



## **FM ACOUSTICS LTD**

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### **TECHNICAL BULLETIN No. 20**

Please take a minute to read this. It may save you time and money.

The large FM ACOUSTICS power amplifiers such as e.g. the FM 1811 and FM 811 use fan cooling. These power amplifiers need no maintenance - with one exception: they require cleaning of the fan filter. As they use Class A circuitry there must be no obstruction to airflow.

The cleaning of the fan filter is often regarded as not so important or just forgotten. It is, however, astonishing how quickly a fan filter gets filled up with dust and dirt. This even happens in rooms with filtered high-performance air conditioning. When considering that in a typical operating day a fan may move the equivalent of over one million liters of air, it is obvious why the fan filters need to be checked regularly.

Even a fan filter that „looks“ clean can be filled with fine dust particles as these particles are too small to be detected by the human eye. A filter that has not been cleaned for 6 weeks can increase the temperature inside the amplifier by up to 20 degrees C! If this is left for an extended period it will reduce the lifetime of certain components.

In your own interest, make sure that the fan filter is cleaned or replaced once a month (demanding situations may require cleaning every one or two weeks).

For quick servicing one can just vacuum the filter from the outside but every 3rd time, clean the filter by washing it and rinsing it. Let the filter dry thoroughly before re-installing it! After being washed a couple of times, the filters must be replaced.

The amplifier will honour this with a prolonged life.

Fan filters are available in packages of ten pieces from our distributors.

Make it a rule to periodically check the fan filter. Damage from weakened components can be bothersome, expensive and time consuming.