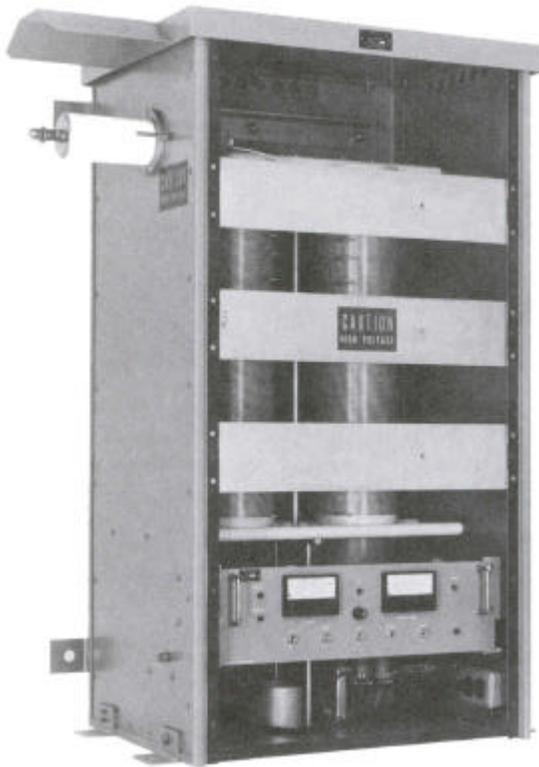




Simply the best engineered transmitters

NX 2000 TUB-500W  
NX 4000 TUB-1kW  
NX 8000 TUB-2kW  
NX16000 TUB-4kW



### **Medium and high-power automatic antenna tuning units**

Nautel's Automatic Antenna Tuning Units eliminate the detuning problem in high 'Q' L.F. antennas that is frequently encountered under varying climatic conditions. A closed loop servo tuning system, within this unit, ensures that the antenna is maintained at series resonance and, therefore, provides a constant 50 ohm resistive load. This allows the transmitter to be installed at any distance from the antenna site.

An adjustable spark gap and a direct ground return in the antenna circuit within the unit provide a high degree of protection against lightning transients.

These antenna tuning units are housed in heavy-duty weatherproof cabinets with a protective finish suitable for any outdoor land environment. Brackets for base or pole mounting are provided on the cabinets. Meters and controls are conveniently mounted on the front panel of a readily removable chassis immediately behind the lockable, weatherproof door.

- \* Automatic Fine Tuning
- \* 50 Ohm Input Impedance
- \* Outdoor Weatherproof Housing
- \* Adjustable Spark Gap

NX 2000 TUB-500W  
NX 4000 TUB-1kW  
NX 8000 TUB-2kW  
NX 16000 TUB-4kW

## SPECIFICATIONS

### Frequency range

190-535 kHz

### Automatic tuning range

±5% antenna capacity variation

### Input impedance

50 ohms (VSWR < 1.25:1 at carrier frequency)

### Power requirements

AC single phase, nominal  
115/230 V ±15% 50/60 Hz, 60 VA max

### Metering

Fwd/Refl power and antenna current

### Environmental limits

-50°C to +50°C; 0 to 100% relative humidity

### Climate

Any – including tropical

### Maximum series loss resistance of loading coil

Not greater than 1/200 x antenna reactance

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### NX 2000 TUB

#### Maximum carrier power

500 Watts

#### Maximum P.E.P.

2 kW

#### Matching range antenna system resistance

2 - 20 ohms

#### Antenna capacitance\*

250 - 1250 pF

#### Size

Height 119 cm (46.7")

Width 69 cm (27")

Depth 49 cm (19")

#### Weight

67 kg (146 lb)

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### NX 4000 TUB

#### Maximum carrier power

1 kW

#### Maximum P.E.P.

4 kW

#### Matching range antenna system resistance

2 - 20 ohms

#### Antenna capacitance\*

600 - 3500 pF

#### Size

Height 119 cm (46.7")

Width 69 cm (27")

Depth 49 cm (19")

#### Weight

73 kg (160 lb)

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### NX 8000 TUB

#### Maximum carrier power

2 kW

#### Maximum P.E.P.

8 kW

#### Matching range antenna system resistance

3 - 20 ohms

#### Antenna capacitance\*

1000 - 3500 pF

#### Size

Height 125 cm (49")

Width 105 cm (41")

Depth 72 cm (28")

#### Weight

123 kg (270 lb)

### NX 16000 TUB

#### Maximum carrier power

4 kW

#### Maximum P.E.P.

16 kW

#### Matching range antenna system resistance

3 - 20 ohms

#### Antenna capacitance\*

1500 - 5000 pF

#### Size

Height 125 cm (49")

Width 105 cm (41")

Depth 72 cm (28")

#### Weight

128 kg (280 lb)

\*Lower limits; i.e., minimum antenna capacity shown is for 200 KHz operation and defines peak voltage limit, lower antenna capacities can be accommodated at higher frequencies – consult factory for additional details.

*Specifications subject to change without notice*