

## Vine Antenna DU-800T 800 Watts Manual ATU LAMCO Barnsley



Price: £399.95

**SKU:** LAMCO DU-800T

**In stock:** 2

**Product Categories:** [VINE ANTENNAS](#), [ANTENNA TUNERS](#), [MANUAL ANTENNA TUNERS](#)

**Product Tags:** [LAMCO DU-800T](#), [LAMCO DU-800T 800Watts ATU](#), [Vine Antenna DU-800T 800 Watts ATU](#)

**Product Page:**

<https://www.hamradio-shop.co.uk/product/vine-antenna-du-800t-800-watts-atu/>

### Product Summary

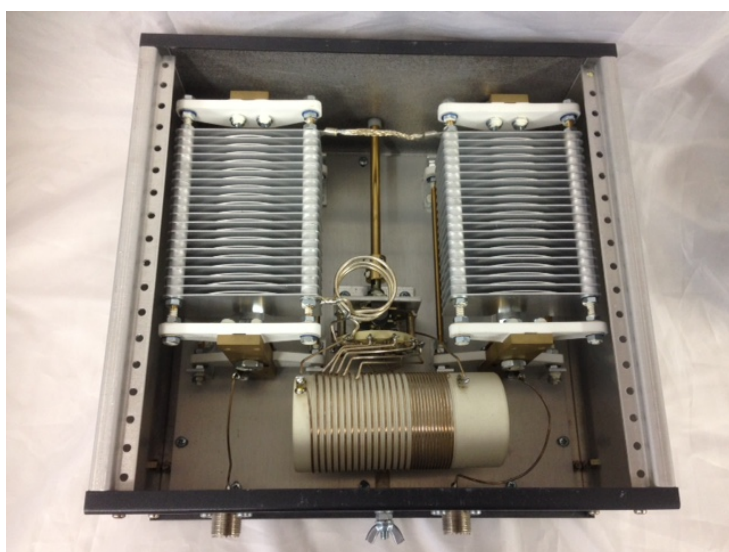
£399.95

### Product Description

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DU 800 HF+6m ANTENNA TUNER

### FEATURES

The DU 800 T optimizes the performance of your antenna and transmitter or SWL receiver by providing adjustable impedance matching. The DU 800 T also measures the Power and Standing Wave Ratio (SWR), which allows you to tune the indicated SWR to the lowest possible ratio for the selected transmit frequency.

## FRONT PANEL CONTROLS

Input Tuning ..... Continuous  
rotation 2.5kV capacitor 330pF  
Output Tuning ..... Continuous rot  
ation 2.5kV capacitor 330pF  
Band switch

## REAR PANEL CONNECTORS

Coax 1 ..... SO-239 T  
eflon connector  
Coax 2 ..... SO-239 T  
eflon connector

## OTHERS

Frequency Coverage ..... 1.8-30M  
Hz + 50Mhz continuously tunable  
Power Maximum..... 800 W  
Input impedance ..... 50  
 $\Omega$   
Output impedance ..... 25-60  
 $\Omega$   
Dimension .....  
H250 x W240 x D120  
Weight .....  
. 10lbs (3.3kg)

## INSTALLATION

Select a location for the DU 800 T that allows the  
connectors to be free of any  
possible contact during operation.

## WARNING:

SOME BALANCED OR END-FED ANTENNAS WILL PRODUCE HIGH RF VOLTAGES AT THE BANANA CONNECTORS. RF BURNS MAY RESULT IF TOUCHED DURING TRANSMISSION.

## INSTALLATION PROCEDURES

- Connect a coax cable from your transmitter or receiver to the RF INPUT connector on the rear panel. Keep the cable as short as possible. If you use a linear amplifier connect your transmitter to the linear amplifier output to the DU 800 T.
- Connect coax cable(s) from your antenna to RF OUTPUT connectors on the rear panel. These connectors are either direct from the transmitter or through the tuned circuit.

## BEFORE OPERATION

- To avoid possible damage to the DU 800T, set INPUT, OUTPUT, BAND SWITCH a switches as outlined in the next section before applying transmitter power. (Tuning Section) - Begin tuning with your transmitter set at a low power setting (50 to 100W)

## WARNING:

DO NOT OPERATE THE DU 800 T WITH THE COVER OFF!

## TUNING

- Select the band and frequency of desired operation. - Set BAND SWITCH controls to the suggested settings before applying the transmitter power. Actual settings may vary from antenna to antenna. - Set up your transmitter to a low power output. If your transmitter has a TUNE position, select that position.
- If you use a linear amplifier, set it to STAND BY. Do not use the linear Amplifier until the DU 800 T is tuned.

## WARNING:

DO NOT EXCEED 800 WATTS AVERAGE (SINGLE TONE).

- Rotate the INPUT and OUTPUT controls for maximum noise or signal as heard on your receiver. - Key your transmitter and adjust the power level for a reading of 50-100 watts on the FORWARD scale. Adjust the INPUT and OUTPUT controls for a minimum REFLECTED reading while maintaining a FORWARD reading of 50-100 watts using your transmitter power control. - Read the SWR on the red scale at the point where the two needles intersect. Repeat step 6 until the lowest SWR reading is obtained. The SWR should be 2:1 or lower.

NOTE: This procedure takes patience the first time. The INPUT and OUTPUT controls vary the capacitors and provide fine adjustments.

## NOTES

- An SWR or 1:1 is best, but an SWR as high as 2:1 may be acceptable. Check your transmitter manual for details. - If you cannot get an acceptable SWR, lengthen or shorten your antenna and/or feedlines and retune. - If you get low SWR readings at more than one setting, use the setting that:

Gives the highest FORWARD power reading.

Gives the lowest REFLECTED power reading.

Uses the largest capacitance (highest number) on the TRANSMITTER and ANTENNA controls.

- Anytime a new or different antenna is connected, it is necessary to repeat the tuning procedure for each antenna.

<https://www.hamradio-shop.co.uk/product/vine-antenna-rs-hf-ocf-40/>

<https://www.hamradio-shop.co.uk/product/vine-antenna-rs-hf-osf-80/>

## Product Gallery





