

Vine Antenna DU-3000T 3Kw Antenna Tuner LAMCO Barnsley



Price: £749.95

SKU: LAMCO DU-3000T ATU

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Product Summary

£749.95

Product Description

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LAMCO Barnsley

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FEATURES

The DU 3000 optimizes the performance of your antenna and transmitter or SWL receiver. By providing adjustable impedance matching. The DU 3000 also measures the Power and Standing Wave Ratio (SWR), which allows you to tune the indicted SWR to the lowest possible ratio for the selected transmit frequency.

SPECIFICATION

FRONT PANEL INDICATORS AND CONTROLS

Meter Cross needle Power and SWR meter

CONTROLS

Input Tuning Continuous rotation 4,5kV capacitor 330pF

Output Tuning Continuous rotation 4,5kV capacitor 330pF

Antenna Switch Selector..... Five position ceramic switch: COAX 1, Tuned and COAX 2 Tuned and BYPASS, COAX 1 DIRECT, COAX 2 DIRECT

Power Range Switch Two position: 3
00W/3kW

REAR PANEL CONNECTORS

Coax 1 SO-239 Teflon connector

Coax 2 SO-239 Tflon connector

Balanced Line Dual high voltage ceramic terminal

Include 4:1 balun

OTHER

Frequency Coverage 1.8-30MHz ,continusoly tunable

Power Maximum 3000W max 3kW
Input impedance 50ohm
Output impedance 25-600ohm and
wire 2000ohm
Dimension H 330xW
330xD 120
Weight 5.5kg

CONTROL/CONNECTORS

FRONT PANEL FUNCTIONS (Refer to page 3)

- Output (Antenna)

Continuously adjustable input capacitor

- POWER/SWR METER

Dual needle meter displays FORWARD and REFLECTED Power in Watts. The SWR is measured where the two needles intersect on the red scale.

- INPUT (Transmitter)

Continuously adjustable output capacitor.

- DIRECT-TUNED OUTPUT SELECTOR

Five-position rotary switch and output coaxial connector.

- TUNED COAX 1 selects the COAX 1 connector through the impedance matching circuit. - TUNED COAX 2 selects the COAX 2 connector through the impedance matching circuit. - DIRECT BYPASS selects BYPASS COAX connector by passing the

impedance matching circuit but providing SWR, FORWARD and REFLECTED power meter readings.

- DIRECT COAX 1 selects the COAX 1 connector bypassing the impedance matching circuit but providing SWR, FORWARD and REFLECTED meter readings.

LECTED meter readings.

- DIRECT COAX 2 selects the COAX 2 connector bypassing the impedance matching circuit but providing SWR, FORWARD and REFLECTED meter readings. - TUNED WIRE/BAL selects the BAL. LINE+COAX 2 connector through the impedance matching circuit. - POWER RANGE SWITCH

Two-position switch selects the range (300W or 3kW) of FORWARD and REFLECTED Power displayed on the power meter.

When the METER (power range) switch 300W the FORWARD meter scale reads 300W full scale and the REFLECTED meter scale reads

40W full scale. When the METER switch 3kW, the FORWARD meter scale reads 3kW full scale and the REFLECTED meter scale reads 400W full scale.

- INDUCTOR Ceramic body

REAR PANEL CONNECTORS

- RF INPUT

Coaxial connector for input from SWL receiver or transmitter.

- COAX 1

Coaxial connector for output to Antenna One or Wire Antenna

- COAX 2 Coaxial connector for output to Antenna Two. - BYPASS Coaxial connector for output to dummy load or third

coax output.

- GROUND

Post/Wing-nut type ground connector.

- BALANCED OUTPUT

Two feedthrough ceramic posts for output to RF balanced twin-lead antennas.

- INSTALL JUMPER - when using Balanced Output

INSTALLATION

Select a location for the DU 3000 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 FEEDTHROUGH 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 3000.
- Connect coax cable(s) from your antenna to COAX 1 or COAX 2 connectors on the rear panel. These connectors are either direct from the transmitter or through the tuned circuit depending on the setting of the OUTPUT SELECTOR switch on the front panel.
- If you are using a balanced feed antenna, connect the INSTALL JUMPER in the COAX 1 connector and switch band switch TUNED COAX 1.
- If using a single wire antenna, connect it to post COAX 1 without installing jumper.
- Connect a dummy load to the BYPASS CONNECTOR using a coax cable.

This lets you select the dummy load from the OUTPUT SELECTOR switch. Any antenna that does not require the use of an antenna tuner may be connected to the BYPASS connector, if desired.

BEFORE OPERATION

- To avoid possible damage to the DU 3000, set INPUT, OUTPUT, BAND SWITCH and POWER RANGE switches as outlined in the next section before applying transmitter power. (Tuning Section) - Begin tuning with your transmitter set to a low power setting (~50 w is more than enough)

WARNING: DO NOT OPERATE THE DU 3000 WITH THE COVER OFF!

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.

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

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