



FIVING®

Slovak manufacturer

30 years in the business

Modular solutions

BJ

Compactly assembled air handling units configurable according to requirements, consisting of separate modules.

AIR CONDITIONING UNITS

Air handling and air conditioning device BJ is manufactured in 3 designs: outdoor, indoor, and hygienic. Depending on the required functions and specific requirements, it is possible to assemble device whose nominal quantity of the transported air ranges from 1,800 to 53,000 m³/hour. In compact version its up to 11 000 m³/h.

BJ - list of sections

RECUPERATION SECTION

Contains either heat plate, or rotary-regenerative or glycolic circuit with heat exchangers.

REVERSE HEAT PUMP

Integrated heat pump with inverter compressor used for heating and cooling.

MIXING SECTION

Used to mix fresh and extract air.

HEATING SECTION

Composed of a water, steam, or electric heater.

BUILT-IN MEASUREMENT AND CONTROL SYSTEM

Equipped with fully automatic control system according to requested parameters.

FAN SECTION

Low-pressure EC fan.

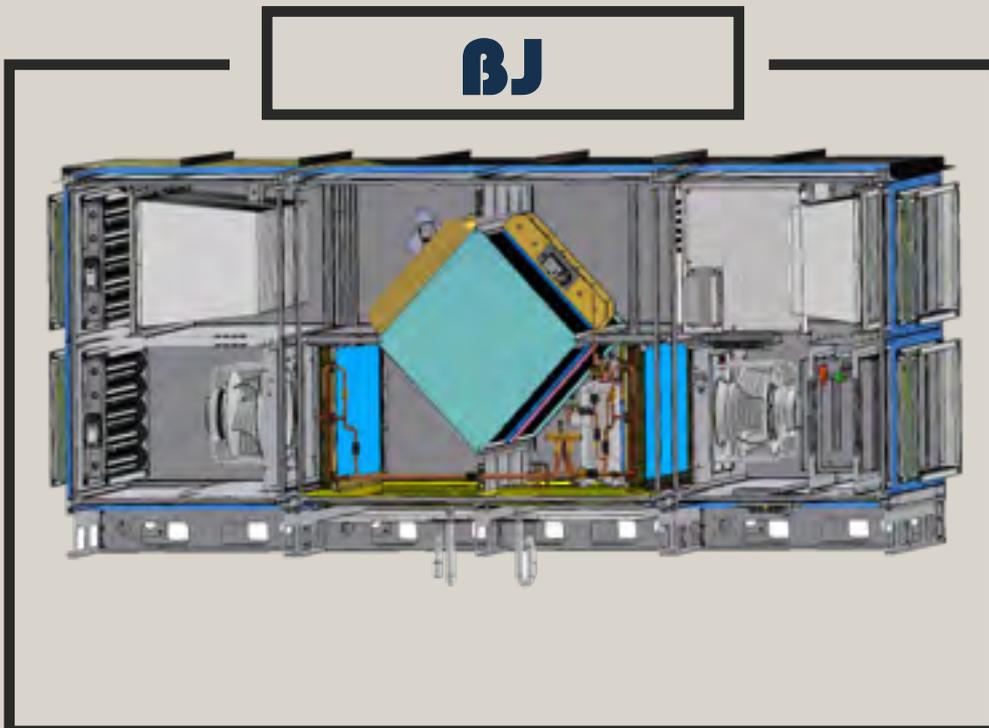
FILTER SECTION

Uses filters to prevent the ingress of impurities. Filters are chosen on needs of customer..



SCOP - Seasonal Coefficient Of Performance

Determines the efficiency of the heat pump. Simplified, the power [kW] delivered to the heating system at a consumption (power consumption) of 1 kW by the heat pump. **SCOP 4,86 = 486 % efficiency.**



**Immediate disposal of pathogens by air disinfection.
Protection from viruses, fungi, including SARS COV-2**



Air handling units of the BJ series are designed mainly for air conditioning of common rooms, stores, restaurants, gyms, schools, laboratories.

PARAMETERS - COMPACT DEVICES WITH HEAT PUMP	BJ 1528K
AIR FLOW RATE – SUPPLY NOM. / MAX.	2 300 / 2 900 m ³ /h
FILTER OF SUPPLY AIR / FILTER CLASS	F7 pocket filter
AIR FLOW RATE - EXTRACT NOM. / MAX.	2 300 / 2 900 m ³ /h
COOLING MODE - INPUT	28,3 °C / 47,1 % humidity
COOLING MODE - OUTPUT	20 °C / 65 % humidity
ACTUAL COOLING POWER (AT AN OUTDOOR TEMPERATURE OF 32 °C / 40 % RH)	6,40 kW
NOMINAL COOLING POWER	10,11 kW
TOTAL POWER INPUT OF THE DEVICE DURING COOLING	4,05 kW
ACTUAL HEATING POWER (AT AN OUTDOOR TEMPERATURE OF +2 °C / -15 °C)	7,12 / 5,67 kW
COP OF COMPRESSOR	3,56
TOTAL POWER INPUT OF THE DEVICE WHEN HEATED BY A HEAT PUMP	3,15 kW
MAX POWER AND CURRENT OF THE DEVICE WITH ELECTRIC HEATING	17,16 kW / 32,51 A
MAX POWER AND CURRENT OF THE DEVICE WITHOUT ELECTRIC HEATING	8,16 kW / 19,5 A
DIMENSIONS: H/ L/ D	1 428 / 3 825 / 765 mm
DIMENSIONS OF DUCT COMPENSATOR H/D	510 / 400 mm



Construction and parameter



Air handling unit BJ is manufactured in 3 designs: outdoor, indoor, and hygienic. The size of the unit is chosen by the customer according to the requested parameters. All BJ device units can be equipped with a heat pump which uses heat from the surrounding air. The operation of such a device can save a considerable amount of energy, therefore, also funds spent on heating objects.

BJ 2128K	BJ 2728K	BJ 3328K	BJ 3928K
3 000 / 3 700 m ³ /h	4 700 / 5 900 m ³ /h	6 000 / 7 560 m ³ /h	7 300 / 9 100 m ³ /h
F7 pocket filter	F7 pocket filter	F7 pocket filter	F7 pocket filter
3 000 / 3 700 m ³ /h	4 700 / 5 900 m ³ /h	6 000 / 7 560 m ³ /h	7 300 / 9 100 m ³ /h
28,3 °C / 47,1 % humidity			
20 °C / 65 % vlhkost'	20 °C / 66 % humidity	20 °C / 67 % humidity	20 °C / 65 % humidity
8,30 kW	13,07 kW	16,69 kW	20,32 kW
13,15 kW	20,07 kW	24,86 kW	32,11 kW
6,37 kW	8,41 kW	10,7 kW	12,63 kW
9,29 / 7,1 kW	14,56 / 11,82 kW	18,58 / 14,79 kW	22,61 / 18 kW
3,72	3,83	3,87	3,83
3,97 kW	6,2 kW	8 kW	8,63 kW
22 kW / 36,01 A	26,5 kW / 42,51 A	26,5 kW / 42,5 A	37,2 kW / 60 A
13 kW / 23 A	13 kW / 23 A	13 kW / 23 A	19,2 kW / 34 A
1 428 / 3 825 / 1 071 mm	1 428 / 3 825 / 1 377 mm	1 428 / 3 825 / 1 683 mm	1 428 / 3 825 / 1 989 mm
510 / 700 mm	510 / 1 000 mm	510 / 1 300 mm	510 / 1 600 mm

Assembled units

BJ series air handling units are designed in the form of separate blocks, which can be arranged according to technical needs or customers' requirements. The unit is divided into supply and extract segments. The supply segment consists of a rain blind, a control damper, a filter section, a heat recovery section, a reversible heat pump, and possible additional heating (water or electric).

The extract segment is lined up by a filtration section, a recuperation section, a reversible heat pump with a compressor section and cooling components, the segment ends with a control damper and a rain blind.

Working conditions

The units are designed for explosion-free environments. The units are capable of efficient work in temperature range between -20 to +40 °C. When placed outdoors, it is necessary to protect the top of the unit from snow and water, for example by additional roof.

Use

Air conditioners of the BJ series are designed mainly for air conditioning of:

- Common rooms
- Stores
- Restaurants
- Gyms
- Schools
- Laboratories
- Receptions
- Swimming pools
- Playrooms
- Changing rooms
- Kitchens
- Offices
- Clinics
- Waiting rooms
- Congress halls
- Cinemas, theatres
- Public buildings
- Production halls

Connection to the duct

The duct is connected to the BJ unit via duct compensators. The grounding of flanges of the duct compensators are provided by electrical wiring. The ducts must have its own supports for required stability.

Air flow rate in m³/h at speed x m/s through the exchanger

EUROVENT ENERGY CLASS 6/12

		A	B	C	D	E	E
	Surface are of exchanger.	1,80 m/s	2,00 m/s	2,20 m/s	2,50 m/s	2,80 m/s	3,20 m/s
BJ1528K	0,33	2 138 m ³ /h	2 376 m ³ /h	2 614 m ³ /h	2 970 m ³ /h	3 326 m ³ /h	3 802 m ³ /h
BJ2128K	0,42	2 722 m ³ /h	3 024 m ³ /h	3 326 m ³ /h	3 780 m ³ /h	4 234 m ³ /h	4 838 m ³ /h
BJ2728K	0,66	4 277 m ³ /h	4 752 m ³ /h	5 227 m ³ /h	5 940 m ³ /h	6 653 m ³ /h	7 603 m ³ /h
BJ3328K	0,84	5 443 m ³ /h	6 048 m ³ /h	6 653 m ³ /h	7 560 m ³ /h	8 467 m ³ /h	9 677 m ³ /h
BJ3928K	1,02	6 610 m ³ /h	7 344 m ³ /h	8 078 m ³ /h	9 180 m ³ /h	10 282 m ³ /h	11 750 m ³ /h

Other products

Fiving offers air handling, heating, and ventilation units according to customer's needs. In addition to BJ series devices, there are compact Vesna-series devices, condensing units, air handling units Fkan or Fkan IT, indoor heat pumps Stribog, exchanger units Gobi, industrial liquid cooling with chillers equipment and many other solutions.

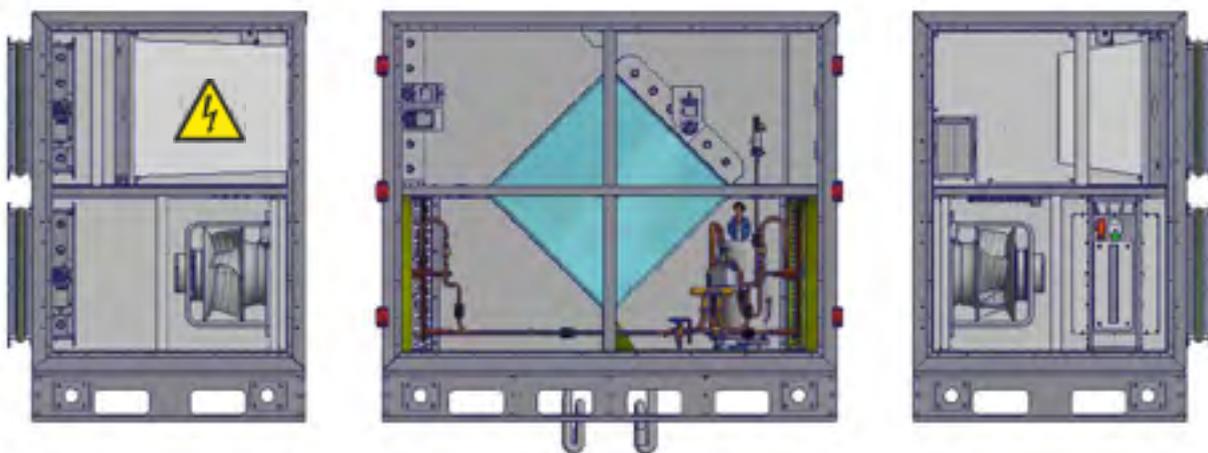




Comprehensive solutions

FIVING is a manufacturing company that has been operating since 1992. Fiving develops, products, assembles and services its own air conditioning and air handling devices. The company currently employs more than 70 employees. The total area of the production area occupies the area of the football stadium. FIVING places great emphasis on the quality of their products and services and therefore has in place a quality management system ISO 9001 and environmental management system ISO 14001, welding management system ISO 3834-2.

FIVING offers solutions in the field of air conditioning, technological cooling, heating, measurement and control of heating, ventilation for various types of objects in industrial and in the residential field. Fiving offers a comprehensive and effective solutions aimed at reducing operational costs and maximize efficiency and effectiveness of the systems.



Transported in split chambers, compact cooling circuit in the central chamber



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