Use innovative applications sustainably cuts building operating costs,
applications – tested under practical conditions – prevent unnecessary
controlled and monitored flexibly, and based on demand. Intelligent
well as other building systems, such as lighting and shading, can be
Using Desigo™, heating, ventilation and air conditioning plants as
Wide variety of applications

– Added plant value due to the use of energy-saving, modern
equipment
– Sustainable reduction of energy and building operating costs
– Room users save actively energy thanks to the Green Leaf

– Contribution to meeting the requirements of EN 15232 in the

– Up to 25 percent energy cost savings and contribution to

implications for managing and
Specific visualization
– Existing plants can be upgraded while ensuring short payback times
– Full adherence to the required temperature, indoor air quality
– Energy costs reduced by up to 50 percent in comparison with
– Lower maintenance costs thanks to automatic operation
– Innovative control functions like cycling module that controls
– The Eco Monitoring function continually delivers data to assess
– The required features should therefore be specified in each individual case
– Measures aimed at optimizing plant
– Comparison of energy related data between different types of
– Financing system for retrofitting building units and reducing the impact on the

AirOptiControl: optimized volumetric airflow saves costs

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TABS-Control: unique control of concrete building structures

– Use heating and cooling systems: use of innovative applications sustainably cuts building operating costs, applications – tested under practical conditions – prevent unnecessary flexibly, and based on demand. Intelligent
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Eco Monitoring: energy management based on demand

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Quick and easy presentation of energy-related information

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Wide variety of applications for enhanced energy efficiency

– Easy Desigo™ training, certification and an installed partner network
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– Effective monitoring of process and consumption data since irregularities
are identified during operation and can then be rectified.

– Facility managers benefit from the continued help of the Desigo Eco Viewer, the facility manager will then be

– The information in this document contains general descriptions of technical

www.siemens.com/desigo
The comfort zone is continually calculated to be able to choose the cheapest air handling energy. Using the patented process, the air conditioning costs are always conditioned by utilizing the most favorably priced form of energy and CO₂ optimization. The air supplied to the rooms is always conditioned for best comfort and energy efficiency.

**tx2 Economizer**:
- **saving energy and costs**: delivers energy savings of up to 50 percent compared with conventional air conditioning systems.
- **Cost savings**: based on a selectable setpoint zone for temperature and humidity of the associated heating or cooling method.
- **Shorter pump running times and lower energy costs**.
- **Upgrading with no need for installing extra plant components**.
- **Low costs thanks to quick and straightforward commissioning**.
- **High investment protection thanks to compliance with VDI 3813 directive**.

**Heat storage charged by solar energy for more energy efficiency**.
- **Calculation of sun’s position while giving consideration to the geographical location**: calculates the position while giving consideration to the geographical location, taking appropriate actions, such as blind control providing protection for successful optimization.
- **Calculation of sun’s position on the roof**: shows the success of the optimization for successful optimization.
- **Heating degree days: the basis for successful optimization**.
- **Sustainable energy savings** – with **Design**.

The **Desigo building automation and control system** controls and manages the basic infrastructure of a building – air conditioning, lighting, security, and more – to improve overall building operation and sustainably energy-efficient and sustainable energy saving.

**Heat storage charged by solar energy for more energy efficiency**.
- **Heat storage charged by solar energy**: the basis for sustainable energy saving. This is also confirmed by EN 15232 due to their high level of control accuracy.
- **Completeness of room automation functions as per DIN 5034-2 (daylight in interior rooms)**.
- **Heating degree days**: the basis for successful optimization.
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