the right-hand side
	3. Indoor, compact, residential Energy Recovery Ventilators
	4. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	5. Unit Cabinet
		1. Single Wall Cabinet:
			1. 22-gauge G90 galvanized corrosion-resistant steel case
			2. Seams: sealed, requiring no caulking in field
			3. Duct Connections: 5-inch (127mm) round metal duct connections with rubberized seal
		2. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	6. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	7. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	8. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	9. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	10. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	11. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Flying leads to hard-connect appliance
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	12. Electrical Box Components: accessible without stopping unit or opening doors
	13. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	14. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
6. [Energy Recovery Ventilators: FIT 120E-M]
	1. Warm supply and return air on the left-hand side
	2. Indoor, compact, residential Energy Recovery Ventilators
	3. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	4. Unit Cabinet
7. Single Wall Cabinet:
	* + 1. 22-gauge G90 galvanized corrosion-resistant steel case
			2. Seams: sealed, requiring no caulking in field
			3. Duct Connections: 5 inch (127mm) round metal duct connections with rubberized seal
		1. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	1. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	2. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	3. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	4. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	5. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	6. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Factory wired for single-point power connection
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	7. Electrical Box Components: accessible without stopping unit or opening doors
	8. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	9. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
8. [Energy Recovery Ventilators: FIT 120E-M-HC]
	1. Hard-connect system, no power cord provided.
	2. Warm supply and return air on the left-hand side
	3. Indoor, compact, residential Energy Recovery Ventilators
	4. General
9. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
10. Listed under CSA C22.2, No. 113/UL 1812
11. Wiring: NFPA 70
12. Performance: as scheduled on the Drawings
13. Equipped with a control system
14. Performs all functions necessary for operation
15. Capable of changing modes with no interruption to system operation
16. Capable of transferring sensible heat between the fresh and stale air streams
17. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design

	1. Unit Cabinet
18. Single Wall Cabinet:
19. 22-gauge G90 galvanized corrosion-resistant steel case
20. Seams: sealed, requiring no caulking in field
21. Duct Connections: 5 inch (127mm) round metal duct connections with rubberized seal
	* 1. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	1. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	2. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	3. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	4. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	5. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	6. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Flying leads to hard-connect appliance
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	7. Electrical Box Components: accessible without stopping unit or opening doors
	8. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	9. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
22. [Energy Recovery Ventilators: FIT 120E-D]
	1. Warm supply and return air on the right-hand side
	2. Indoor, compact, residential Energy Recovery Ventilators
	3. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	4. Unit Cabinet
		1. Single Wall Cabinet:
			1. 22-gauge G90 galvanized corrosion-resistant steel case
			2. Seams: sealed, requiring no caulking in field
			3. Duct Connections: 5-inch (127mm) round metal duct connections with rubberized seal
		2. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	5. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	6. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
			2. Electrical power: 24VAC
	7. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	8. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	9. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	10. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	11. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Factory wired for single-point power connection
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	12. Electrical Box Components: accessible without stopping unit or opening doors
	13. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	14. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
23. [Energy Recovery Ventilators: FIT 120E-D-HC]
	1. Hard-connect system, no power cord provided.
	2. Warm supply and return air on the right-hand side
	3. Indoor, compact, residential Energy Recovery Ventilators
	4. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	5. Unit Cabinet
		1. Single Wall Cabinet:
			1. 22-gauge G90 galvanized corrosion-resistant steel case
			2. Seams: sealed, requiring no caulking in field
			3. Duct Connections: 5-inch (127mm) round metal duct connections with rubberized seal
		2. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	6. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	7. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
			2. Electrical power: 24VAC
	8. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	9. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	10. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	11. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	12. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Flying leads to hard-connect appliance
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	13. Electrical Box Components: accessible without stopping unit or opening doors
	14. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	15. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
24. [Energy Recovery Ventilators: FIT 120E-D-M]
	1. Warm supply and return air on the left-hand side
	2. Indoor, compact, residential Energy Recovery Ventilators
	3. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	4. Unit Cabinet
25. Single Wall Cabinet:
26. 22-gauge G90 galvanized corrosion-resistant steel case
27. Seams: sealed, requiring no caulking in field
28. Duct Connections: 5 inch (127mm) round metal duct connections with rubberized seal
	* 1. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	1. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	2. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
			2. Electrical power: 24VAC
	3. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	4. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	5. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	6. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	7. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Factory wired for single-point power connection
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	8. Electrical Box Components: accessible without stopping unit or opening doors
	9. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	10. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
29. [Energy Recovery Ventilators: FIT 120E-D-M-HC]
	1. Hard-connect system, no power cord provided.
	2. Warm supply and return air on the left-hand side
	3. Indoor, compact, residential Energy Recovery Ventilators
	4. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	5. Unit Cabinet
30. Single Wall Cabinet:
31. 22-gauge G90 galvanized corrosion-resistant steel case
32. Seams: sealed, requiring no caulking in field
33. Duct Connections: 5 inch (127mm) round metal duct connections with rubberized seal
	* 1. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	1. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	2. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
			2. Electrical power: 24VAC
	3. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	4. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	5. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	6. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	7. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Flying leads to hard-connect appliance
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	8. Electrical Box Components: accessible without stopping unit or opening doors
	9. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	10. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
34. [Energy Recovery Ventilators: FIT 120E-D-EC]
	1. Warm supply and return air on the right-hand side
	2. Indoor, compact, residential Energy Recovery Ventilators
	3. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	4. Unit Cabinet
		1. Single Wall Cabinet:
			1. 22-gauge G90 galvanized corrosion-resistant steel case
			2. Seams: sealed, requiring no caulking in field
			3. Duct Connections: 5-inch (127mm) round metal duct connections with rubberized seal
		2. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	5. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	6. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	7. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
		4. Electrical power: 24VAC
	8. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	9. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	10. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	11. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Factory wired for single-point power connection
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	12. Electrical Box Components: accessible without stopping unit or opening doors
	13. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	14. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
35. [Energy Recovery Ventilators: FIT 120E-D-EC-HC]
	1. Hard-connect system, no power cord provided.
	2. Warm supply and return air on the right-hand side
	3. Indoor, compact, residential Energy Recovery Ventilators
	4. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	5. Unit Cabinet
		1. Single Wall Cabinet:
			1. 22-gauge G90 galvanized corrosion-resistant steel case
			2. Seams: sealed, requiring no caulking in field
			3. Duct Connections: 5-inch (127mm) round metal duct connections with rubberized seal
		2. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	6. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	7. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	8. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
		4. Electrical power: 24VAC
	9. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	10. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	11. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	12. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Flying leads to hard-connect appliance
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	13. Electrical Box Components: accessible without stopping unit or opening doors
	14. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	15. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
36. [Energy Recovery Ventilators: FIT 120E-D-M-EC]
	1. Warm supply and return air on the left-hand side
	2. Indoor, compact, residential Energy Recovery Ventilators
	3. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	4. Unit Cabinet
37. Single Wall Cabinet:
38. 22-gauge G90 galvanized corrosion-resistant steel case
39. Seams: sealed, requiring no caulking in field
40. Duct Connections: 5 inch (127mm) round metal duct connections with rubberized seal
	* 1. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	1. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	2. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	3. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
		4. Electrical power: 24VAC
	4. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	5. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	6. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	7. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Factory wired for single-point power connection
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	8. Electrical Box Components: accessible without stopping unit or opening doors
	9. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	10. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails
41. [Energy Recovery Ventilators: FIT 120E-D-M-EC-HC]
	1. Hard-connect system, no power cord provided.
	2. Warm supply and return air on the left-hand side
	3. Indoor, compact, residential Energy Recovery Ventilators
	4. General
		1. Each Unit or Group of Units: capable of operating in any mode independently or dependently of other systems
		2. Listed under CSA C22.2, No. 113/UL 1812
		3. Wiring: NFPA 70
		4. Performance: as scheduled on the Drawings
		5. Equipped with a control system
		6. Performs all functions necessary for operation
		7. Capable of changing modes with no interruption to system operation
		8. Capable of transferring sensible heat between the fresh and stale air streams
		9. Capable of operating in winter and summer conditions without imbalance or loss of ventilation capacity greater than specified in design
	5. Unit Cabinet
42. Single Wall Cabinet:
43. 22-gauge G90 galvanized corrosion-resistant steel case
44. Seams: sealed, requiring no caulking in field
45. Duct Connections: 5 inch (127mm) round metal duct connections with rubberized seal
	* 1. Insulation within a Single Wall:
			1. 1.0-in. (25-mm) of high-density polystyrene
			2. Material approved for use as per CSA C22.2, No. 113 / UL1812
	1. Cabinet Doors & Panels
		1. 22-gauge G90 galvanized corrosion-resistant steel case
		2. 1.0-in. (25-mm) high-density polystyrene covered with 0.25-in. (6-mm) closed cell flexible elastomeric foam insulation
	2. Fans
		1. Factory-balanced fans, backward curved blades
		2. Fan Motors:
			1. Maintenance-free, permanently lubricated, sealed ball bearings
			2. Thermal overload protected (TOP)
			3. UL listed to UL1004 and/or UL2111, CSA C22.2 No. 77 and No.100
			4. IP Protection: Class 44 according to IEC 60529
		3. Separate fan motor assemblies for supply and exhaust airstreams
	3. Damper Assembly
		1. Shutoff damper
		2. Construction:
			1. Polymeric
		3. Actuator, non fail-safe
			1. Non-spring return
		4. Electrical power: 24VAC
	4. Energy recovery core
		1. Construction: Polymeric transfer media contained by a polymeric frame. Material approved for use as per CSA C22.2, No. 113 / UL1812.
		2. Construction type: Cross-flow
		3. Recovery type: Both sensible and latent energy transfer
		4. Recovery effectiveness documented in accordance with CSA C439 as part of the Energy Recovery Ventilator
		5. Freeze tolerant and water washable.
	5. Air filters
		1. Supply and exhaust air protected by 2 MERV-3 washable electrostatic panel type air filters
		2. Optional MERV-8 or MERV-13 supply air filters can be added and used along with the standard MERV-3
	6. Frost prevention
		1. Frost prevention sequence (pre-set) initiated if the outdoor air temperature falls below the set point of 14°F (-10°C)
	7. Electrical 1 Phase Input Voltage
		1. Electrical Power: 120 VAC, 1 Phase, 60 Hz, MOP 15A
		2. Internal Electrical Components:
			1. Flying leads to hard-connect appliance
			2. UL Listed or Recognized and CSA Certified or Accepted where applicable and wired in compliance with the National Electrical Code
	8. Electrical Box Components: accessible without stopping unit or opening doors
	9. Electrical Box:
		1. Isolated from airflow paths
		2. Protect integral wires and connections
	10. Serviceability
		1. Access panel: hinged and/or screwed access panel on bottom of the unit
		2. Energy recovery exchangers, filters, and motors: serviceable from front of unit
		3. Fan assemblies: mounted on removable sliding base
		4. Energy recovery exchangers and filters: mounted on slide-out rails

**2.3 ACCESSORIES**

1. TVOC Sensing Control: model ECO-Touch®Auto IAQ
2. TVOC Sensing Control: model ECO-Feel®Auto IAQ
3. Dehumidistat: model MDEH 1
4. Wireless Timer (to ECO Touch®Auto IAQ only): RTS-W
5. Push-button Timer: RTS2
6. Push-button Timer: RTS5
7. Insulated Flex Duct: model FIDT 5
8. Plastic Supply/Exhaust Hoods: model COM5P
9. Metal Supply Grill: model MGS 5
10. Metal Exhaust Grill: model MGE 5

 **2.4 ASSEMBLY**

1. Factory assembled and wired energy recovery ventilators

**2.5 SOURCE QUALITY CONTROL**

1. Run test at factory

**PART 3. EXECUTION**

**3.1 EXAMINATION**

1. Examine areas to receive Energy Recovery Ventilators
2. Notify Architect of conditions that would adversely affect installation or subsequent use
3. Do not begin installation until unacceptable conditions are corrected

**3.2 PREPARATION**

1. Prepare surfaces where Energy Recovery Ventilators are to be mounted
2. Ensure surfaces are flat, level, plumb, and can support weight of Energy Recovery Ventilators

**3.3 INSTALLATION**

1. Install Energy Recovery Ventilators in accordance with manufacturer’s instructions at locations indicated on the Drawings
2. Unit is typically hung by using metal ceiling-installed mounting bracket supplied with unit
3. Optional chain kit available
4. Install Energy Recovery Ventilators in accordance with NFPA 70
5. Do not expose electronic components to temperatures below 32 degrees F (0 degrees C) or above 122 degrees F (50 degrees C)

**3.4 ADJUSTING**

1. Adjust Energy Recovery Ventilators for proper operation in accordance with manufacturer’s instructions

**3.5 DEMONSTRATION**

1. Demonstration
	1. Demonstrate that Energy Recovery Ventilators function properly in every respect
	2. Provide hands-on demonstrations of operation of system components and complete system, including user-level program changes and function
	3. Provide instruction and training by factory-trained and certified representative of manufacturer

**3.6 PROTECTION**

1. Protect installed Energy Recovery Ventilators from damage during construction

**END OF SECTION**