

## Data Sheet

## COOLNOMIX AR-01<sup>®</sup>



Dimensions:	17.7cm x 11.3cm x 3.8cm 7" x 4.4" x 1.5" Excluding temperature sensors
Unit Weight:	218g, 7.7oz
Electrical Supply:	90V to 250V AC50/60 auto-switching
Current:	2mA (220V), 1mA (110V)
Operating Environment:	0°C to 55°C, RH to 95%
Storage Environment:	-25°C and 85°C, RH 15% to 95%
Certifications:	Full CE Certification (Safety and Electromagnetic Interference) Full CTICK Certification RoHS Certification FCC Certification
Temperature Sensors:	NTC type, -50°C to 150°C
Relay:	Normally open - opens on power failure Voltage: 0 to 250V (AC or DC) Current: 10A continuous/16A peak

**COOLNOMIX AR-01<sup>®</sup>** employs patent pending Optimized Refrigerant Supply (ORS<sup>™</sup>) with two temperature sensors, one measuring the cold supply the other measuring the space temperature, so that the ORS<sup>™</sup> algorithm ensures that running costs are always optimized against required comfort/space cooling needs.

**COOLNOMIX AR-01<sup>®</sup>** supports environments for any temperature within the range from 0 Deg C/32 Deg F to 15 Deg C/59 Deg F in 16 steps.

The ORS<sup>™</sup> algorithm encompasses processes to protect the refrigeration unit compressor:

- the motor runs for a minimum time to allow windings to cool down
- compressor re-starts only take place when all high-pressure refrigerant has been used up (zero differential pressure across the compressor)

All **COOLNOMIX AR-01<sup>®</sup>** units carry a 3 years warranty.

One **COOLNOMIX AR-01<sup>®</sup>** unit is required for every refrigeration unit thermostat.

The **COOLNOMIX AR-01<sup>®</sup>** is a retro-fit solution for energy savings on existing refrigerant based refrigeration units.

### about Coolnomix<sup>™</sup>