

AIRBOX TECHNOLOGY



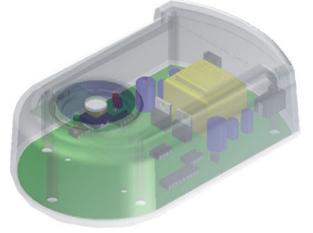
The AIRBOX air condition control system product provides a solution to the full controlled management of your compressed air cooling systems irrespective of the make, motor size, or type of compressor within your structure and irrespective of the system pressure.

AIRBOX

- TECH

The Problem

Most industries use compressed air however they do not generally have integrated systems which are designed to not only meet their peak demands but also to

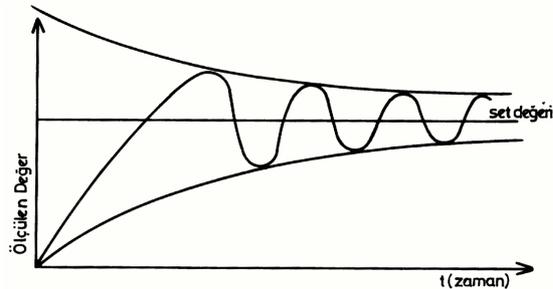


accommodate the low demand periods. During the varying demands of most manufacturing days a manufacturer's compressed air supply will be wasting energy by over production of air, over pressurisation of air systems and poor controls.

Generally the temperature sensor of air conditioners are under the air filter & air output window. When air circulating in the room ;this sensor can be mistaken generally.

The Fault control of room temperature cause unnecessary compressor starts and stops. When compressor motor starts and stops they spend 5 to 10 times more energy. AIRBOX corrects this inefficiency with advanced PID temperature control algorithms & secondary temperature sensor.

With typically 10% of energy consumption on a site being related directly to the generation of compressed air, this waste is a significant part of manufacturing costs



In this way pressure is maximized to your needs without excess generation through close control of reservoir pressure virtually eliminating hysteresis. Savings to be gained in this way provide typically 20% - 45% reduction of running costs.

The close management of pressure reduces dramatically the leakage losses in a system, (typical losses in industry amount to 18%), this figure can be reduced to provide savings of up to 5% of running costs.

Charge rate management to ensure that only that air flow that is required from the reservoir is being provided by the compressors to the reservoir. Careful management of the systems in this area adds a further 3 - 5% savings.

Best compressor utilization ensures that only that compressor or compressors that are required to meet demand are running at any given time.

The system is fully dynamic and adjusts according to the conditions at whatever time. In conjunction with use of aircondition Energy Control Systems so as to ensure minimal "over-run and run-on times" as well as providing on and off load motor energy consumption savings overall system **savings of 20-35% are typically achieved.**

In addition, the systems have been developed with knowledge of the climatic problems associated with operations in a tropical or sub-tropical environment so offer rugged protection against high humidity and wide ranging temperatures.

Motors can consume electricity at more than ten times their capital cost each year. By giving you control over your motor, AIRBOX can save between 15% and 40% of your electricity costs; without reducing speed of fans, without any loss of power and without detriment to your airconditioner.

Features

The AIRBOX is a high specification digital airconditioner energy control available in models suitable for airconditioners up to 48,000 BTU

-FULL AUTOMATIC OPERATION.

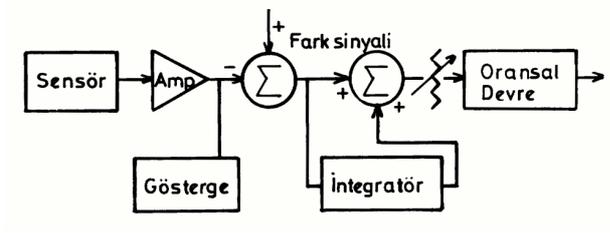
-SIMPLE TO INSTALL.

-RUGGED HOUSING ,IP43 NEMA1. ABS plastic box

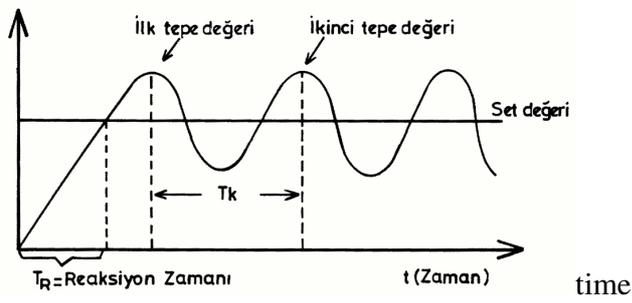
-Prolong life span of devices.

-Advanced temperature P.I.D(Proportional integral derivative) algorithms.

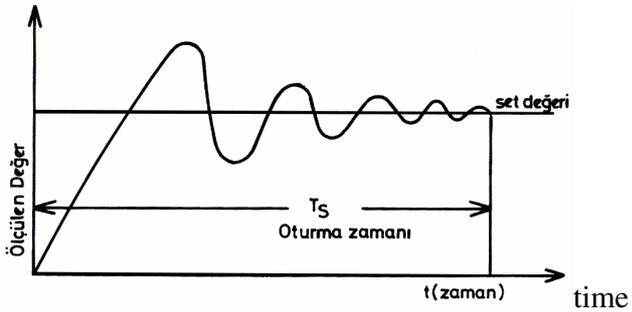
AIRBOX WORKING ALGORITHM



Compressor motor reaction to temperature **Without airbox device**

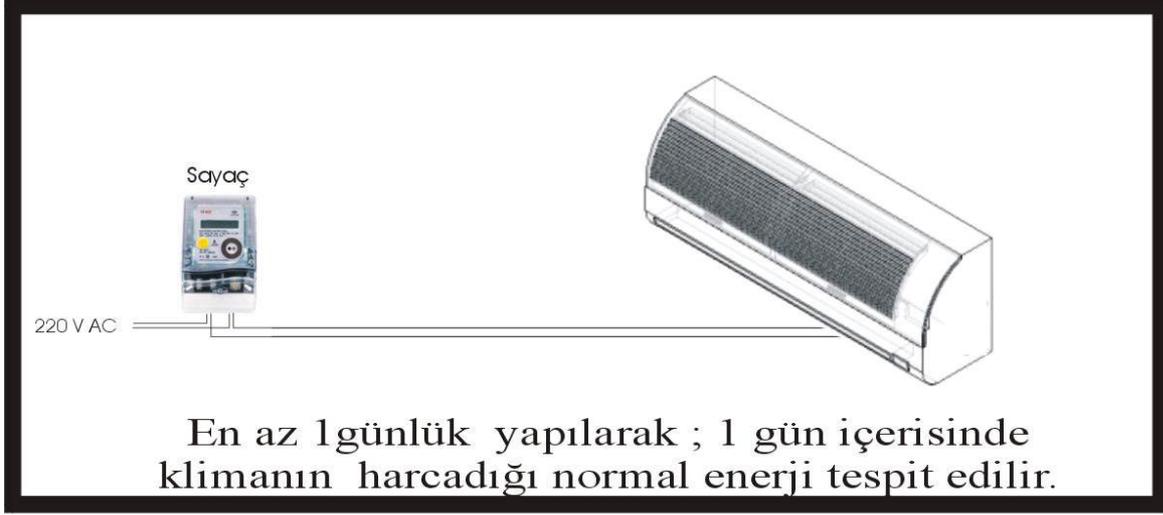


Compressor motor reaction to temperature **Without airbox device**



Compressor motor Reaction graph

AIRBOX CİHAZI TASARRUF TESTİ



Not: Airbox cihazının montajı ve ayarları kullanma kılavuzunda belirtildiği gibi yapılmalı ve test odasının kapı ve pencerelerinin kapalı olmasına dikkat edilmelidir.

Energy saving test...

Note: We propose minimum 1 day test for observation maximum energy saving..
(it's also possible to test for 2-4 hours)

AIRBOX™

Patented

USE YOUR AIRCONDITIONER WITH LESS COST

48.000 BTU ye kadar ; Kompresörlü split,salon, duvar ve tavan tipi tüm klimalarda kullanılabilir. Kullanılan klimanın çalışmakta olduğu sahanın büyüklüğüne ve kullanma şartlarına bağlı olarak %25 - % 45 arasında enerji tasarrufu sağlar. Kompresör ömrünü uzatır.



Save
% 25

Klima termostat sensörünü bulduktan sonra bu sensörü Air box sensör kutusunun içine sokunuz. Air box cihazını klimanın uygun bölümüne monte edip enerjilendiriniz. Sıcak veya soğuk ayarı yapınız. Klimanın kapağını açarak filtre altındaki termostat sensörünü bulunuz. Bu sensor genellikle siyah renkte ve hava girişi filtresinin altında bulunmaktadır.

KLİMALARDA% 25 - 40 ENERJİ TASARRUFU



DESIGNED IN U.S.A.

Patented

Efficient power system

CE

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