

What's **inside** matters.

ERV Cores by  **dpoint**
technologies

The dPoint Core Solution: A Revolution in ERV Technology

dPoint Technologies

manufactures a high performance Energy Recovery Ventilator (ERV) Core for the Heating, Ventilation and Air Conditioning (HVAC) industry featuring an advanced polymer membrane that provides significant health benefits and energy savings for buildings and their occupants.

Healthy indoor air

With half of all illnesses attributable to indoor airborne contaminants, the EPA has declared indoor air quality a public health priority. The dPoint ERV improves indoor air quality for residential and commercial buildings through the use of its unique and robust polymer membrane featuring Microban™ antimicrobial protection, making it the healthiest core available.



- One of the only cores that incorporates antimicrobial protection in the manufacturing process

- Advanced polymer material resists mold, fungus and bacteria growth
- Proprietary membrane blocks odors and contaminants from crossing over into the fresh air stream while not inhibiting energy transfer
- Water washable membrane allows the ERV to be cleaned thoroughly
- UL flame and smoke certified

High efficiencies and quick payback

dPoint's advanced polymer membrane, innovative core design and continuous pleating manufacturing process enables its ERV core to increase system efficiencies and energy savings for residential and commercial buildings.

- Recovers more than 80% sensible energy
- Recovers more than 40% latent energy which cannot be achieved by aluminum or plastic HRV cores

How dPoint's Polymer ERV Cores Compare to Other Cores

	DPoint	Paper	Aluminum HRV	Plastic HRV
Latent Recovery	✓	✓		
Low Air Leak	✓	✓	✓	✓
Microban™ Antimicrobial Protection	✓			
Flame Resistant	✓	✓	✓	
Water Washable	✓		✓	
Freezable	✓		✓	✓
Competitive Cost	✓	✓		✓

- Higher efficiencies from a clean core that is water washable to remove dust and dirt
- Low pressure drop
- Customized to fit – scalable and flexible
- Next generation membrane and counter flow core design will further increase efficiencies and cost savings
- Patents pending on manufacturing process and membrane materials

Robust and reliable membrane

Superior to existing paper-based cores, dPoint's ERV Core is manufactured from a durable polymer membrane that enables energy recovery systems to

increase their total efficiency, operate in extreme climates and ensure the cleanest air possible.

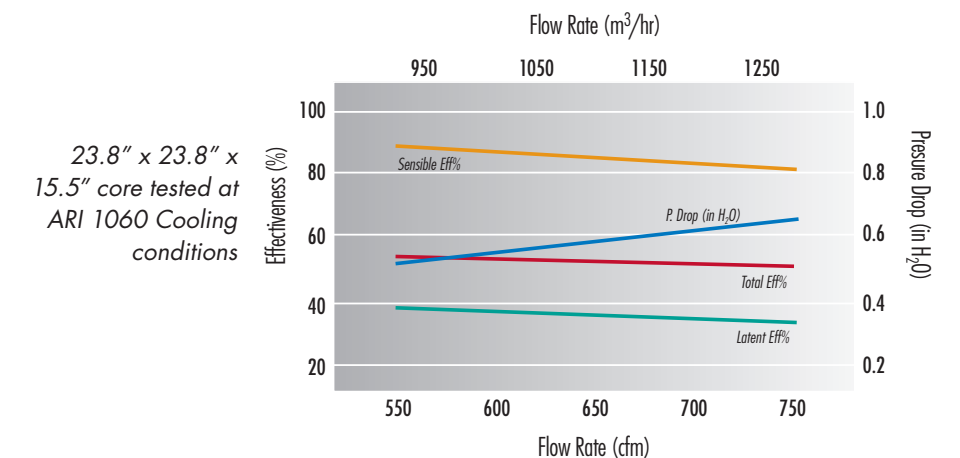
- 5 year warranty
- Tear and leak proof
- Endure harsh temperatures: effective in warm *and* cold climates
- System function and air cross-over doesn't degrade with time

ERV Applications

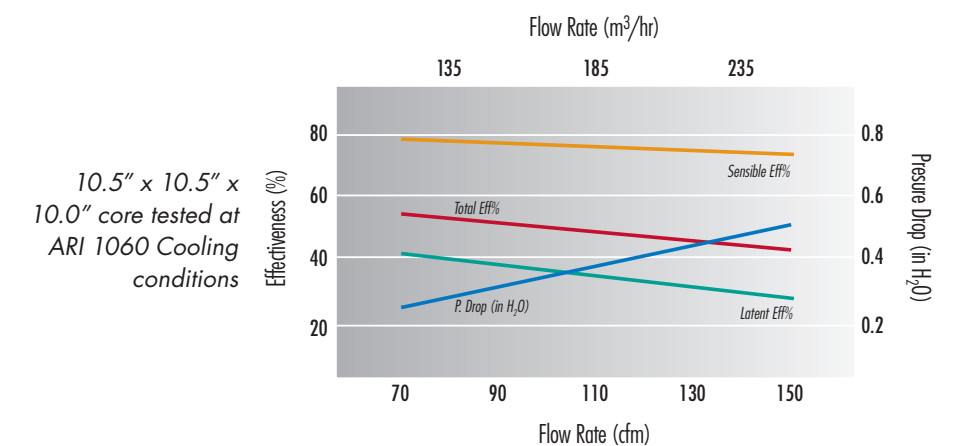
dPoint ERV Cores have been designed for a wide range of commercial and residential building types including hospitals and schools where superior indoor air quality is critical.

- Homes and High Rise Dwellings
- Schools and Universities
- Hospitals, Labs and Care Facilities
- Restaurants and Food Processing Facilities
- Entertainment and Gambling Venues (Casinos, Arenas)
- Office and Government Buildings
- Manufacturing Facilities

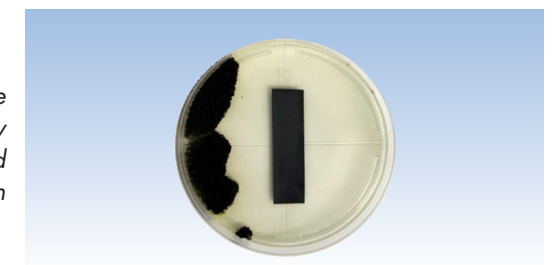
Commercial ERV Core Performance



Residential ERV Core Performance



dPoint Polymer Membrane with Microban™ actively inhibits mold, fungus, and bacteria growth



Manufacturing & Testing Capability

dPoint's focus on manufacturing excellence ensures quality and high performance products are consistently delivered on-time to our valued customers.

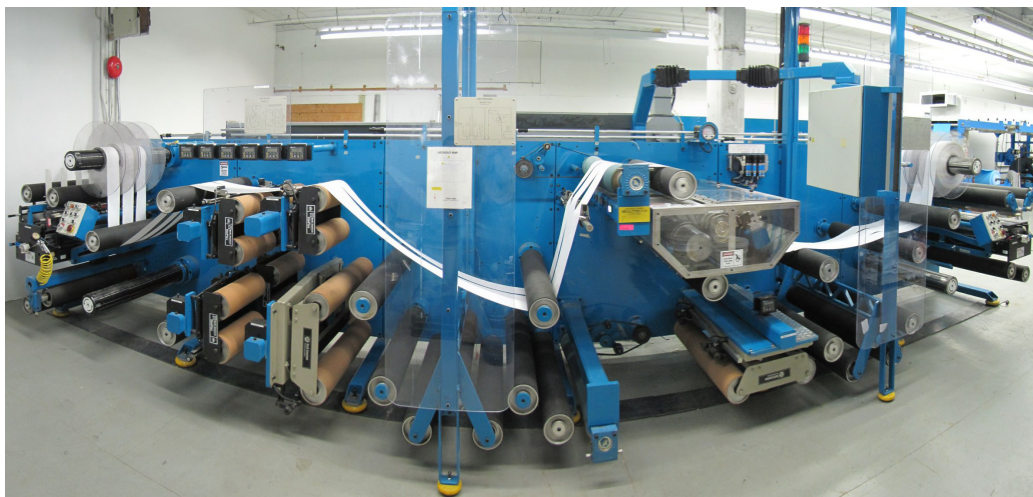
Scaleable and Efficient

Manufacturing – Investments in high volume automated production equipment for manufacturing our polymer membrane and ERV cores enable significant capacity to deliver and meet the growth of dPoint's customers.

Comprehensive Quality

Control – An exceptional Quality Management System ensures the highest quality standards are met throughout the manufacturing process.

Flexible Production – Versatile manufacturing methods allow dPoint to produce a wide range of ERV core sizes up to 600mm cubed that can be customized to meet customers' specific requirements.



High volume automated polymer membrane slitter/rewinder at dPoint manufacturing facility

Testing Capability – dPoint has the added advantage of internal testing equipment and expertise in addition to using state-of-the-art facilities through our strong partnership with the National Research Council of Canada. Testing capabilities include:

- Membrane Water Vapour Transport
- Membrane Air Cross-Over and Exhaust Air Transfer Ratio (EATR)

- ERV Core Latent and Sensible Effectiveness
- ERV Core Air Cross-Over and Exhaust Air Transfer Ratio (EATR)
- ERV Core Pressure Drop
- Durability
- Cold Climate



Streamlined processes enable dPoint the flexibility to customize our ERV products.



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