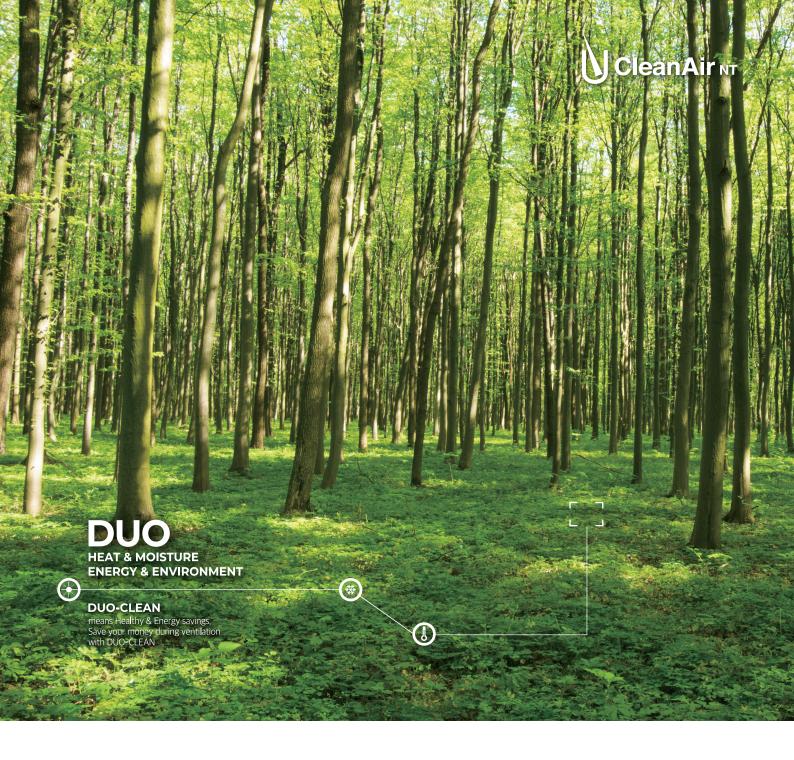
BETTER ENVIRONMENT | BEST INDOOR AIR QUALITY

DUO-CLEAN THE ERV & HRV CORE







The Best Choice for Health and Energy Conservation

DUO-CLEAN™

DUO-CLEAN ERV CORE is THE WORLD BEST PERFORMANCE ERV CORE

The DUO-CLEAN device considers health first.

All materials satisfy the RoHS (Human Hazard) test and are harmless to the human body. The main material is a healthy product with antibacterial properties. Both sensible and latent heat efficiency perform well in any environment Maximize energy recovery. Clean working surfaces minimize pressure drop and reduce power consumption.

■ The world best membranes used for ERV and HRV.

- · World's best thermal performance.
- · Prolonged durability and stability.
- ·Flammability qualified with UL 723.
- · Eco-friendly materials used.

■ Specialized fine cutting process.

· A precise, clean appearance improves assembly and minimizes loss of air volume

■ Technical advantages.

- · Designed using in-house thermal prediction software.
- · Accumulated test data and pre-certification test.
- · Technical support including size optimization and unit design.

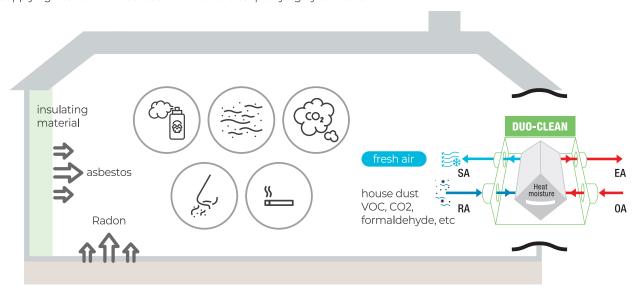
Energy / Heat Recovery Ventilator?



An Energy Recovery Ventilator (ERV) / Heat Recovery Ventilator (HRV) is an equipment that transfers heat (and moisture) between intake and exhaust air streams in a building's ventilation system. The key component of an ERV / HRV system is the heat exchanger core which exchanges heat (sensible energy) and moisture (latent energy). By transferring heat (and moisture) from incoming air to exhaust air during the summer, an ERV / HRV system can reduce the load on the air conditioning system dramatically. During the winter, the same system will transfer heat (and moisture) from the exhaust air into the coming stream to reduce the load on the furnace or heating system.

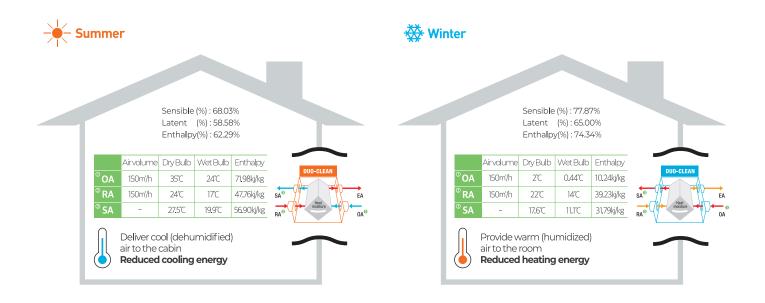
Indoor Air Quality

- 1. Exhausting contaminated materials in indoor air
- 2. Supplying fresh air from outdoor into indoor after purifying by air filters.



Energy Saving

- 1. Heat and moisture recovering through the heat exchanger.
- 2. Enthalpy efficiency for summer is more than 50% and 70% for winter.



DUO-CLEAN ERV CORE

DUO-CLEAN™ Type-EP

Paper Type ERV Core





 World best performance ERV core
 Using specially developed paper our performance is the best in the world.

· Korean raw materials

All the technologies applied to our ERV core is the pure in-house technologies. And best solution for humid climate.

· Precise performance expectation and design proposal.

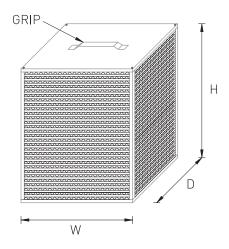
Using our massive test data and performance prediction software, we could propose perfect size and performance.

Benifits of **DUO-CLEAN ERV CORE**

Recover Heat and Moisture with DUO-CLEAN					
Raw Materials	Specialized materials for ERV and HRV cores. Environment friendly materials				
Quality	Reliable durability & stability Specialized fine cutting process Low pressure drop				
Cost Saving	Trouble free operation +No moving parts. Rapid payback +high level of effectiveness				
		1			
	RoHS	Hazardous			
report card and	UL723	Flammability			
Certificates	KS F2819	Ignitability			
	ASTM G-21	Aiti-fungus			
		I			

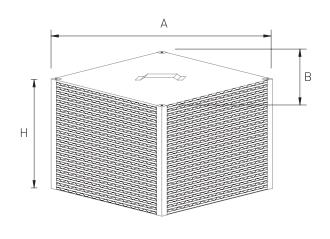
Features & Specification of DUO-CLEAN ERV & HRV CORE

■ Square Type **DUO-CLEAN**™



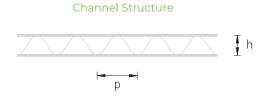
- · Best solution to TOP-MOUNT ERV.
- \cdot Optimum performance with low price.

lacktriangle Diamond Type **DUO-CLEAN** $^{\mathrm{TM}}$

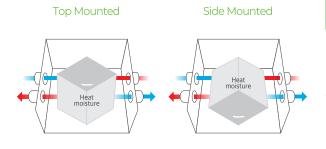


- •Best Solution to SIDE-MOUNT ERV.
- •Maximum performance with reasonable price

DUO-CLEAN ERV & HRV CORE



h (mm)		Туре		
			EM	HP
1.8	4.8	0	-	-
2.0	4.8	0	-	-
2.6	5.6	0	-	-
4.0	9.6	0	0	0



Content	Efficiency (%)	ERV		HRV
			EM	HP
Cooling	Enthalpy	59.4	56.5	32.6
	Sensible	74.5	69.3	72.0
	Latent	46.4	45.4	-
Heating	Enthalpy	77.1	71.1	63.5
	Sensible	82.6	79.5	82.9
	Latent	64.3	51.5	-

DUO-CLEAN HRV CORE

DUO-CLEAN™ Type-HP

Polymer Type HRV Core





· Flexible in size.

Not like conventional HRV cores, our Type-HP could meet your request in millimeter range.

· Competitiveness of price.

Compare to metallic HRV cores, Type-HP is economical.

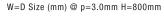
• Reduce costs with excellent energy recovery efficiency Maximize.

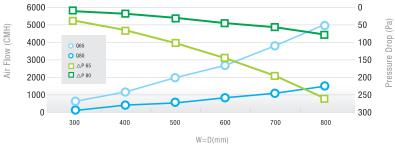
· Great durability.

Type-HP is durable not only for their structures but also for their resistances to water condensate, corrosion, salt and chemicals.

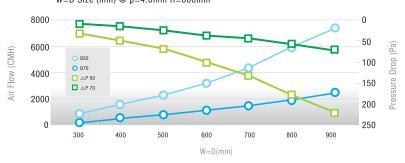
· Make your system more special.

Our Type-HP provide premium characteristic to your products.
Make your system more special with DUO-CLEAN.





W=D Size (mm) @ p=4.0mm H=800mm



DUO-CLEAN

Healthy & Energy saving for us and earth.

Heat Exchangers (ERV, HRV cores) recuperate the heat and moisture between exhausting air and supplying air so reduce the energy loss while ventilating. It also helps to improve the IAQ through air-filters in it.

Maintain strict quality control of ERV core membrane







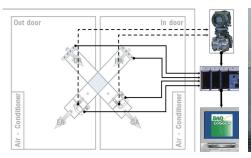
Air & Moisture Permeability Test







Air Leakage Test



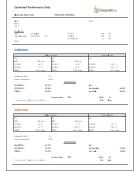




Efficiency Test











Certificated