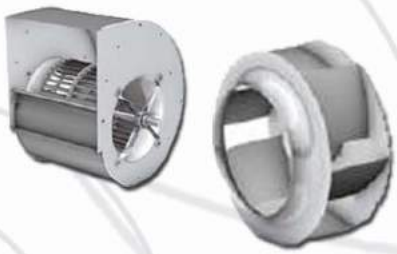
KLİSOM

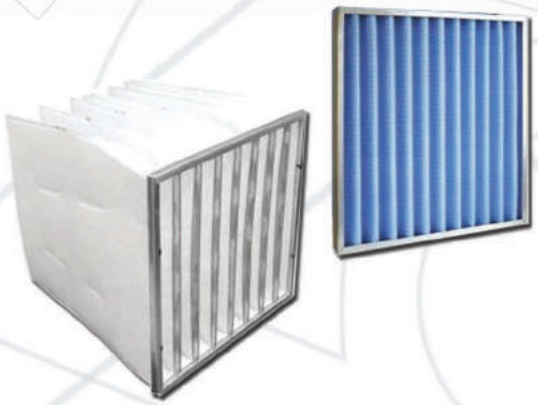
SECTION CONSTRACTION

Aluminum profiles of 6063 quality and suitable plastic edge pieces make up frame. Seals used in order to prevent possible air leaks in edges and support profiles and cover profiles and cover panels' connection points are manufactured from EPDM material. Those seals that don't change shape when squished provide maximum sealing. The panels that make up body are comprised of two internal walls and are manufactured from powder coated galvanized sheet on the external surface, and galvanized sheet or stainless sheet on the internal surface. Panels with sandwich structure are manufactured from 0,80-1,00 mm sheet according to its use. Glass fiber with 50kg/m^3 density or stone wool with 70kg/m^3 density are used for sound and heat isolation between two internal walls. Inceptions windows, water proof floodlight, emergency stop button and engine protection cap are placed inside cells as per project conditions. Service doors are comprised of knuckles and locked door mechanism. It base has lifting holes for easy transportation.

FANS

Doublet inlet radial ventilator/aspirator provides high performance and works very noiseless with static and dynamic balance. This property is reinforced by the flexible connection of vibration isolator and fan exit to the body. Double inlet fans or plug fans with wings leaning forward or backwards can be used, depending on the project.



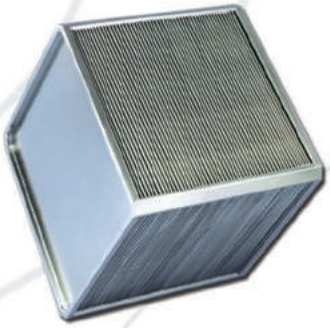


FILTERS

Different types of filters are used in air conditioning units according to the needs. Pnale filters are of G4 class and can hold rough dust. It is placed in V setup in order to maintain the air speed above the filter inside the cell at minimum. Roughing filters use compression system with springs instead of sledges in order to reduce the by-pass amount. Also the roughing filter that is the size of standard cassettes enables easy cleaning and the advantage of keeping spare parts. According to the project, metal type, bag type, compact type, active carbon filters can be installed inside the unit instead of G4 Class roughing filter.

AIR DAMPERS

Body and wing profiles are manufactured from aluminum material of 6063 quality by extrusion. Gear and bed sections are manufactured from PVC material. In order to prevent air leaks when dampers are completely shut, gears are placed on different section inside the body and seals made from EPDM materials are placed on wings. According to air flow and machine dimensions, with the wing and gear widths are designed so as to minimize air leaks on the edges. Wings have the structure to resist the air flow. It can work manually or with servomotor control optionally.



HEAT RECOVERY UNITS

Plate Type

Cross flowing heat recovery units is comprised of aluminum plates locked in a sealing manner after being shaped in a mold, and effective heat transfer between the fresh air coming inside the unit and the exhaust air going out is obtained by high heat transfer.

Heat Wheel Type

Trapeze thin aluminum folio is made by soiling the materials on an axle clockwise. Fresh air passes through a half of the circle made with this process and the exhaust air through the other half. Rotor is run by electric motor and redactor to make 6 tours per minute. In this manner, the heat of the rotor gained by the passing of waste air is passed into fresh air. High efficiency is gained by transferring latent heat alongside heat with the condensation of moisture inside the air.

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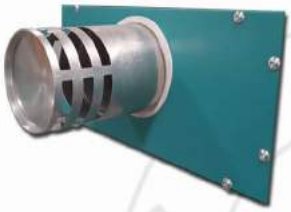

EXCHANGERS

Gas-fired heat air generator exchanger modules are comprise of aluminized steel which is pipe type, special design and rigged with in shot type burners. In addition, enclosed burning cycle which is full automated controlled and fan reinforced exists. Burner on exchanger is gas –fired as standard but optionally it can be manufactured as butane-fired and Propane- fired (LPG). Exchangers are in accordance with CE certificate. Burned gas is discharged by fan on it.

SILENCERS

Silencer inside the galvanized sheet with different lengths that are used for decreasing the decibel level according to the frequency and strength of the sound are comprised of stone wool and wings covered with glass fiber.

CONTROL PANEL

Optionally suggested KLİSOM control panel which is programed by users provides :

- Air conditioning
- Heating
- Cooling modes according to
  - * Temperature values which is entered by users
  - * Time Programs which is set by users

Additionally Panel which provides On-Off working as standard besides two stepped and modulation working demonstrates data like air filters pollution, failure information, service warning and similar information on LCD.

TECHNICAL DATA

MODEL	MINIMUM HEATING CAPACITY kW	MAKSIMUM HEATING CAPACITY kW	MINIMUM AIR FLOW RATE m^3/h	MAKSIMUM AIR FLOW RATE m^3/h
KKS-G1	15	100	3600	7200
KKS-G2	50	150	5400	10800
KKS-G3	50	200	9000	14400
KKS-G4	75	300	12600	18720
KKS-G5	100	400	18000	25200
KKS-G6	100	400	21600	28800
KKS-G7	100	450	25200	32400
KKS-G8	150	600	32400	39600
KKS-G9	150	825	36000	50400
KKS-G10	175	900	46800	57600
KKS-G11	200	900	50400	64800
KKS-G12	250	900	54000	79200

1. Each model fan and exchanger changes are designed provide essential temperature difference as 46 ˚C.
2. For Each model, air flow rate values are minimum and maximum. For intermediate values and sizes consult with KLİSOM.
3. Out of standard air flows and exchanger capacities are exist as optional.
4. Values on table are for information purpose only.

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