

# COOLNOMIX AR-01

Standard Refrigeration Control Unit

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The **Coolnomix AR-01 Standard Refrigeration unit** is the ideal energy saving solution for commercial refrigeration such as walk in refrigerators and glass fronted cabinets.

The **COOLNOMIX AR-01** Standard Refrigeration Control Unit offers up to 30% reduction in power consumption by efficient control of the refrigeration unit.

The **COOLNOMIX** technology is the only Refrigeration Control Unit on the market to feature dual sensor control.

In the process of cooling, energy is wasted through the compressor running longer than necessary.

**COOLNOMIX AR-01** is a new replacement control System to reduce energy consumption in compressor driven refrigeration equipment.

**COOLNOMIX AR-01** is easily fitted to existing equipment used to cool dairy products, drinks, wine, perishable foods, vegetables, etc. In supermarkets and other commercial areas. Using the Optimized Refrigerant Supply (ORS) control technology the **COOLNOMIX AR-01** is designed for cooling and vending machine applications where the control temperature is above 0°C (32°F) and is adjustable.

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## Features

- **Reduced Power Consumption by up to 30% (in some cases even higher)**
- **Optimised efficiency with shorter compressor running times and improved temperature stability (dual temperature sensor)**
- **Dual temperature sensor design delivering exceptional temperature stability**
- **Eliminates icing of the evaporator coil-no heating required even in high humidity environments**
- **Sixteen user selectable operating temperatures ranging from 0°C (32°F) to 15°C (59°F)**
- **Built in audible alarm- in the event of cooling failure (audible alarms can be silenced by an operator or turned off if not required)**

[www.nuvisionenergy.co.uk](http://www.nuvisionenergy.co.uk)

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### COOLNOMIX AR-01 – How it works

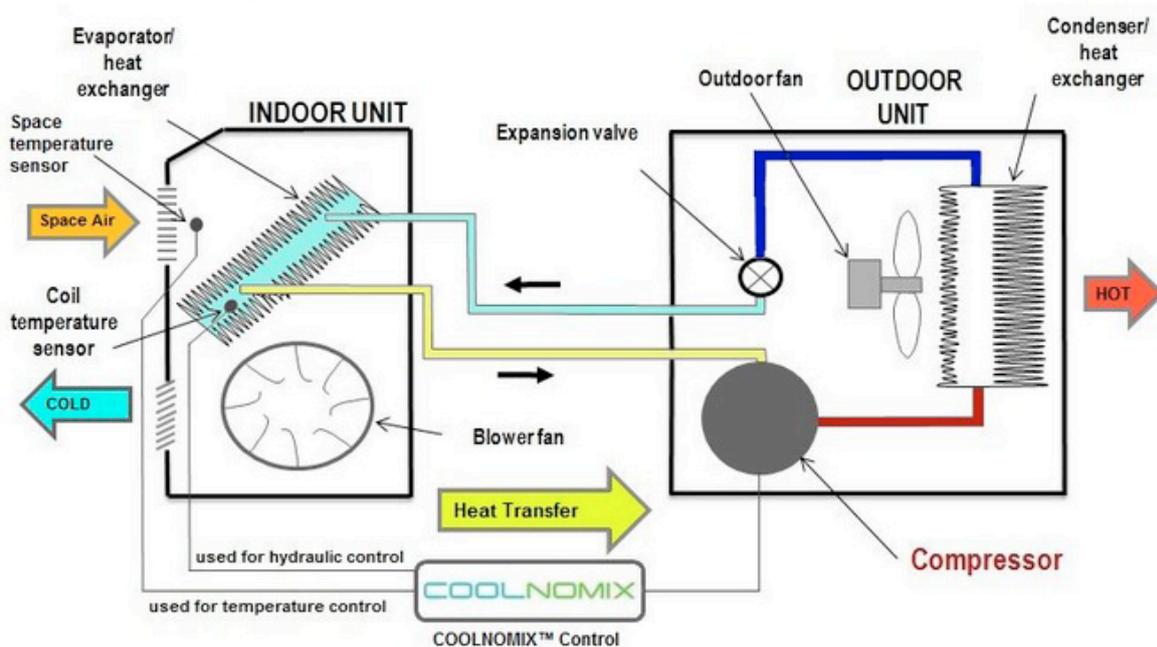
Most compressors switch on and run continuously until the room temperature sensor switches the system off. Keeping the compressor running wastes energy!

**COOLNOMIX AR-01** is the only refrigeration energy saver to monitor the incoming air flow to the evaporator with its second sensor. Only when the air temperature has dropped sufficiently does the **COOLNOMIX AR-01** start to economise.

When the compressor runs there is latent energy in the compressed gas, by switching the compressor off

when the cold air has stabilised the **COOLNOMIX AR-01** monitors the rise in temperature at the output of the evaporator to a pre set point when the compressor is switched back on. At this point the gas pressure is low therefore starting current and stress are too. This is repeated until the room thermostat switches the unit off.

**Remember – COOLNOMIX AR-01** Optimised Refrigerant Supply (ORS) maximises the saving and efficiency of the air conditioning system by controlling simultaneously the thermodynamic (temperature) and hydraulic (refrigerant pressure) of the system.



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