

CONDITIONAIRE LIMITED

COMPARISON WITH COMPETITORS

1. The AES has specifically developed ASIC (Application Specific Integrated Circuit). A chip which we tooled and masked at a Semiconductor Facility in England. The chip has evolved for its 4th generation and thus has a history of ten years of research unlike competitors which have a microcircuit module being a high frequency timer on/off switch which merely cuts the compressor on and off.
2. The AES is self learning with automatic adjusting intelligent smart modules which develop intelligence after its usage and ascertain the functionality over the period of its usage. Our competitors lack this intelligence and are fixed devices which operate more in a universal mode.
3. The AES closed loop system takes the reference temperature from the temperature sensor and feeds it into the ASIC module and ensures that the alteration in the compressor functionality for energy saving is WITHOUT the cost of higher temperature. Our competitors do not keep this intelligence while randomly using the latent energy made available.
4. The AES ascertains that the inrush of heavy current to the load of the compressor is minimised providing: (a) longer life to the compressor as against the fixed thermostats without the AES;(b) prevents icing of the compressor during variation of temperatures. Our competitors having high frequency cut outs just keep the compressor operations in a high frequency mode leading to a reduction in the life of the compressor.
5. The AES results in a reduction in the net reactive power being fed back to the source which is a major cause of reduction in the power efficiency of an integrated thermodynamic system like HVAC or window refrigeration systems. Our competitors generate a considerable amount of reactive power going back to the source and not only does this derate the HVAC/refrigeration system components but also causes an increase in temperature of all the components.
6. The AES have full independent CE and UL certificates. Our competitors rely on self certified test certificates.
7. The AES results in less electromagnetic interference which have potential application in residential and comfort systems to be EMI compliant. Some of our competitors products have not been tested for EMI compliancy.
8. The AES being an intelligent device does not become affected by the poor quality of oil sometimes used in compressors when being serviced. Our competitors devices are high frequency open ended cutouts and during the rise of frequency the compressor oil starts seeping out over a period of time.
9. CONDITIONAIRE LIMITED is a well established renowned Company formed in 1994 and produced the first air conditioning energy saver in the United Kingdom. This was copied, initially by a Company in the Netherlands which was unsuccessful, and adopted by the Brandner Company in Germany who were manufacturing the product for the Company in the Netherlands. The current updated AES was designed and is manufactured in England by an associated Company which is also involved in design and manufacture of products for the Ministry of Defence in the UK and therefore manufactures products to the highest specification and reliability . CONDITIONAIRE LIMITED has the capability to customise

products to suit the end user application with a dedicated and established research and development facility.

Our competitors have a fixed product which makes it necessary to adapt their systems in case of a variant in physical parameters such as temperature and humidity.