

ALCA!

CXC 3600

HAELONAL PANASONIC

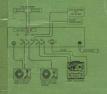
MODEL SA-420



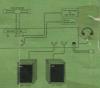
Japan's Largest Producer of Electronic and Electrical Home Appliances
MATSUSHITA ELECTRIC

SA-420 30-WATT AM FM STEREO TUNER AMPLIFIER





The rear panel of the SA-420 provides facilities for connection of speakers and accessories; Input Term hals for Phono (mag). Din. And Outrut Terminals for Recording cur, Din and Speak-



-SA-420 TECHNICAL SPECIFICATIONS -

AMPLIFIER SECTION IHF Music Power:

RMS Power (at 1KHz and

rated distortion):

Harmonic Distortion (at 1kHz and rated output) :

Intermodulation Distortion (60Hz+7kHz, 4: 1, SMPTE):

Power Bandwidth:

Frequency Response

Input Sensitivity (for rated output): Phono

Ceramic Auxiliary Tape Monitor

Input Impedance: Phono

Ceramic Auxiliary Tape Monitor

Hum and Noise: Phono

Auxiliary Bass Range : Treble Range

Damping Factor:

Recorder Output Level:

30W at 4n-20W at 80 = 2 X 50 11/11W at 4n

8/8W at 8n

10Hz~50 kHz -3 dB

15Hz~100kHz -3 dB

150 mV

150 mV

25 kΩ

60 dB 70 dB +10 dB at 50 Hz

+10 dB at 10 kHz 30 at 8n 150 mV

FM TUNER SECTION Frequency Range:

FM Usable Sensitivity (IHF):

FM Harmonic Distortion: (at 400 Hz, 100 % modulation) 1.5 %

Signal to Noise Ratio: 60 dB Selectivity, Alternate Channel: 40 dB

Spurious Response Rejection (at 100 MHz) 65 dB

IF Rejection (at 100 MHz): Image Rejection (at 100 MHz) : 47 dB FM Stereo Separation

(at 1 kHz) 35 dB 3 dB , Capture Ratio (IHF):

AM TUNER SECTION Frequency Range:

AM Sensitivity (IHF): Selectivity

(at 1 MHz and 10 kHz) : Image Rejection (at 1 MHz): IF Frequency Rejection

(at 1 MHz) Dimension (including control knobs and AM Ferrite antenna):

Weight (unpacked) Power Consumption:

AC Power Supply: Specifications are subject to change without notice 525~1605 kHz

88~108 MHz

100 aV/m, 20 aV 25 dB

45 dB 43 dB

1614" Wide 434" High 13" Deep

15 lb. 7 oz. Min 20 W Max 70 W 110/120/220/240 V

Distributed by



ADVANCED ENGINEERING FEATURES

EXCELLENT POWER BANDWIDTH AND DAMPING FACTOR THROUGH USE OF OCL CIRCUITRY

Amplifier Section

The SA-420 incorporates the most modern technical engineering advances of this electronic age, including recently, perfected ITL-OTL-OCL circuitry. The OCL circuitry is an especially advanced circuit which amplifies up to the direct process dage and makes exceptional power bandwidth and damping factor possible, resulting in excellent low.

The OCL circuitry ensures far-improved technical performance together with a direct coupling system with differential amplifier circuitry, an exclusive feature for an amplifier of this class, thus resulting in a system which must extra frequency linearity and completely stable performance. Free from deviation due to temperature changes and voltage fluctuations. Finally, the OCL circuitry prevents possible damage to power transistors.

which were mought in a swarzo employs power transactor.

And a highly resistant to overload, the OCL system

and seven more to their protection, thus reducing by

one-half the overload to transactors due to short circuit

of the speaker terminal caused by incorrect speaker con

nection, as compared to the ordinary SEPP circuit. Fur

thermore, the automatic electronic overload protection

circuit completely protects the translators and speaker

from even the slightest chance of damane.

The amplifier section employs PNP silicon transistors in the equalizer and control amplifier

Thus, both sound fidelity and performance stability of the amplifier section of the SA-4 cachiquely superior... making this one of the best buys in audio equipment for the discrimating listener.



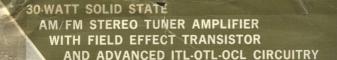


INTERFERENCE-FREE FM STEREO RECEPTION

FM Tuner Section

The FM tuner of the SA-420 has equally important features (or the stereo fan who wants the very best. A junction-type FET in the FM front and and 4-stage double-tuned if circuitry with large 10 mm square IFT's provide exceptional selectivity, a very important feature for the reception of weak or distant FM stations. Other features of the FM tuner sention include automatic stereo/mono switching circuitry for superior FM stereo separation and a convenient FM stereo indicator fam.





NATIONAL PANASONIC SA-420





MODEL SA-420 AM/FM STEREO TUNER AMPLIFIER. STYLED TO MATCH MODERN HOME DECOR.

> This new solid state stereo tuner amplifier developed for music lovers who demand smooth and natural stereo sound. A full 30 watts of IHF music power (at 4 ohms) assures sufficient power for concert hall realism in the home. The National Panasonic solid state engineering includes a full complement of 38 transistors and 31 diodes to assure excellent hi-fi stereo performance. The advanced ITL-OTL-OCL circuitry provides extra frequency linearity in the complete low to high range, reproducing clear, distortion-free sound. In addition, the direct coupling system with the differential amplifier circuitry ensures extra low frequency linearity and stability. The FM tuner permits greater sensitivity and selectivity through an FET and four double-tuned IF stages. Other superb features include an FM MPX circuit with an automatic stereo mono switching system and a stereo indicator lamp which illuminates when FM stereo broadcasts are being received. The attractive control panel features a loudness control separate bass and treble controls, as well as a field strength

> > home decor.

tuning meter to indicate maximum signal reception. And,
to even further enhance the enjoyment of this fine equipment,
its elegantly slim design is styled to perfectly match modern