



Perfecting the Air

**C/N solution:
Healthy and Energy Efficient AC system for ASEAN market**


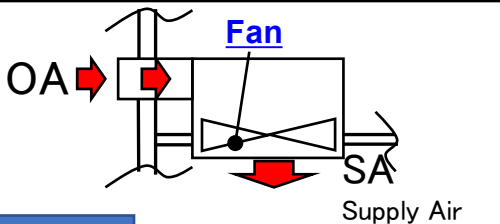
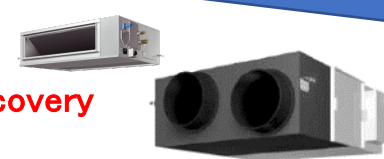
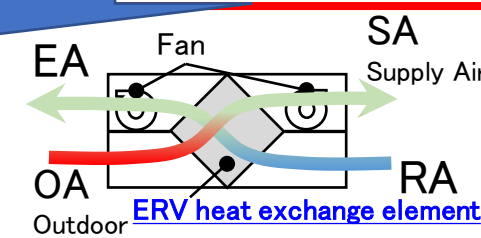

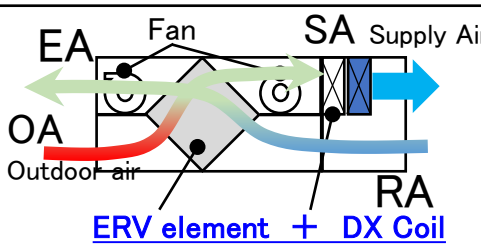
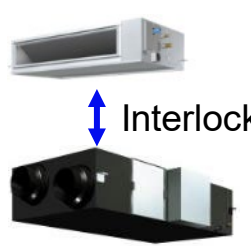
16th of February 2023



3) For Carbon neutrality goals

Newly Proposed AC Systems for achieving C/N

- Promoting ventilation and air conditioning systems that can simultaneously achieve energy saving and comfort
 - Replacing normal ventilation with a total heat exchanger(ERV) reduces the load of heat and moisture from the outside air, making it comfortable to use even at a set temperature of 26°C

	System	Overview of System
<p>Current System</p>	<p>A.</p>  <p>AC+natural ventilation (23°C Setting)</p> 	<p>Unprocessed outdoor air is supplied through ventilation. AC is set at 23°C for dehumidification and cooling.</p>
<p>Newly Proposed System</p>	<p>C.</p>  <p>AC+Energy Recovery Ventilator (ERV) (26°C Setting)</p> 	<p>Ventilation is changed to ERV. Ventilation heat load is reduced by heat recovery.</p>
	<p>D.</p>  <p>AC+ERV with DX Coil (26°C Setting)</p> 	<p>Ventilation is changed to ERV with DX coil. Heat recovery and further cooling of supply air is possible.</p>
	<p>E.</p> <p>AC+ERV with DX Coil (Positive Pressure) +CO2 Control +Interlock control with AC (26°C Setting)</p> 	<p>【Positive Pressure Control】 Reduce air infiltration (and heat load) by positive pressure with SA+20% .</p> <p>【CO2 Control】 Automatically reduce ventilation air flow when CO2 levels are low (few people)</p> <p>【Interlock Control】 Stop AC and cool with outdoor processed air when heat load levels are low.</p>

Thank you for your attention.