

BGK

Heat Recovery Units
with By-Pass Damper



FOCUS DOGU

For the Future of HVAC Systems

We produce energy-efficient, environmentally friendly, innovative and sustainable climate control products with future technology.



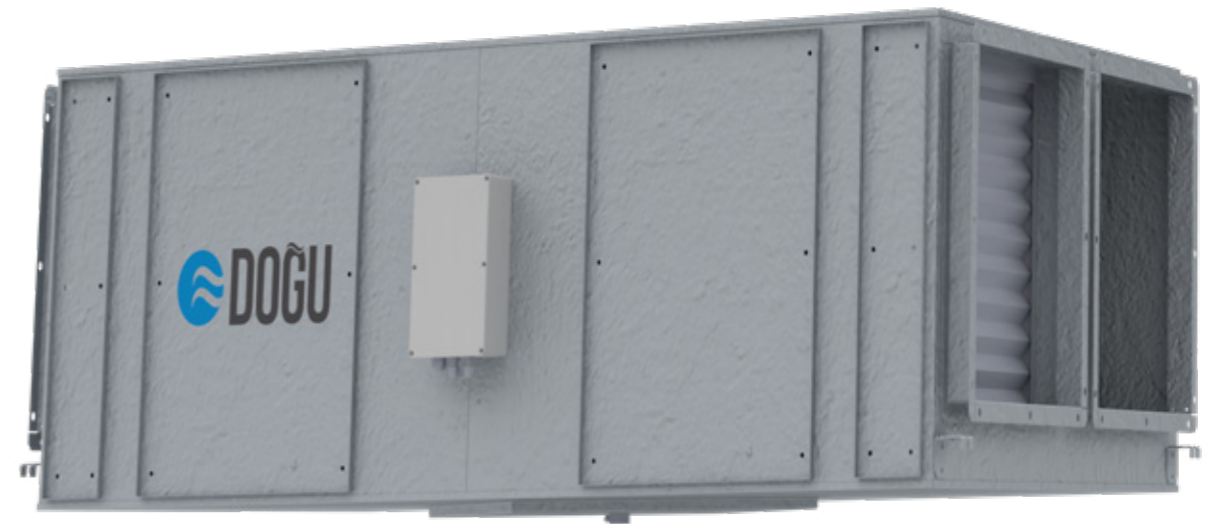
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HEAT RECOVERY UNITS with BY-PASS DAMPER

GENERAL OVERVIEW

- Low Energy Consumption
- Aluminum Heat Exchanger with High Efficiency
- Low Sound Level
- High External Static Pressure
- G4 Class Filter
- By-Pass Damper
- Voltage Control
- Optional Water or Electric Heater
- Optional Sound Attenuator
- Optional Smart Control System
- The unit case is produced from 275 gr galvanized sheet.



COMPONENTS

· OPERATION

In places that are air-conditioned by heating or cooling, low quality air-conditioned indoor air is formed where carbon dioxide and other harmful gases in the indoor environment are concentrated. While this air is exhausted, the heat load it carries is collected in the plate heat exchanger of the BGK-By Pass Damper Heat Recovery Units to condition the incoming fresh air. Thus, it is possible to recover 50-60% of the heat load in this air while the poor quality indoor air is discharged. Thanks to the by-pass damper, free-cooling and anti-freezing protection of the heat exchanger is provided. BGK-By-Pass Damper Heat Recovery Units work silently and with high efficiency with their plug-fan motors. Thanks to the speed switch sent as standard with the product, the device can be operated at the desired flow rate.

① CASE

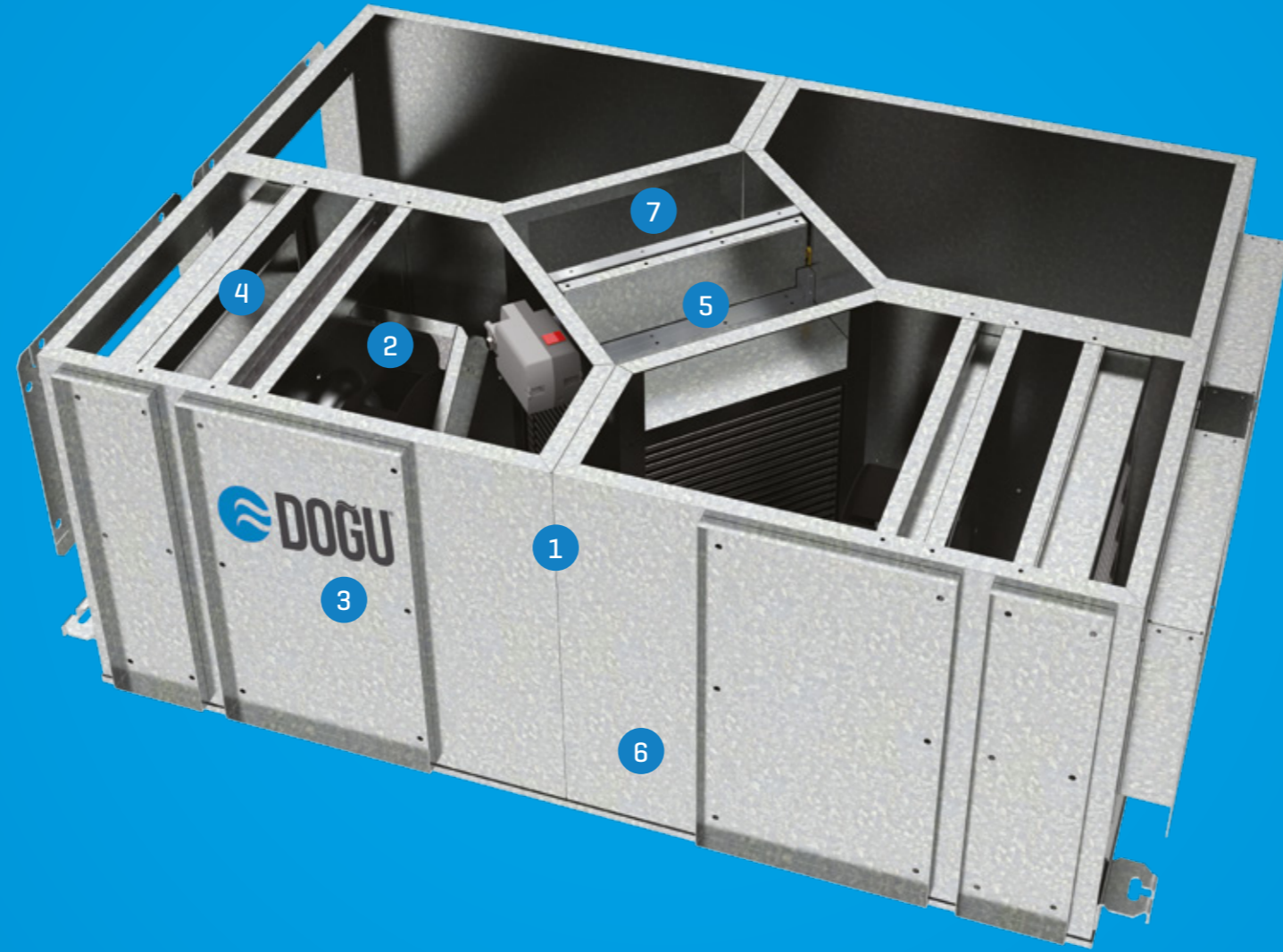
The case is produced from galvanized sheet. It is covered with 6 mm rubber insulation, providing both sound and heat insulation.

② FANS

The blowing and exhaust fans used are plug type. There are intervention covers on the case in order to easily intervene with these fans.

③ FAN COVERS

By means of these covers, the fans can be easily removed in case of maintenance or malfunction.



④ FILTERS

There is a G4 filter in both the exhaust and fresh air inlets of the device.

⑤ HEAT EXCHANGER

In this way, the aluminum plate heat exchanger, which is the main equipment of the device, is kept clean and working efficiently.

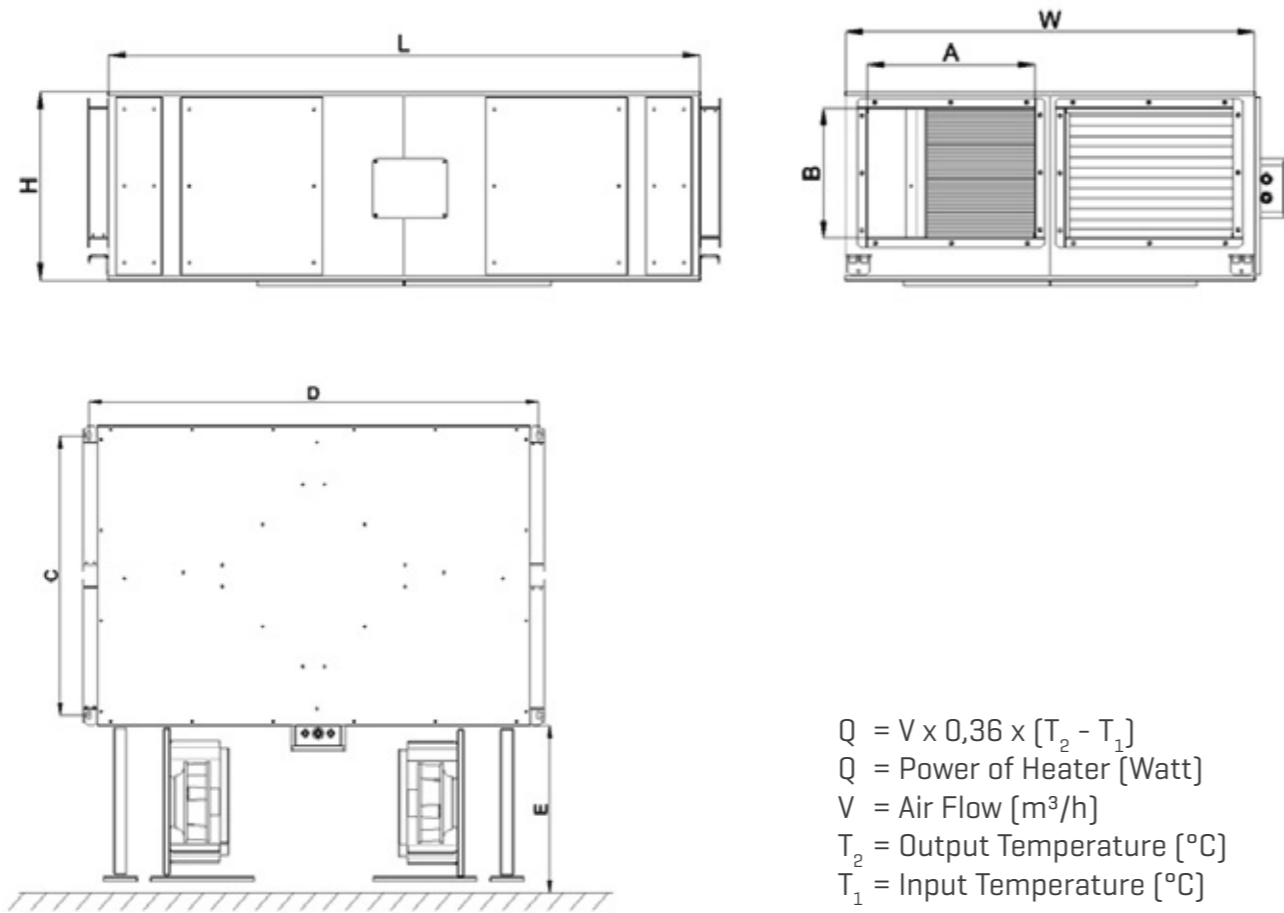
⑥ ELECTRICAL JUNCTION BOX

In order to easily connect the device to the mains, the electrical junction box, where the terminal connections of the fans are located, is fixed on the case.

⑦ BY-PASS DAMPER

Thanks to the By-Pass Damper, free-cooling and anti-freezing protection of the heat exchanger is provided.

DIMENSIONS

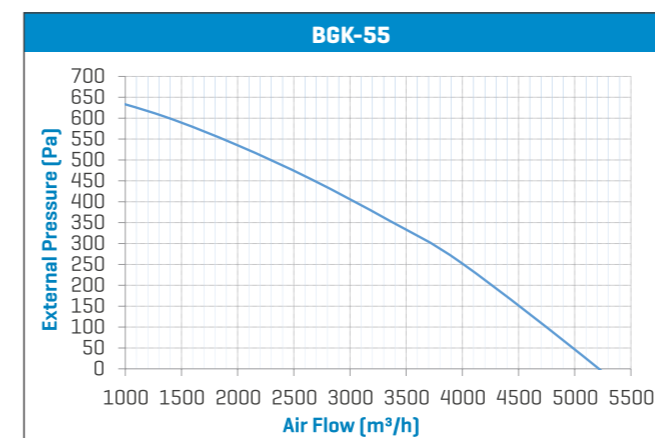
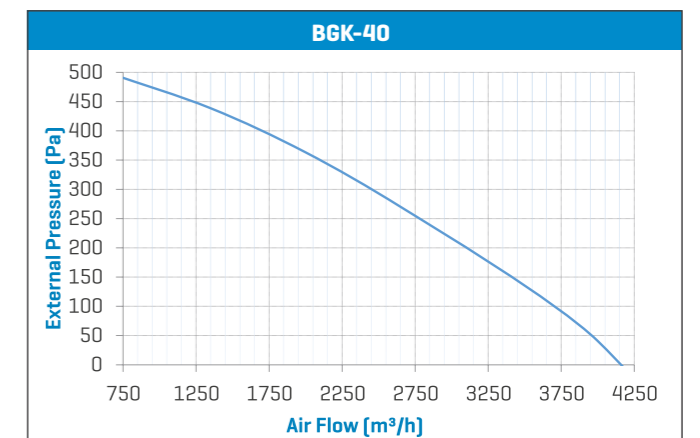
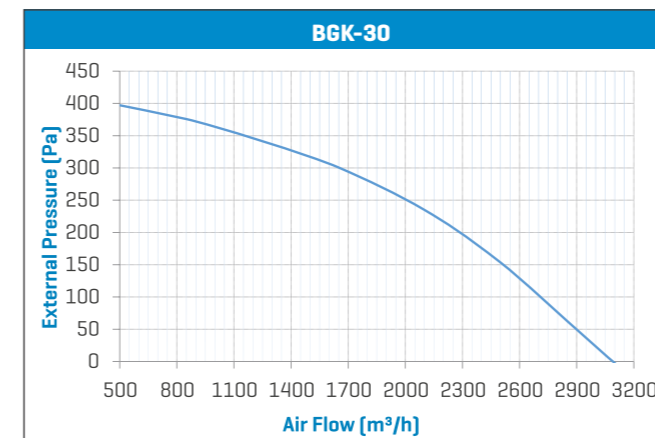
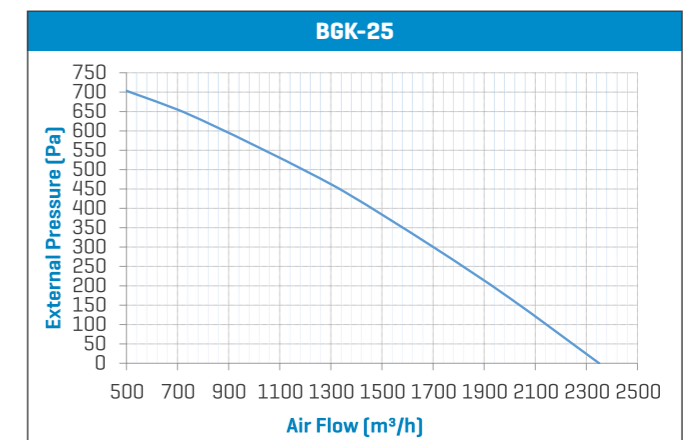
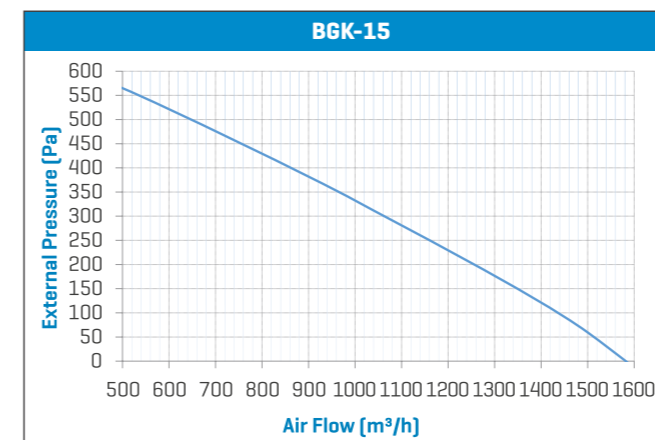
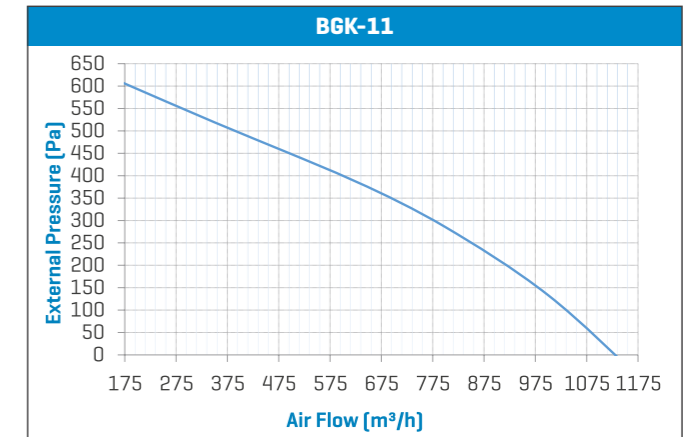
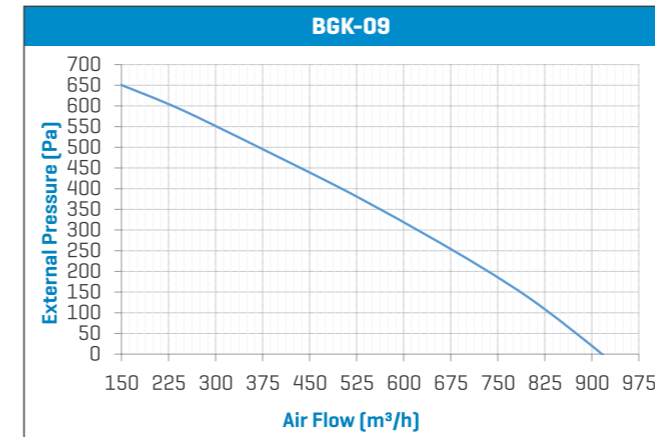


$$Q = V \times 0,36 \times (T_2 - T_1)$$

Q = Power of Heater [Watt]
 V = Air Flow [m³/h]
 T_2 = Output Temperature [°C]
 T_1 = Input Temperature [°C]

MODELS	Birim	CAPACITY				L	W	H	A	B	C	D	E	Weight	Electric Heater Capacity
		Air Flow	Pressure	Air Flow	Pressure										
		m ³ /h	Pa	m ³ /h	Pa										
BGK-09		910	0	800	150	1120	720	455	260	210	650	1086	400	55	3 Kw-2Kd
BGK-11		1125	0	1000	150	1160	800	485	300	240	730	1126	440	60	4 Kw-2Kd
BGK-15		1570	0	1350	150	1430	980	550	390	300	910	1496	550	105	6 Kw-3Kd
BGK-25		2350	0	2000	150	1590	1100	610	450	350	1030	1656	610	130	9 Kw-3Kd
BGK-30		3100	0	2500	150	1900	1126	720	510	460	1156	1966	660	165	12 Kw-3Kd
BGK-40		4155	0	3500	150	1930	1300	775	550	520	1230	1996	700	210	15 Kw-3Kd
BGK-55		5550	0	5000	150	1930	1300	775	550	520	1230	1996	700	210	15 Kw-3Kd

HEAT RECOVERY UNITS with BY-PASS DAMPER



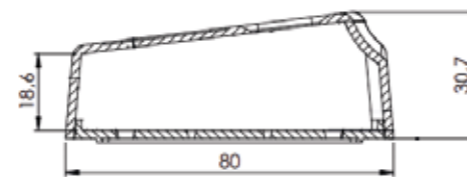
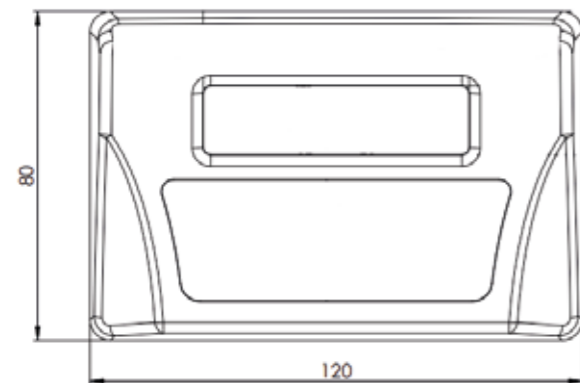
MODELS	V / Hz / Ph.	Power (W)	Amper (A)
BGK-09	230V/50 Hz/1ph.	414	1,36
BGK-11	230V/50 Hz/1ph.	424	1,86
BGK-15	230V/50 Hz/1ph.	634	2
BGK-25	230V/50 Hz/1ph.	1006	4,54
BGK-30	230V/50 Hz/1ph.	916	4,66
BGK-40	230V/50 Hz/1ph.	1388	4,4
BGK-55	230V/50 Hz/1ph.	2600	13,6

CONTROL PANEL

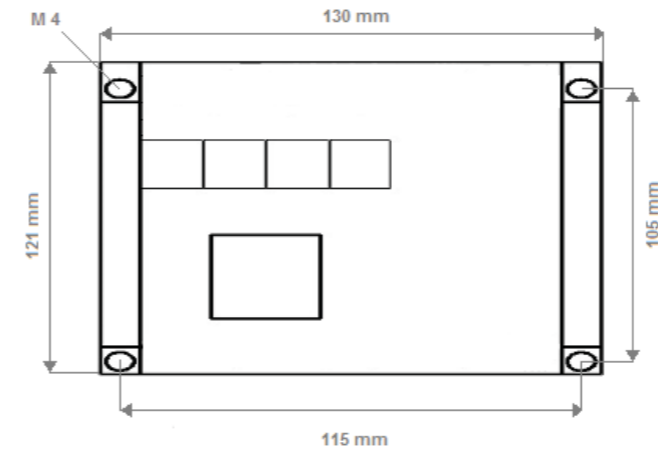
The control panel, meticulously designed to incorporate all details of heat recovery units, takes the operation of these devices a step further. In today's world of rising energy costs, it plays a significant role in minimizing operating expenses by maximizing energy savings in HVAC systems. Below are some key features of the control panel:

- ☞ Stylish and simple LCD screen control unit
- ☞ 220V AC power supply
- ☞ Temperature control range: 5-35°C
- ☞ High-precision digital sensor
- ☞ Real-time ambient temperature display on the control unit
- ☞ Operation modes for summer and winter seasons
- ☞ Automatic/manual operation options
- ☞ Fan speed level monitoring in manual mode
- ☞ Communication capability with the heat recovery unit up to a distance of 50 meters

ROOM PANEL



CONTROL BOARD



SUSTAINABILITY SOLUTIONS AT DOĞU HVAC



GOOD HEALTH and WELL-BEING

We offer supplementary health insurance to our employees to promote healthy living. We also plan health-focused initiatives such as smoking cessation programs.



QUALITY EDUCATION

Through the DOĞU HVAC CLUB project, we organize technical tours of our factory, participate in career events, and provide sponsorships to support the skill development of university and technical high school students.



GENDER EQUALITY

In 2024, we increased female employment in our administrative and production departments. This step aims to contribute to gender equality by offering a workplace with equal rights for all employees.



AFFORDABLE and CLEAN ENERGY

Our R&D center's 2,500 m² solar panels and 0.6 MW annual capacity solar energy systems reduce our carbon footprint. We generate our electricity, ensuring a reliable, sustainable, and accessible clean energy source.



DECENT WORK and ECONOMIC GROWTH

Decent Work and Economic Growth: As an employer brand, our primary goal is to protect our employees' rights and create a workplace founded on equality and justice for all employees.



SUSTAINABLE CITIES and COMMUNITIES

We enhance indoor air quality with environmentally friendly and energy-efficient products, ensuring adherence to European standards.



RESPONSIBLE CONSUMPTION and PRODUCTION

We minimize waste through lean production policies and emphasize recycling, simultaneously increasing efficiency in our production processes.



CLIMATE ACTION

We support environmental protection through our eco-friendly, sustainable, energy-efficient product lines and R&D efforts focused on reducing waste that could contribute to climate change.



PEACE, JUSTICE and STRONG INSTITUTIONS

We value transparency and accountability, working with associations like İSKAV to prevent corruption and unfair competition, aligning with sectoral ethical values.

Venues Breathe With Us



Read to watch our
promotional video