

COOLMIX AC-01 energy optimization system reduces your air conditioning running costs by 30%!



In most air-conditioning applications a lot of energy is actually wasted because the unit's compressor (the main energy cost component) runs much longer than is needed.

COOLMIX AC-01 is a revolutionary retrofit control system to substantially reduce running costs in fixed temperature compressor driven air conditioning equipment.

COOLMIX AC-01 is easily fitted to commercial air conditioning systems, regardless of their type or size—including units up to 50 tons or more!

Using our international patent published **Optimized Refrigerant Supply (ORS)** technology, **COOLMIX AC-01** is designed to reduce running costs in even the most demanding high humidity environments. The main features of the **COOLMIX AC-01** include:

- ✓ **Reduced power consumption** by 30% or more (up to 60% in some tests)
- ✓ **Minimized running costs compared with the best modern inverter systems**
- ✓ **Dual temperature sensor design** delivering exceptional temperature stability
- ✓ **Eliminates dripping and icing**—even in very high humidity environments.
- ✓ **Sixteen settings** — from 16°C (60.8°F) to 31°C (87.8°F) in easily programmable 1°C (1.8°F) steps for precise temperature control (+/- 0.25°C or +/- 0.45°F).

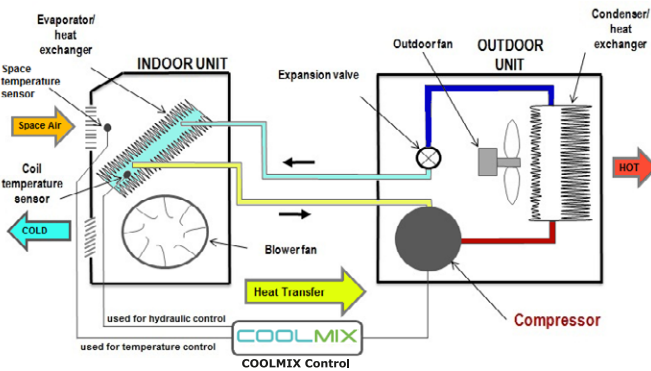
What is COOLMIX ORS?

COOLMIX ORS is our revolutionary energy optimization solution for refrigerant based air conditioning, refrigeration and heating systems. Most manufacturers today make use of **thermodynamic (temperature)** control only when controlling compressors. Even with modern inverter drives this approach delivers limited opportunities for energy savings.

By contrast, the **COOLMIX ORS** design approach recognises that the useful work done by a compressor is actually **hydraulic** in nature, and not thermodynamic.

The compressor's hydraulic work provides a supply of high pressure liquid refrigerant that can be used for cooling. Once the hydraulic work has been completed and the space being cooled is at the correct temperature then keeping the compressor running is actually wasting energy.

The patented **COOLMIX ORS** energy optimization algorithm is called **Optimized Refrigerant Supply**.

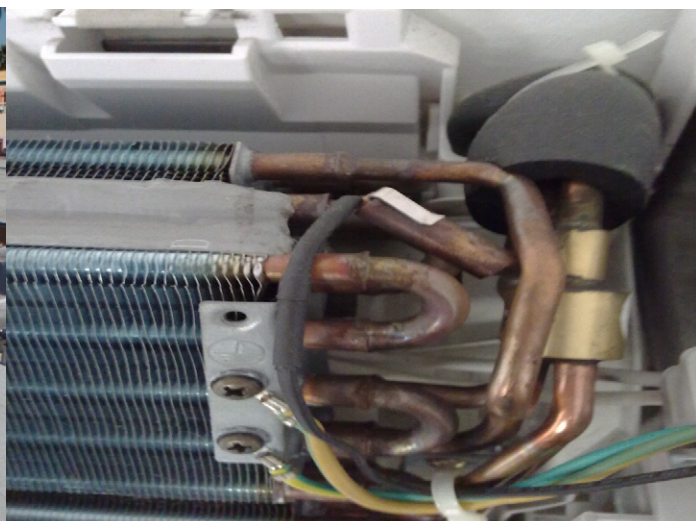


COOLMIX ORS uses a combination of **thermodynamic (temperature)** control and **hydraulic** control to assure temperature levels and optimize running costs. All air conditioning equipment making use of our patented technology are required to show the distinctive label below:

with **COOLMIX**



*The **COOLMIX AC-01** is excellent in reducing running costs by 30% or more in all types of air conditioning systems up to the largest modern package based systems.*



*The **COOLMIX AC-01** eliminates evaporator coil dripping in residential applications. More importantly it prevents icing that can occur when the compressor is made to run continuously in high humidity commercial environments.*