

Your Guide to HRV & ERV Systems

Understand your ventilation system, why it needs professional care, and how GreenPump Care maintains it.

★★★★★ 5.0 | "Best cleaning service in Halifax" -- Google Review

● BBB A-RATED ● LICENSED #4615849 ● ECO-FRIENDLY PRODUCTS ● 100% SATISFACTION

WHAT'S INSIDE

Everything you need to know about your HRV/ERV

- 1 What HRV & ERV Systems Do**
How your ventilation system works and why every Nova Scotia home benefits from one.
- 2 Why Professional Maintenance Matters**
What happens when your system is neglected and how regular cleaning protects your home.
- 3 Our Professional Cleaning Process**
Step-by-step breakdown of what our technicians do during every HRV/ERV service visit.

\$129

Service Price

Professional deep clean for your HRV/ERV system

From \$15/mo

Care Plans

Regular maintenance with 10-20% off all services

Every Visit

Documented

Before & after photos plus written service report

SECTION 1

What HRV & ERV Systems Do

An HRV (Heat Recovery Ventilator) or ERV (Energy Recovery Ventilator) is a mechanical ventilation system that brings fresh outdoor air into your home while exhausting stale indoor air -- all while recovering up to 80% of the heat energy that would otherwise be lost. In Nova Scotia's climate, where homes are tightly sealed for energy efficiency, an HRV/ERV is essential for healthy indoor air.

HRV vs. ERV -- What's the Difference?

HRV

Heat Recovery Ventilator

- ✔ Transfers heat between air streams
- ✔ Best for cold, dry climates (like NS winters)
- ✔ Does NOT transfer moisture
- ✔ Ideal when indoor humidity is adequate

ERV

Energy Recovery Ventilator

- ✔ Transfers both heat AND moisture
- ✔ Ideal for very dry or very humid climates
- ✔ Helps balance indoor humidity levels
- ✔ Better for homes with humidity issues

How Your System Works

1

Fresh Air In

The system draws fresh outdoor air through a dedicated intake duct and passes it through the heat exchange core.

2

Heat Exchange

Inside the core, the outgoing warm indoor air transfers its heat to the incoming cold outdoor air -- recovering up to 80% of the energy without the two air streams mixing.

3

Stale Air Out

Stale, humid indoor air from kitchens, bathrooms, and living spaces is exhausted outside through a separate duct.

4

Filtered & Balanced

Filters on both the intake and exhaust sides remove dust and particles. Dampers balance airflow to maintain proper pressure throughout your home.

Key Benefits for Nova Scotia Homes

Reduces condensation and mold risk | Removes indoor pollutants and allergens | Lowers heating costs by recovering energy |
Required by Nova Scotia building code for new builds

SECTION 2

Why Maintenance Matters

Your HRV/ERV runs continuously to keep your indoor air fresh. Over time, filters clog, the heat exchange core collects dust and moisture residue, and condensate drains can become blocked. Without regular professional cleaning, your system loses efficiency and your air quality suffers.

1 Clogged Filters

HRV/ERV filters trap dust, pollen, and particles from both incoming and outgoing air. When clogged, airflow drops significantly -- your system works harder, moves less air, and can't properly ventilate your home. This leads to stuffiness, excess humidity, and higher energy consumption.

2 Dirty Heat Exchange Core

The core is where heat transfer happens. Dust, grease particles, and moisture residue coat the surfaces over time, reducing heat recovery efficiency. A dirty core means more of your heating energy escapes outdoors instead of being recovered.

3 Blocked Condensate Drain

In heating mode, moisture condenses inside the unit and drains through a small line. Algae, dust, and debris can clog this drain, causing water to pool inside the unit. This creates a breeding ground for mold and can damage internal components.

4 Obstructed Intake & Exhaust

Outdoor intake and exhaust hoods collect leaves, insects, snow, and debris -- especially in Nova Scotia's variable weather. Blocked vents reduce airflow and can cause the system to short-cycle or shut down entirely.

5 Imbalanced Airflow

Over time, dampers can drift out of adjustment, causing unbalanced air pressure in your home. This can lead to drafts, doors that won't close properly, and inefficient ventilation where some rooms get fresh air while others remain stale.

**A neglected HRV/ERV means poor air quality, wasted energy,
and potential moisture damage to your home.**

SECTION 3

Our Professional Cleaning Process

Every GreenPump Care HRV/ERV service follows a comprehensive process. Here's exactly what our technicians do to keep your ventilation system running at peak performance.

Service Price: \$129

- ✔ Remove and clean both intake and exhaust filters
- ✔ Remove heat exchange core from unit
- ✔ Deep clean core with approved solution
- ✔ Vacuum interior housing and all ductwork ports
- ✔ Clear and treat condensate drain and trap
- ✔ Clean outdoor intake and exhaust hoods
- ✔ Inspect and adjust dampers for balanced airflow
- ✔ Test control board, switches, and wiring
- ✔ Verify fan speeds and airflow balance
- ✔ Document with before-and-after photos

Every Visit Includes

- ✔ Before & after photos
- ✔ Written service report
- ✔ Performance check
- ✔ Eco-friendly products

Recommended Maintenance Schedule

Minimum	1 professional deep clean per year
Recommended	2 deep cleans per year (spring + fall)
Filters	Check every 2-3 months, clean or replace as needed
Core	Professional cleaning annually during deep clean

Save with a Care Plan

HRV/ERV Care Plans start at \$15/mo (Essential) with 1 service cleaning/year and 10% off all services. Comfort (\$25/mo) includes 2 service cleanings and 15% off. Complete (\$40/mo) gives you 4 service cleanings and 20% off with VIP priority booking. No cancellation fee -- cancel anytime.

Book Your HRV/ERV Cleaning Today

Or ask about our Care Plans for automatic maintenance + savings

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