# 10kW Band IV/V Television Transmitter Amplifiers Type B7315 with Drive Type B7311

## *Features*

Similar vapour-cooled klystrons used in vision and sound amplifiers, thus simplifying spares and maintenance procedure.

Vision and sound drives are integrated to ensure stability of the vision-to-sound carrier separation.

Unique varactor modulator, ensuring optimum linearity for colour working.

Silicon diode rectifiers used in all power supplies.

Specifically designed for parallel operation.

A combining unit and test load assembly are required externally, together with a small blower for exhausting cabinet heat. A closed circuit vapour-to-water system is available using an air-blast cooled heat exchanger.

Now incorporates solid state control circuits.

Each klystron is mounted inside its own circuit assembly on a wheeled carriage.

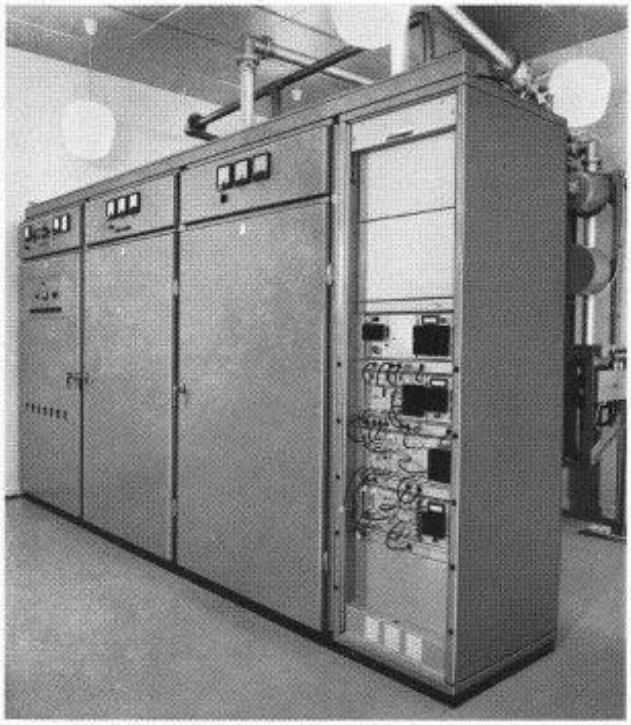
## Multiplex

A 'Multiplex' version (Type B7314) of this amplifier using one klystron is available. This is an alternative to the parallel system and two such amplifiers are required in a complete transmitter. If a fault occurs in one klystron, the other can carry both vision and sound at reduced power level.

## *Data summary*

**Output power:**
Vision, 10kW peak sync.
Sound, 2kW.

**Power supply:** 380–440V, 50 or 60Hz, 3-phase, 4-wire.



*10kW U.H.F Television Transmitter at Varberg, Sweden*

**Power consumption** (including drive transmitter, heat-exchanger and water pumping unit) : Approx. 52kW at 0·9 power factor.

**Dimensions:**

*Cabinets (including drive transmitter)*

| | | |
|---|---|---|
| Height | 2·13m | (7ft 0in.) |
| Width | 3·43m | (13ft 2in.) |
| Depth | 1·14m | (3ft 9in.) |

*Heat exchanger (typical)*

| | | |
|---|---|---|
| Height | 2·13m | (7ft 0in.) |
| Width | 1·52m | (5ft 0in.) |
| Depth | 0·92m | (3ft 0in.) |

**Ambient temperature:** 2–40°C.