

Heat pump system with integrated zoning NEW INSTALLATION

HAC SYSTEM
VAF™

Maximum comfort and economy, by controlling heating and cooling of each room

NEW SYSTEM AUTOMATIC CONTROL



Automatic control of flaps according to the wireless thermostat setting.

Install our manifold for your distribution network and our controls for an electric heating system with automatic zoning, hassle-free! The thermostat opens or closes the manifold flaps to meet the demand.

TRUE SAVINGS OF 30% AND MORE

Central heat pump system VAF™ (Variable flow system)

A manifold that is part of a system that simultaneously heats and cools different parts of your building with the wired thermostats of your choice in each room. If necessary, we can offer you a wireless thermostat.

- Uncompromising comfort for every occupant... and real energy savings.
- Variable heating and cooling capacity, depending on the number of zones in demand.
- The adaptation of our CVBM IV™ system to the ECM type ventilation motor allows non-bypass zoning.
- Electric system available, from 10 to 23 kW. You can also use a hot water coil as an auxiliary system.
- This system allows feeding only one zone at a time.
- ZoneMax HAC™ air distribution. You can use 3, 4, 5 or 6 inch ducts.

Automatically control flow and energy thanks to our CVBM IV™ control system.



- Heat pump capacity: 3 tonnes, 36,000 BTU/hour
- Ventilation capacity: 1200 PCM
- Can accommodate 1 to 16 zones
- COP 2.8 to 3.4 (house test)
- You can adapt your heating and air conditioning climatisation system with²:
 - Auxiliary system with a hot water coil and a kettle that allows choosing the energy source.
 - Humidification system.
 - Filtration system.
 - Purification system
 - Air exchanger system.
 - Fresh air inlet system

². These systems are not offered at Calorek.



The requirement

Most commercial buildings are struggling with problems of general discomfort. If you are a commercial building manager, you probably handle a lot of occupant complaints concerning their thermal comfort. The same problem can be found in residential buildings.

Currently available on the market: VRF™

The costs of acquiring and installing a VRF™ system are high, because the technology is complex and the risks of installation problems need to be considered. However, these systems have proven their ability to provide exceptional comfort, at an exceptional energy cost. How do you improve what is already exceptional?

Our VAF™ Technology

To avoid all of VRF's complexities, but still reap all of its benefits, Calorek offers VAF™. VAF™ is a central system that distributes air to several zones by controlling both ventilation and heating and/or air conditioning capacity, depending on the number of zones in demand. Without the need for bypass.

SYSTÈME
HAC™

Heating and
air conditioning

Simultaneous central heating
and cooling system
"patent pending"



Control each room simultaneously
Choose one of our systems
COP 2.8 à 3.4 (house test)

System components

DISTRIBUTION

- Plenum type waterproof manifold.
- Sectioned in 1 zone depending on the model.
- Flap motors designed with efficiency and durability in mind.

ZONE CONTROL

- 1 module receiver, depending on the model.
- 1 wireless WTC thermostat per room for perfect control.

HEATING AND/OR AIR CONDITIONING

- The adaptation of our CVBM IVTM system to the ECM type ventilation motor allows non-bypass zoning.
- Electric system available, from 10 to 23 kW. You can also use a hot water coil as an auxiliary system.
- This system also allows feeding as little as one zone at a time, both in heating and air conditioning demand.

VENTILATION

- The intelligence of the CVBM IV control ensures that the ECM motor will react to zone requests to feed the desired flow, up to 1200 PCM.
- Insulated cabinet.
- Highly efficient and economical ECM motor.