

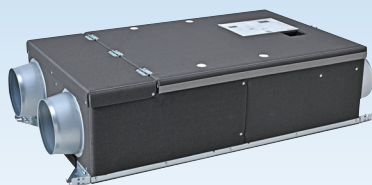
Residential Ducted Lossnay®

LGH-F110MXL-E and LGH-F110MXR-E

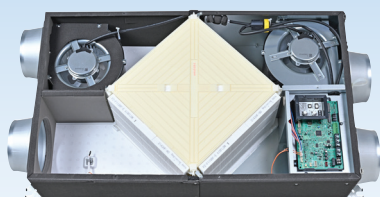


Introducing the Residential Ducted Lossnay Energy Recovery Ventilator (ERV)

A comfortable living environment requires a powerful, energy-efficient heating and cooling system, but also proper ventilation. Mitsubishi Electric offers a complete whole-home HVAC solution for single- and multi-family applications by addressing heating, cooling, and ventilation from a single manufacturer. For contractors and distributors, this can simplify system design, product selection, training, support, and sourcing while reducing the need to coordinate with multiple suppliers.



Ventilation solutions must provide filtered, outside air, while also supporting or improving the overall energy efficiency of the home. Modern construction often follows a more stringent building code meaning there is less ambient air infiltration than in the past. This can come with the drawback of trapping pollutants, moisture, odors, and stale air within the home, and thus intentional ventilation is required. Ideal for both new construction and retrofit applications, Residential Ducted Lossnay units are designed to provide balanced mechanical ventilation, which can help dilute indoor contaminant concentrations and help achieve acceptable indoor air quality (IAQ). They achieve this while also recovering energy from air leaving a space.



The Mitsubishi Electric Residential Ducted Lossnay unit is a sophisticated, HVI certified, Energy Recovery Ventilator (ERV). This whisper-quiet unit is installed within ductwork and filters outside air using a built-in MERV 10 filter or optional MERV 14 filter before distributing it through the home. By recovering energy from the outgoing air stream, the Lossnay core pre-treats the incoming air to prevent increasing the heating and cooling load in the home, allowing it to run all year round. The heat recovery of an ERV prevents the energy waste of exhausting air that has been conditioned by the heating and air-conditioning system.

With a height of less than 9.5 inches and a width of 20 inches, these units offer flexible installation. The advanced energy recovery technology of Residential Ducted Lossnay works in sync with intelligent defrost control to support ventilation performance in outdoor temperatures as low as -13° F.

Features and details

Features		
Flexible installation	With a height of less than 9.5", width of 20", and weight of 40 lbs, these units offer flexible installation, transportation, and storage. They can be mounted between joists, fixed to ceiling, suspended from ceiling, or horizontally wall mounted. There are left- and right-side units to suit the ventilation needs of the home.	
Pressure port	Units have an access port for contractors to measure pressure and balance airflow, allowing for easy commissioning, troubleshooting, and maintenance.	
In-house components	The motor, fan, core, and PCB components are designed, manufactured, and tested by Mitsubishi Electric to ensure the highest quality standards and maximized efficiency.	
Constant airflow	Residential Ducted Lossnay units offer selectable airflow settings from 40 to 110 CFM. These units provide constant airflow by automatically adjusting the fan rotational speed to maintain the selected airflow when static pressure changes occur. This simplifies ventilation installation, servicing, and design.	
Control method variety	Flexible control options include Mitsubishi Electric controls, M-NET compatibility, third-party thermostats, air handler interlocking, and dry contact and wet contact control options. This variety of control options allows for a customizable and user-friendly experience.	
HVI certification	Residential Ducted Lossnay units are listed in the Home Ventilating Institute (HVI) Certified Ratings Program, providing independent verification of performance metrics for the units, such as air flow performance and effectiveness in transferring heat or energy.	
Advanced filter options	Residential Ducted Lossnay units include a standard Minimum Efficiency Reporting Value (MERV) 10 filter designed to capture certain nonliving airborne particles, such as dust and smoke. An optional MERV 14 filter is available for enhanced particle filtration of nonliving airborne particles. Proper filtration may help reduce indoor particulate concentrations when the system is properly installed, operated, and maintained.	
Optional CO ₂ sensor control	Optional CO ₂ sensor control allows Residential Ducted Lossnay units to automatically adjust airflow based on indoor CO ₂ levels for more responsive ventilation control. The fan speed is adjustable between 25% and 100% and can be set to boost or nearly correlate with the CO ₂ concentration.	
Exhaust defrost	Residential Ducted Lossnay units include automatic low temperature defrost operation that adjusts supply fan operation to help protect the heat exchange core during cold outdoor conditions. This defrost method prevents the recirculation of stale, odorous, or polluted indoor air, maintaining indoor air quality during defrost cycles.	
Quiet operation	The unit offers whisper-quiet sound ratings as low as 23.5 – 25 dB(A)*. This allows for continuous operation without disturbing the end-user. *Depending on set airflow.	
Independent airflow control	With independent fan speed control of the supply and exhaust motors, Lossnay offers designers the option of balanced ventilation, as well as positive or negative pressurization.	
Cold climate performance	The energy recovery core allows for low ambient operation in cold climates. With smart defrost mode, Lossnay is guaranteed to perform in temperatures as low as -13° F.	
Efficiency		
Temperature exchange efficiency (%)*	Heating: 90% at 40 cfm 80% at 70 cfm 75% at 110 cfm	Cooling: 80% at 40 cfm 71% at 70 cfm 67% at 110 cfm

* 1.Please refer to technical documentation on MitsubishiPro.com for HVI ratings.
2.Efficiencies provided are tested in accordance with ISO 16494-1 testing standards



From system design through installation and long-term operation, Mitsubishi Electric solutions are built to support efficient performance, reliable comfort, and better indoor environments. Residential Ducted Lossnay units provide a continuous supply of filtered outside air, improved indoor air quality, better humidity control, and enhanced year-round comfort—all while supporting energy-efficient operation. Whether you're building a new home or upgrading an existing one, Residential Ducted Lossnay provides a smarter approach to whole-home ventilation.

See full details and technical documents at MitsubishiPro.com