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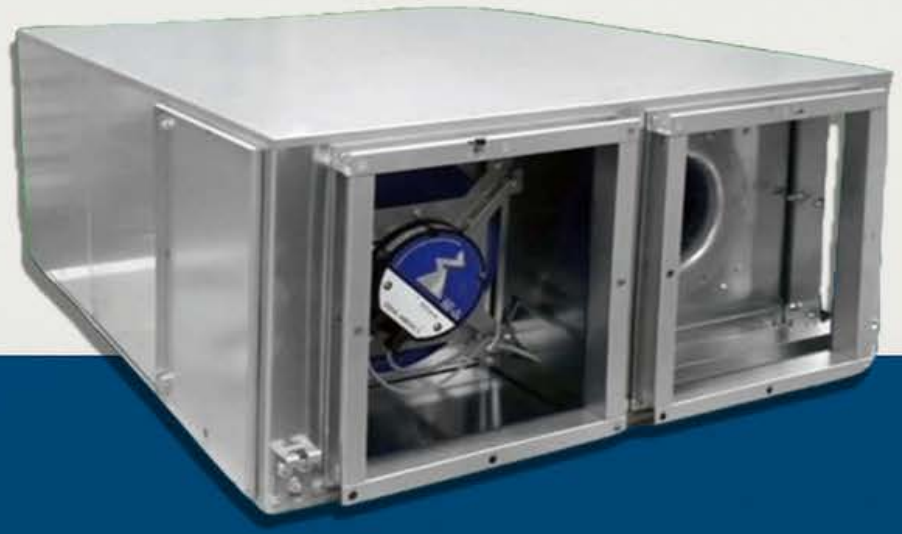
HEAT RECOVERY DEVICE



Product Catalogue

HEAT RECOVERY UNIT

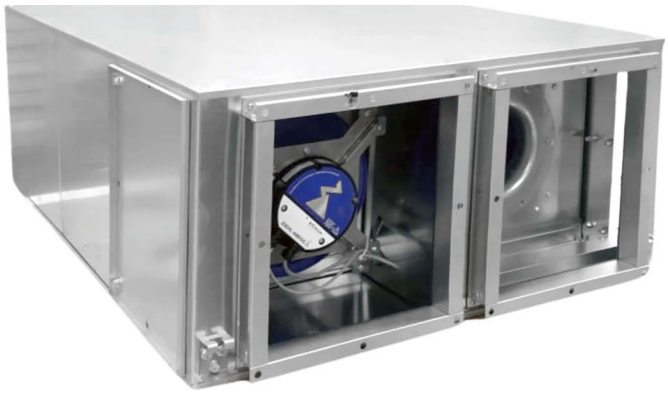
Heat Recovery Unit: Maximum Efficiency, Superior Comfort

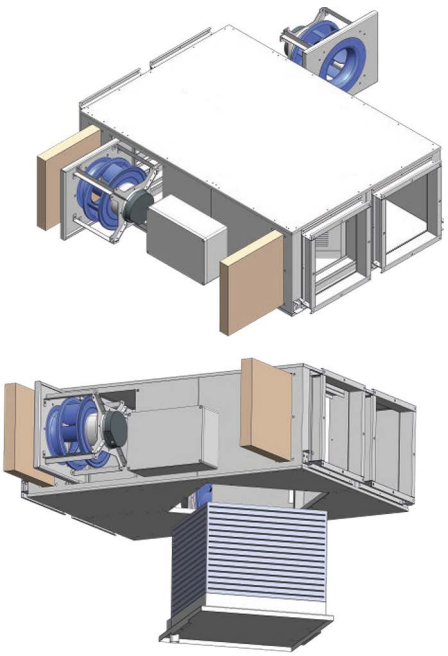
The Heat Recovery Unit is engineered to meet indoor fresh air requirements in the most efficient way possible. This innovative system maximizes the recovery of heat from the exhausted air, combining energy savings with sustainability.

Delivering high performance in various environments such as schools, hospitals, offices and residential buildings, the Heat Recovery Unit ensures maximum airflow under all conditions with its advanced motors and fan systems. To enhance air quality, low-energy consumption filters effectively remove outddor particulates, ensuring a cleaner and healthier indoor environment.

Designed with comfort in mind, the unit's noise levels are minimized through special acoustic barriers, reducing any sound emissions from the casing. Additionally, to further decrease airflow-related noise, the inner surface of unit is lined with fire-resistant, easy-to-clean, laminated acousticfoam, ensuring both durability and optimal sound insulation.

With the Heat Recovery Unit, fresh air, comfort and energy efficiency are always with you!





Heat Recovery Unit Features

- **Durable Design:** Long-lasting and robuts structure with a galvanized steel casing
- **Superior Sound Insulation:** Quiet operation with speciial acoustic foam and sound barriers
- **High-Efficiency Fans:** Silent aerofoil-blade radial fans with AC and EC motor options
- **Easy-to-Replace Fan System:** Quick maintenance and replacement with a sliding rail design
- **Maximum Energy Savings:** Efficient air circulation with an aluminum plate heat recovery exchanger
- **Advanced Air Filtration:** Guaranteed clean air with ISO ePM1 O (G3) class filters
- **Convenient Maintenance:** Easy filter access through side-opening panels
- **Fast and Easy Installation:** Effortless integration with a standard control panel
- **Smart Condensation Management:** Easily removable and cleanable heat exchanger and condensation tray

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HEAT RECOVERY UNIT

Heat Recovery Unit Technical Specifications Table

TYPE	NOMINAL AR VOLUME	MAX. EXT. STAT. PRESSURE	MOTOR TYPE	POWER SUPPLY	FAN MOTOR POWER	MAX. CURRENT DRAWN	CASE RADIATED SOUND PRESSURE LEVEL [2]	AIRSIDE RADIATED SOUND PRESSURE LEVEL[3]	MIN/MAX. OPREATING TEMP.	HRV OUTLET TEMP. WINTER[4]	HRV OUTLET TEMP. SUMMER[5]	DIMENSIONS (mm)			WEIGHT
												W	L	H	
IGK-10-AC	1000 m3/h	400 Pa	AC	220V/1Ph/50Hz	0,515 kW x 2	2,3 Amp x 2	46 dB(A)	81 dB	-20 / 40°C	9,5°C	30,2°C	880	1000	430	95 kg
IGK-15-AC	1500 m3/h	200 Pa	AC	220V/1Ph/50Hz	0,515 kW x 2	2,3 Amp x 2	34 dB(A)	77 dB	-20 / 40°C	8,6°C	30,5°C	880	1250	430	107 kg
IGK-20-EC	2000 m3/h	300 Pa	EC	220V/1Ph/50Hz	0,50 kW x 2	2.5 Amp x 2	35 dB(A)	78 dB	-20 / 60°C	8,4°C	30,6°C	880	1250	430	114 kg
IGK-30-EC	3000 m3/h	300 Pa	EC	220V/1Ph/50Hz	0,78 kW x 2	3,9 Amp x 2	37 dB(A)	80 dB	-20 / 40°C	8,2°C	30,7°C	980	1400	500	141 kg
IGK-40-EC	4000 m3/h	400 Pa	EC	380V/3Ph/50Hz	1,50 kW x 2	2,4 Amp x 2	44 dB(A)	86 dB	-20 / 60°C	8,1°C	30,7°C	980	1400	600	156 kg
IGK-50-EC	5000 m3/h	250 Pa	EC	380V/3Ph/50Hz	1,50 kW x 2	2,4 Amp x 2	44 dB(A)	86 dB	-20 / 60°C	10,9°C	28,8°C	1460	1900	650	271 kg
IGK-60-EC	6000 m3/h	400 Pa	EC	380V/3Ph/50Hz	2,50 kW x 2	4.0 Amp x 2	47 dB(A)	90 dB	-20 / 50°C	10,7°C	28,9°C	1460	1900	650	271 kg

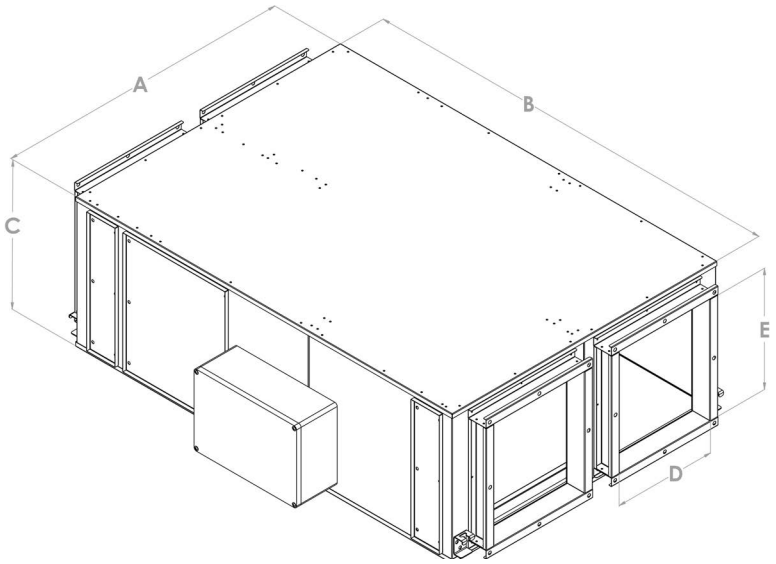
A External Maximum Static Pressure values are the values that can be used in the duct line after leaving the device in clean filler operation

A The sound pressure value emitted from the case is at the highest fan speed, at a distance of 1 meter from the body, including 7 dB room absorbtion.

A The sound pressure value emitted from the duct is the value at the outlet mouth of the fan at the highest fan speed.

A Winter Opretaion: Outside Air Temp. -3°C - Return Air Temp.22°C. FHeat gain !rom fans is excluded.

A Summer Operation: Outside Air Temp. 35°C, %40 RH - Return Air Temp. 24°C, %50 RH. Heat gain from fans is excluded.



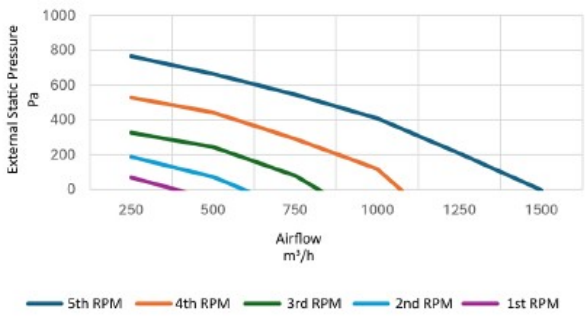
Heat Recovery Unit Dimensions List

KOD	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
IGK-10-AC	880	1000	430	300	350
IGK-15-AC	880	1250	430	300	350
IGK-20-EC	880	1250	430	300	350
IGK-30-EC	980	1400	500	350	400
IGK-40-EC	980	1400	600	400	500
IGK-50-EC	1460	1900	650	600	550
IGK-60-EC	1460	1900	650	600	550

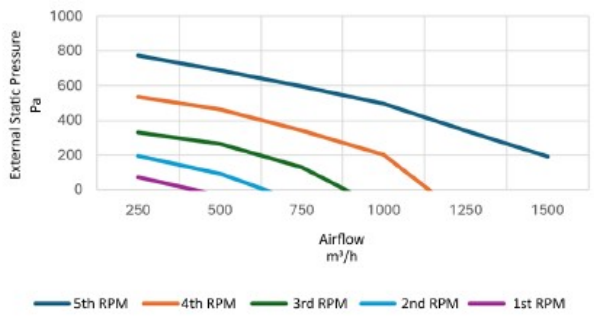
HEAT RECOVERY UNIT

Heat Recovery Unit Fan Curves

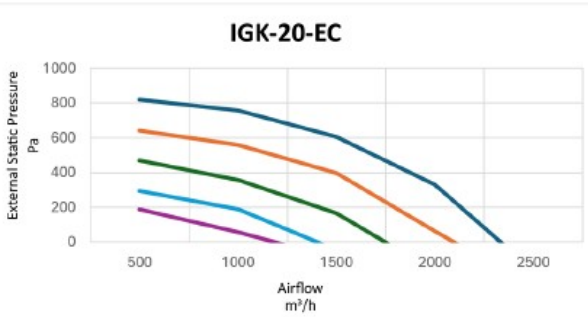
IGK-10-AC



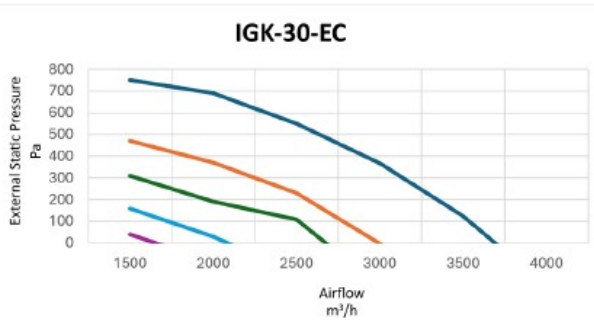
IGK-15-AC



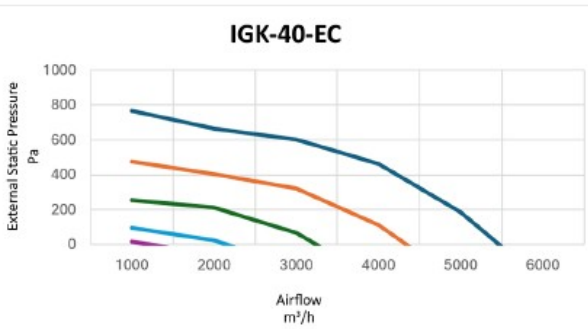
IGK-20-EC



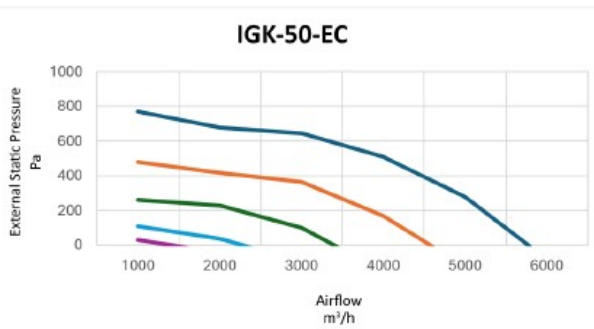
IGK-30-EC



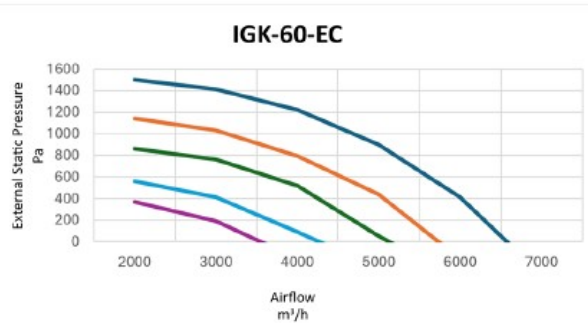
IGK-40-EC



IGK-50-EC



IGK-60-EC



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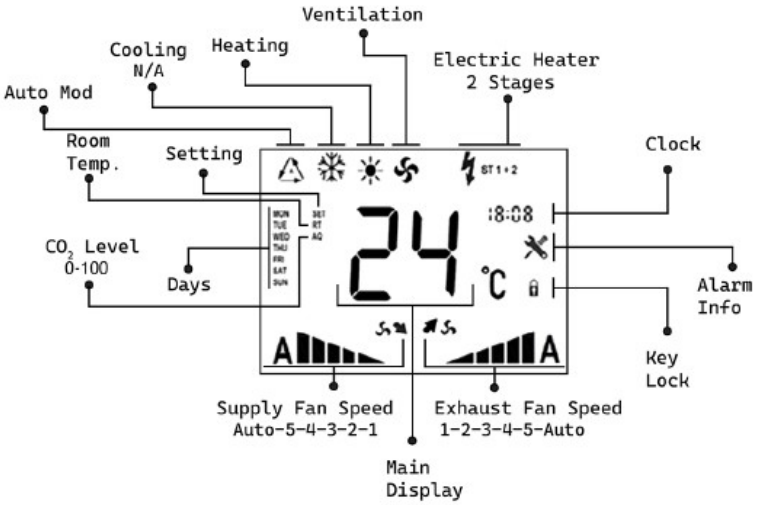
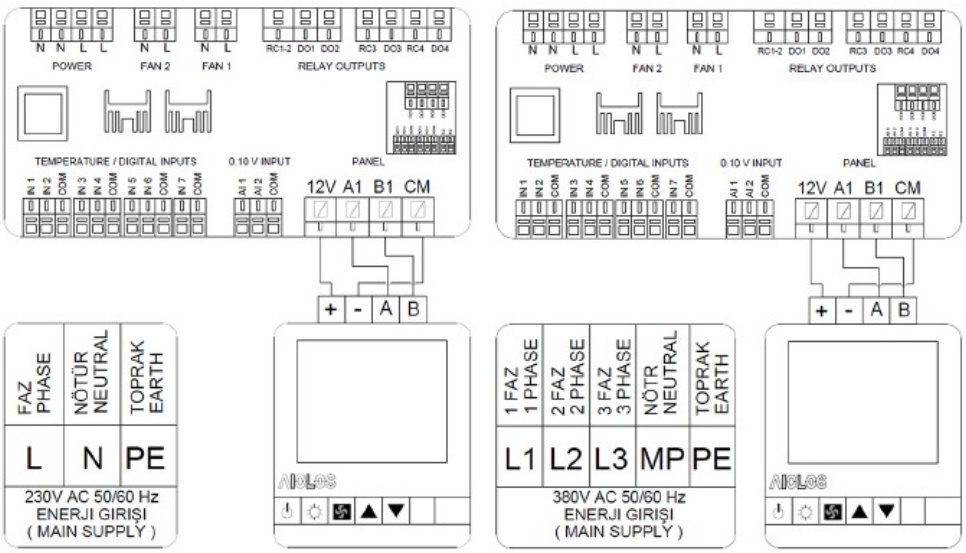
HEAT RECOVERY UNIT

Heat Recovery Unit Room Control Unit



- User-Friendly Room Controller with Display
- Integrated Temperature Sensor
- 7-Day Scheduling with Timer
- Operating Mode Selection
- 5-Stage Fan Speed Control
- Auto/Manual Mode
- Modbus BMS Communication
- Dirty Filter Alarm Display
- Fire Alarm Contact
- 2-Stage Electric Heater Control
- Alarm Monitoring
- CO_2 Sensor, Wall-Mounted (Optional)

Heat Recovery Unit Room Control Unit Electrical Diagram



230 V/1Ph/50Hz

380 V/3Ph/50Hz

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