MINI | CLIMATE

Ventilation Units

MINI can provide small spaces with fresh and filtered air without opening the windows, which is quite important during cold or warm periods of the year. Notably, MINI is a 3-IN-1 device that provides air purification, ventilation, and comfort for single rooms.

CLIMATE, which uses the same "plug and play" form factor as MINI, is an exhaust and supply fan system for thermal energy recovery, and can continuously ventilate rooms, apartments, and houses.

PURIFICATION | Clean Air

The units can use G2 (MERV4) filters to remove pollutants from the outdoor air that is supplied to your space. Additionally, MINI can accommodate the use of HEPA filters.

VENTILATION | Fresh Air

The units exhaust stale air and pollutants from your space while simultaneously supplying fresh and filtered air from the outdoors.

COMFORT | Conditioned Air

The units have been developed to utilize air-to-air exchangers that can condition the indoor air that is supplied to your space throughout the year thereby reducing your energy bills.

SPECIFICATIONS[1,2,3]

Parameter	MINI	CLIMATE
Air volume flow rate [m^3/h][4]	≤45	≤75
Sound level [dB][4]	43	23
Nominal voltage [V DC]	12	5
Power consumption [W] [4]	≥4.0	≥1.6
Duct diameter [in (mm)]	3 (76.2)	
Weight [lb (kg)]	11.0±2.2 (5±1)	

1. All reported specification values are nominal.
2. The effectiveness of MINI, which is rated to ≤80%, is calculated based on an adaptation of AHRI Standard 1061 (2018) when PM2.5 (~1.2 L/s) and MERV4 (~2.5 L/s) filters were used in the supply and exhaust vents, respectively, at the normal mode at specific boundary conditions.
3. This is the air flow rate of a unit at 12V DC and is based on the exhaust side under free-flow conditions. The units are configured for dehumidifying ventilation at the normal mode.
4. The measurements represent the minimum controllable level of an operating unit and exclude variants that do not have dedicated fan controllers. The sound measurements were taken at ~1 m from the supply vent for MINI or exhaust vent for CLIMATE.
5. The recommended indoor conditions of the units are as per the winter and summer comfort zones that are prescribed in ANSI/ASHRAE Standard 55 – 2010.

Note. Due to continuous research and development and the diversity of suppliers that are utilized by the manufacturer, the specifications, drawings, and images of the product may vary between the technical data sheet and/or the actual units that are received by customers. We reserve the right to modify the data sheet.

MODEL	QUANTITY	COMMENTS	PROJECT
			Location: Architect: Engineer: Contractor: Submitted By:

APPLICATIONS

- Can be permanently installed or used as a portable unit;
- Suitable for both new construction and retrofit projects;
- Suitable for: bedroom; living room; recreation room; office; studio; garage; shop; apartment; tiny house; small house.

INSTALLATION

The units are easily self installed, and can be sited in multiple places such as a table / floor or mounted on a wall / ceiling.

Window/Door. The ducts shall be inserted into two holes that are drilled into a board. A fabric casement seal with two zipper orifices may be used in lieu of a board to avoid drilling.

Wall/Ceiling. The ducts shall be inserted into two holes that are drilled through the wall or ceiling that can support the weight.

CONTROL

Normal. This is the default mode of the unit once a power adapter has been connected to the power connector port.

Boost. The unit operates in this mode at a higher flow rate when the power switch is pressed until it latches.

MAINTENANCE

It is recommended to change the filters at least once in three months depending on the outdoor air conditions.

DRAWING