



SF220-20th Audio preamplifier



Congratulations!

You have purchased a legendary audio product that brings you both the superior sound of vacuum tubes and state of the art technology; learned over the past 20+ years of product development. The SF220 will bring you long hours of listening enjoyment. A truly *TANGIBLE MUSICAL EXPERIENCE*

Vacuum tube preamplifier SF220

The Margules SF220 series combines the superior sound of vacuum tubes with innovative circuitry that pushes design boundaries. The result is exceptionally good sound and unusual versatility.

Low impedance

The SF220's output stage is a very-low-impedance design that can drive virtually any cable or power amplifier without audible interaction or loss of sound quality. The SF220's wide frequency response is maintained even with long cable runs, so there is no softening or loss of detail.

The SF220's advanced design is complemented by the use of premium components. The PC board is silver-plated for maximum conductivity.

The SF220 is clean and effortless-sounding that it brings out the best in any power amplifier, even solid-state

models that sound constricted or edgy with other preamplifiers.

Shunt Regulated Power Supply

The power supply is located in a separate chamber within the chassis of the preamplifier to avoid noise induction.

On board the SF220 there is SHUNT power supply for its high voltage circuits. Shunt technology provides a dramatic improvement in Q damping, the key factor in regulating voltage for those stages. Good regulation reduces the loss of signal integrity that occurs when the signal itself shifts the amplifier's operating point. Damping is critical to overall performance including smoother transient response and overall staging. Further improvements in quickness, dynamics and the overall life-like listening experience result.

Our new Power Supply is virtually indestructible due to specially designed regulation technology that protects the amp from major tube failures.

The filament supply is DC (not AC) for minimum hum. It is fully regulated as well.

Active filament damping

To minimize the microphonics effect produced by the tubes, the SF220 has a circuit that actively damps the filament.



Remote control

The SF220 has a microprocessor controlled remote control that with RS232 connection can be controlled by any automation system. This connection is an optional feature.

All the functions of the SF220 are discreet, including the ON and OFF function. They can be controlled on the remote by a toggle switch.

The codes are proprietary and can be requested or downloaded from our website, www.margules.com.

Connections

The SF220 is a preamplifier with unbalanced inputs and outputs. All its inputs have the same impedance and gain,

and any line level signal (.6 to 5 Volts) can be connected into as required (4).

The SF220 has a direct input. This connection bypasses the volume control, so the SF220 can be controlled by an external processor or preamplifier. The SF220 along with a 5 channel system then integrates a High End two channel preamplifier with a surround system (3).

The two outputs of the SF220 are in parallel so any set can be used. For example, they can be used by the main amplifier and the subwoofer (1).

The direct output is not “pre-amplified”, it does not go through the SF220. The output is set by the input selection made in the preamplifier. Therefore its volume is not controlled, if a low impedance device is connected into it.

Be advised, the level and sound characteristics of the SF220 can change if a low input impedance device is connected to it

The AC outlet is a high current output (600 Watts) and is energized when the preamplifier is ON, This outlet is designed so the remote control can turn the unit ON and OFF. In addition, a line noises suppressor (like the Magenta QR 1 or QR2) or any device that wants to be switched ON and OFF with the remote control, can utilize this function. This is ideal for integrated systems (6).

Controls

The SF220 is designed to be easy to navigate; all the main functions can be activated by the remote control or the buttons and knob in the unit.

All the main discreet functionality is accessible from the remote control unit.

On the front panel the SF220 has a big volume knob and the IR sensor (8). On the rear panel there are two buttons; one is a toggle ON/OFF switch and the other is a sequential input selector (5).



Connecting the SF220 to an automation system

In the rear part there is a serial RS232 connection port with 2 way communication. This feature is for integrating the SF220 to an automation system.

If you want to control it by itself it, can be connected to a web server (not included) .

The RS232 Code are:

Selection: !1ENT01 !1ENT02 !1ENT03 !1ENT04

Direct input: !1ENT05

Mute: !1ENT06

Volume change

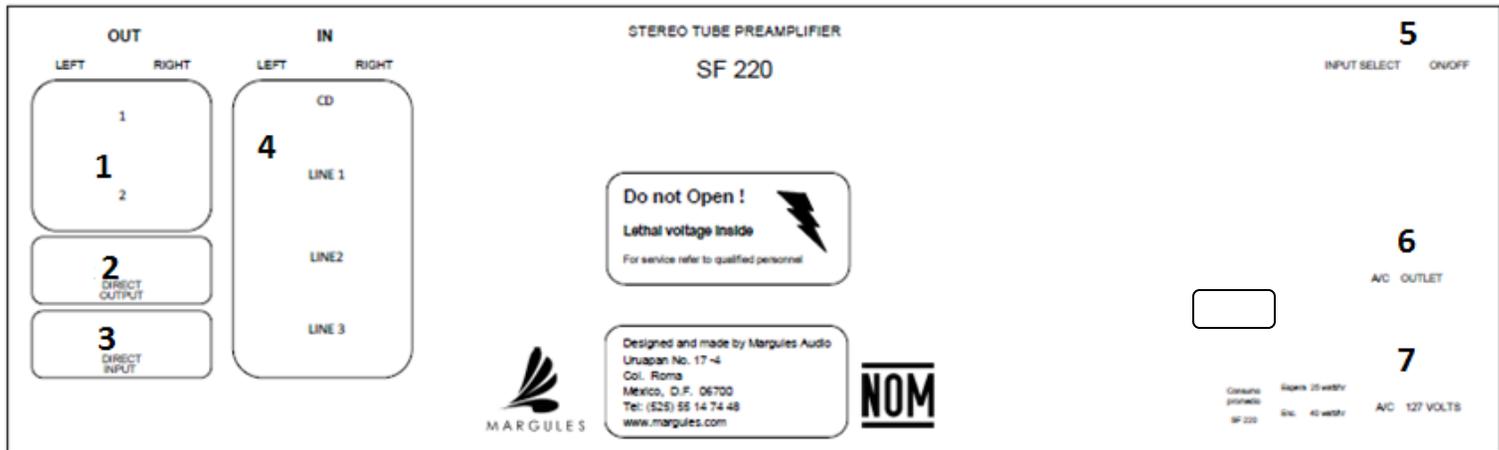
UP !1VOL99

Down ! 1VOL55

Power OFF ! 1PWR0

Power ON !1PWR1

Toggle ! 1POW2



Characteristics:

Frequency response: 5-400 khz
Total harmonic distortion: <0.014% max
Maximum output level: 30 v
Signal to noise ration: >80db
Gain: 6 dB
Raise time: 6 micro sec.
Fall time: 6 micro sec.
Power consumption (max): 55 w
Weight: 14kg
Dimensions (height, width, depth):
13.6 cm x 44cm x 3 cm



MARGULES GROUP MEXICO SA DE CV

Uruapan #17-4, Col. Roma

Mexico D.F. 06700

Mexico.

Tel. (525)514 7448

Toll free 1-888-538 8605

FAX (525)533 4654

Email: info@margules.com.mx

MARGULES USA

820 Elm Drive/div. PetalumaCA, 94952

Phone number:

707-5811830

Collect USA & Canada:

1-888-538 8605

Fax number: 707-5811830

Visit our home page in internet:
<http://www.margules.com>