Wessel
Environmental Technologies

WERO-Rotary Heat Exchanger
Heat recovery from industrial exhaust air

Member of Deurotech Group

Wessel
Environmental Technologies

WERO-Rotary Heat Exchanger

Your advantages:
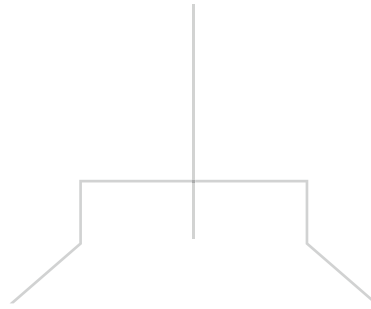
REDUCTION OF ENERGY SUPPLY BY ENERGY CYCLE IN THE PROCESS

HEAT-INSULATED AND SOUNDPROOF HOUSING

PROVEN TECHNOLOGY FOR HEAT RECOVERY

EFFECTIVE CLEANING FOR PERMANENTLY HIGH HEAT RECOVERY

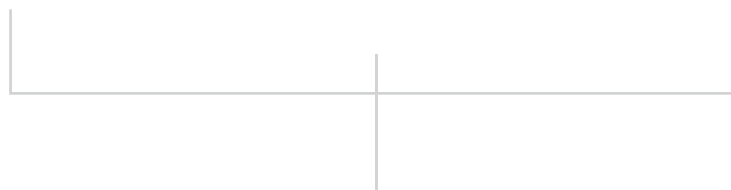AUTOMATIC CLEANING OF ROTARY HEAT EXCHANGER

FILTERS FOR SUPPLY AIR AND EXHAUST AIR PROTECT THE ROTARY HEAT EXCHANGER
AGAINST CONTAMINATION

CLEAN PROCESS SUPPLY AIR BY MINIMISING THE LEAKAGE RATE

MODULAR CONSTRUCTION, EASY TO RETROFIT

MINIMIZED ASSEMBLY TIME ON SITE

DOORS ENABLE EASY ACCESS TO ALL COMPONENTS

Since 1965 your competent partner in all questions of
exhaust air cleaning and heat recovery

FUNCTIONAL PRINCIPLE

Heat energy from emission-containing process exhaust air is transferred via rotary heat exchanger to clean air stream and fed back to the production process. Solid particles or aerosols are retained by filters in front of the rotary heat exchanger.

Application:

» HEAT RECOVERY FROM INDUSTRIAL EXHAUST AIR, CONTAINING DUST, AEROSOLS AND POLLUTANTS, E.G. FROM DRYERS

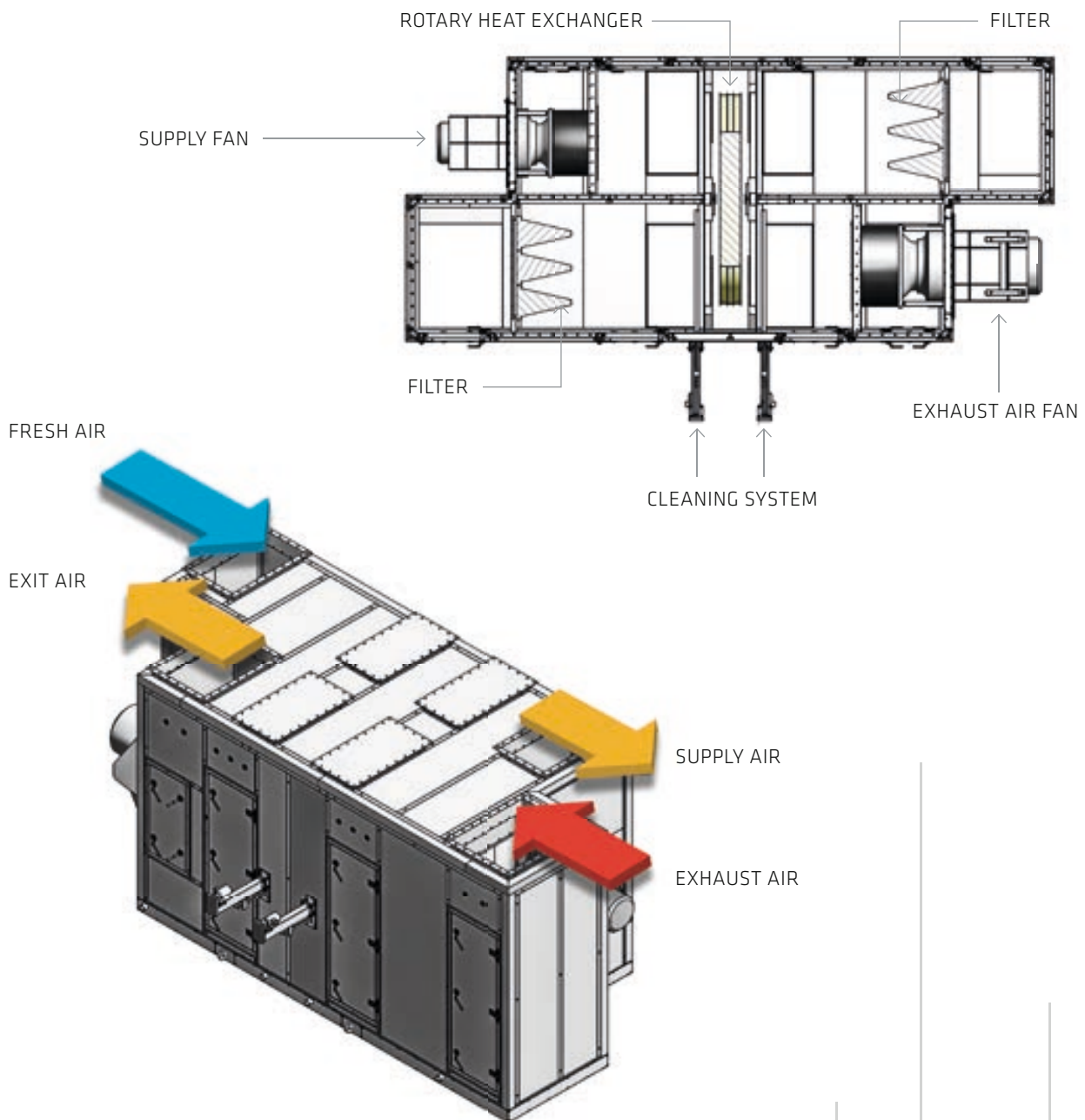» PRE-STAGE FOR BIOLOGICAL SCRUBBERS (FOR THE REDUCTION OF THE EXHAUST AIR SATURATION TEMPERATURE)

Optional equipment:

» ONE-STAGE OR MULTI-STAGE ROTARY HEAT EXCHANGER FOR OPTIMUM ENERGY EFFICIENCY

» WERO-LOGIC: INTELLIGENT PRESSURE COMPENSATION SYSTEM FOR A CONSTANT VOLUME FLOW VIA ROTOR

» ETMC: ENERGY TRANSFER, MEASURING AND CONTROL SYSTEM FOR AN IMPROVED ENERGY TRANSFER FOR DRYERS AND OTHER SYSTEMS WITH HEAT REQUIREMENTS

» SEALING AIR SYSTEM FOR REDUCTION OF LEAKAGES BETWEEN THE SUPPLY AIR VOLUME FLOW AND THE EXHAUST AIR VOLUME FLOW

» DEPENDING ON THE TASK, INDIVIDUAL EQUIPMENT OR DESIGN ADJUSTMENTS ARE POSSIBLE

WERO-Rotary Heat Exchanger

Construction

ROTARY HEAT EXCHANGER

FILTER

SUPPLY FAN

FILTER

EXHAUST AIR FAN

CLEANING SYSTEM

FRESH AIR

EXIT AIR

SUPPLY AIR

EXHAUST AIR

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