

COOLNOMIX AC-01™



AVERAGE 40% ENERGY SAVINGS ON AIR CONDITIONING



ONLY 1H TO INSTALL



IMMEDIATE SAVINGS



NO MAINTENANCE REQUIRED



IMPROVED TEMPERATURE STABILITY



ELIMINATION OF WATER DRIPPING

How is this possible?

Internationally patented **COOLNOMIX® Optimized Refrigerant Supply (ORS®)** encompasses two key processes:

- Delivery of the required room temperature
- Optimization of the running-time of the compressor to reduce energy wastage

Since the compressor consumes about 95% of all the energy used by an air-conditioner, **ORS®**'s optimization of its running-time delivers world-beating energy savings at an average 40% worldwide.

COOLNOMIX® applications

COOLNOMIX® delivers these awesome savings through being retro-fitted to existing air-conditioners of any-size and any kind in which the refrigerant is used to cool the air directly¹. Retrofitting takes about one hour to complete and there are zero maintenance requirements. **COOLNOMIX®** is already delivering energy savings around the world on:

- Split-type air conditioners (e.g. wall-mounted and cassette based)
- Package based and double expansion (DX) units up to the largest sizes available
- Ducted air-conditioners with AHU's
- Inverter based (VRV and VRF) air-conditioners

Even inverter based (VRV and VRF) air-conditioners are enjoying an average 40% savings!

¹ **COOLNOMIX®** is not currently retro-fitted to Centralized Water Chillers unless there are exceptional circumstances. To discuss these exceptional circumstances contact Agile8.



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REDUCE YOUR ELECTRICITY BILL
BY **15-30%**

More about Optimized Refrigerant Supply (ORS®)

Air-conditioner manufacturers make use of room temperature measurement to determine the run-time of the compressor. Even with modern inverter drives this approach wastes energy by over-running the compressor. **COOLNOMIX® ORS®** employs data from two temperature sensors for determining when work is needed from the air-conditioner's compressor.

- The first sensor replicates the function of the room temperature measurement and is employed by **COOLNOMIX® ORS®** to deliver the required room temperature as a priority
- The second sensor measures the temperature of the cold-supply air from the air-conditioner and this is used to determine when the compressor has completed its hydraulic work of fully compressing the refrigerant gas

Of course, once the refrigerant gas is fully compressed, continuing to run the compressor is a waste of energy and yet this is what use of the room temperature measurement persists in doing.

With the additional information derived from its second sensor, **COOLNOMIX® ORS®** is able to stop (non-inverter) or slow down (inverter) the compressor whilst the air-conditioner uses the reservoir of cooling capacity that has been created to cool the room. Once **COOLNOMIX® ORS®** determines that further cooling capacity is needed, the compressor is started (non-inverter) or speeded up (inverter) again until its hydraulic work has been completed once more.

COOLNOMIX® meets the requirements of the most challenging certifications:



COOLNOMIX® also delivers an astonishing average 30% savings on refrigerators.

Ask for a copy of our **COOLNOMIX AR-01™** Product Brochure.

Estimate your savings now

For an estimate of your annual savings, ROI, payback period, and reduction in carbon emissions, just send us your:

- Electricity kWh price
- Unit electrical power rating
- Hours per day of operation
- Days per week of operation
- Months per year of operation
- City and country



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**FOR MORE INFO, VISIT:
WWW.COOLNOMIX.COM**



For more information, including Case Studies, Data Sheets and Customer Testimonials, contact Agile8 at:

support@coolnomix.com

COOLNOMIX® is an internationally patented product of Agile8 Consulting Limited. Our objective for **COOLNOMIX®** is to reduce worldwide running costs of refrigerant based cooling systems by 30%.

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