

Why Choose oji's Paper ERV CORE ?

KEY FEATURES

1 +2,400,000 Cores

Oji group, has more than 145 years of history and is the largest paper manufacturer in Japan. Since establishing our ERV core business in 1990, we have shipped more than 2.4 million cores to the ERV market. Currently, we do business with more than 30 companies around the world and produce over 250,000 cores per year.

2 Environmental Friendly Specialty Paper Core

Oji's ERV core is composed of patented specialty paper made from trees that are reforested for future sustainability.

3 Healthy Core makes us Comfort

Oji's advanced and extremely thin base paper transfers both heat and humidity from one air stream to another. This maintains indoor air conditions at an optimum level, while blocking almost all the inflow of gases, odors, VOC's and other contaminated compounds. In doing so, the core prevents most of the health problems caused by mold, bacteria growth, viruses and dust mites.

4 Cost Competitive with High Performance

In order to meet the requirements of ERV manufacturers throughout the world, we have developed our ERV cores to be cost competitive while performing at the highest levels.

Sensible Energy Efficiency:	more than 80% *1
Latent Energy Efficiency:	more than 60% *1
Low Pressure Loss:	less than 65Pa*1

*1 a simulated value that cannot be guaranteed.

5 Simple Maintenance

As a specialty paper-based product, Oji's core does not need to be soaked in soapy lukewarm water or set out to dry. The only care required is an annual cleaning with a vacuum to remove dust and other contaminants. Moreover, the core functions for 10 years before reaching the end of its service life and requiring replacement.

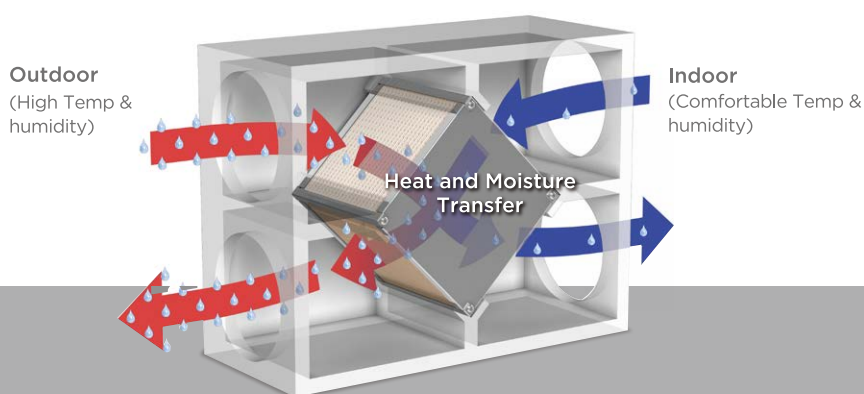
6 No Freezing inside

Unlike in the case of a membrane film (polymer) core, the outstanding moisture absorbent capability of Oji's specialty paper enables its core to prevent water droplets from freezing inside the core.

Square



How it works (in the Summer season)



1) Liner paper

Specification	Standard value
Basis weight *2	35±10g/m ²
Thickness *2	30±10 μm
Air permeability *3	200 seconds or more
Moisture absorption rate *2	38% or less
Moisture permeability *3	2,700 g/m ² • 24h or more

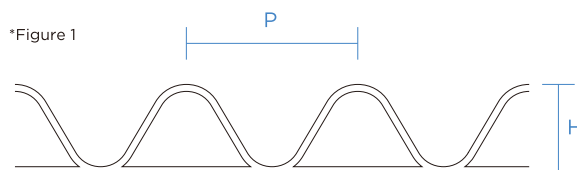
*2 at 23°C, 50%RH measurement

*3 at 20°C, 65% RH measurement

2) Cell dimensions

H(mm)	1.66	1.8	2.0	2.5	3.3
P(mm)	4.9	4.9	4.9	5.8	5.9

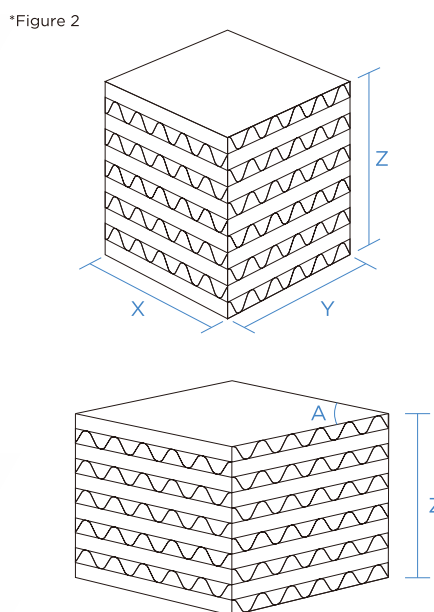
*Refer to Figure 1



3) Customized to fit- scalable and flexible

	(mm)	Minimum	Maximum
Square	X	130	525
	Y	130	525
	Z	130	525
Diamond	Z	130	525
	A	Above 45°	

*Refer to Figure 2



4) Fire Retardant Grade 2

(Equivalent to JIS A1322, Flame retardant test method)

5) Antifungal standard

No proliferation of fungi (Equivalent to JIS Z2911, Antifungal test method)

6) Endure harsh conditions

effective in warm and cold weather, tolerant against freezing

	Use conditions	Storage conditions
Temperature (°C)	-15-50	-20-70
Relative humidity (%)	30-85	25-85

It should be used below the absolute humidity, 0.046kg/kg (40°C, 95%RH)

