

**For experimental work on a.c. and d.c. circuits, and general laboratory use**



## Description

A robust steel enclosure containing a controllable capacitive load bank. This allows students to investigate balanced or unbalanced capacitive loads, or use them to test external electrical and power engineering equipment. This product needs no separate external supply.

The capacitive load bank can operate in single-phase or three-phase star or delta. It consists of 12 individual switched load capacitances arranged in three banks of four.

Students connect the loads to experiment circuits using safety sockets on the enclosure front panel. This load bank can also be used in combination with other load banks in the TQ NE7023 to NE7028 range, to provide variable power and power factor loads.

The enclosure is ventilated and has carrying handles for portability.

This equipment carries a two-year warranty and is manufactured in accordance with the latest European Community directives.

## Specification

- Dimensions: nett 400 mm x 450 mm x 450 mm
- Weight: nett 22 kg
- Rating: 3 kVAr (when delta connected), 230 V (line to line), 50/60 Hz
- Load configuration: 12 individual switched capacitive loads arranged in three banks of four
- Protection: three overcurrent MCBs

### Special note:

This load bank is rated for 230 V, 50 Hz three-phase operation. The 3 kVAr power rating is for delta connected loads. TQ can supply other ratings to special order – please contact TQ or your local TQ representative.

## Operating Conditions

### Operating environment:

Laboratory environment

### Storage temperature range:

-25°C to +55°C (when packed for transport)

### Operating temperature range:

+5°C to +40°C

### Operating relative humidity range:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

## Recommended Ancillaries

One or more suitable products from the TQ Electrical Machines Technology or Electrical Power Systems ranges

## Tender Specification

- A 3 kVAr, 230 V portable capacitive load bank to allow students to include controllable, balanced or unbalanced capacitive loads in electrical and power engineering experiments
- To consist of 12 individual switched load capacitances arranged in three banks of four, housed in a robust steel enclosure
- To allow single-phase and three-phase operation
- To allow star or delta connection of three-phase loads
- Load connection to be via safety sockets on the front panel of the steel enclosure
- Enclosure to be ventilated and have carrying handles for portability
- To include three MCBs for overcurrent protection
- To carry a two-year warranty and be supplied by a company accredited to BS, EN, ISO 9001

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