

AT-120 and AT-120E

HF Automatic Antenna Tuners



Suitable for many vessels

The versatile AT-120 and AT-120E can be used on any vessel, even small boats that cannot use a long antenna element, the AT-120 will match a 7m (23 ft) long wire antenna across 2~24MHz.

Automatic Tuning

No manual tuning is needed, just push the tune button on an ICOM HF marine transceiver and the AT-120 automatically adjusts the antenna and the transceiver to the minimum SWR on any HF marine frequency.

Weather resistant

The AT-120 has a durable, weather-proof acrylic case with rubber gaskets.

Completely Compatible

ICOM's sophisticated AT-120 matches, and easily interconnects with ICOM HF marine transceivers. Installation is simple because no adjustments are necessary, you need never open the cover, just connect the control and antenna cables and you're ready to go.



Masters in Marine Electronic Communications and Navigational Equipment

Quick Tune Up

The tune-up time is less than 3 sec. in any HF marine frequency. The AT-120 has 8 convenient memories to store tuning information and remembers the setting of individual coils and capacitors after tune-up. It re-tunes to a memorized frequency in about 1.5 sec., allowing quick, trouble-free frequency changes.

Low Power Tune Up

The AT-120 emits very little output power (just 300mW) during tuning. This feature eliminates the possibility of causing interference to other stations.

Suitable For Many Vessels

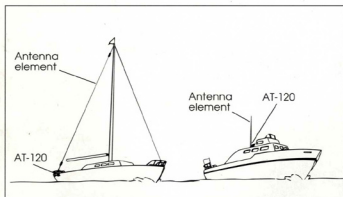
The versatile AT-120 and AT-120E can be used on any vessel, even small boats that cannot use a long antenna element, the AT-120 will match a 7m (23 ft) long wire antenna across 2~24MHz.

Automatic Tuning

No manual tuning is needed, just push the (TUNE) switch on an ICOM HF marine transceiver and the AT-120 adjusts the antenna and the transceiver to the minimum SWR on any HF marine frequency. The AT-120 allows you to transmit with strong RF output power and is perfect for maritime mobile operations.

Weather Resistant

The AT-120 has a durable, weather-proof acrylic case with rubber gaskets. The antenna tuner can be conveniently installed on deck or in the cabin near the antenna element.



Completely Compatible

ICOM's sophisticated AT-120 matches, and easily interconnects with ICOM HF marine transceivers. Installation is simple as no adjustments are necessary, you need never open the cover, just connect the control and antenna cables and you're ready.

Specifications

Dimensions, (projections not inc.)	
mm	: 230(W) x 340(H) x 80(D)
inches	: 9.1(W) x 13.4(H) x 3.1(D)
Weight:	: 2.7kg (6.0lb)
Usable temp. range:	: -30°C~+60°C
Rated voltage	: 13.6VDC±15%
Current drain (at 13.6VDC)	: 2A
Frequency coverage (when the antenna length is 23ft or longer)	: 2~24MHz
Input Impedance	: 50Ω (unbalanced)
Maximum input power	: 150W (PEP)
Input power during tuning	: 10W
Auto-tuning time	: 1.5 sec. (re-tuning for a memorized frequency)
(When operating band has been changed)	: Typically 2~3 sec.
Auto tuning accuracy	: VSWR 2.0:1
Insertion loss	: 0.5dB (with a 50Ω load, after tuning)

Installation Recommendations

Install the AT-120 on the deck or in the cabin near the antenna element base **as shown in the figures below**. For more details of accessories ask for separate leaflet
E&OE.