

SEIFERT AIR CONDITIONERS



MFB Products is proud to offer Seifert mtm Systems in Australia. This comprehensive range of maintenance free, filterless air conditioners utilize 'state of the art' technology conforming to DIN 3168. Internationally certified and produced to ISO9001, these units are CFC free.

Seifert manufactures precision air conditioners and heat exchangers suitable for enclosures in the telecommunication and process control industries. Their product range is the ideal complement to the MFB series of S280 Industrial Cabinets, especially where heat build up of electronics in a confined space demands effective cooling techniques. The Seifert product range includes filter fans, heat exchangers and air conditioners with cooling capacities from 200watt to 2600watt.

Custom cabinets especially for process control applications can be considered but they must have a sealed environment for optimum performance.

When used in conjunction with an MFB cabinet, all holes required for mounting the air conditioner are incorporated during manufacture, thus ensuring precision fitting and NO unpainted edges. When used with an MFB S280 Industrial Cabinet and mounted externally, IP54 is maintained.

Maximum dust and moisture protection rating for these units is IP54

MFB brings to you the Seifert thermal management range which includes the following:-

AIR CONDITIONERS

Seifert units are designed to operate with an absolute minimum of maintenance. They are environmentally friendly and do not need dirt collecting filter mats. Models are available with cooling capacities from 200watt to 2600watt. Units over 2000watts have the option of a washable and reusable metal filter.

HEATERS

Compact Seifert heaters are available with performances between 8 and 150watt for low temperature applications. Thermostats temp and moisture regulators complete the range.



AIR/WATER HEAT EXCHANGERS

The Seifert externally and internally mounted units together with 19" models are extremely compact and under optimal conditions can dissipate up to 4000watts.

AIR/AIR HEAT EXCHANGERS

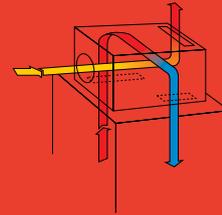
Seifert has developed counter and cross flow heat exchangers for the telecommunications industry which have been optimized for both indoor and outdoor applications.

FAN SYSTEMS

19" insert units; roof and mini fan systems are available to meet a multitude of applications. Fans with high suppression ratings are available to improve EMC technical features.

SLIM-LINE SERIES

The most popular range of Seifert precision air conditioning product can be classified by the Slim-Line series featuring filterless reliability. Maximum power to size ratio - this characterizes the Seifert Slim - Line units. Compatibility with market standards ensures the customer an ease of integration with his enclosure or cabinet systems. A performance plus of 20% provides fresh and reliable cooling under all working conditions.



MAINTENANCE FREE

Seifert Slim-Line units with cooling power from 320 to 1500watts have important advantages. They are designed to operate reliably maintenance free without filter mats. Units over 2000watts have the options of a washable and reusable metal filter

BETTER PERFORMANCE

The optimized wide ribbed aluminium condenser in the Slim-Line units together with the modified air inlet and outlet provide improved cooling performance and ensure reliability in industrial operation. High quality components form the basis of smooth running and long working life of all Seifert units.

ROBUST STEEL HOUSINGS

All Seifert units have attractive, well designed steel housings which can be powder coated to customer requirements. Stainless steel housings are available for applications where hygiene and / or corrosion resistance is essential. The mini externally or internally mounted units are only 110mm deep and are currently the smallest units on the market. As only small apertures need to be cut for mounting cabinet doors remain stable.

WORLDWIDE CERTIFICATION

Seifert units operate exclusively with the environmentally acceptable refrigerant R134a and meet current European standards. In addition they are certified to UL and CUL. The long working life of Seifert units, coupled with filterless operation which produces no negative by-products, reflects our efforts to protect the environment.

ROOF MOUNTING UNITS

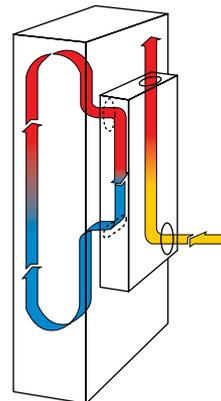
As the name suggests, this unit mounts on top of a cabinet. Choosing this option will dictate the minimum width and depth of the cabinet and it may clash with Lifting Eye Bolts if specified.

ROOF MOUNTING UNIT

CHARACTERISTIC	VALUE
COOLING CAPACITY (WATTS)	1100
POWER CONSUMPTION(WATTS)	800
WEIGHT (KG)	55
CODE	37031-07

SIDE MOUNTED 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.



SIDE MOUNTING SLIMLINE UNIT

CHARACTERISTIC	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
COOLING CAPACITY (W)	320	500	600	1100	1500	2600
POWER CONSUMPTION (W)	315	490	530	770	900	1500
900WEIGHT (KG)	13.3	16	30	48	56	79
TO SUIT (RU)	18,27,39,45	18,27,39,45	27,39,45	39,45	39,45	45
CODE	37031-01	37031-02	37031-46	37031-47	37031-48	37031-89

AIR CONDITIONERS

This comprehensive range of maintenance free, filterless Air Conditioners recommended by MFB Products utilise "state of the art" technology, conforming to DIN 3168, these units are CFC FREE.

FILTERLESS AIR CONDITIONERS

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 dirt-laden 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).



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 ensure optimal performance.

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.

NOTES:

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