



Seven-Air Gebr. Meyer AG
Air Handling Units

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Conversions / Renovations

- Consulting, planning
- Production
- Disassembly and assembly
- Custom-fit conversions and extensions
- Recommissioning
- Waste disposal
- Energetic optimisation
- Updating of order documents and their archiving

Turn old into new - the solution is conversion or renovation

Our throwaway society has a tendency to remove the old and replace it with the new. With the «Monoblocs» ventilation units, this can quickly become expensive. But this is not necessary. Sophisticated refurbishment solutions make a cost-effective conversion possible. The use of new innovative components improves energy efficiency and ensures an attractive pay-back period. In addition, refurbishment often improves the indoor climate as well.

The following are arguments in favour of refurbishing or converting ventilation units:

- savings in operating costs
- no disposal of functional components
- savings in investment costs
- no additional building volume necessary
- no dismantling necessary
- short interruption time, only a few days depending on the situation

At Seven-Air Gebr. Meyer AG, specialists dedicated to the topics of renovations and conversions offer the right solution for all conversion and renovation tasks:

Refurbishment and conversion of

- masonry units
- air handling units (monobloc)

All types and make

- such as Hemair, Orion and Fläkt units

Support from specialists

- advice, planning, implementation
- disassembly and assembly

Manufacture

- in our own factory
- accurate to size in millimetre increments
- reconstruction of the existing colour (RAL)

Renovation	Profit
Replace heat recovery <ul style="list-style-type: none"> ■ Plate heat exchanger with humidity transfer (hygro) ■ Rotary heat recovery ■ Closed-loop heat recovery with ECOSOL-Wave 	<ul style="list-style-type: none"> 👍 Higher energy recovery 👍 Lower operating costs
Replace humidification systems	<ul style="list-style-type: none"> 👍 Reduction of energy and water consumption 👍 Lower operating costs 👍 Compliance with hygiene requirements 👍 Improved indoor climate
Fans <ul style="list-style-type: none"> ■ New energy-efficient fans/motors ■ Adjust air volume sensibly ■ Install volume measuring device 	<ul style="list-style-type: none"> 👍 Reduction of energy consumption 👍 Lower operating costs 👍 Reduced noise emissions
Replacing old components such as: <ul style="list-style-type: none"> ■ Filters with higher filtration efficiency and higher energy efficiency ■ Heat exchanger (Air heater, air cooler) 	<ul style="list-style-type: none"> 👍 Reduction of pressure resistance 👍 Smaller dimensioning of the fans 👍 Lower investment and operating costs
Dry coolers with hybrid recooling system replace «HYBRICOOL»	<ul style="list-style-type: none"> 👍 Increased cooling capacity with the same space requirement 👍 Reduced energy demand 👍 Lower operating costs

Seven steps for successful rehabilitation

Step 1 - Advice

Advice from 7-Air specialists (directly on site if possible).

Step 2 - Expertise

Expertise and submission of a recommendation (incl. indicative prices if requested)

Step 3 - Product selection

Seven-Air offers support in the correct choice of components (e.g. WRG and humidification systems).

Step 4 - Taking measurements

The renovation and conversion specialist takes the measurements on site and also checks the insertion opening.

Step 5 - Planning / preparation

Dismantling and installation are discussed with the client and the optimum time for renovation is defined. New plant and housing components are prepared in advance.

Step 6 - Disassembly/assembly

The contracted installation company is supported by Seven-Air's experienced installation team.

Step 7 - Recommissioning

Seven-Air's specialists are on hand to help with the recommissioning.

Example - Refurbishment project

Installation of Closed-loop heat recovery system

Commercial building, Bellerivestrasse 36, Zurich

Planner: RMB Engineering AG, Zurich

Total contractor: Allreal GU AG, Zurich.

A ventilation centre was installed in the supply air space of the masonry ventilation system. The heat recovery is now carried out with a KVS heat recovery system. The exhaust air space is special. With the newly installed batteries, the room is divided into two chambers in terms of ventilation. The recovered heat energy is fed to the existing heat recovery system in the outside air area. Thanks to the conversion, the energy efficiency of the ventilation system is significantly increased.

- Air volume: 76 000 m³/h
- Heat recovery capacity: 228 kW



Redevelopment/conversion project «Cityport» Zurich

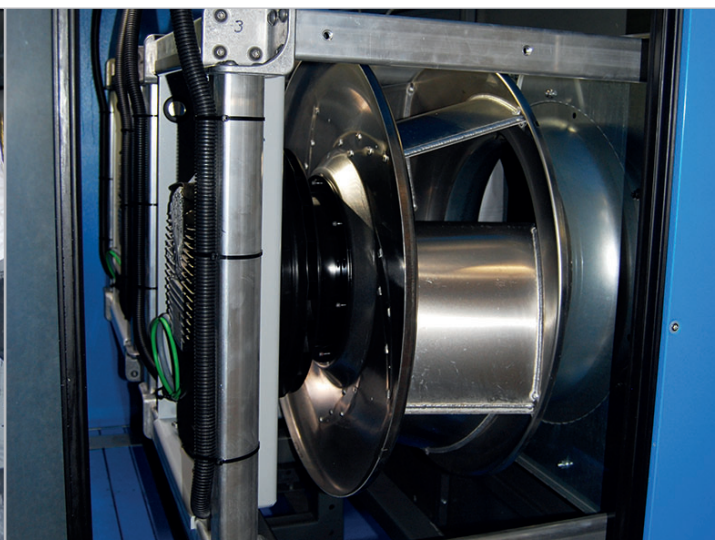
Object: Cityport, Zurich
Planner: Willi Werner Engineering GmbH, Zurich
Installer: ENIP AG, Glattbrugg

This refurbishment project focuses on the factors of energy and hygiene. With new energy-efficient fans, energy consumption is significantly reduced. Thanks to the new modern humidification system, water and energy are saved. In addition, the new system complies with the hygiene directive SWKI VA104-01.

- Number of air handling units: 5
- Total air volume flow 150'000 m³/h
- Conversion date 2021 to 2022 (in stages)



Old housing fan is removed and...



...replaced with two fans with EC motors (IE5).

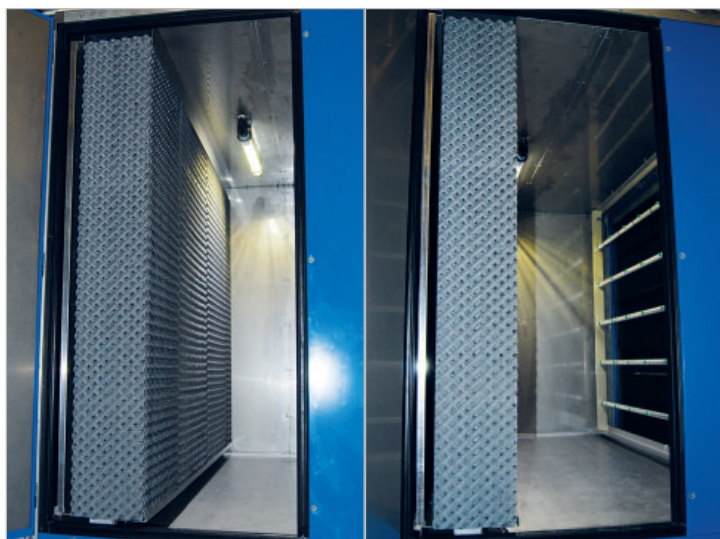
Delivery contents Seven-Air Gebr. Meyer AG

Components

- SA-EA -Fan Wall with 2 free-wheeling fans EC each
- Flex collar
- Hybrid humidifier incl. evaporation unit and pump station
- Conversion trough with drain, rear wall and ceiling (W-No. 1.401)
- LED lighting
- Unit housing 7Air in ORION blue

Work performance

- Dismantling and disposal of droplet separator, complete contact humidifier, lighting, housing ventilators incl. motors, fans incl. motors, flex sleeve, old housing parts
- Provision of the necessary installations for the (lifting equipment, platforms, tools, etc.)
- Installation of the fans and the humidification system
- Provision of a conversion team (4 persons)
- Function check, commissioning



Installation of new efficient hybrid humidifier



7Air revision front mounted on humidifier section