







SYSTEMS AND SOLUTIONS INDIVIDUAL COMPLETE SOLUTIONS

INDUSTRY SOLUTION

Industry:

Digital printing machines for cans and tubes

Project:

Development of a project-related system solution for a central air supply both on the suction and the pressure side.

The result is a compact and separate air cabinet that provides an assembly-ready electrical ventilation technology connection. The advantages here are the reduction of heat development and noise emission as well as easy maintenance possibilities.

Elektror's performance:

- Design of individual devices that meets the respective requirements
- Construction of the air cabinet
- internal pipeline design
- Execution and placement of the electrical and ventilation-related interfaces
- Cooling air calculation
- Complete "plug-and-play" delivery
- Approval of the air cabinet with measurements on site at the client's premises





AIR CABINET

Content of the air cabinet:

- Low-pressure ventilator 2D 052
- Medium-pressure ventilator RD 10
- High-pressure ventilator HRD 1 T FUK 105/1.1
- Side channel blower 1SD 710 50/4.0
- Side channel blower 1SD 810 50/5.5
- Side channel blower 2SD 520 50/4.0

Technical data:

Vacuum/pressure -355 mbar up to +500 mbar

Volume flows 3.8 m3/min to 30 m3/min

Power output 0.56 kW up to 5.5 kW



"Machines and plant manufacturers are no longer only looking for individual components. They are looking for a complete ventilation technology solution for their application." Rainer Balle, Product Management

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INDUSTRY SOLUTION

Industry:

Cleaning systems

Project:

Development of a module used for the drying of parts.

An air heater is used to achieve a circulating air temperature of 170°C, which then dries the products using aerosol precipitation. The advantages of our solution lie in the energy and cost savings. The required heating capacity is minimised through the use of a closed circulation system. Thanks to its compact construction, the drying module can also be used in systems in confined spaces without a problem.

Elektror's performance:

- Design of the ventilator that meets the respective requirements
- CFD flow simulation
- Aerosol precipitator
- Construction air box
- Measurement in the lab
- Complete "plug-and-play" delivery
- Approval of the air box on site at the client's premises





DRYING MODULE

Content of the drying module:

- High-pressure ventilator HRD 1 T FUK 105/0.75
- Tube air heater
- Aerosol precipitator

Technical data:

Pressure 5,500 Pa
Volume flows 9 m³/min
Temperature of medium 170°C
Output 0.75 kW
Heat output 8.5 kW



"Whether you're looking for heat, ATEX or energy savings – Elektror offers solutions in a one-stop shop!" Rainer Balle, Product Management





SYSTEMS AND SOLUTIONS

If the ventilator or side channel blower is installed The objective is to create installation-ready and individual complete solutions that are coordicorrectly, you will enjoy energy savings and improved performance of the unit. That's why it is nated to the system according to relevant reguirements, based on decades of experience all the more important to install the ventilator into

dustries and applications.

The factors influencing this performance are the pipes' diameters and lengths, bends and other resistance impacting the flow. Just like in an orchestra, each component of a system must be perfectly coordinated to the parts of the system carrying the air. The experts at Elektror have specialised in the optimal design and calibration of the components in such a system. The Elektror-specific knowledge regarding the construction and design of ventilation systems led to the decision to create the "Systems and Solutions" department.

the existing system intelligently, so that it can pro-

vide maximum performance.

We handle all of the design and construction all the way to the installation-ready delivery of the complete systems and modules.

and close collaboration with customers in all in-

Whether you require installation-ready drying modules or an air cabinet ready for connection and equipped with various devices and functional units: The variance and the challenges associated with that are as versatile as the construction of machines and systems. Let us handle your ventilation projects in our hands and you will receive an energy-efficient system.

THE PRINCIPLE

Step 1: **PLANNING THE SYSTEM**



Step 2: **COORDINATION WITH THE ELEKTROR EXPERTS**



Step 3: **ROUGH PLANNI AND BUDGET**

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YOUR ADVANTAGES



The advantages of a system solution:

- "Plug-and-play": Installation-ready complete solution
- Individual: Custom-tailored design of the system
- Cost-efficient: Energy and cost savings
- Reliable: We look after your ventilation technology
- "All-in-one": Solutions from a one-stop shop
- Professional: Decades of practice in design and construction

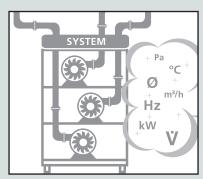


"No matter how highly efficient your ventilator may be, in the end it is all for naught if the air flow in the system has to be forced through pipes that are dimensioned insufficiently or past sharp edges."

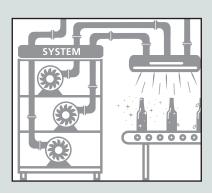
Stefan Dieterich, Product Management



Step 4: **ENGINEERING AND MANU-FACTURE**



Step 5: **INSTALLATION-READY DELIVERY**











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