



75% CO2 reduction by means of Airgenex® condu

As part of a diploma thesis...
The energy efficiency and thus the reduction of CO₂ emissions by means of Airgenex® condensation driers was investigated

The goal of the measurements was a comparison of conventional exhaust and improvements was a comparison of conventional exhaust and improvement of the properties of the prope

The basis for a comparison of the COD enti-sions is the power requirement for both sys-tems. The data found may infer to the COD emissions in the operation of the dryers. Other values (peripheral processes) were to considered. On the one hand, annual loading of 6.200 On the one hand, annual loading of 6.200 Substantial control of the Comparison are determined on the basis of the German power mix. For this installation size the fol-lowing results:

Reduction for operation with Airgenex®: up to 57 tons CO2/yearl

学位论文内容摘要

利用 Airgenex®除湿干燥系统进行了能源利用效率和CO2排放量的调研考察

使用 Airgenex®干燥系统 CO2年减排量可达57吨!

For comparison:

The annually saved CO₂ emissions correspond to the emissions of

> 15 Porsche 911!

High CO2 reductions

Through the usage of Airgenex® condensation dryers, approx. 7% of the CO2 emissions can be conserved in the electrical operation of drying installations in comparison with installations with conventional exhaust systems. Furthermore the operation allows the process parameters to be kept constant, which has a very positive effect on process security.

The HARTER appears condensation drying is based on the system of a heat pump,
which heats and dehumidifies the air in the
drying dhamber. In contrast to comentional
systems, the air's fell in a closed circuit. This
has the advantage that on the one hand air
nots all the energy remains in the system
and on the other hand, independent of the
environmental conditions, the climates in the
drying chamber can be influenced in almost
every way.

作为比较:

CO2年减排量

>15辆保时捷911排放量!

注刊音句代配可即項。 射角循环式 修理 HAFTEH Argonex(8) 干燥系統基于一个热泵系统 它可以到干燥霜内的空气进行加热和除湿。不同 干燥系统。空气循环系统是到的的。这带来了 许多牙处。一方面,几乎所有能源都保留在系统 中;另一方面。由于不受环境条件限制,干燥系 统内的温湿度可灵活控制。



Percentile CO₂ emission in comparison 一 预期CO2减排百分比对比图 **75 %** 减排 CO2 Conventional exhaust dryer Airgenex® condensation drying 传统排气式干燥器 HARTER Airgenex®除湿干燥系统