

# Achieving Optimal Indoor Air Quality with Auto-Balancing HRV and ERV Systems: Why Reversomatic is the Top Choice?

## Introduction

Importance of **Auto-Balancing** HRV and ERV Systems;

HRV and ERV systems are designed to introduce fresh outdoor air while recovering the energy from the exhaust air, ensuring energy efficiency and maintaining a comfortable indoor environment. However, achieving a delicate balance between the incoming and outgoing airflows is crucial to maximize system efficiency and prevent issues that can compromise IAQ (indoor air quality). Auto-balancing HRV and ERV systems employ advanced sensors and controls to continually monitor and adjust airflow rates, regardless of external factors such as wind pressure or changes in air distribution. By dynamically adapting to varying conditions, these systems ensure a constant, balanced ventilation system. This technology not only prevents negative pressurization, excessive humidity, or inconsistent airflow but also optimizes energy consumption and reduces utility costs.

### **Reversomatic: The Leading Provider of Auto-Balancing HRV, ERV Systems:**

When it comes to auto-balancing HRV and ERV systems, Reversomatic stands out as a trusted and reputable brand. With an extensive track record in the industry, Reversomatic consistently delivers high-quality ventilation solutions that prioritize optimal air balance and performance. The following are Reversomatic auto balancing HRV, ERVs:

1. RERV-D100 (Enthalpy Core)
2. RERV-D100 ECM (Enthalpy Core)
3. RHRV-D100P (Polypropylene Core)
4. RHRV-D100PECM (Polypropylene Core)
5. RHRV-AB150 PECM (Polypropylene Core)
6. RERV-AB150 ECM (Enthalpy Core)
7. RERV-SL 100 ECM (Enthalpy Core)

### 1- RERV- D100 (Enthalpy Core)



### RERV-D100 ECM (Enthalpy Core)



Experience the exclusive ERV in the market (Canadian and US patents) that comes with cutting-edge True Automatic Electronic Air-Balancing and Constant Flow Technology, eliminating the need for any cumbersome field balancing. With our revolutionary features, you can enjoy hassle-free operation and optimal airflow control, setting a new benchmark in efficiency and convenience. Discover the unparalleled convenience of our ERV, designed to enhance your comfort while effortlessly maintaining a perfect balance of air throughout your space.

Reversomatic RERV-D100 and RERV-D100 ECM (Enthalpy Core) are game-changing solutions for superior indoor air quality. Designed with your comfort in mind, this state-of-the-art ventilation system offers a range of benefits that will transform your living spaces.

1. While both the RERV-D100 and RERV-D100 ECM models offer high efficiency and continuous operation, their difference lies in the type of motors they use. The RERV-D100 relies on PSC motors and the RERV-D100 ECM employs ECM motors. Ultimately, the choice between the two models would depend on the specific needs and priorities of the ventilation system application.

2. Year-Round Comfort: Equipped with a washable high-efficiency Dpoint Enthalpy core, this system is suitable for extreme temperatures as low as -25°C, ensuring optimal performance in any climate. Plus, its drainless design adds convenience and hassle-free maintenance.

3. Maximum Performance: The tilted core design of both models maximizes airflow efficiency, providing you with the most effective and consistent ventilation throughout your space.

4. All-Weather Reliability: Enjoy peace of mind with the fully automatic defrost feature that activates when temperatures drop below -5°C. This ensures uninterrupted operation, regardless of external conditions.

5. Customizable Options: Choose between recirculating (standard) and non-recirculating (optional) modes, allowing you to tailor the system to your specific needs and preferences.

6. Adjustable Speed Operation: Take control of your indoor environment with four different speed settings, offering flexibility and personalized airflow for ultimate comfort.

7. Versatile Installation: The RERV-D100 and RERV-D100 ECM are designed for horizontal and vertical installation, making it suitable for a variety of spaces and configurations, bringing fresh air wherever you need it most.

8. Optimal Airflow: Experience improved air circulation with an airflow range of 45-95 CFM during normal operation, ensuring a constant supply of fresh air throughout your home or suite.

9. Meets Safety Standards: Rest assured knowing that the RERV-D100 and RERV-D100 ECM comply with all relevant standards and building codes, guaranteeing a safe and reliable ventilation solution for your space.

10. Enhanced Control: The unique electronic control board of the RERV-D100 and RERV-D100 ECM allow the system to seamlessly resume its last memory mode when power is restored after an outage, maintaining your preferred settings effortlessly.

With a focus on your comfort and well-being, the Reversomatic RERV-D100 (Enthalpy Core) and RERV-D100 ECM (Enthalpy Core) are your trusted companions for exceptional indoor air quality. Experience its lightweight and compact design, weighing approximately 50 lbs., and enjoy the peace of mind that comes with a generous 2-year warranty on parts. Transform your living spaces into a haven of fresh, clean air with the powerful and reliable RERV-D100 & RERV-D100 ECM.

Explore more the exceptional features of the [RERV-D100](#) and [RERV-D100 ECM](#).

## 2- RHRV-D100P & RHRV-D100PECM (Polypropylene Core)

Reversomatic RHRV-D100P and RHRV-D100PECM (Polypropylene Core) are your ultimate solutions for exceptional indoor air quality. These innovative HRVs stand out from the competition as the only models in the market featuring a built-in true automatic electronic air-balancing and constant flow technology, eliminating the need for field balancing. Get ready to experience a new level of convenience and efficiency with these auto-balancing RHRVs.

1. True Automatic Air-Balancing: Say goodbye to complex field balancing procedures. The Reversomatic RHRV-D100P and RHRV-D100PECM come equipped with a groundbreaking automatic electronic air-balancing system, ensuring a perfectly balanced airflow throughout your space without any additional adjustments.
2. Continuous Operation: The permanently lubricated PSC motors are thermally protected, maximizing energy savings and minimizing maintenance requirements in RHRV-D100P and RHRV-D100PECM employs ECM motors. Ultimately, the choice between the two models would depend on the specific needs and priorities of the ventilation system application
3. Polypropylene Core: The washable polypropylene core and filters of the RHRV-D100P and RHRV-D100PECM are designed to withstand extreme temperatures as low as -40°C, ensuring optimal performance even in the harshest climates. Breathe easy knowing that your air is filtered and free from contaminants.
4. Maximum Efficiency: The tilted core design of the RHRV-D100P and RHRV-D100PECM maximize airflow efficiency, delivering consistent and efficient ventilation throughout your home or suite.
5. All-Weather Reliability: Enjoy peace of mind with the fully automatic defrost feature, activating when temperatures drop below -5°C. This ensures uninterrupted operation, maintaining a comfortable and healthy indoor environment regardless of external conditions.
6. Customizable Options: Choose between recirculating (standard) and non-recirculating (optional) modes to suit your specific needs and preferences. Enjoy the flexibility of adjustable 4-normal (low speed) and 4-high speed operation, giving you control over your indoor air quality.
7. Versatile Installation: The RHRV-D100P is designed for both horizontal and vertical installation, allowing you to seamlessly integrate it into your space for optimal ventilation performance.
8. Optimal Airflow: Experience improved air circulation with an airflow range of 45-95 CFM during normal operation, ensuring a constant supply of fresh, clean air throughout your home or suite.

9. Perfect for Homes and Suites: With a coverage area of up to 2000 sq. ft., the RHRV-D100P and RHRV-D100PECM are ideal for a wide range of residential spaces. Enjoy the benefits of fresh, filtered air throughout your entire living environment.

10. Uncompromising Quality: The Reversomatic RHRV-D100P and RHRV-D100PECM meet all industry standards and building code requirements, guaranteeing a safe and reliable HRV solution for your home. Additionally, the unique electronic control board allows the unit to seamlessly return to the last memory mode after a power failure, maintaining your preferred settings effortlessly.

With an approximate weight of 50 lbs., the RHRV-D100P is lightweight and easy to handle during installation. For your peace of mind, it comes with a generous 2-year warranty on parts, ensuring long-lasting performance and customer satisfaction. Upgrade your indoor air quality with the innovative features and exceptional performance of the Reversomatic RHRV-D100P and RHRV-D100PECM (Polypropylene Core). Embrace the benefits of auto-balancing technology and experience a healthier, fresher, and more comfortable living environment today

Explore more the exceptional features of the [RHRV-D100P](#) and [RHRV-D100PECM](#).

### 3- RHRV-AB 150 PECM (Polypropylene Core)



Introducing the Reversomatic RHRV-AB150 PECM (Polypropylene Core), our latest innovation in auto balance ECM technology. Experience the ultimate in comfort and efficiency with our cutting-edge RHRV model, designed to revolutionize your indoor air quality.



1. Auto Balance ECM: Our new series features state-of-the-art constant airflow technology, eliminating the need for manual balancing. Enjoy a perfectly balanced and consistent airflow throughout your space, effortlessly maintained by the RHRV-AB150 PECM.

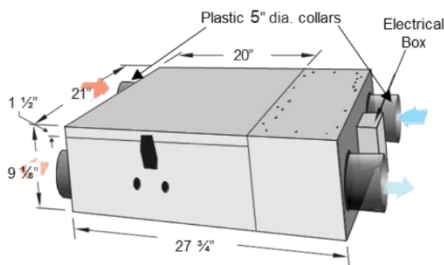
2. Continuous Operation: With high efficiency energy-saving ECM motors, this HRV ensures uninterrupted operation while optimizing energy consumption. The permanently lubricated ECM motors are thermally protected, providing long-lasting performance and peace of mind.

3. Polypropylene Core: The washable polypropylene core of the RHRV-AB150 PECM is engineered to withstand extreme temperatures as low as  $-40^{\circ}\text{C}$ , making it ideal for even the harshest climates. Breathe easy knowing that your air is filtered and free from impurities.

4. Maximum Efficiency: The tilted core design of the RHRV-AB150 PECM maximizes airflow efficiency, guaranteeing superior ventilation performance in your living spaces.

5. Automatic Re-circulating Defrost: Experience worry-free operation with the fully automatic re-circulating defrost feature, activating when temperatures drop below  $-5^{\circ}\text{C}$ . This ensures optimal functioning even in extreme cold weather conditions.

6. Adjustable Speed Operation: Take control of your indoor environment with two different variable speed settings, allowing for precise and constant airflow tailored to your specific needs. Enjoy customizable comfort at its finest.



7. Versatile Installation: The RHRV-AB150 PECM is designed for both horizontal and vertical installations, providing flexibility to fit seamlessly into any space. Experience the convenience of enhanced ventilation, no matter the configuration.

8. Optimal Airflow: Enjoy improved air circulation with an airflow range of 30-125 CFM during normal operation, reaching a maximum of 158 CFM. This ensures a constant supply of fresh, clean air throughout your home or suite.

9. Perfect for Homes and Suites: With a coverage area of up to 2000 sq. ft., the RHRV-AB150 PECM is ideal for a wide range of residential spaces. Experience the benefits of enhanced indoor air quality throughout your entire living environment.

10. Uncompromising Quality: The RHRV-AB150 PECM meets all industry standards and building code requirements, ensuring a safe and reliable HRV solution for your home. The unique electronic



control board allows the unit to seamlessly return to the last memory mode after a power failure, maintaining your preferred settings effortlessly.

With an approximate weight of 50 lbs., the RHRV-AB150 PECM is lightweight and easy to handle during installation. For your peace of mind, it comes with a generous 2-year warranty on parts, guaranteeing long-lasting performance and customer satisfaction.

Upgrade your indoor air quality with the innovative features and exceptional performance of the Reversomatic RHRV-AB150 PECM (Polypropylene Core). Embrace the benefits of auto balance ECM technology and enjoy a healthier, fresher, and more comfortable living environment today. Plus, with washable filters, maintenance is a breeze.

[Explore](#) more the exceptional features of the RHRV-AB 150 PECM

#### 4- RERV – AB 150 ECM (Enthalpy Core)

Introducing the Reversomatic RERV-AB150 ECM (Enthalpy Core), the epitome of innovation and performance in the HVAC industry. Experience the next level of comfort and efficiency with our groundbreaking auto balance ECM series, featuring constant airflow technology. Elevate your indoor air quality and enjoy a host of benefits with this exceptional RERV model.

1. Auto Balance ECM: Our new series takes ventilation to new heights with advanced auto balance ECM technology. Say goodbye to manual adjustments and let the RERV-AB150 ECM effortlessly maintain a perfectly balanced airflow throughout your space.

2. Continuous Operation: Powered by high efficiency energy-saving ECM motors, this RERV ensures uninterrupted operation while optimizing energy consumption. The permanently lubricated ECM motors are thermally protected, providing long-lasting performance and worry-free maintenance.

3. Enthalpy Core: The washable enthalpy core of the RERV-AB150 ECM is engineered to handle extreme temperatures as low as  $-25^{\circ}\text{C}$ , making it suitable for diverse climates. Its drain-less design adds convenience and simplifies maintenance.

4. Maximum Efficiency: With its tilted core design, the RERV-AB150 ECM maximizes airflow efficiency, delivering superior ventilation performance to enhance the comfort and air quality of your living spaces.

5. Automatic Re-circulating Defrost: Enjoy peace of mind with the fully automatic re-circulating defrost feature, activating when temperatures drop below  $-5^{\circ}\text{C}$ . This ensures uninterrupted operation and optimal functionality even in severe weather conditions.



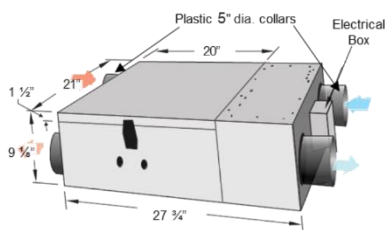
6. Adjustable Speed Operation: Tailor your airflow to perfection with ten different speed settings, offering precise control for constant flow applications. Experience a personalized level of comfort that suits your preferences.

7. Versatile Installation: Designed for both horizontal and vertical installations, the RERV-AB150 ECM provides flexibility and convenience. Create the perfect ventilation solution that seamlessly integrates into any space configuration.

8. Optimal Airflow: Benefit from improved air circulation with an airflow range of 30-125 CFM during normal operation, with a maximum airflow of 155 CFM. Enjoy a consistent supply of fresh, clean air throughout your home or suite.

9. Perfect for Homes and Suites: With a coverage area of up to 2000 sq. ft., the RERV-AB150 ECM is ideal for a variety of residential spaces. Experience the transformative power of enhanced indoor air quality throughout your living environment.

10. Uncompromising Quality: The RERV-AB150 ECM meets all industry standards and building code requirements, ensuring a safe and reliable solution for your ventilation needs. The unique electronic control board allows the unit to seamlessly return to the last memory mode after a power failure, maintaining your preferred settings effortlessly.



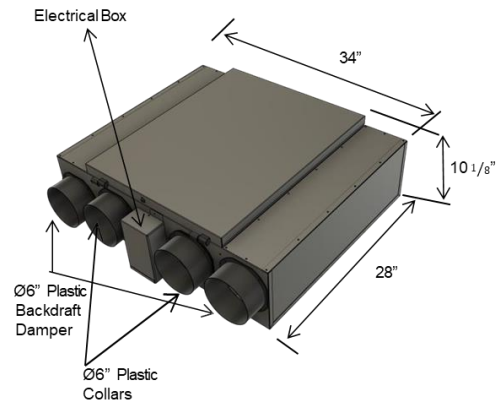
Weighing approximately 50 lbs., the RERV-AB150 ECM is lightweight and easy to handle during installation. For your peace of mind, it comes with a generous 2-year warranty on parts, guaranteeing long-lasting performance and customer satisfaction. Plus, with washable filters, maintenance is a breeze, ensuring continuous optimal performance.

Elevate your indoor air quality to new heights with the Reversomatic RERV-AB150 ECM (Enthalpy Core). Embrace the benefits of auto balance ECM technology and enjoy a healthier, fresher, and more comfortable living environment. Experience the future of ventilation with Reversomatic, where innovation meets excellence.

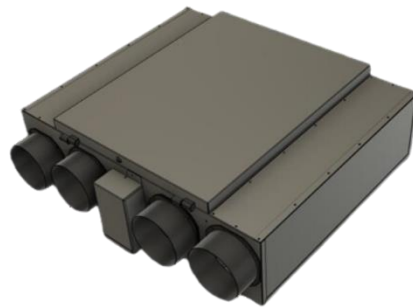
[Explore](#) more the exceptional features of the RERV – AB 150 ECM



## 5- RERV-SL 100 ECM (Enthalpy Core)



Introducing the Reversomatic RERV-SL100 ECM (Enthalpy Core), the epitome of sleek design and optimal performance in the HVAC industry. Experience the ultimate in ventilation with our Slim Line Multi Ports ECM Constant Flow Unit, featuring auto-balancing technology. Elevate your indoor air quality and enjoy a multitude of benefits with this exceptional RERV model.



1. **Slim Line Design:** The RERV-SL100 ECM boasts a slim and compact design, perfect for spaces where installation flexibility is key. Experience the convenience of a space-saving unit without compromising on performance.
2. **Constant Flow ECM Motors:** Powered by high efficiency energy-saving ECM constant flow motors, this RERV ensures continuous and reliable operation while optimizing energy consumption. The permanently lubricated ECM motors are thermally protected, providing long-lasting performance and peace of mind.
3. **Enthalpy Core:** The washable enthalpy core of the RERV-SL100 ECM is designed to handle extreme temperatures as low as -25°C, making it suitable for a variety of climates. Its drain-less design adds convenience and simplifies maintenance.
4. **Maximum Efficiency:** The tilted core design of the RERV-SL100 ECM maximizes airflow efficiency, delivering superior ventilation performance to enhance the comfort and air quality of your living spaces.
5. **Automatic Re-circulating Defrost:** Enjoy peace of mind with the fully automatic re-circulating defrost feature, activating when temperatures drop below -5°C. This ensures uninterrupted operation and optimal functionality even in severe weather conditions.
6. **Adjustable Speed Operation:** Customize your airflow to perfection with ten different speed settings, allowing for precise control and constant flow application. Experience a personalized level of comfort that suits your preferences.
7. **Versatile Installation:** Designed for both horizontal and vertical installations, the RERV-SL100 ECM provides flexibility and convenience. Its unique corner installation capability allows you to run all four ducts in one direction, optimizing airflow distribution.
8. **Optimal Airflow:** Enjoy improved air circulation with an airflow range of 30-125 CFM during normal operation, with a maximum airflow of 145 CFM in high-speed operation. Experience a constant supply of fresh, clean air throughout your home or suite.
9. **Perfect for Homes and Suites:** With a coverage area of up to 2000 sq. ft., the RERV-SL100 ECM is ideal for a variety of residential spaces. Enhance your indoor air quality and create a healthier living environment for you and your family.
10. **Uncompromising Quality:** The RERV-SL100 ECM meets all industry standards and building code requirements, ensuring a safe and reliable solution for your ventilation needs. The unique electronic control board allows the unit to seamlessly return to the last memory mode after a power failure, maintaining your preferred settings effortlessly.

Weighing approximately 60 lbs., the RERV-SL100 ECM is built with durability in mind. For your peace of mind, it comes with a generous 2-year warranty on parts, guaranteeing long-lasting performance and customer satisfaction. Plus, with washable filters, maintenance is a breeze, ensuring continuous optimal performance. Elevate your indoor air quality to new heights with the Reversomatic RERV-SL100 ECM (Enthalpy Core). Embrace the benefits of auto-balancing technology and enjoy a sleek, efficient, and

healthier living environment. Experience the future of ventilation with Reversomatic, where innovation meets excellence.

[Explore](#) more the exceptional features of the RERV-SL 100 ECM

Reversomatic's auto-balancing HRV systems incorporate state-of-the-art sensors and controls that automatically adjust airflow rates to maintain the desired balance. This ensures homeowners can enjoy a continuous supply of fresh air without compromising energy efficiency or indoor comfort. The auto-balancing feature sets Reversomatic apart, as it eliminates the need for manual adjustments and ensures consistent performance throughout changing weather conditions and occupancy patterns.

### **Why Choose Reversomatic?**

1. **Superior Performance:** Reversomatic offers both auto-balancing HRV and ERV systems that provide exceptional performance and energy efficiency. These systems optimize airflows, delivering consistent ventilation while saving energy. With up to 90% heat recovery, Reversomatic's systems maximize energy efficiency by utilizing the heat energy from the exhaust air to preheat incoming fresh air, reducing heating system load and lowering energy bills.
2. **Advanced Technology:** Reversomatic integrates cutting-edge technology into their auto-balancing HRV and ERV systems, ensuring precise control and seamless operation. Intelligent sensors and controls continuously monitor and adjust airflow, adapting to changing conditions for optimal performance. Intelligent humidity sensors automatically adjust airflow to maintain ideal moisture levels, preventing excessive humidity or dryness. This technology guarantees a reliable and effective ventilation solution for a comfortable and healthy indoor environment.
3. **Improved Indoor Air Quality (IAQ):** Reversomatic's auto-balancing HRV and ERV systems significantly enhance IAQ by efficiently removing stale air, excess humidity, and contaminants. The balanced ventilation ensures a continuous supply of fresh air, reducing the risk of indoor pollutants and allergens. Optional high-performance filters capture fine particles and allergens, providing added protection. The heat recovery process helps maintain consistent temperature and humidity levels, ensuring a comfortable living environment.
4. **Reliability and Durability:** Reversomatic is known for manufacturing reliable and durable ventilation products. Their auto-balancing HRV and ERV systems are built to last, providing long-lasting performance and peace of mind. The robust construction ensures efficient and reliable operation, reducing maintenance requirements and costs. Reversomatic's commitment to quality and durability is backed by comprehensive warranties and responsive customer support.
5. **Industry Expertise:** With years of experience, Reversomatic is an industry leader in ventilation technology. Their expertise allows them to design and produce top-of-the-line auto-balancing HRV and ERV systems that meet the highest standards of performance, quality, and safety. Reversomatic stays up-to-date with advancements in ventilation technology, providing customers with state-of-the-art products for exceptional IAQ solutions.

6. Easy Installation and Integration: Reversomatic's auto-balancing HRV and ERV systems are designed for seamless installation and integration into residential spaces. They offer a range of models suitable for different home sizes and layouts. Reversomatic provides comprehensive installation guides and support to ensure a smooth and hassle-free setup process. Their systems are also compatible with smart home integration, allowing convenient monitoring and control of ventilation settings through mobile applications or home automation systems.

7. Environmental Responsibility: Reversomatic prioritizes sustainability and environmental responsibility in their product design and manufacturing processes. By maximizing energy efficiency, reducing emissions, and minimizing waste, Reversomatic's auto-balancing HRV and ERV systems contribute to a greener and more eco-friendly home environment. Choosing Reversomatic demonstrates a commitment to reducing your carbon footprint and preserving natural resources.

Experience the superior performance, advanced technology, and improved IAQ provided by Reversomatic's auto-balancing HRV and ERV systems. With their reliability, industry expertise, and environmental responsibility, Reversomatic offers the ideal ventilation solutions for a healthier and more energy-efficient home.

## Conclusion

In conclusion, Reversomatic offers a range of exceptional auto balancing models that set the standard in the market. These models include the:

1. RERV-D100 (Enthalpy Core)
2. RERV-D100 ECM (Enthalpy Core)
3. RHRV-D100P (Polypropylene Core)
4. RHRV-D100PECM (Polypropylene Core)
5. RHRV-AB150 PECM (Polypropylene Core)
6. RERV-AB150 ECM (Enthalpy Core)
7. RERV-SL 100 ECM (Enthalpy Core)

With their advanced auto balancing technology, these models provide a perfectly balanced airflow without the need for manual adjustments. Reversomatic's auto balancing models ensure optimal ventilation, enhanced indoor air quality, and energy efficiency. Choose Reversomatic for the best auto balancing RERV and RHRV systems on the market, and enjoy a healthier, more comfortable living environment.

Explore our complete range of ventilation and cleaning products at [Reversomatic.com](https://www.reversomatic.com). From HRVs, ERVs, fans, and hoods to air cleaners and accessories. Shop conveniently on our [website](#) or find parts on [Amazon](#) and [Walmart](#). Create a healthier environment for your home or business with Reversomatic.