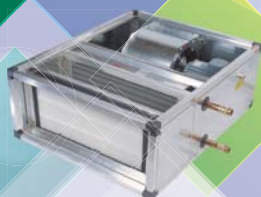


ROVER[®]
HIGH QUALITY CLIMATE



PRODUCT GUIDE





ROVER brand was established in 1999 in Germany. Initially, only ventilation equipment was being developed and manufactured. Later sphere of interests and services provided by the company, enlarged, so central air handling units and different types of fan coil units were offered for domestic and external markets.

Strong construction base and development of our own scientific research center allow to make products that match both international quality standards and climatic features of different geographic regions of the planet, as well as to modernize existing types of equipment and to produce new ones. Main **ROVER** factories are located in Germany and Italy. The factories that cooperate with **ROVER** brand by contract manufacturing, pass the most rigorous selection.

The company doesn't rest on it's laurels and today enters the market of VRF systems with **ROVER VRF** product range. Also the company offers equipment for heating office and industrial rooms – air curtains and infrared heating panels.

Success of the **ROVER** products has its reason in implementation of the quality program “**ROVER High Quality Climate**”, developed by company experts. Its requirements accord to German industry standards. This program holds to strict quality parameters of the produced equipment and its aftersales service. Only high quality components and materials are used in manufacturing. All factories included in production process have modern machinery. Testing of each unit of equipment takes place at every stage of its production. Average lifetime of **ROVER** product is over 10 years.

ROVER climatic equipment has a 1-year standard and 3-year extended warranty of the manufacturing plant. Authorized service centers are organized to provide support for **ROVER** products maintenance. Timely delivery of spare parts and components is an essential part of aftersales service provided by the company. We gain special appreciation of the customers for opportunity to bring one's idea of comfort to life together with **ROVER**. Due to its technological achievements, **ROVER** company is considered to be one of the leaders in development and mass production of climatic equipment.

Cooperation with many European industrial designers allows to achieve excellent results in design of products under **ROVER** brand.

All **ROVER** equipment meets European EUROVENT standards and has ROSSTANDART Certificates of conformity. **ROVER** company is known to the customers as a manufacturer of high quality climatic equipment.

ROVER manufactures and supplies wide range of HVAC equipment:*

- duct, axial, roof, centrifugal, exhaust, high pressure and specific fans
- industrial fans
- compact monobloc AHU
- multifunctional central AHU
- with-case and without-case floor/ceiling fan coil units
- cassette, duct (including duct with high static pressure) and ceiling fan coil units
- VRF systems
- infrared heating panels
- air curtains
- accessories and additional equipment

Traditional German quality, modern design, wide range of equipment and accessories allows to perform the most complicated project tasks.

* When choosing equipment, **ROVER** recommends to use the services of technical specialists in authorized companies, which will make the necessary calculations and select the appropriate models in short terms.



ROVER COOLING MACHINES

GRANADA series
Screw liquid chillers
featuring shell and tube heat exchangers



Air cooled condenser model range
Cooling capacity from 100 to 1400 kW

Versions and modifications:

- Cooling only
- Plate heat exchanger
- Low temperature
- Desuperheater
- Total heat recovery
- Free cooling



Water cooled condenser model range
Cooling capacity from 675 to 1665 kW

Versions and modifications:

- Cooling only
- Low temperature
- Desuperheater
- Total heat recovery
- Evaporating units

PRESTON series
Scroll liquid chillers
featuring plate heat exchangers



Air cooled condenser model range
Cooling capacity from 30 to 610 kW

Versions and modifications:

- Cooling only
- Heat pump
- Condensing units
- Centrifugal condenser fans
- Low temperature
- Desuperheater
- Total heat recovery
- Free cooling



Water cooled condenser model range
Cooling capacity from 35 to 730 kW

Versions and modifications:

- Cooling only
- Reversible heat pump on water side
- Reversible heat pump on refrigerant side
- Low temperature
- Desuperheater
- Total heat recovery
- Evaporating units

ROVER COOLING MACHINES

ZURICH series Rotary or scroll liquid chillers featuring plate heat exchangers



Air cooled condenser model range

Cooling capacity from 5 to 28 kW

Versions and modifications:

- Cooling only
- Heat pump
- Condensing units
- Axial condenser fans
- Centrifugal condenser fans
- Low temperature



Water cooled condenser model range

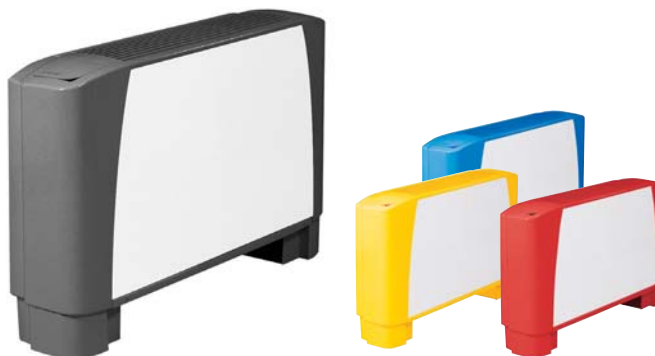
Cooling capacity from 6 to 26 kW

Versions and modifications:

- Cooling only
- Reversible heat pump on water side
- Reversible heat pump on refrigerant side
- Low temperature
- Evaporating units

ROVER FAN COILS WITH CASING

Floor-ceiling Fan coil units UNIVERSAL series



Fan coils in a decorative casing for 2 pipe and 4 pipe systems.

Universal SEC/F

With centrifugal fan
Cooling capacity
from 1,03 to 7,6 kW
9 air flow rates

Universal SET

With tangential fan
Cooling capacity
from 0,87 to 4,18 kW
6 air flow rates

Universal FSR

With low noise tangential fan
Cooling capacity
from 0,8 to 2,8 kW
4 air flow rates

- Low sound pressure – down to 21 dB(A)
- Minimum energy consumption
- Washable dust filter
- Compact and modern design
- Casing is made of strong colored plastic and galvanized steel with powder coating
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Wide variety of accessories:

- Electrostatic filter, purifying the air of smoke, dust, pollen and micro organisms
- One or two row additional coil for the 4 pipe systems.
- Electrical heater featuring the enhanced coil surface and improved energy efficiency
- Controls
- Thermostats
- Supervising

Wide variety of colors for any type of interior:

- On request any RAL color for the casing can be applied

ROVER FAN COILS WITH CASING

Cassette Fan coil units, LORD series



Fan coils with decorative front panel for installing in false ceilings for 2 pipe and 4 pipe systems

Cooling capacity from 1,27 to 11,1 kW

Front panel dimensions – 600x600 or 800x800 mm

7 air flow rates

- 4 way diffuser for effective air distribution
- Swing louvers
- Easy access washable dust filter
- Casing is made of galvanized steel with powder coating.
- Internal thermal insulation
- Diffuser is made of strong ABS plastic
- Sophisticated design
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Wide variety of accessories:

- Fitted low noise drain pump
- Fresh air intake
- Version with a metal diffuser
- 2 or 3 way valves supplied fitted or separately
- Additional electrical heater
- Electrostatic filter, purifying the air of smoke, dust, pollen and micro organisms.
- Controls
- Thermostats
- Supervising and monitoring system NET (allows to control up to 720 fan coils from a single PC)

Wide variety of colors for any type of interior:

- On request any RAL color for the casing can be applied

Wall mounted Fan coil units, BREEZE series



These fan coils are especially designed for small rooms where it is not possible to install floor or ceiling fan coil units.

Cooling capacity from 1,24 to 3,8 kW

Tangential fan

4 air flow rates

- Low sound pressure
- Minimum energy consumption
- Washable dust filter
- Swing louvers
- Compact and modern design
- Removable front panel
- The casing is made of strong white plastic
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Wide variety of accessories:

- Additional electrical heater
- Thermostats
- 2 or 3 way valves supplied fitted or separately
- Mounting plate included
- Controls

ROVER CONCEALED FAN COILS

Floor-ceiling Fan coil units, UNIVERSAL series



Fan coils for concealed installation above the false ceilings for 2 pipe and 4 pipe systems

Universal SEC

With centrifugal fan

**Cooling capacity
from 1,03 to 7,6 kW**

Height – below 250 mm

Universal SET

With tangential fan

**Cooling capacity
from 0,87 to 4,18 kW**

Height – below 250 mm

- Low sound pressure – down to 21 dB(A)
- Minimum energy consumption
- Washable dust filter on a metal frame
- Compact design
- Casing is made of galvanized steel
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Wide variety of accessories:

- One or two row additional coil for the 4 pipe systems.
- Electrical heater featuring the enhanced coil surface and improved energy efficiency.
- Controls
- Thermostats
- Supervising and monitoring system NET (allows to control up to 720 fan coils from a single PC)
- Variety of air grids and flanges

Duct Fan coil units, GRAF series



Fan coils for concealed installation above the false ceilings for 2 pipe and 4 pipe systems with the following air distribution through ducts.

Cooling capacity from 1,58 to 10,07 kW

Available pressure – up to 80 Pa

4 air flow rates

Height – below 240 mm

- Low sound pressure
- Minimum energy consumption
- Washable dust filter on a metal frame
- Compact design
- Low noise centrifugal fan with 5 speed asynchronous motor
- Casing is made of galvanized steel
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Wide variety of accessories:

- One or two row additional coil for the 4 pipe systems.
- 2 or 3 way valves supplied fitted or separately
- Variety of air grids and flanges
- Condensate collection tray with drain pipe
- Controls
- Thermostats
- Electrical heater
- Supervising and monitoring system NET

ROVER CONCEALED FAN COILS

High pressure modular duct Fan coil units ICEBERG series



Fan coils with 2, 3, 4 and 6 row water coils or 4 row direct expansion coil for air conditioning systems with complicated duct structure.

Cooling capacity from 3,7 to 24,8 kW

Available pressure – up to 300 Pa

4 air flow rates

Special modular structure – up to 15 possible versions

- Fully noise and thermo isolated casing
- Casing is made of galvanized steel with powder coating.
- Minimum energy consumption
- Compact design
- Centrifugal fan with 3 speed asynchronous motor
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Wide variety of accessories:

- 2, 3, 4, 6 row water coils
- Washable dust filter on a metal frame
- Electrostatic filter, purifying air of smoke, dust, pollen and micro organisms.
- Carbon filter, purifying air of gas pollutions.
- Variety of inlet and outlet grids
- Condensate collection tray
- Air valves
- 3 way valves supplied fitted or separately
- Plenums for connecting to round ducts
- Mixing chamber section with dumpers
- Direct expansion coil section
- Humidifier section
- Controls
- Electronic speed selectors
- Electrical heater
- Mounting brackets

High pressure duct Fan coil units TYPHOON series



These fan coils can be connected to the duct system to provide the most effective air distribution at building with complicated structure.

Cooling capacity from 4,18 to 42,28 kW

Available pressure – up to 160 Pa

7 air flow rates

Height – below 310 mm

- Low sound pressure
- Minimum energy consumption
- Washable dust filter on a metal frame
- Compact design
- Low noise centrifugal fan with 5 speed asynchronous motor
- Casing is made of galvanized steel
- 3 way valves supplied fitted or separately
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Wide variety of accessories:

- Filters
- One or two row additional coil for the 4 pipe systems.
- Plenums for connecting to round ducts
- Thermostats
- Electrical heater
- Controls
- Supervising and monitoring system NET

ROVER VERTICAL DISCHARGE FAN COILS

ROVER vertical discharge fan coils for ceiling installation are specially designed for air conditioning of big spaces. These fancoils is a great solution for warehouses, barns, storage rooms, manufactures and workshops, exhibition rooms, supermarkets and shops.

High capacity circular fan coil units, STAR series



Fan coils for ceiling installation on the supporting beams of the manufacture rooms and warehouses.

Cooling capacity from 2,7 to 23,7 kW

Heating capacity up to 107 kW

10 air flow rates

Installation height – up to 14 m

- Low sound pressure
- Minimum energy consumption
- No air ducts system needed
- Compact design
- Axial fan with 2 speed asynchronous motor. IP44 class.
- Casing is made of galvanized steel with powder coating
- Variable swirl diffuser with 8 adjustable blades
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Accessories:

- Bell diffuser
- Controls

Ceiling fan coil units, PRINCE series



Fan coils with 1 or 2 row coils for vertical installation in the false ceiling or directly in the room, designed for air conditioning of medium spaces.

Prince PE-ECM

4 air flow rates

Cooling and heating

**Cooling capacity from
3,89 to 10,07 kW**

Prince RE-ECM

8 air flow rates

Heating only

**Heating capacity from
5,88 to 25,73 kW**

- Low sound pressure
- Minimum energy consumption
- No air ducts system needed
- Compact design
- Adjustable side air grids
- Fitted drain pump
- Condensate collection tray
- Casing is made of galvanized steel with powder coating
- Axial fan with 3 speed ECM motor. IP44 class.
- Protective fan grid
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Accessories:

- Condensate level sensor
- 3 way valve
- Controls (from 1 to 10 units)
- Thermostats
- Mounting brackets
- Fan cover panel

ROVER SPLIT AIR CONDITIONER

On/off Air Conditioner FRESH series



The **Fresh series** split systems offer reliable and powerful air conditioners on an affordable price. The effective air distribution is provided by the multi speed fan and automatic swing louvers that ensure the pleasant cool without draughts.

The low noise indoor units featuring the “Comfort sleep” function are silent as a whisper and would provide perfect conditions for your night rest.

The efficiency of the air conditioners is confirmed in accordance with the European 2004/108/EC standard and matches the **A class**. The **Fresh series** air conditioners feature a special **6 years warranty**.

Cooling capacity – from 2,2 to 6,2 kW

COP – 3,61

Compact design

Energy consumption in the OFF status – 1 W

Set of different filters included

Fresh series functions:

- Cooling / heating / Dehumidifying
- Turbo mode
- Comfort sleep
- Timer
- Clock
- Automatic operation
- Intelligent defrosting
- Warm start
- Auto restart
- Self cleaning
- Self diagnostic

DC Inverter Air Conditioner SMART series



The **Smart series** air conditioners have classical design, for those who admire traditional models, featuring on the same time modern inverter technology. The front panel colored “Oyster White” would perfectly fit any type of interior.

The **Smart series** air conditioners are capable to provide up to 5 kW cooling capacity for each 1 kW of consumed electrical power.

The **Smart series** air conditioners feature a special **6 years warranty**.

Cooling capacity – from 2,6 to 6,5 kW

SCOP – 3,8

Compact design

Energy consumption in the OFF status – 1 W

Set of different filters included

Smart series functions:

- Cooling / heating / Dehumidifying
- Turbo mode
- Night mode
- Timer
- Clock
- Automatic operation
- Intelligent defrosting
- Warm start
- Auto restart
- Self cleaning
- Self diagnostic

ROVER VRF SYSTEMS

CASTLE series



ROVER VRF air conditioning systems **Castle series** for large office buildings, administrative buildings, business centers, supermarkets, cafe, restaurants and private housing can provide most comfortable conditions for work and living.

Modern engineering solutions matching German quality standards include inverter technologies, multivariance, compact sizes, safe refrigerant, long piping design, maintenance of the set temperature within 0,5°C accuracy, setting needed conditions in each room of the building, special air filtration and intelligent control.

ROVER VRF design is based on principle of modular configuration, which allows expanding capacity of the system depending on the object demands. All outdoor units are equipped with highly efficient DC Inverter compressors.

Various indoor units of cassette, wall-mounted, duct, floor/ceiling and underceiling types can be connected to each outdoor unit. What is more, ducted indoor units are offered simultaneously in four modifications: with low static pressure, with medium static pressure, with high static pressure and slim type.

System can be managed both directly by remote controller and by using a special on-line program in Internet.

Energy efficient **ROVER VRF** systems meet all present-day requirements and, beside their intended purpose to cool and heat, allow to save energy significantly.

Capacity up to 200 kW

Up to 8 outdoor units

Up to 64 indoor units

12 types and 69 models of outdoor units

- DC Inverter Compressor (COP up to 4,09)
- 2-Way System
- 500 m maximum pipe length
- Safe refrigerant R410A
- Low noise level of the outdoor unit – less than 52 dB
- Operation limits:
 - Cooling mode: from –10°C to +43°C
 - Heating mode: from –20°C to +15°C
- Three-phase power supply 380-415 V/50 Hz
- Versatile control system
- 100% production quality control
- Easy integration in ventilation system
- Low operating costs
- Long life cycle — not less than 10 years



ROVER ELEVATOR CONDITIONER

RESN monoblock series



Air conditioner of monoblock type **RECN-07BE/C** is installed at the top of the lift cabin and is used to provide comfortable temperature conditions inside the cabin. The conditioner has compact size and elegant exterior.

This conditioner is equipped with preliminary air purification filters which detain big fractions of dust and dirt. The supplied set includes wired panel, indicating current operation mode, which is installed directly in the lift cabin, and also remote controller with LCD screen.

Module for air supply system organization is available as an option. To simplify the installation process, metal case of the monobloc comes with mounting frame.

Elevator conditioner is designed for operation in outdoor temperature limits from 16°C till 43°C. Environmental friendly refrigerant **R410A** is used.

RECN-07BE/C model is characterized by high reliability, performance, functionality and low noise level.

Cooling capacity — 2 kW

Protection level — IP24

Protection class — I

ROVER Elevator functions:

- Cooling mode
- Ventilation mode
- Drying mode
- Automatic maintaining of the set temperature (23±2°C)
- Manual temperature regulation (°C, °F)
- Clock setting
- Setting timer on/off
- Remote controller lock

ROVER COMPACT MONOBLOC AHU

ZGK/ZGF series



With electrical heater

Air flow – up to 9000 m³/h

Available pressure – up to 1200 Pa

Electrical heater capacity – from 6 to 58 kW

10 airflow rates ZGK

4 airflow rates ZGF

- Panel Z-filter, class EU4
- ZGK – 4 speed fan motor. IP44
- ZGF – single speed fan motor. IP44
- Electrical heater
- Hot water coil, maximum working pressure 22 bar

- Casing structure is made of aluminum profile
- Removable side panels are made of galvanized steel
- Thermal insulation – mineral fiber, 20 mm
- Reduced sound pressure – down to 52 dB(A)
- Compact design
- Electrically safe
- Easy installation and maintenance
- Long lasting lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Accessories:

- Air valve
- Flexible joint



With hot water coil

Compact air handling units are both available in standard version or in special design if requested.

ROVER DUCT FANS

RS, ERM/DRM fans for installation in round ducts



RS

Air flow – up to 2300 m³/h

**Available pressure –
up to 1200 Pa**

**Diameter –
from 100 to 355 mm**

Motor with external rotor

ERM/DRM

Air flow – up to 8600 m³/h

**Available pressure –
up to 540 Pa**

**Diameter –
from 315 to 500 mm**

**Backward curved
centrifugal impeller**

E – 220V / 50 Hz

D – 380V / 50 Hz

- Casing is made of galvanized steel
- Electrical motor with direct drive. IP44 class
- The impeller is made of strong plastic
- Low noise and vibration – down to 38 dB(A)
- Compact design
- Wide range of sizes
- Fireproof version available
- Easy installation and maintenance
- Long lifetime, more that 40 000 hours
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

EKN/DKN fans for installation in square ducts



Air flow – up to 9000 m³/h

Available pressure – up to 1050 Pa

8 sizes – from 400x200 to 900x500 mm

EKN – 220V / 50 Hz

DKN – 380V / 50 Hz

- Casing is made of galvanized steel
- Electrical motor with direct drive. IP44 class
- Casing structure is made of aluminum profile
- The impeller is made of galvanized steel
- Removable side panels are made of galvanized steel
- Low noise and vibration
- Low starting current
- Motor thermal protection
- Fireproof version available
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Version with a sound insulation — EKNS/DKNS



- Thickness of the sound absorbing layer is 25-50 mm

Duct fans is an excellent technical solution that combines the advantages of axial and centrifugal fans.

ROVER DUCT FANS

SDB duct fans with silent box for installation in round ducts



Air flow – up to 3700 m³/h

Available pressure – up to 470 Pa

7 sizes

Outlet diameter – from 125 to 400 mm

Backward curved centrifugal impeller

- Electrical motor with external rotor. IP44 class
- Impeller with forward curved blades made of galvanized steel
- Sandwich type panels made of galvanized steel
- Removable cover
- Thickness of the sound absorbing layer is 50 mm
- Possibility to change the air outlet direction to allow either horizontal in-line flow or 90° deflection.
- Compact design
- Easy installation and maintenance
- Electrically safe
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

ROVER AXIAL FANS

AEQ, ADQ, AER, ADR



Air flow – up to 11000 m³/h

Available pressure – up to 330 Pa

27 sizes – from 250 to 630 mm

E – 220V / 50 Hz

D – 380V / 50 Hz

- Electrical motor with external rotor and speed regulation. IP44 class
- Casing is made of galvanized steel with powder coating
- Impeller with aerodynamically molded blades
- Low noise– down to 52 dB(A)
- AEQ, ADQ – casing with a special frame for wall mounting
- AER, ADR – in a short casing with flanges
- Accurate and flexible selection
- Steeples performance regulation available
- Explosion proof version (on request)
- Easy installation and maintenance
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Axial fans are used to move high air volume in systems with low aerodynamic resistance.

ROVER AXIAL FANS

AXV



Air flow – up to 210000 m³/h

Available pressure – up to 1600 Pa

15 sizes

E – 220V/50Hz

D – 380V/50Hz

- Asynchronous electrical motor. IP44 class
- High temperature motors version available (T=400°C)
- Casing is made of galvanized steel
- Impeller and blades are made of strong plastic (T=80°C) or aluminum (T=400°C)
- Two version – with short casing covering the impeller only and with long casing covering both impeller and motor
- The blades (from 3 to 12) angle is adjustable
- Variety of performance curves for each size
- Easy installation and maintenance
- Long lifetime, more than 20 000 hours
- Perfect reliability
- Certificated to be used in smoke extraction systems
- Eurovent, DIN, ECO innovation and Rosstandard certification

Accessories:

- Bell inlet diffuser
- Air valve
- Flexible joint
- Flanges

ROVER ROOF FANS

RH, RV, RVH



Air flow – up to 27 000 m³/h

Available pressure – up to 1250 Pa

57 sizes – from 190 to 900 mm

RH – horizontal air discharge

RV – vertical air discharge

E – 220V/50Hz

D – 380V/50Hz

- 2 speed motor with external rotor. IP44 class
- High temperature motors version available (T=400°C)
- Casing is made of galvanized steel, aluminum or anodized aluminum, according to the model
- Impeller with backward curved blades
- Low noise – down to 59 dB(A)
- Environment temperature limits – from -30°C to +120°C
- Stepless speed regulation available
- Variety of accessories – air dampers, one way valves, silencers etc
- Easy installation and maintenance
- Long lifetime, more than 40 000 hours
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

Version with a sound insulation — RVS



- Thickness of the sound absorbing layer is 25–50 mm

ROVER CENTRIFUGAL FANS

ERSE, ERSD, DRSE, DRSD



ERSE/ERSD

Single inlet

Air flow – up to 8000 m³/h

Available pressure –
up to 1000 Pa

19 sizes

E – 220V/50Hz

DRSE/DRSD

Double inlet

Air flow – up to 14200 m³/h

Available pressure –
up to 825 Pa

19 sizes

D – 380V/50Hz

- 2 speed motor with external rotor and fitted thermal contacts. IP44 class
- Stepless speed regulation
- Casing is made of galvanized steel, hermetic for gas mixtures.
- Impeller is made of galvanized steel
- Standard connections
- Low sound pressure level
- Explosion proof version available
- Easy installation and maintenance
- Electrically safe
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

TNFD/TNQD, HNFD/HNQD



Air flow – up to 20000 m³/h

Available pressure – up to 2100 Pa

54 sizes

E – 220V/50Hz

D – 380V/50Hz

- 4 or 6 pole asynchronous motor Siemens. IP44 class
- Casing is made of galvanized steel
- Impeller of galvanized steel with backward or forward curved blades
- Standard version – on mounting feet
- Reinforced version – with a supporting frame for the motor
- Explosion proof version available
- Easy installation and maintains
- Electrically safe
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

These fans have been developed to be used in modern ventilation and air conditioning systems and are designed to move air and lightly aggressive gases and vapors.

ROVER CENTRIFUGAL FANS

TRE, HRE, TRZ, HRZ with belt drive



TRE/HRE

Single inlet

Air flow – up to 60000 m³/h

Available pressure –
up to 3000 Pa

17 sizes

D – 380V/50Hz

TRZ/HRZ

Double inlet

Air flow – up to 110000 m³/h

Available pressure –
up to 3100 Pa

17 sizes

D – 380V/50Hz

- 4 pole asynchronous motor Siemens. IP44 class
- 8 versions
- Casing is made of galvanized steel
- Impeller of galvanized steel or plastic with backward or forward curved blades
- The belt drive allows to change the impeller rotation speed
- Motor on sliding mounting for belt tension regulation
- The base frame is equipped with anti vibration mounts
- Variety of performance curves for each size
- Flexible configuration on request
- Variety of accessories
- Easy installation and maintenance
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

KB with a sound insulation



Air flow – up to 30000 m³/h

Available pressure – up to 2000 Pa

35 sizes

E – 220V/50Hz

D – 380V/50Hz

- Motor with external rotor (for models with ESP up to 800 Pa). IP54 class
- 4 pole asynchronous motor Siemens (for models with ESP up to 2000 Pa). IP54 class
- Double inlet fans
- Casing structure is made of aluminum profile
- Side panels are made of galvanized steel
- Double layer of sound insulation. The best noise characteristics among analogues.
- Version with hermetic casing for outdoor installation
- Easy installation and maintenance
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

ROVER SPECIAL FANS

KATE, KATD, KAFE, KAFD for kitchens



Air flow – up to 8500 m³/h

Available pressure – up to 1000 Pa

- 1 or 2 speed motor placed outside the casing
- Casing is made of special corrosion resistant material
- Removable impeller with direct curved blades
- Inspection door for fast and easy cleaning and maintain of the fan
- Both horizontal and vertical installation possible
- Ambient temperature – up to 80°C
- Low sound pressure level
- Thickness of the sound absorbing layer is 30 mm
- Easy installation and maintenance
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

JFUO, JFRO for car parkings



Air flow – up to 9500 m³/h

Diameter – from 250 to 370 mm

- 2 or 4 pole motor
- Maximum motor power is 2,4 kW
- High temperature motor version available (T=300°C)
- Casing is made of galvanized steel with powder coating
- The impeller with blades of anodized aluminum
- The blades angle is adjustable
- Ambient temperature – up to 40°C
- Low sound pressure level – down to 38 dB(A)
- Easy installation and maintenance
- Long lifetime
- Perfect reliability
- Eurovent, DIN, ECO innovation and Rosstandard certification

The special fans have been developed to be used in air exhaust systems of restaurants, cafes, public dining rooms and also in the ventilation systems of car parkings.

ROVER AIR HANDLING UNITS

23MK series



The **ROVER 23MK** series air handling units are designed to provide comfort climate conditions in hotels, commercial buildings, shopping malls and office buildings and ensure quality air filtration as well as excellent thermo-hygrometric conditions of the air that are absolutely vital for all critical buildings like hospitals and clean rooms as well as for many industrial processes.

The **23MK** series is developed in modular concept and may be supplied with any sort of section to satisfy, according to the project requirements, all types of applications for ventilation, filtering, heating, cooling and humidity control.

The **ROVER** standard AHU's are designed for indoor installation with the following connection directly to the central air duct system. Although outdoor versions and special hygienic units for medical centers and clean rooms are also available on request.

General features of 23MK series:

- Air flow range – from 900 to 100 000 m³/h (up to 150 000 m³/h available on request)
- Static pressure supplied by the fans – up to 2500 Pa
- On request units with air flow or static pressure out of standard ranges are also available
- Modular structure composing of separate functional and constructive sections
- 44 sizes: 28 main sizes and 16 additional (with reduced height)
- Flexible design for each size
- Wide variety of different sections
- Sandwich type panels thickness – 60 mm
- Panels insulated with injected polyurethane or mineral wool
- Different types of heating coils – water, steam, electrical.
- For the unit protection and regulation of the working parameters the automatic control system is provided.
- Selection software available
- The units are delivered quickly and in a ready-to-run condition.

ROVER AIR HANDLING UNITS

Main sections for 23MK series

Cooling section

- Water coils
- Direct expansion coils

Heating section

- Water and steam coils
- Electrical heaters with thermal protection

Silencer section

Filter section

- Panel type, class G1, G3, G4
- Roll filter, class G2
- Loose bag filter, class G4, F7, F9
- Rigid bag filter, class F7, F8, F9
- HEPA filter, class H10, H12-14 (for clean rooms)
- Carbon filter
- Electrostatic filter

Mixing section

Fan section

- With forward curved blades
- With backward curved blades
- Impeller with aerodynamically molded blades
- Direct driven PLUG fans available



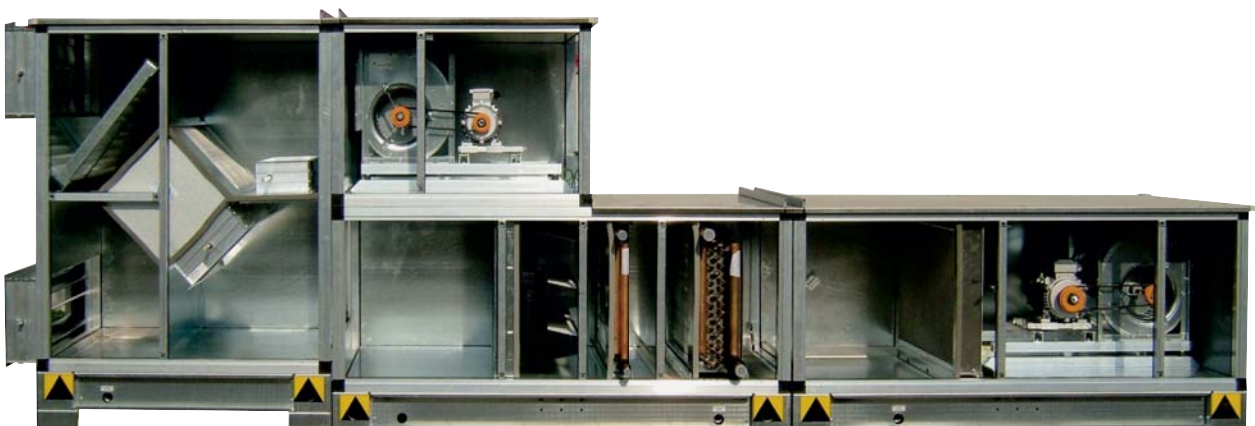
Heat recovery section (recuperation)



- Recuperator with auxiliary cooling circuit
- Cross flow exchanger
- Rotary heat exchanger
- Heat pipes

Humidifying section

- Adiabatic
- Steam generators
- Atomized water
- Spray nozzles



ROVER AIR HANDLING UNITS

Functional and construction details of 23MK series

The casing of **23MK** units consists of basement plate, aluminum framework and sandwich type panels with a thermal insulation inside.

The anodized aluminum profile with joints made of reinforced nylon provides durability and rigidity of the frameworks.

The basement plate is made of galvanized steel.

The sandwich type panels are 60 mm thick.

Materials for the outside / inside panels:

- Galvanized steel 0,5 mm / Galvanized steel 0,5 mm
- Galvanized steel with powder coating 0,5 mm / Galvanized steel 0,5 mm
- Galvanized steel with powder coating 0,5 mm / Galvanized steel 1 mm
- Galvanized steel with powder coating 0,5 mm / Stainless steel A304 0,5 mm
- Aluminum alloy 0,8 mm / Aluminum alloy 0,8 mm

Materials for the insulating layer:

- Polyurethane, density 45 kg/m³
- Mineral wool, density 90 kg/m³

Standard gasket made of rubber is stuck between the two sides of the panels and the frameworks to avoid thermal bridges and ensure perfect air pressure tightness.

Rain shelter is made of aluminum and supplied for the outdoor version units to provide protection from the atmospheric agents.



Inspection doors: provided with nylon hinges and handles, optionally supplied with inner handle and key lock. On request the door can be provided with a sight glass made of polycarbonate along with light bulb.

- All the materials and surfaces of the AHU inner parts prevent the accumulation of static electricity
- All the inner surfaces are absolutely smooth and the structure is produced with the minimum number of connection and cavities to prevent the accumulation of different pollutants.
- The AHU is designed to permit an easy access to all the inner components for regular cleaning and disinfection.
- All the materials are ecologically safe and neutral to all kinds of cleaning agents and disinfectant solutions.

Additional options:

- Condensate collection tray made of aluminum or galvanized steel with a 4° incline for good drainage.



- Droplet separator made of polypropylene or metal
- Anti vibration mounts made of rubber or springs
- Earthing cable
- Micro switch
- Fan section protective mesh

ROVER RESIDENTAL RADIANT PANELS

IR series



ROVER represents new range of infrared radiant panel – innovative room heating system.

ROVER infrared heater consists of a flat panel fixed in an aluminum frame with a powder coating. Inside the panel a heating element is placed – thin mesh membrane, made on the base of composite carbon fiber that is placed between several layers of special polyester film. The radiant panel can be placed on a horizontal surface or mounted on the wall/ceiling directly in the heated room.

The working principle of **ROVER** radiant panels is based on the electromagnetic waves that are classified as infrared by wavelength and frequency. It means that **ROVER** radiant panels work like the sun's rays that heat the earth.

The infra red rays are absorbed by the surfaces in the room that slowly warms up and then releases the stored heat by means of conduction and convection raising the ambient air temperature. People and other objects also directly absorb radiant energy and are quickly warmed by the infrared rays.

That's why **ROVER** radiant panels will make you feel like standing in the sun on a summer day.

ROVER radiant panels can be used as main or additional heating sources.

ROVER radiant panels provide high heating capacity featuring low energy consumption. The possibility to heat the object directly without need to heat the full air volume allow to save up to 70% of electrical power comparing with usual convectors.

In standard version **ROVER** infrared heaters are supplied with white front panel. On request the front panel can be decorated with a picture or your own photo.

Technical characteristics of ROVER infra red radiant panels

Model		IR3600	IR4800	IR5400	IR6000	IR7200
Power supply	V/Ph/Hz	~1/220-240/50				
Input power	W	300–400	500–600	600–700	800–850	850–950
Heating capacity	W	600–800	1000–1200	1200–1400	1600–1700	1700–1900
Maximum temperature of heating panel surface	°C	70–90	80–100	90–100	100–110	110–120
Ingress protection rating		IP22				
Electrical protection class		II				
Heating element		Carbon fiber				
Casing		Strong plastic				
Outline dimensions	MM	600x600x25	600x800x25	600x900x25	600x1000x25	600x1200x25
Package dimensions	MM	650x650x55	650x850x55	650x950x55	650x1050x55	650x1250x55
Wight (Net/Gross)	кг	3,5/4,5	4,5/5,6	5,5/6,7	6,5/7,5	7,5/9,2
Recommended heated room area	М²	8	12	14	17	20



Representative Office in Russia:

+7 499 753-0302, +7 499 753-0307, +7 499 753-0253

Representative Office in Ukraine:

+38 044 393-9260, +38 067 401-8289

Representative Office in Belarus:

+3 7517 380-1212, +3 7517 380-1313, +3 7517 395-9467

Representative Office in Bulgaria:

+359 056-825-572, +359 087-935-4466

Representative Office in Finland:

+358 407-473-757



address of the official dealer

www.rover-europe.com