

# HVAC Unit

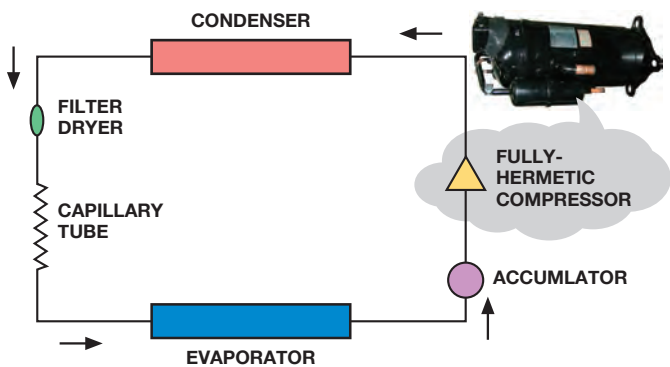
## Highly Reliable and Energy Saving Air Conditioning Systems



Based on  
IRIS Certified  
High level  
QA System 

### High Reliability

#### Fully Hermetic Cycle (Proven track record starting in the 1950s)

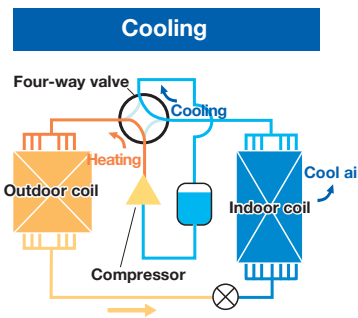


No Gasket Seal  
No Thread and No Flange  
Reduce mechanical devices

Saves Maintenance Work  
Saves Service Parts Stock  
Saves LCC

### Energy Saving Proposal

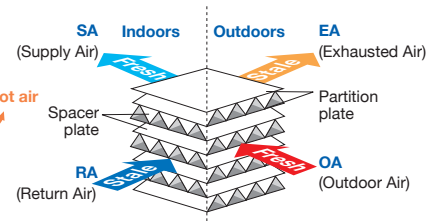
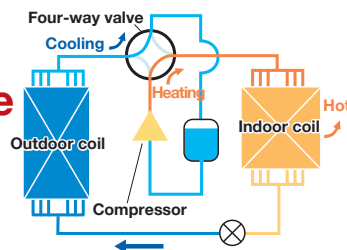
#### Heat Pump Operation



#### Energy Recovery Ventilation with Lossnay



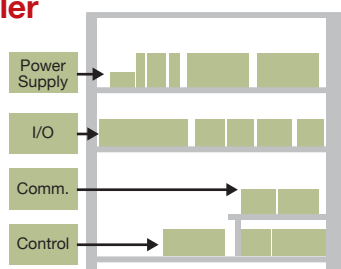
#### Heating-Heat Pump



### 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

Reduce Power Consumption with highly efficient refrigerant cycle

Reduce Outdoor Air Heat Load

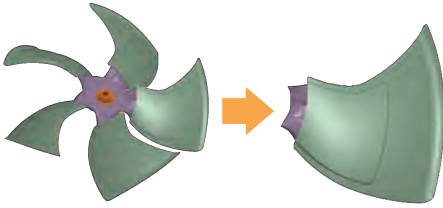
50% reduction compared to Electric Heater

Reduce Power Consumption for Air Conditioning System

Cooling : 10% Energy reduction  
Heating : 60% Energy reduction

# High Efficiency of Main Components

## Condenser Fan

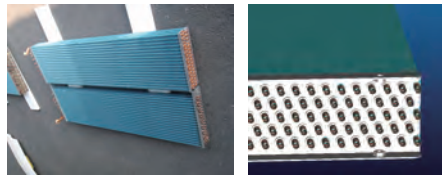


The combination of winglet fan & backward-curved blade



Reduces swirl at the blade ends & realize 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%

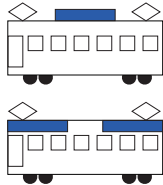
# Experienced Manufacturer

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

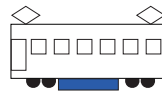
### Roof Mounted

- Commuter
- Subway
- High Speed
- LRV



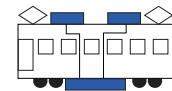
### Under Floor

- High Speed



### Split

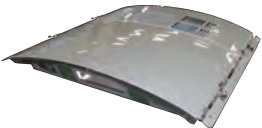
- LRV
- Subway



2kW Available Cooling Capacity 70kW

2kW 9kW

Cab HVAC

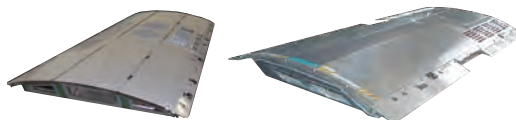


10kW

40kW

30kW

Saloon HVAC



70kW

MITSUBISHI ELECTRIC CORPORATION

<http://www.MitsubishiElectric.com>