Highly Reliable and Energy Saving Air Conditioning Systems

**High Reliability**

- Fully Hermetic Cycle (Proven track record starting in the 1950s)
  - CONDENSER
  - FILTER DRYER
  - CAPILLARY TUBE
  - ACCUMULATOR

- No Gasket Seal
- No Thread and No Flange
- Reduce mechanical devices

- Saves Maintenance Work
- Saves Service Parts Stock
- Saves LCC

**Energy Saving Proposal**

- Heat Pump Operation
  - Cooling
  - Heating
  - Heat Pump Operation Energy Recovery

- Energy Recovery Ventilation with Lossnay

**Various Types of Controllers Available**

- Temperature Controller
  - double-Euro-size PCB
  - 4 slots standard config.
  - 1. Power Supply
  - 2. I/O
  - 3. Communication I/F
  - 4. Control
  - (5. Back Board)

  "Communication I/F Board" available

  various COMM. PROTOCOL applicable

- Reduction of power consumption
  - 50% reduction compared to Electric Heater
  - Reduce power consumption for Air Conditioning System

- Cooling: 10% Energy reduction
- Heating: 60% Energy reduction
High Efficiency of Main Components

Condenser Fan

- The combination of winglet fan & backward-curved blade
- Reduces swirl at the blade ends & realizes the high efficiency, noise reduction

Evaporator/Condenser Coil

- Minimizes diameter of pipe for Evaporator/Condenser Coil
- Reduces the size of heat exchanger & volume of refrigerant

Compressor Capacity Control

- Returns a part of refrigerant in the compression process to a low pressure side
- Realizes capacity control
- The combination of multiple compressors
- Enables multiple stages of refrigeration capacity control ex.) 100-85-70-50-35-0%

Experienced Manufacturer

We have supplied over 150,000 HVAC units all over the world since the 1950s, and have experience with HVAC units of various types and capacities.

Type of HVAC UNIT

<table>
<thead>
<tr>
<th>Roof Mounted</th>
<th>Under Floor</th>
<th>Split</th>
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<tbody>
<tr>
<td>Commuter</td>
<td>High Speed</td>
<td>LRV</td>
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Available Cooling Capacity

- 2kW
- 9kW
- 10kW
- 40kW
- 30kW
- 70kW

MITSUBISHI ELECTRIC CORPORATION

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