

# WE'LL MODERNISE YOUR **BELT-DRIVEN** VENTILATION SYSTEM.

**60%** UP TO IN ENERGY SAVINGS WITH OUR  
PATENTED **ZITT** DRIVE SYSTEM!

SUBSTANTIAL **COST SAVINGS** DURING  
INSTALLATION COMPARED TO A FAN WALL!



ZITT MOTOR



FAN WALL



### EASY INSTALLATION

Replacing your existing motor with a new, considerably more energy-efficient one is easy. No modifications to the channel network are necessary.

### EXTREMELY SHORT AMORTISATION PERIOD

In continuous operation, the ZITT motor will pay for itself after just 2.5 years, as the conversion work is negligible.

# OUR MOTORS ARE THE CORE COMPONENTS OF MODERN BUILDING TECHNOLOGY!

Ventilation systems are technical systems that serve to improve the air quality in closed rooms by supplying fresh air and extracting stale air. Our motors are perfectly suited to these systems. We offer sustainable and efficient electric motors for ventilation systems.

## OUR SERVICES

### ENERGY OPTIMISATION

Particularly in times of climate change, it is important to optimise energy efficiency in various areas in order to reduce energy consumption and electricity costs. We are happy to determine your power consumption and offer you solutions tailored to your specific needs. When doing so, we will provide the following services:

- System optimisation
- Electricity cost reduction
- Energy-saving motors
- Red Power drives

### HEAT RECOVERY

This technology makes it possible to reduce energy consumption and thus save costs, while at the same time reducing the environmental impact. We can help you with heat recovery and your heat recovery drive, including the control system.

## 5 MOTOR SIZES COVER 16 POWER LEVELS

ZITT COMPACT  
PERMANENT MAGNET  
MOTOR IE5 (ZKPM)



SIZE	80	90	112	132	160
Frequency converter power	0.55–1.5 kW	2.2–4.0 kW	5.5–7.5 kW	11.0–22.0 kW	22.0–30.0 kW
Maximum motor power	2.2 kW	4.4 kW	8.0 kW	26.0 kW	33.0 kW



### RAPID COMMISSIONING

The motor can be put into service quickly and easily via Bluetooth or on the Web – remote maintenance is also possible.

# 60%<sup>UP TO</sup>

## ENERGY SAVINGS WITH OUR PATENTED ZITT DRIVE SYSTEM!

# WE'LL MODERNISE YOUR BELTDRIVEN VENTILATION SYSTEM

## WHAT MAKES OUR ZITT DRIVE SYSTEM STAND OUT:

### ENERGY-EFFICIENT

- Energy efficiency due to a patented ZITT drive system (efficiency class IE5)
- Demonstrably 10% more energy-efficient than fan walls (according to a study by the Lucerne University of Applied Sciences and Arts)
- Up to 30% in energy savings due to the easy replacement of your old motor with a permanent magnet motor
- Up to 60% in energy savings with sensor technology for demand-driven, continuously variable operation



Link to the LUAS study

### SUSTAINABLE

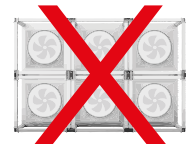
- All components can be repaired or individually replaced

### INEXPENSIVE AND EXTREMELY SHORT AMORTISATION TIME

- Cost-efficient due to low material and conversion costs
- Substantial cost savings during installation compared to a fan wall
- Innovative modernisation with EU-wide patented drive system



ZITT ELECTRIC MOTOR (ZKPM IE 5)



FAN WALL

### ALL-ROUND SUPPORT WITH INSTALLATION SERVICE

- We are here for you: to determine your power consumption and offer you a tailored solution for effective energy savings

### EXTREMELY SHORT CONVERSION TIME, WITHOUT FAN REPLACEMENT

- With the frequency converter, the ventilation system can be controlled in a more demand-driven manner
- The existing fan can be reused, thereby obviating the need for ventilation channel conversion. This reduces the time involved and disrupts ongoing operations only slightly

## COMMUNICATION

### LAPTOP



Adjustments are made with a laptop on site

### BLUETOOTH



Parameters can be read, modified and sent via smartphone

### ZITT NET



Help can be provided immediately from head office with ZITT Net



# ZITT COMPACT PERMANENT MAGNET MOTOR

## EFFICIENT, INNOVATIVE AND SUSTAINABLE

- Developed for retrofitting belt-driven ventilation systems
- Sustainable, existing fan is reused
- All parts can be replaced or repaired
- Lower electrical outputs, as frequency converters with a lower power level are usually possible
- No shielded cables, no wiring between frequency converter and motor
- Variable power adjustment for changes to the room's type of use
- Bluetooth interface with app
- Can be put into operation with the monoblock closed (work safety)

## ADVANTAGES OF ZITT ZKPM DRIVES

### COMPARED TO ASYNCHRONOUS MOTORS:

- Improvement in system efficiency
- Lower electrical output
- Reactive power saving
- Gentle starting and braking to protect materials
- Fast conversion times
- Short delivery times / ex stock

### COMPARED TO 2-STAGE MOTORS:

- No control cabinet conversion thanks to ZITT 2-stage electronics
- Huge reactive power savings
- Improvement in system efficiency
- Fast conversion times
- Subsequent conversion to variable speeds (0–10 V control signal) possible
- Energy savings of up to 30% → Electricity cost reduction

## LEARN MORE!

We look forward to determining your power consumption and offering you a tailored solution for effective energy savings. When doing so, we will provide the following services: system optimisation, electricity cost reduction, energy-saving motors and Red Power drives.

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### MORE INFORMATION ON OUR PATENTED ZITT DRIVE SYSTEM:

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MOTOREN**

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