Housed in a fully weatherproof enclosure, the Barrett 1kW Automatic Tuning Unit (ATU) (BC407508) will tune long wire antennas effectively up to a length of 10 metres and wire loop antennas or whip antennas over a frequency range of 2 to 30 MHz and is suitable for both marine and land applications.

Tuning is rapid, typically 10 seconds the first time RF is applied, either whilst the operator is talking or when the “Tune” control is activated on the transceiver.

The 1kW ATU features a memory facility that stores the configuration required to tune to a frequency. On any subsequent use of that frequency, the 1kW ATU reconfigures to the stored settings in, typically, less than 150 milliseconds.

Following initial tuning, the antenna’s VSWR is monitored. If any significant variation occurs, the 1kW ATU will re-tune the antenna automatically.

This unit is typically paired with the Barrett 4075 High Power HF Transmitter system.

The following recommended Control and Coaxial cables are sold separately, depending on required length:

- BCA407535 - 4075 1kW ATU Coaxial Cable LMR400 100m
- BCA407552 - 4075 1kW ATU Coaxial Cable LMR400 50m
- BCA407543 - 4075 1kW ATU Coaxial Cable RG213 30m
- BCA407542 - 4075 1kW ATU Control Cable 100m
- BCA407541 - 4075 1kW ATU Control Cable 50m
- BCA407540 - 4075 1kW ATU Control Cable 30m

For whip operation, the whip needs to have a radiating diameter of at least 40mm.