# Air

## Plinth Fan Unit

Designed for 005 series of racks and cabinets, the plinth fan mounts into the base for extra cooling. It may be installed both in the front only and or rear for extra cooling capacity.

The filter media offers dust protection to equipment when cool air is being dragged in via the base of the cabinet frame.

| TYPE | CODE |
|---|---|
| TYPE A/B WITH 19"GRILLE TRIM | 03000.01 |
| TYPE A/B WITH 650 GRILLE TRIM | 03000.02 |
| 005 WITH 600 GRILLE TRIM | 03000.03 |
| 005 WITH 800 GRILLE TRIM | 03000.04 |
| 005 WITH 700 GRILLE TRIM | 03000.05 |
| FILTER MEDIA (19") | 12637.01 |
| FILTER MEDIA (650) | 12637.02 |
| FILTER MEDIA (800) | 12637.03 |
| FILTER MEDIA (600) | 12637.04 |
| FILTER MEDIA (700) | 12637.07 |

## AC Axial Fans

These fans feature:

- Aluminium die cast frame
- Thermoplastic impeller – UL rated 94VO.
- Impedance protection
- Ball bearing construction
- UL recognised
- CSA Certificated
- VDE Pending
- Includes finger guard and lead.
- Life expectancy exceeds

90,000 hours @-20°C.

- Also available in other voltages.


| CHARACTERISTIC | VALUE |
|---|---|
| BEARING | Ball |
| OPERATING | 185-245 VAC |
| NOMINAL | 220/240 VAC |
| FREQUENCY | 50/60 Hz |
| AIR FLOW | 80/105 CFM |
| CURRENT | 120/110 MA |
| POWER | 20/19 W |
| LOCKED ROTOR | 0.4/0.12 A |
| SPEED | 2550/2900 RPM |
| NOISE | 43/48 dBA |

*Note All codes need RWS- Prefix*

# Management

## Thermostats

Will the system benefit by including a thermostat in the fan panel? Thermostat controls are available, please see the Thermostat Information detail below for further-options.

Temperature regulators are used in control systems for the exact regulation of the air temperature. The required temperature is set with a graduated dial.

| | |
|---|---|
| ADJUSTMENT RANGE: | 10°C – 60°C |
| DIMENSIONS: | 67 X 50 X 37mm |
| WEIGHT: | 0.1KG |
| HOUSING: | PLASTIC UL 94 V-0 |
| PROTECTION: | IP 30 (DIN 40050) |
| THERMOSTAT | 37031-35 |

## Thermostat Information

Adjustable Thermostat control will switch the fans on when the pre-set temperature is reached. They have a differential of approximately 8-10°C so the temperature within the cabinet must drop by this amount for the fans to switch off. Setting the Thermostat at too low a temperature setting will often result in the fans running continuously, thus negating the use of the Thermostat. As most equipment is designed to work comfortably up to 30° or more, a setting of 25° to 30° should be considered as appropriate.

***Fans = Noise. This is a fact.***Suitable Thermostats help to reduce this problem in three ways. • They prolong the life of fans and new fans are quieter than worn old fans

- Fans are often only needed when the equipment is running and the building air conditioning is shut down (e.g. weekends, nights etc)
- When the fans reduce the cabinet temperature and shut down on a 50% cycle and in an air conditioned building this is achievable. Then for 50% of the time there is no fan noise. This has a significant effect on the work environment surrounding the cabinet.

Fan noise level is usually about 45dB, ours included. This does not however mean every time an additional fan is added the noise level will increase by 45dB nor every time the number of fans is reduced the noise will drop by that amount. What it does mean is that there will be a small (about 5dB) adjustment only.

There are methods of reducing this noise level. However they usually depend on reducing the speed of the fan, with a consequential reduction in airflow, this may be an acceptable option. Please discuss your particular requirements with a member of our Sales Team.

*Note All codes need RWS- Prefix*

# Air

SEIFERT mtm Systems

## RWS recommends and distributes the Siefert range of air conditioners

This comprehensive range of maintenance free, filterless Air Conditioners recommended by RWS Products utilise “state of the art” technology, conforming to DIN 3168, these units are CFC FREE. When used in conjunction with an RWS cabinet, all holes required for mounting the Air Conditioner are incorporated during the manufacture, thus ensuring precision fitting and NO unpainted edges. When used with an RWS Industrial Cabinet and mounted externally, IP55 is maintained. Maximum dust and moisture protection rating for these units is IP54.

**Note:**
Air-conditioners can only be used with the IP industrial style cabinets, as a sealed environment is required for optimum performance.

CFC-FREE
Responible technology protects the environment

Environmental protection is our mutual responsibility, all Seifert air conditioners are-filled with the CFC-free refrigerant R134a.
All Seifert units are free from-silicone binders, formaldehyde, cadmium, PCB and-PCTZ.

## Rotary piston compressors

This type of compressor is used widely in these products as they run extremely smoothly and quietly at high speeds. As opposed to reciprocating compressors there is no loss of performance due to backward expansion of the refrigerant gas as the pressure and suction chambers are constantly separated and virtually 100% of the geometric cubic capacity of the rotary piston compressor can be put to use. This results in an improvement in the cooling performance of the air conditioners which in turn helps the environment. The-slim form of the rotary piston compressors enables the depth of the air conditioners to be kept to a minimum.

## Filterless airconditioners

Filterless airconditioners were developed in order to lower maintenance costs by eliminating filter changing and reducing cleaning to a minimum. These units have a patented condenser construction (DBP3136226, US patent 4 475 358) which consists of an aerodynamic aluminium extrusion around which the copper refrigerant pipe is wrapped in such a way as to make maximum heat transfer while allowing the dirtladen ambient air to pass through the condenser without clogging. Condensed water, which can be produced in very humid conditions or when the cabinet is not properly sealed, is separated from the cabinet air by impact separation in a specially constructed separator tray and fed to the ambient air circuit where it is evaporated. This is a patented principle (DBP 3 305 126 and DBP 3 714 727).

## AC Note

Air Conditioners are designed for industrial applications and are not suited for Office environments. Please note Air Conditioners emit a noise level of approx 68db.

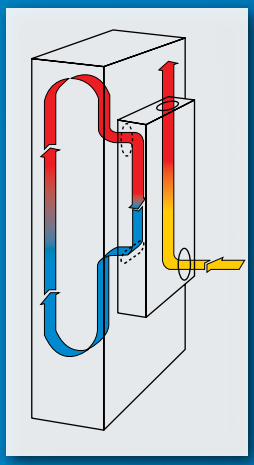
*Note; For use with our 080 series of industrial cabinets only.*

# Conditioners

## Slimline Unit

Slimline Units All Slimline Air Conditioners are mounted externally on the sides or rear of the cabinet, These units provide an IP seal onto the cabinet wall and do not encroach into the racking area.

Available from 320 watt to 2400 watt cooling capacity.

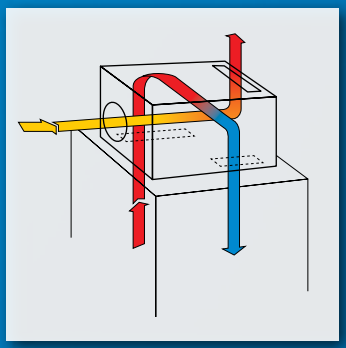


| Cooling Capacity (watts) | Power Consumption (watts) | Weight | To Suit | Code |
|---|---|---|---|---|
| 300 | 280 | 14KG | 18, 27, 39,45 RU | 37031.01 |
| 500 | 300 | 16KG | 18, 27, 39,45 RU | 37031.02 |
| 600 | 660 | 35KG | 27, 39,45 RU | 37031.46 |
| 1100 | 770 | 42KG | 27, 39,45 RU | 37031.47 |
| 1500 | 900 | 50KG | 39,45 RU | 37031.48 |
| 2600 | 1500 | 70KG | 45 RU | 37031.89 |

## Roof Mounting Unit

As the name suggests, this unit mounts on top of a cabinet. Choosing this option will dictate the minimum width and depth of the cabinet and it may clash with Lifting Eye Bolts if specified.

Avaliable in 1100 watt cooling capacity.



| Cooling Capacity (watts) | Power Consumption (watts) | Weight | To Suit | Code |
|---|---|---|---|---|
| 1100 | 710 | 55kg | | 37031.07 |