



TECHNOV



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01

COMPANY PROFILE

About company

The company TECHNOV s.r.o was established in 2007 after transformation of the company LAMES and it follows a long tradition of producing air conditioning components.

The newly established company TECHNOV started its manufacturing production in the original halls of the former company Lames in the Rumanová municipality and through innovation and the purchase of new modern equipment in 2007-2008 the company proceeded to modernize and develop it. The TECHNOV production facilities are currently located in production halls which are designed according to the latest modern technologies with the aim of achieving the optimal production standard with focus on product quality. The company TECHNOV s.r.o. successfully provides complex services in the area of production of components for air conditioning and ventilation.

Our products are suitable for the following areas:

- production spaces
- medical spaces
- cultural and sporting facilities
- administrative spaces
- shopping centres
- shops and business spaces
- hotels and catering facilities
- technological containers, aspirators
- households and others



We place emphasis on technological requirements that are absolutely necessary for ensuring the functionality and high standard of current architectural complexes.

The priority for TECHNOV is the quality and reliability of our products. We place emphasis on a flexible approach towards our business partners and the prompt resolution of their requests. Modern technological procedures and knowledge are the cornerstone of our uniqueness in this field:

- Highly qualified employees with many years of experience in the area of development and manufacture of shaped air conditioning components and piping; their design and technical advice are key to our success.

- TECHNOV currently employs approximately 110 employees, most of whom are technical workers directly in production, and also administrative workers and drivers.
- The implementation of information technologies into the processes of production and product bar code labelling leads to clarity and the easy identification of components. The combination of bar codes with 3D output from CAD software leads to the efficiency of the component assembly process.



We offer our customers short delivery times, attractive competitive prices and product delivery with our own vehicles to the place of destination.



Since 2009 the company **TECHNOV** has had a developed certified management system.



Through these certificates we guarantee our customers the long term quality of our products. Our quality policy is part of all the visions, goals and strategies of our company.



Quality management system according to ISO 9001



Environmental management system according to STN EN ISO 14001

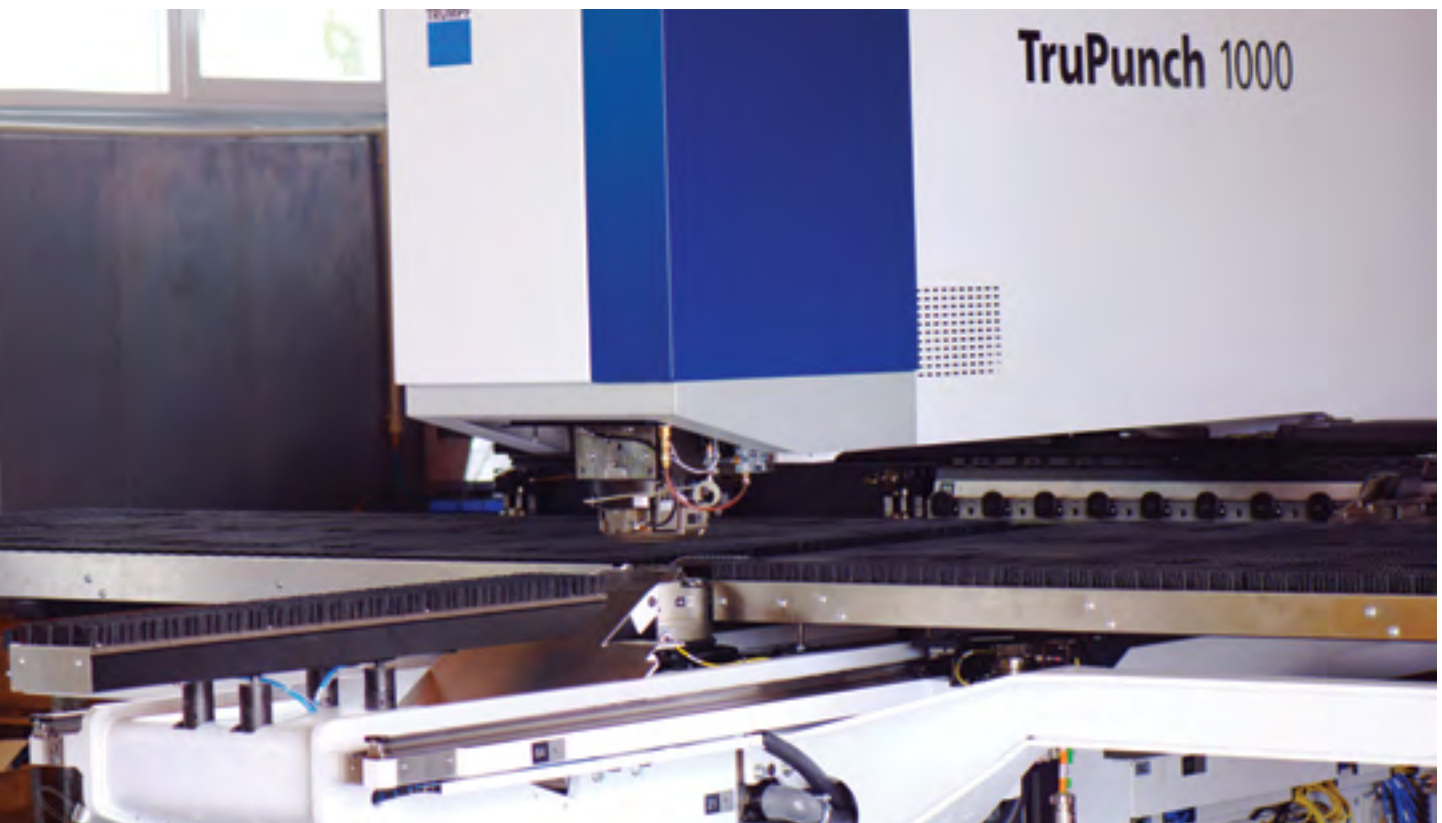
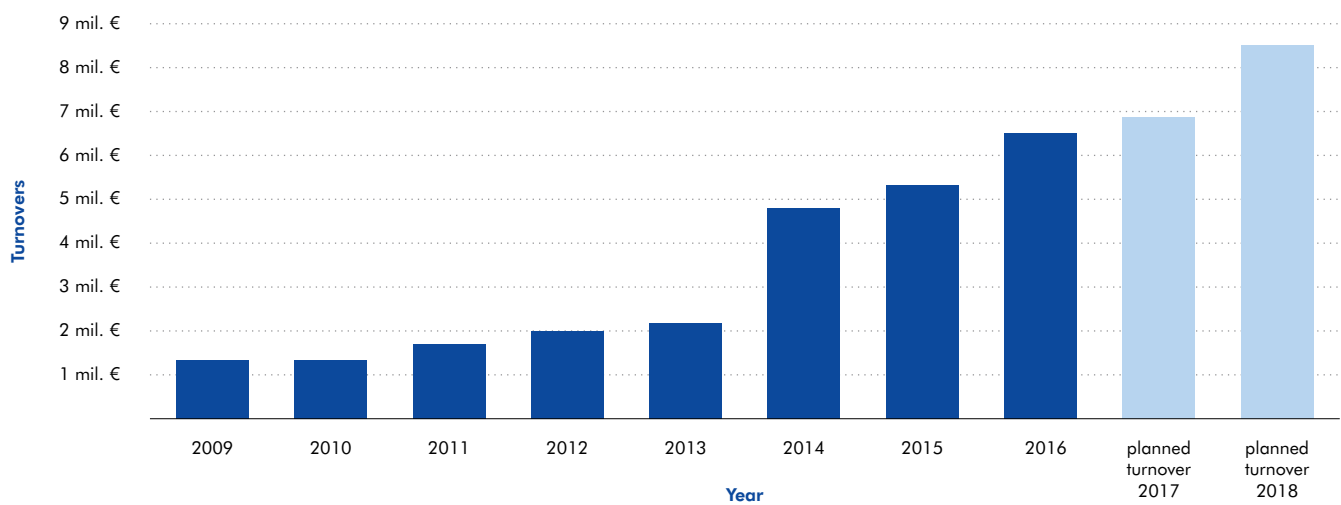


OHS management system according to STN EN OHSAS 18001

01

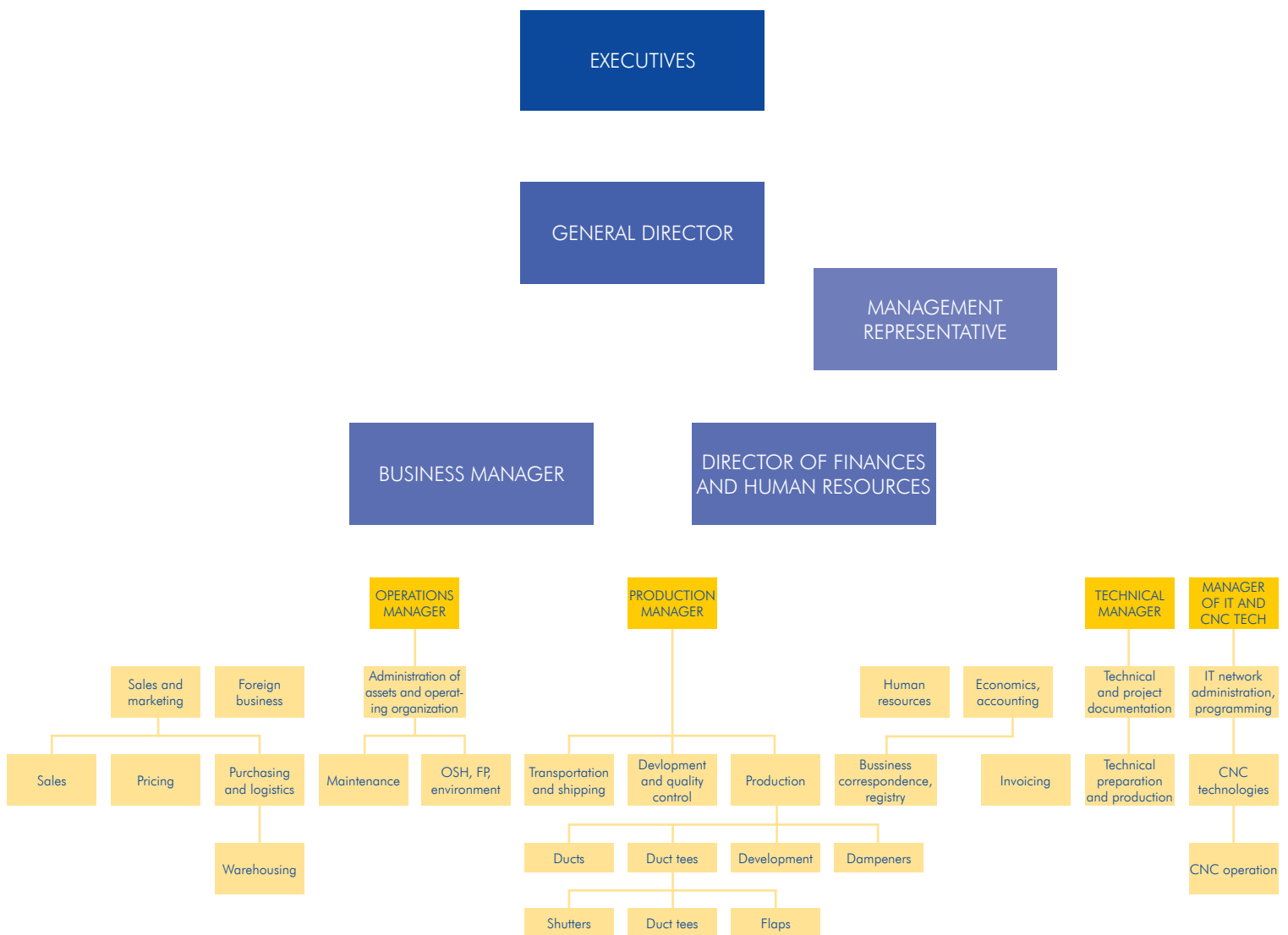
COMPANY PROFILE

Turnovers





Organizational structure



02 PRODUCTS

Production program

TECHNOV is responsible for the manufacture of its products, which are manufactured to the highest quality according to standards STN eN 1505, STN eN 1506, STN eN 1507, STN eN 12237 and DIN 24191, DIN 24145 and DIN 24147.

All components are normally made of galvanized sheet DX51D Z275 MAC. Based on the customer's requirements it is possible to make components from other materials (stainless steel, aluminium, copper, and others). We supply air conditioning products not only for customers on the domestic market but also to other European countries such as Austria, France, Germany and the Czech Republic.

The production program consists of the following components:

- rectangular ducts and duct tees
- coiled ducts and round tees
- round elbows 15°-135°
- connectors for round pipes and tees
- round caps
- round regulating flaps, also in tight variant
- collars for rectangular and round pipes
- round and rectangular exhaust pipes with screen
- round and rectangular direct exhaust pieces
- round and rectangular inlets/outlets
- vapour extractors
- anti-rain shutters, also a profiled Al variant
- anti-noise shutters
- anti-sand shutters
- rectangular and round flexible connections
- noise dampeners round and rectangular
- sanitary rectangular noise damping inserts
- sanitary cellular noise dampeners
- rectangular regulating flaps
- protective grilles rectangular and round
- rectangular automatic flaps
- diffuser boxes for rectangular and round plates
- fireplace air distribution ducts
- front plates
- and many other air conditioning components



Our vision is to expand the export of Slovak products of TECHNOV to countries of the European Union.





03 TECHNOLOGIES

Modern technologies

In addition to proven technologies TECHNOV utilizes a wide range of new, modern technologies for the production of air conditioning components and constantly follows the

development trends of equipment and work procedures used in our activities, which leads to the high standard of our manufactured products.

The production line includes the following technologies:



RAS DUCT ZIPPER

Device for folded closing of extremely narrow rectangular pipes

SWAH LINK

Automatic line for producing rectangular pipes

ATTEXOR – Rivlinch

Pneumatic manual device for producing a pressure pressed connection without breaking the surface of the material



TORMEC ARC – DUAL

Device designed for the production and closing of folds on round components

PLASMA CUTTING

Flame cutting parts of any shape with a plasma cutting machine

PRESSING MACHINE - VS 5

Machine designed for producing air conditioning flanges of sizes 20 and 30 mm

PRESS BRAKE SAFAN 6020

Technology for sheet bending with maximum accuracy and speed

SPOTCLINCH

Pneumatic standing device for producing pressure pressed connections without breaking the surface of the material



TORMEC TUBO NOVA

Machine designed for the production of round, spiral wound pipes



STITCH WELDER STITCHWELDER 1000 MM

Connecting of sheets using stitch welding



Responsible employees constantly follow the development trends of equipment and work procedures used in our activity, which leads to the high standard of our manufactured products.



PUNCHING MACHINES TRUMPF TRUMATIC 200, TRUPUNCH 1000

Processing of sheets and manufacturing of parts for components by precision cutting

WELDING OF KÖCO ELEMENTS



LASER TRUMATIC L 3030

Sheet metal processing and the production of parts for components by precision laser cutting, to a thickness of 20 mm (depending on the cut material)

TIG WELDING

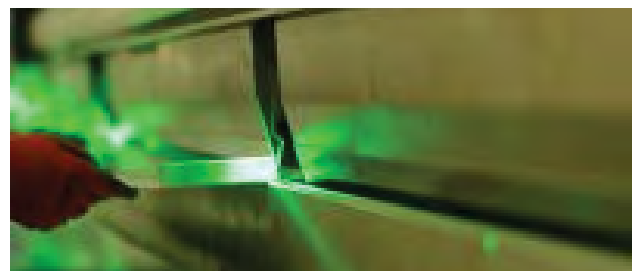
Precise welding of thin stainless steel and aluminium sheets using TIG technology under a protective atmosphere

NOISE DAMPENER PRODUCTION LINE

A line constructed specifically for the company's requirements, designed for manufacturing casings and reinforcements of the noise dampener bodies.

PRESS BRAKE TRUMPF TRUBEND 3120

MIG/ MAG WELDING, RESISTANCE WELDING



04 REFERENCES


Administrative and residential facilities


Air conditioning elements and piping made by our company were installed into large and significant projects and buildings both in Slovakia and also abroad.



Zuckermandel


 Bratislava

 120 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

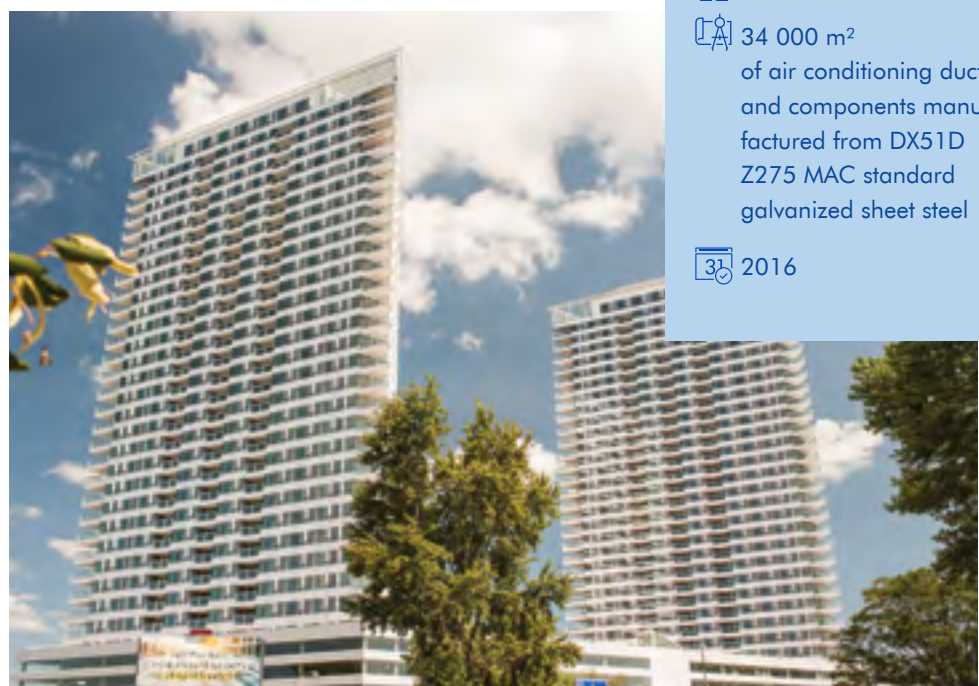
 construction is still in
progress since 2015

Panorama City

 Bratislava

 34 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel


 2016



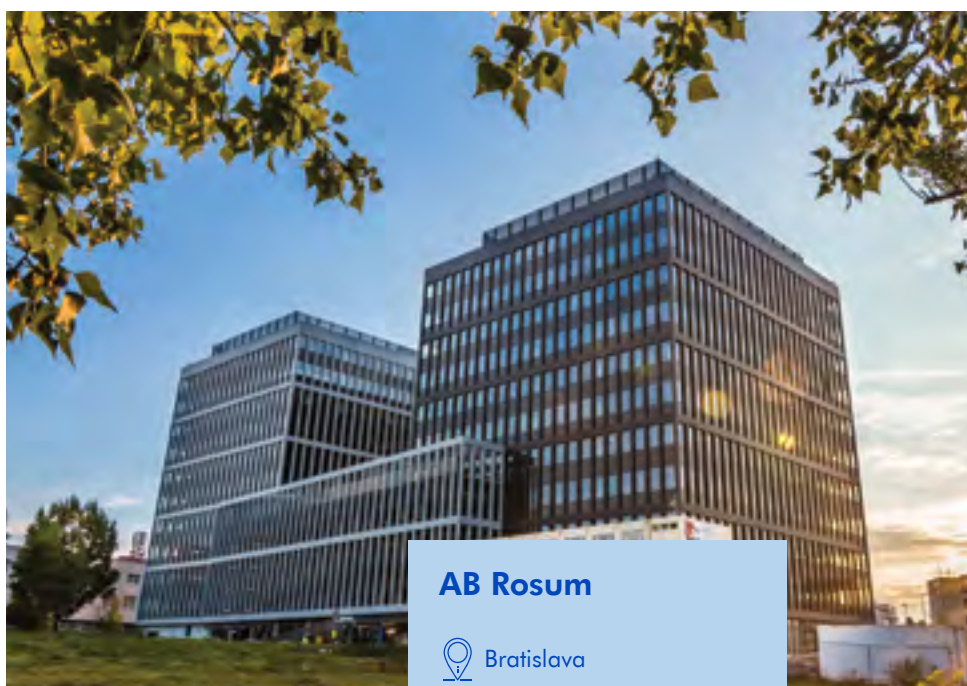


Digital Park III

 Bratislava


 20 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

 2016



AB Rosum

 Bratislava

 14 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

 2016

04 REFERENCES

Production and logistics halls

Air conditioning elements and piping made by our company were installed into large and significant projects and buildings both in Slovakia and also abroad.




Volkswagen Bratislava


 Bratislava

 120 000 m² of air conditioning ducts and components manufactured from DX51D Z275 MAC standard galvanized sheet steel and special output heads with a reinforced load-bearing structure

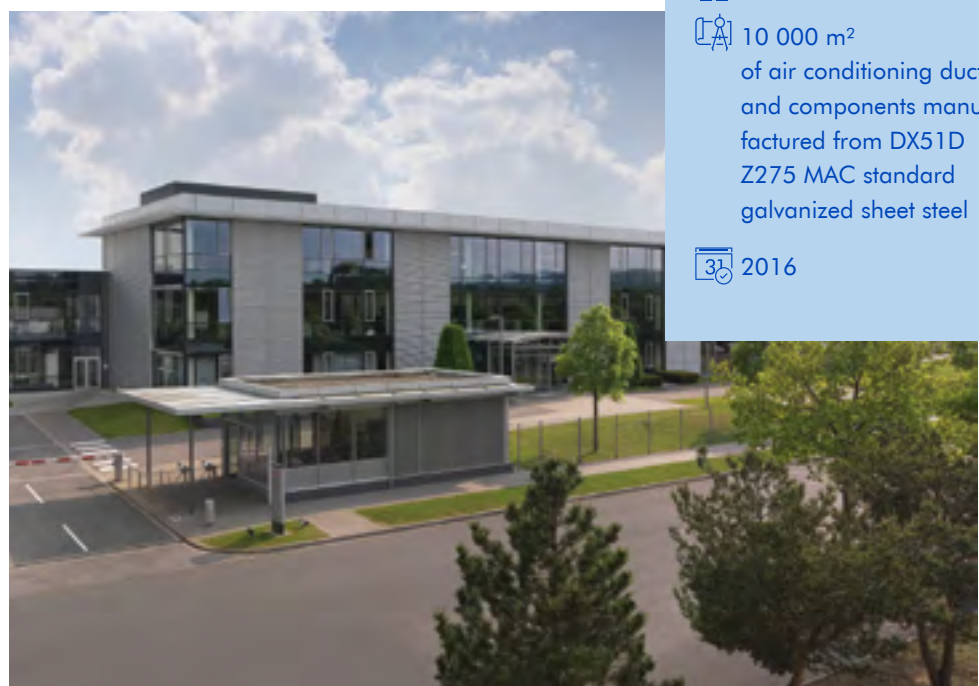
 construction is still in progress since 2016

Brose

 Prievidza

 10 000 m² of air conditioning ducts and components manufactured from DX51D Z275 MAC standard galvanized sheet steel


 2016






Lear Corporation

 Prešov


 4 000 m²
of air conditioning ducts
and components manu-
factured from DX51D Z275
MAC standard
galvanized sheet steel

 construction is still in
progress since 2016



Bekaert

 Sládkovičovo

 20 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

 2016

04 REFERENCES

Hotel complexes, restaurants

Air conditioning elements and piping made by our company were installed into large and significant projects and buildings both in Slovakia and also abroad.



Hotel Kameha Grand Zürich



Swiss



13 500 m²

of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel



2016

Hotel Panoráma



Trenčianske Teplice



10 000 m²

of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel




2016





Hotel Kempinski River Park

 Bratislava

 12 000 m²
of air conditioning ducts
and components manu-
factured from DX51D Z275
MAC standard
galvanized sheet steel

 2013

04 REFERENCES


Shopping and entertainment centres

Air conditioning elements and piping made by our company were installed into large and significant projects and buildings both in Slovakia and also abroad.



Bory Mall


 Bratislava

 13 500 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

 2016

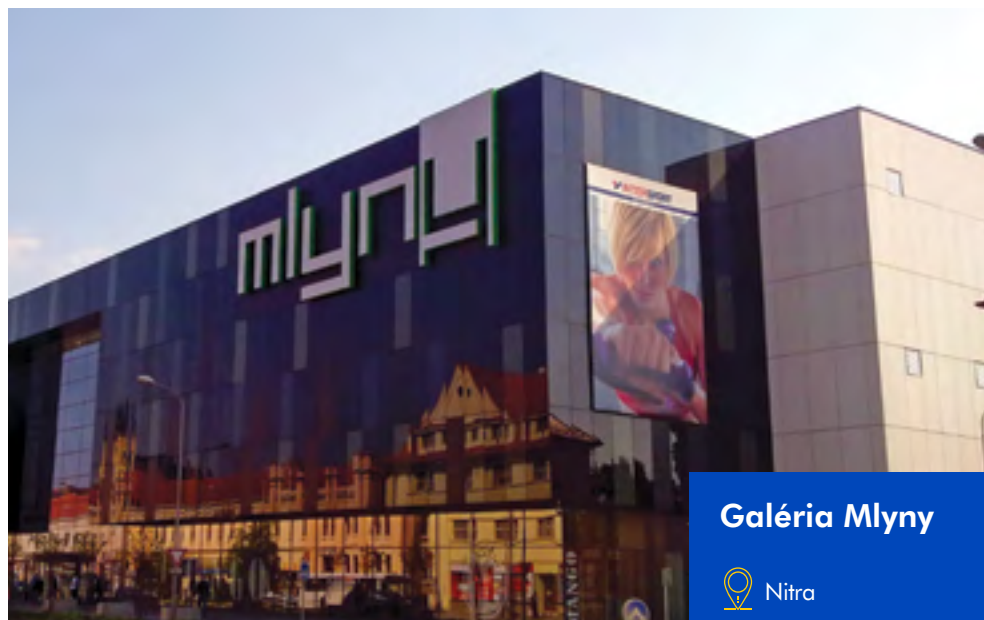
City Aréna

 Trnava

 14 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

 2016





Galéria Mlyny

 Nitra


 13 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

 2015



OC Galéria Lučenec

 Lučenec

 17 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

 2016

05

ATYPICAL PRODUCTION PROGRAM

Air conditioning for container systems

Air conditioning component production for technological containers installed in various countries where they must meet difficult climatic conditions such as low or high temperatures, or high dustiness.

Countries: India, Russia, Nigeria



The containers in these pictures were realized as an order to the country of India.





Air conditioning components for sanitary environment

TECHNOV in its product portfolio also offers air conditioning ducts, which are used in environments with high sanitary requirements. These include, for example, hospitals, or the pharmaceutical industry. The tightness class of these ducts is: **D**.

The duct is cleaned with a disinfectant and packaged in anti-static film.

Instead of a regular cashmere cloth the noise dampeners use special electro fabric ensuring quality under MIT Decree 460/2005 Coll. TECHNOV already uses this fabric as a standard for all its dampener versions.



Air conditioning for nuclear power plants

TECHNOV also manufactures air conditioning components for nuclear power plants (TPE N 107/85), when the components are placed in a controlled area. These components ensure the highest seismic resistance, Category 1a – functionality and integrity.

- seismic certification for flap regulation follows the standards STN IEC 60980 and STN IEC 60780

06 IT SYSTEM

In order to efficiently utilize information, our specialized technical workers use systems which are designed to produce high quality and relevant information required for the management and production processes.

TECHNOV s.r.o. currently uses a complex enterprise information system developed for its own needs. It's an open, fully customizable according to immediate requirements, modular ERP system utilizing Client / Server technology.

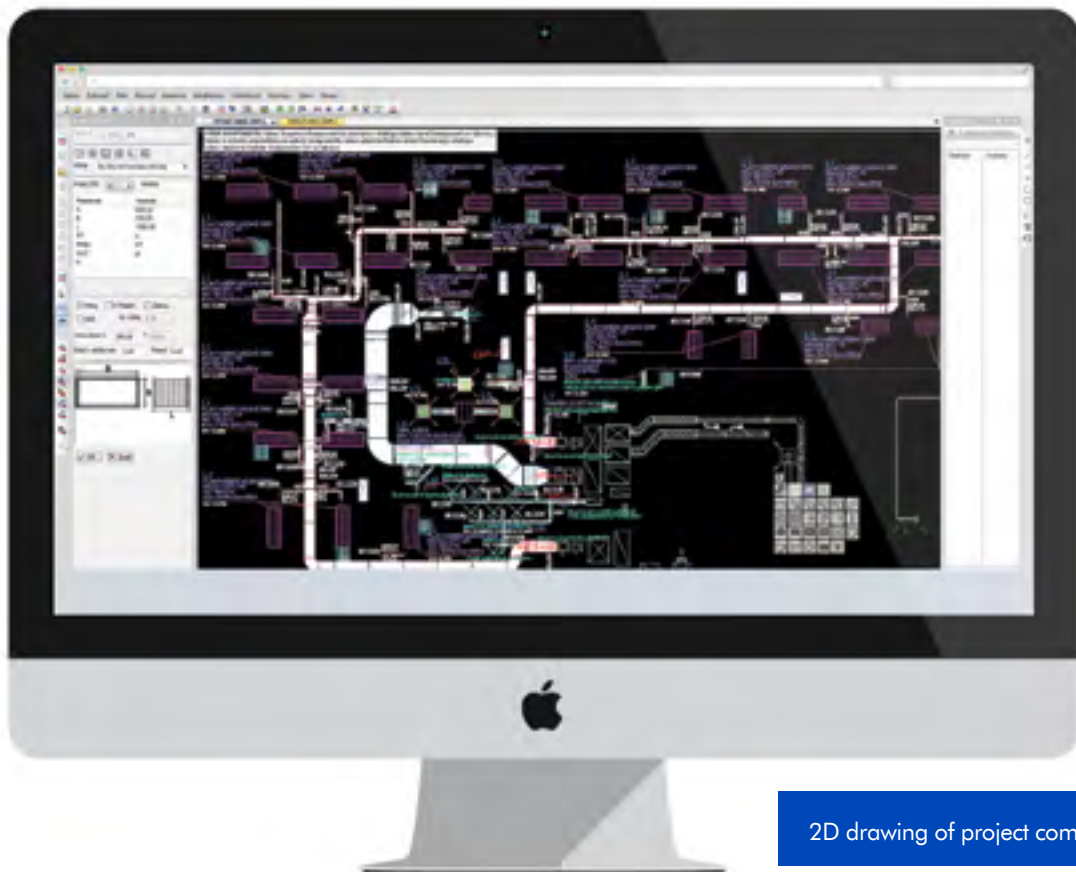
Import of drawing documentation is in standard formats .dwg, or .pdf. The system offers output in the form of price offer, documentation for the entire production process, and, last but not least, output in 3D for duct assembly, which will be appreciated particularly by installation and execution groups.

- assembly documentation in 3D visualisations
- outputs according to individual sectors (branches, facilities, floors, etc.)
- positional numbers for individual components

As a supplement to the primary production software, we utilize in the production process also our own system of Intranet applications.



The IT system grows along with the development of our company

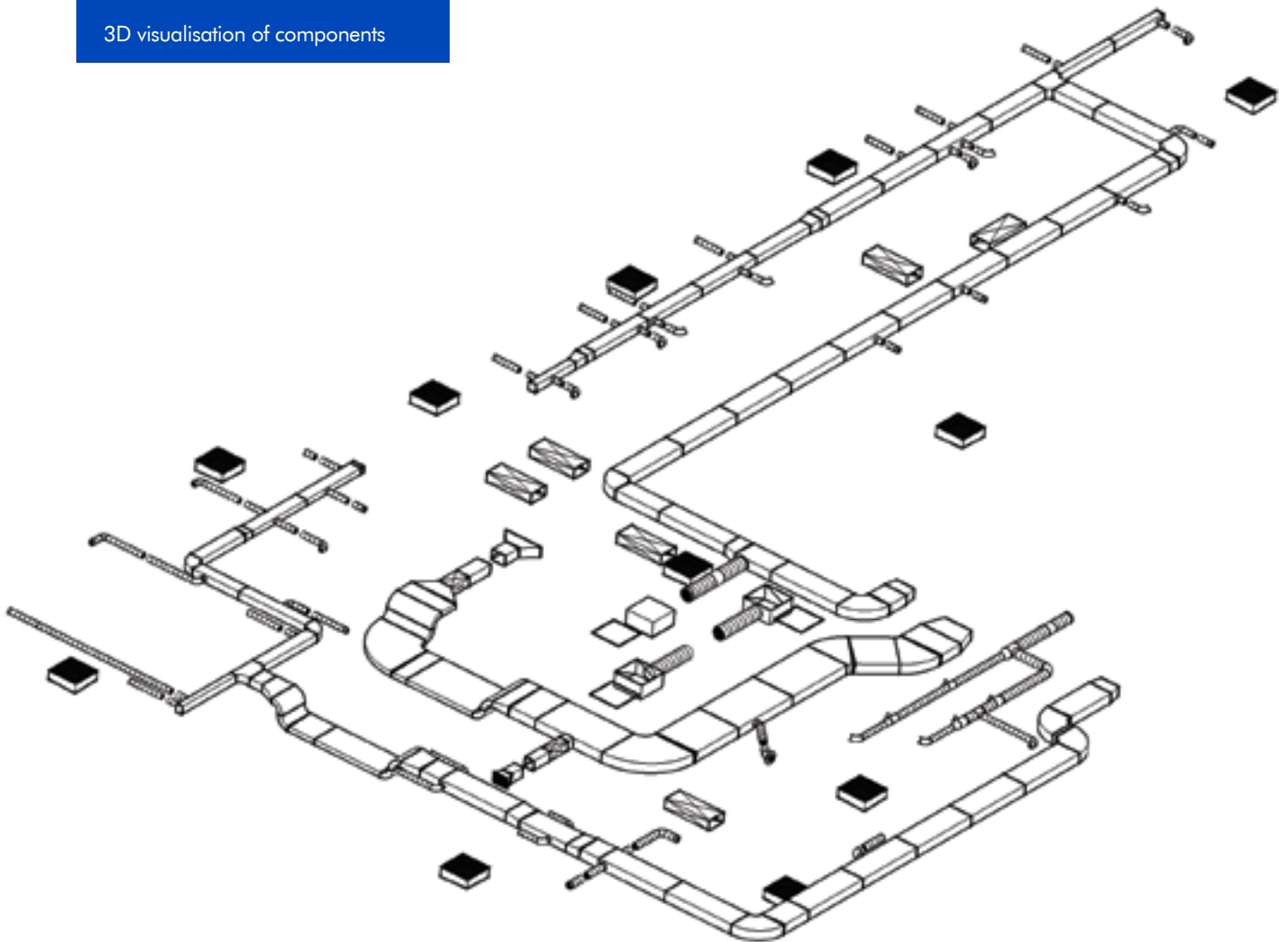


2D drawing of project components

2D vs. 3D

3D component visualisation export is used as a model and helpful assistance especially when installing ducts, which will be appreciated particularly by installation and execution groups. The export can be overall or by individual sectors, e.g. branches, facilities, floors, etc.

3D visualisation of components



07

VISION FOR THE FUTURE

New production complex

Investment of 22 mil. €

- Total area 20,000 m²
- Production spaces 6,300 m²
- Technologies for approx. 12 million €
- Creation of 350 jobs
- Significant increase in production capacity
- Development and expansion of the portfolio of offered products and services
- Increasing exports



Validity of the construction permit	05/2016
Start of construction	10/2016
Commissioning of the production hall and paint shop	09/2017
Commissioning of the office building	12/2017
Start of construction of the development centre	2022 – 2023

S0 204
PAINT SHOP +
WAREHOUSE

S0 203
PRODUCTION HALL

S0 201
OFFICE BUILDING

S0 202
DEVELOPMENT
CENTRE





Research and development

Experimental research of the parameters and functional properties of the equipment in the area of measured variables:

Heat-technical - extreme temperatures of -150°C to 120°C, heat losses

- Product durability in various climatic conditions

Hydrodynamic - pressure, flow, gas leak

- Improvement to the ecological and economic level of air conditioning ducts

Mechanical - forces, mechanical stress and deformations

- Resistance against coarse impurities

Acoustic - noise, noise dampening, vibrations

- Improvement to the acoustic properties of air conditioning ducts

Ecological and sanitary properties



08

PRODUCT PORTFOLIO

As standard, air conditioning ducts are manufactured from tested materials, which are made of DX51D Z275 MAC galvanized steel sheets.

TECHNOV offers its customers a wide range of materials such as stainless steel, aluminium, copper, etc. Therefore, the selected product material only depends on the customer's requirement.

SQUARE DUCT

Pressure grade 1

Ducts intended for ventilation, air conditioning and air extraction without mechanical and abrasive particles and without corrosive gases and vapours that promote excessive wear or corrosion of steel or zinc.

Pressure grades 2 and 3

HCZ rectangular ducts groups II and III intended for the extraction of hot gases (up to 200-350 °C), for dust removal from technological machines containing abrasive materials (at low speeds of movement), chimneys, dryers and low pressure pneumatic transport.

The standard version of the ducts corresponds to tightness class A (sealed corners).

If the duct has all folded joints caulked, it corresponds to tightness class B.

In tightness class C the profile flanges are caulked as well.

Tightness classes are regulated by the STN EN 1507 standard.

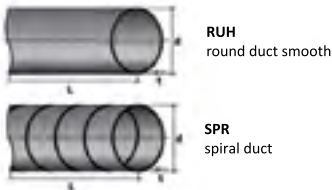
ROUND DUCT

A wound spiral round duct is used mainly for the needs of assembly and construction of air conditioning, ventilation and exhaust systems with the following parameters

- maximum temperature of transported air 80°C,
- maximum relative humidity 80%,
- maximum allowed air speed 20m/s,



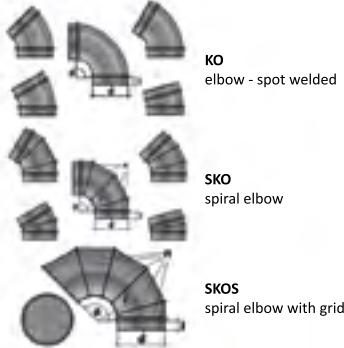
ROUND STRAIGHT DUCTS



RUH
round duct smooth

SPR
spiral duct

ROUND ELBOWS

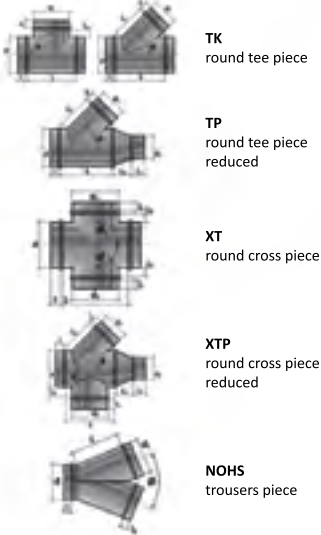


KO
elbow - spot welded

SKO
spiral elbow

SKOS
spiral elbow with grid

ROUND TEE PIECES AND BANCHES



TK
round tee piece

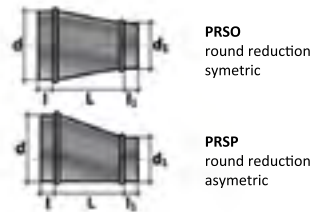
TP
round tee piece reduced

XT
round cross piece

XTP
round cross piece reduced

NOHS
trousers piece

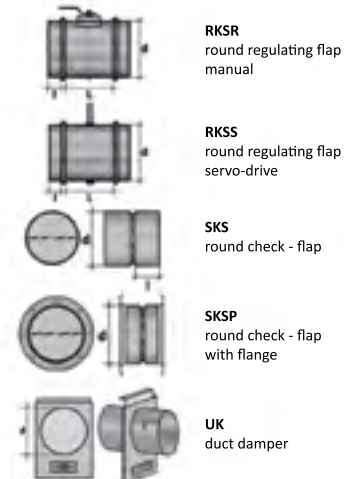
ROUND REDUCTIONS



PRSO
round reduction symetric

PRSP
round reduction asymetric

REGULATING AND CHECK FLAPS



RKSR
round regulating flap manual

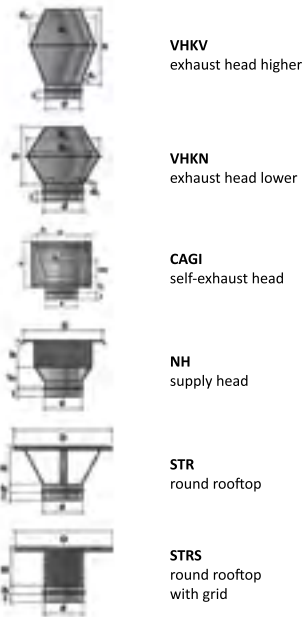
RKSS
round regulating flap servo-drive

SKS
round check - flap

SKSP
round check - flap with flange

UK
duct damper

ROUND EXHAUST HEADS AND ROOFTOPS



VHKV
exhaust head higher

VHKN
exhaust head lower

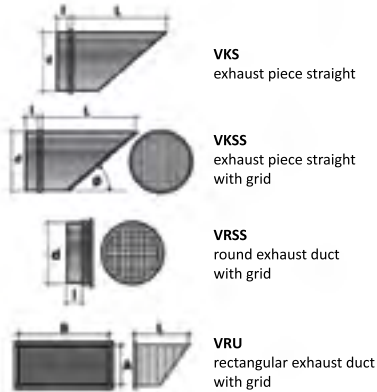
CAGI
self-exhaust head

NH
supply head

STR
round rooftop

STRS
round rooftop with grid

EXHAUST PIECES AND DUCT



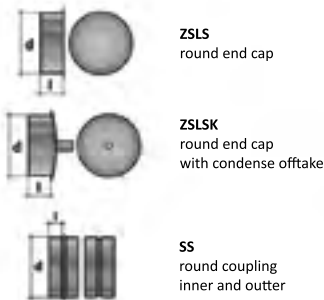
VKS
exhaust piece straight

VKSS
exhaust piece straight with grid

VRSS
round exhaust duct with grid

VRU
rectangular exhaust duct with grid

ROUND END CAPS AND COUPLINGS



ZSLS
round end cap

ZSLSK
round end cap with condense offtake

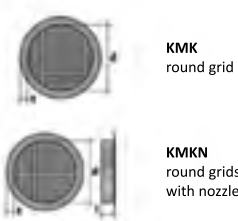
SS
round coupling inner and outer

COLLAR



OKA
round collar

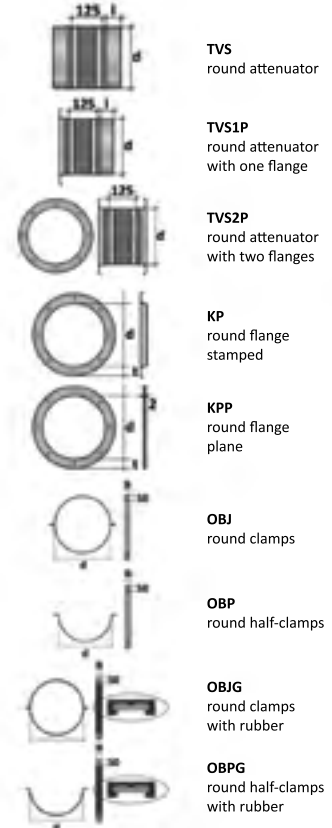
ROUND GRIDS



KMK
round grid

KMKN
round grids with nozzle

ATTENUATORS, FLANGES, CLAMPS



TVS
round attenuator

TVS1P
round attenuator with one flange

TVS2P
round attenuator with two flanges

KP
round flange stamped

KPP
round flange plane

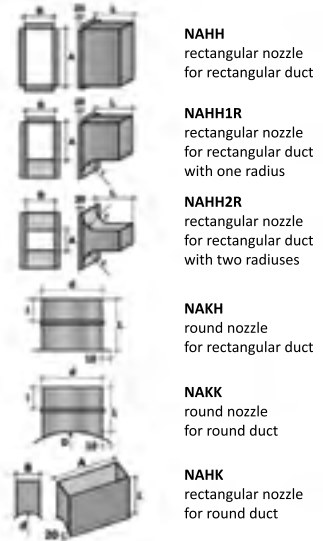
OBJ
round clamps

OBP
round half-clamps

OBJG
round clamps with rubber

OBPG
round half-clamps with rubber

NOZZLES



NAHH
rectangular nozzle for rectangular duct

NAHH1R
rectangular nozzle for rectangular duct with one radius

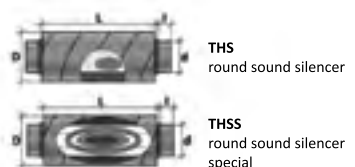
NAHH2R
rectangular nozzle for rectangular duct with two radiuses

NAKH
round nozzle for rectangular duct

NAKK
round nozzle for round duct

NAHK
rectangular nozzle for round duct

SOUND SILENCER AND SILENCER INSERTS

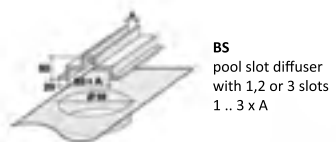


THS
round sound silencer

THSS
round sound silencer special

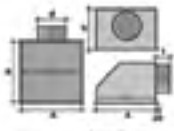
When silencer type THS or THSS the diameter $d \geq 900$ mm normally available as an optional mounting console.

POOL SLOT DIFFUSER

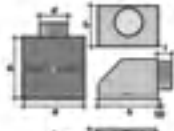


BS
pool slot diffuser with 1, 2 or 3 slots 1 .. 3 x A

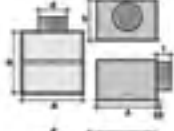
CEILING DIFFUSOR BOXES



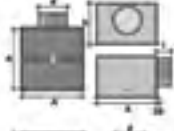
ASHADQ
ceiling diffuser box
ADQ exhaust



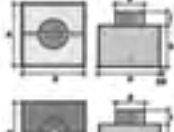
ASHADQ2
ceiling diffuser box
ADQ supply



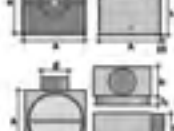
ASHB
ceiling diffuser rectangular
box with horizontal
connection - exhaust



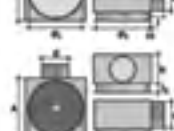
ASHB2
ceiling diffuser rectangular
box with horizontal
connection - supply



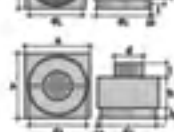
ASHV
ceiling diffuser rectangular
box with vertical
connection - exhaust



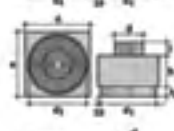
ASHV2
ceiling diffuser rectangular
box with vertical
connection - supply



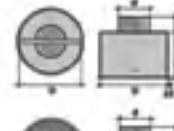
ASHKB
ceiling diffuser rectangular box
for round board
with horizontal connection - exhaust



ASHKB2
ceiling diffuser rectangular box
for round board
with horizontal connection - supply



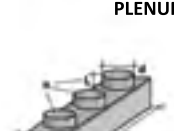
ASHKV
ceiling diffuser rectangular box
for round board
with vertical connection - exhaust



ASHKV2
ceiling diffuser rectangular box
for round board
with vertical connection - supply

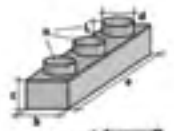


ASK
round ceiling diffuser box
with vertical connection - exhaust

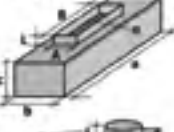


ASK2
round ceiling diffuser box
with vertical connection - supply

PLENUM BOXES



KRBKN
plenum box
with round connection



KRBHN
plenum box with
rectangular connection

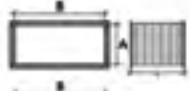


NAFCP
plenum box
asymmetric

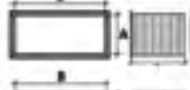


NAFCO
plenum box
symmetric

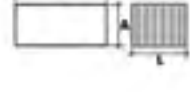
STRAIGHT RECTANGULAR DUCTS



RU
straight rectangular duct

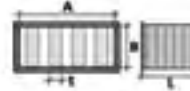


RUVF
straight rectangular duct
with free-flange



RUBP
straight rectangular duct
without flanges

SOUND SILENCER AND SILENCER INSERTS



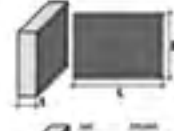
THP
duct sound silencer



TLHB1
cell sound silencer



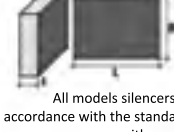
TLHB2
cell sound silencer
with perforated sheet



TLHH1
silencer insert THP



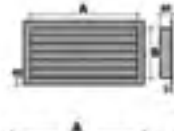
TLHH2
silencer insert THP,
one half of both sides
plated with sheet metal



TLHH3
silencer insert THP,
with perforated sheet

All models silencers are available in hygienic design in accordance with the standards for hospitals and general aircondition, with rounded edges including

PRESSURE RELIEF DAMPERS (SELF-MOVED)



SKH
self-moved rectangular damper
into the duct (pressure relief)

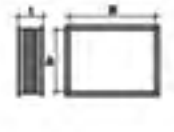


SKHP
self-moved rectangular damper
in the duct (pressure relief)



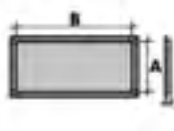
SKHS
self-moved rectangular damper
for the facade (pressure relief)

RECTANGULAR ATTENUATOR



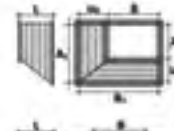
TVH
Rectangular attenuator

END CAPE



ZSLH
rectangular end cap

RECTANGULAR REDUCTIONS, ELBOWS, KNEES, TEE PIECES, TROUSER PIECES



PRP
reduction rectangular
asymmetric



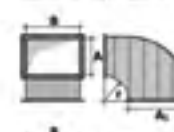
PRO
reduction rectangular
symmetric



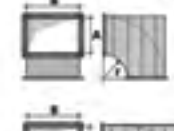
PRSKS
reduction rectangular to round
symmetric



PRSKA
reduction rectangular to round
asymmetric



OB
rectangular elbow



PROB
rectangular elbow-reduced



HKO
rectangular knee



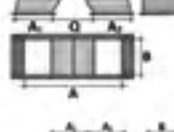
PRKO
rectangular knee-reduced



RZBR
rectangular tee piece
straight



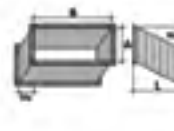
RZBS
rectangular tee piece
sloped



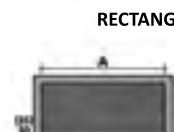
RZBX
rectangular cross piece



NOHH
rectangular trouser-piece
symmetric

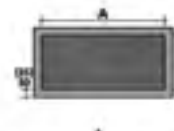


NOHH2
rectangular trouser-piece
asymmetric



ODS
rectangular offset

RECTANGULAR GRIDS

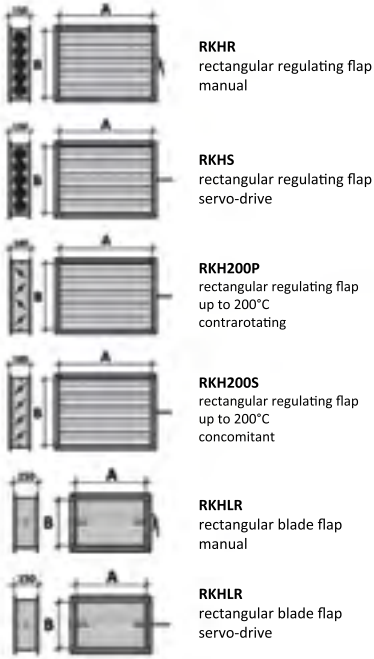


KMH
rectangular grid

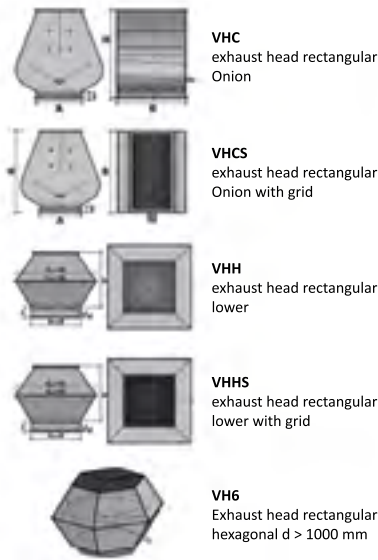


KMHN
rectangular grid
with nozzle

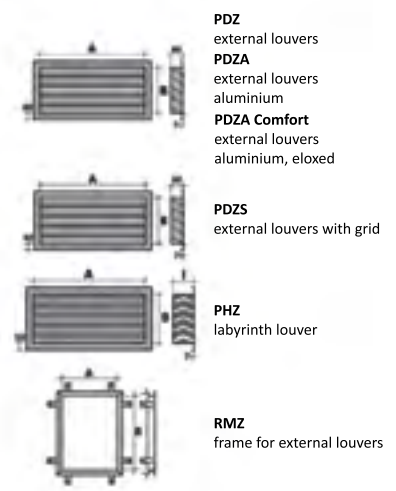
RECTANGULAR REGULATING FLAPS



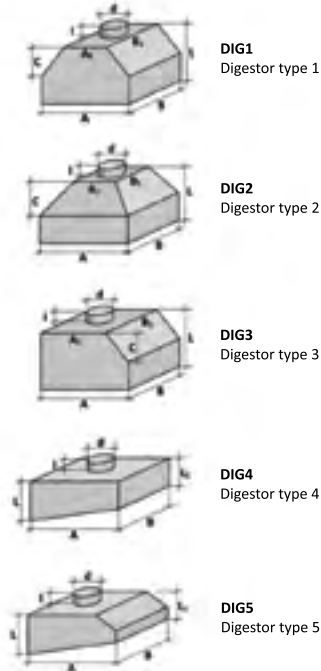
RECTANGULAR EXHAUST HEADS



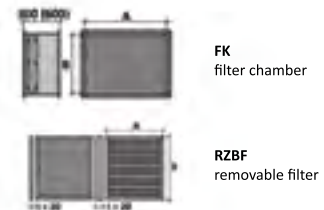
RECTANGULAR LOUVERS



DIGESTORS



FILTER CHAMBER



Notes:

09

CONTACTS

Contact address

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Rumanová 144
951 37 Rumanová
Slovak Republic

Invoicing information

Company ID: 36 801 640
Tax ID: 2022 409 125
VAT ID: SK7120000030
CR: DC Nitra, Section: Sro,
File number 20237/N



Banking information

VÚB, a.s.
2626227759/0200
IBAN: SK7802000000002626227759
SWIFT: SUBASKBX

ČSOB, a.s.
4005195044/7500
IBAN: SK757500000004005195044
SWIFT: CEKOSKBX

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Pricing

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Economics department

E-mail: ekonomicke@technov.sk

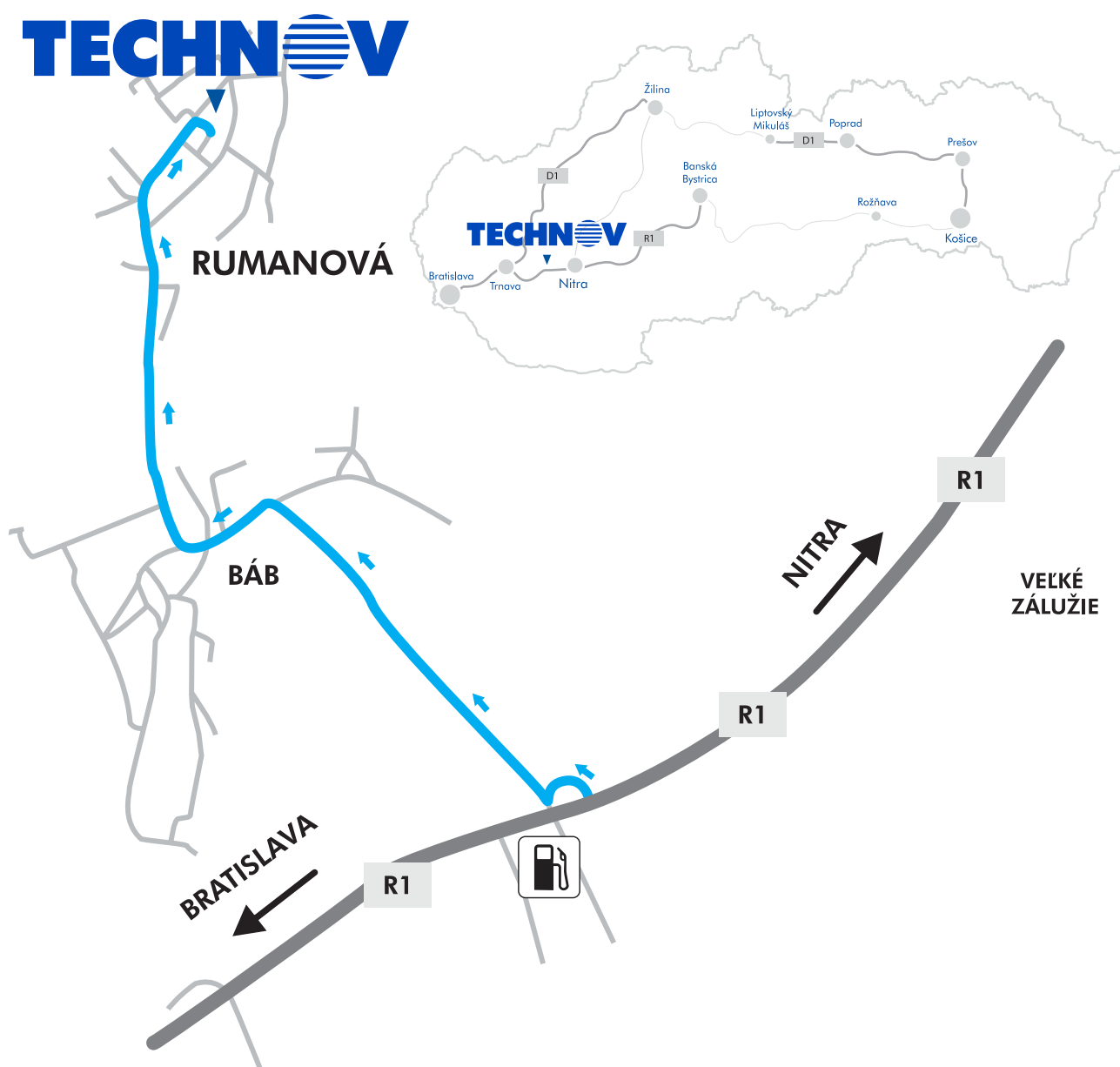
We are looking forward to your visit and requests via phone, fax or e-mail to our company.





Map of the company

Rumanová 144
951 37 Rumanová



SJ 01/17

