



CIACTM
*Comfort and intelligence in air conditioning*TM



IMVF 
Inverter Multi Variable Flow

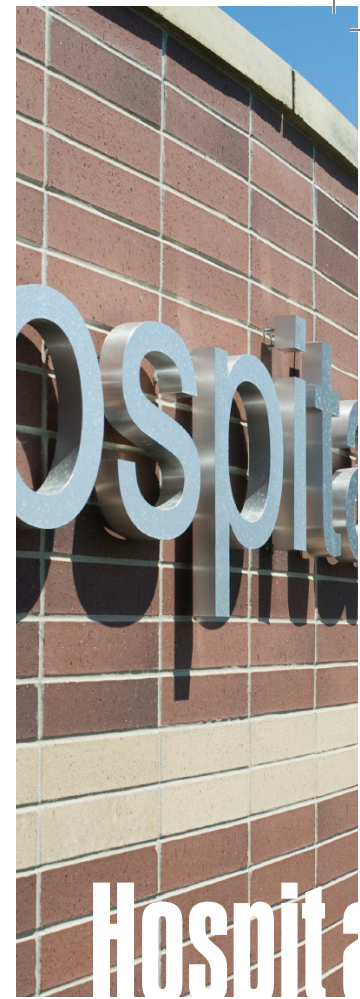
Intelligent Flexibility



Hotels



Shopping Centers



Hospitals

The CIAC IMVF is a state of the art system incorporating the latest technology in air conditioning units, design tools, intelligent controls and software to meet the needs of the commercial sector. Whether in the fast paced setting of a business or office, or simply in the relaxed environment of a hotel, the CIAC IMVF provides the highest level of comfort while saving energy well above traditional systems. Featuring a compact unit design, long piping capabilities, and enhanced design alternatives, the IMVF supports the user, making design tasks and decision making straightforward and simple.

a state of



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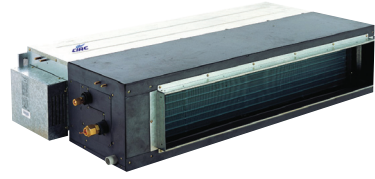
Offices

Universities

condensing
units



evaporators



the art system

advanced

LARGE RANGE: THE ADVANTAGE OF MODULAR DESIGN

- Modular design for better flexibility.
- 4 basic modules to be combined.
- Maximum capacity of 180 kW/51 tons.
- No need to appoint master or slave units.

SIMPLE WIRING

- Multiplex communication system.
- Connects multiple indoor units to a single outdoor unit via a 2-core wire.

R-410A REFRIGERANT

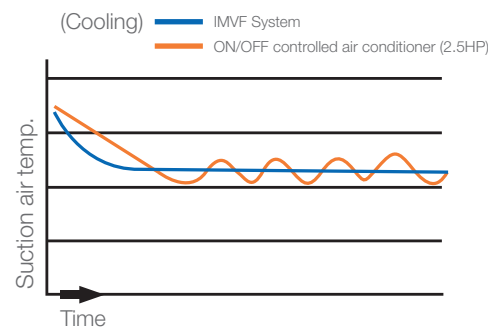
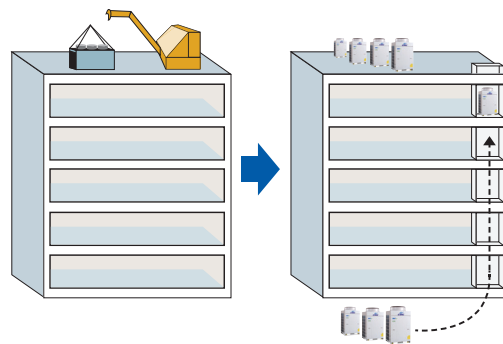
- The CIAC IMVF uses non-ozone depleting R-410A refrigerant.

INCREASED ENERGY SAVINGS

The CIAC IMVF utilizes cutting edge technology to offer an efficient, energy saving system. Through this system, each room can be controlled individually, thus only those areas requiring comfort are cooled or heated. This is made possible thanks to CIAC's intelligent control which uses an Exv (Electronic Expansion) control to meet each room's individual comfort level requirement.

Also, thanks to the DC inverter fan, the outdoor units offer high efficiency and low noise levels, capable of an ESP (external static pressure) of up to 50 Pa. This feature permits the ducting of the condenser air.

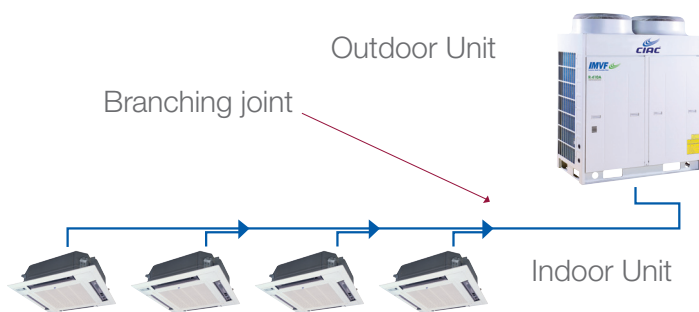
(Note: Only specific models are equipped with DC inverter fan motors. Other models feature AC inverter motors. For more details please contact the CIAC sales department).



features

FLEXIBLE DESIGN

- Increase design options, while decreasing cost and installation time.
- Combine line and branch pipe connections in order to produce the most effective design route.
- Made possible by incorporating Y-Type Branch joints.



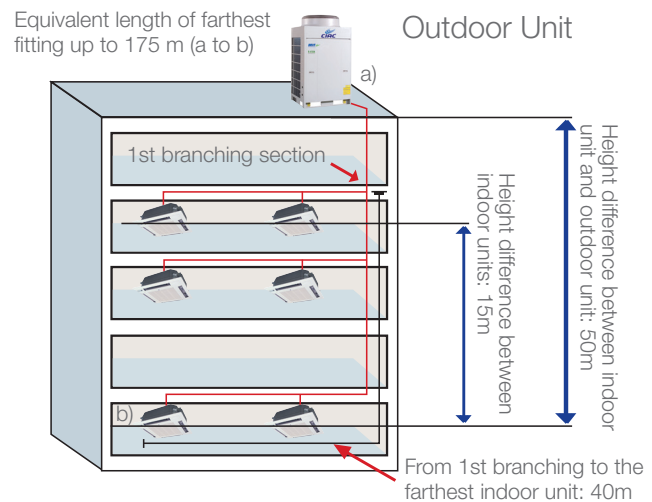
MAXIMIZED REACH

- Allows for the best use of vertical parameters.
- Total system piping length of up to 500 m and 50 m maximum height difference between indoor and outdoor units.
- Adds flexibility to an already versatile system.

COMPACT DESIGN

Building size, long piping and interior design challenges are met by taking advantage of the IMVF compact design and connection capabilities.

- No special cranes or hoists are needed to lift the outdoor unit onto the roof (in most cases).
- Long piping, compact connections and indoor units ensure a more effective use of space by simplifying design and installation tasks.



intelligent

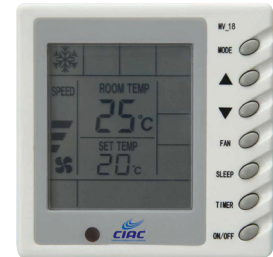
INTELLIGENT CONTROL SOLUTIONS: Manage your system with a click of a button

The CIAC IMVF system combines intelligent controls and modulating EXV valves to deliver the highest level of comfort. These controls can deliver the required capacity depending on load variations ranging from 10% to 100%. Humidity and temperature levels are kept within the comfort range by limiting or increasing the cooling or heating capacities dynamically.

Electronic expansion valves continuously respond to changes in loads of the indoor units by adjusting the refrigerant's flow rate. This produces a near constant room temperature maintained within ± 0.5 °C of the set point, unattainable in a conventional ON/OFF system.



1 CENTRAL CONTROL

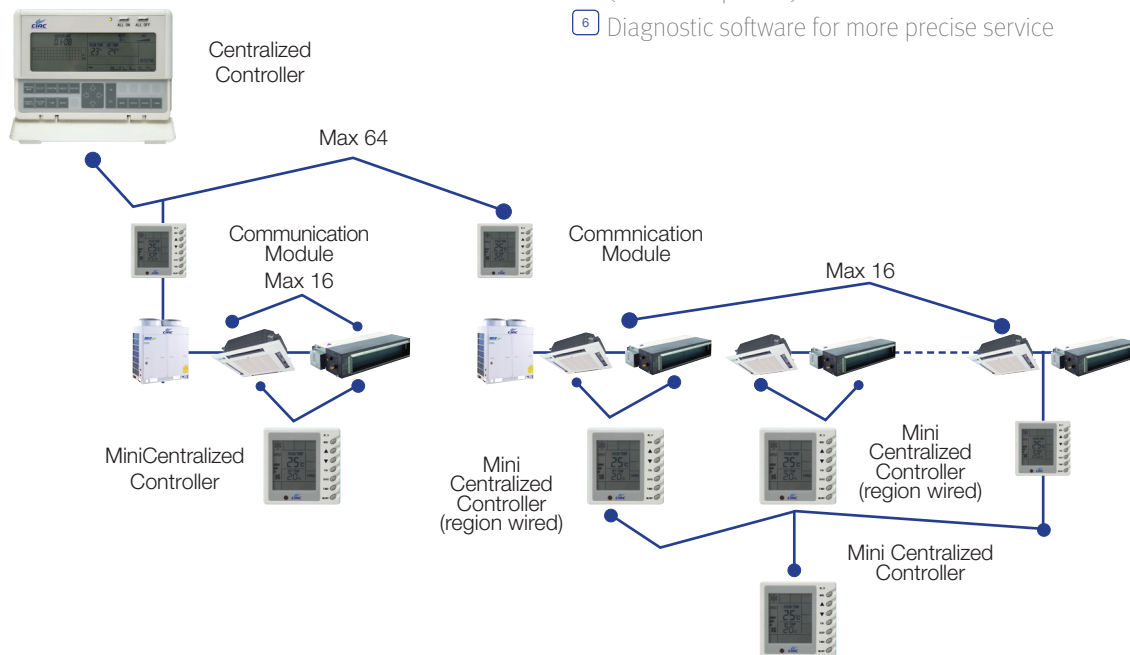


2 WIRED CONTROL

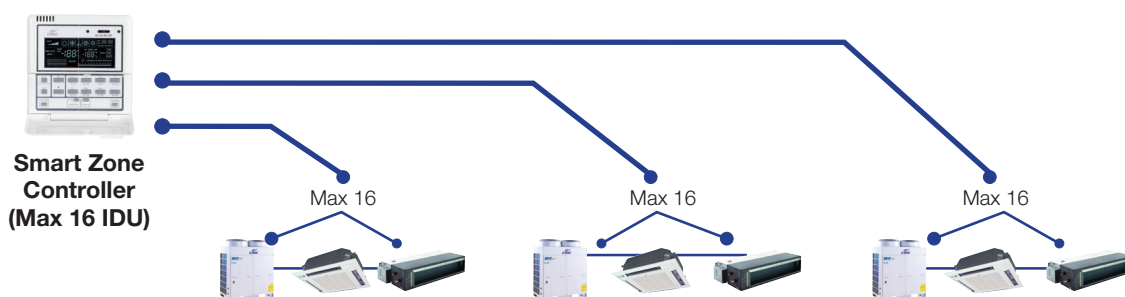
Intelligent network system includes:

- 1 Wireless remote controller or wired controller for indoor units
- Optional:
 - 2 Central Control (featuring weekly timer function)
 - 3 Zone controller (Region wired controller)
 - 4 Network monitoring system
 - 5 Long distance control/monitoring system (interface optional)
 - 6 Diagnostic software for more precise service

centralized
controller



smart zone
controller



technology

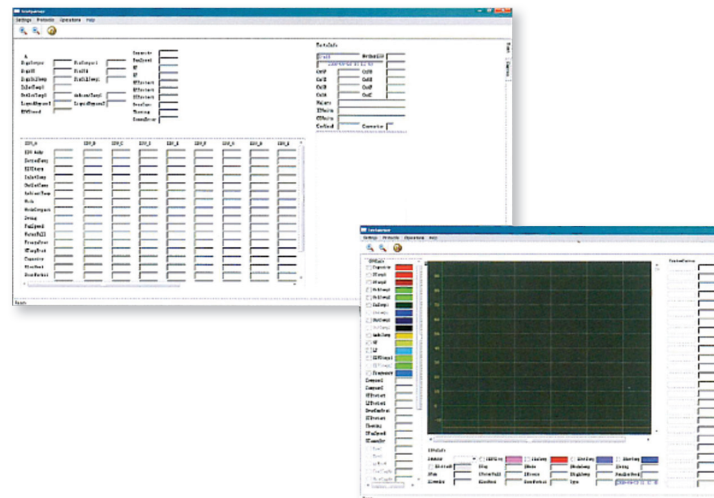


INTELLIGENT SELF DIAGNOSTIC SYSTEM

In the event that a problem should arise, or if simple maintenance is required, an onboard self diagnostics system will allow for a complete monitoring of the CIAC IMVF. Equipped with comprehensive troubleshooting codes, the IMVF system will display error codes and descriptions to assist with diagnostics, service and repair.

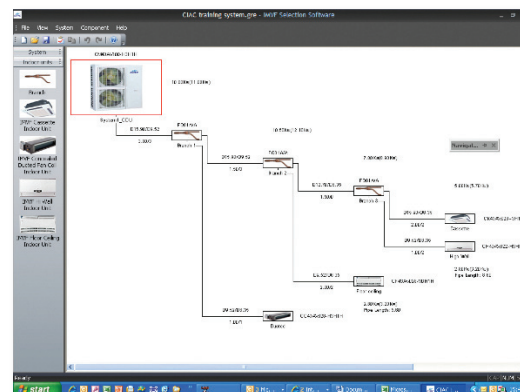
DIAGNOSTIC SOFTWARE

All data for the IMVF system can be easily obtained, recorded and analyzed thanks to this test software, providing more efficient troubleshooting and service.



MODEL SELECTION SOFTWARE

This advanced, user friendly system selection program will provide a more precise, professional and efficient system design. Project layout, piping design, refrigerant charge and controls selection can be determined through this program.





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