

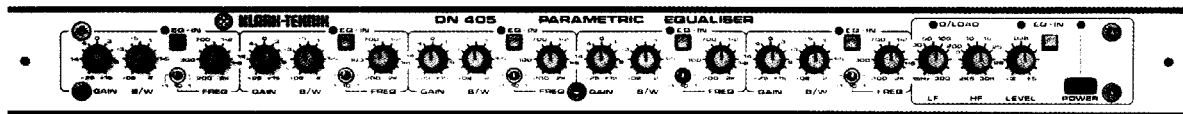
DN405

PARAMETRIC EQUALISER

The Klark-Teknik model DN405 is a single channel parametric equaliser, featuring five bands of fully parametric filters in 1U of rack space. The DN405 is primarily designed for use in sound reinforcement applications but its operational flexibility makes it equally suitable for recording, broadcast and post production work.

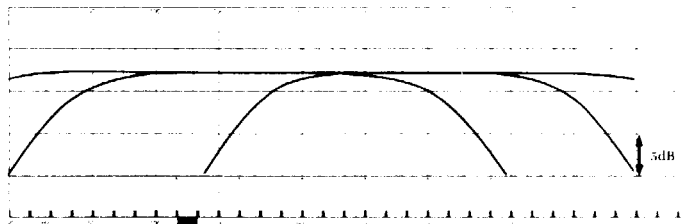
The equaliser features a three position range switch for each filter section – allowing 100% overlap anywhere between 20Hz and 20kHz whilst maintaining accurate resolution with a 10:1 sweep

Single Channel Five Band Parametric Equaliser

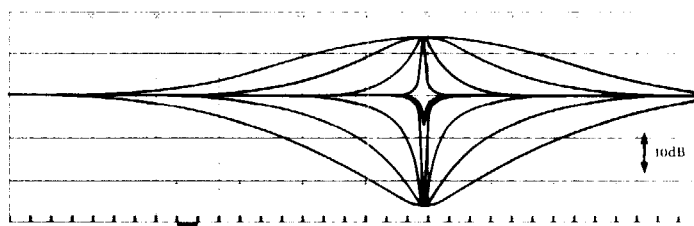


range. The 'notch' mode of the filters can be used for suppression of feedback frequencies without excessively affecting the adjacent frequencies. Each channel also incorporates two frequency sweepable shelving filters and input level control. Only top quality components are used in the manufacture of this product and every unit is bench tested and aligned before burn-in and a final performance test.

The unit has XLR terminated electronically balanced input and unbalanced output with optional transformer balancing and security covers available to order.



Response of variable high and low pass filters set at minimum, maximum and intermediate turnover frequencies.



Typical range of adjustment for a single parametric filter centred at 2kHz.

Features

- Five bands of full parametric equalisation with separate variable high and low pass filters.
- 100% frequency overlap between all filters.
- Wide range of filter bandwidths are available to suit many varied applications.
- Individual Eq. In/Out switch with LED "Filter On" status indication for each parametric filter section and overall Eq. In/Out switch.
- Outstanding noise and distortion performance.
- Automatic fail safe by-pass facility.
- Comprehensive standard specifications include electronically balanced input and LED overload indicator.
- Earth lift switch enables signal and chassis grounds to be isolated, eliminating ground-loop problems.
- The DN405 is sturdily constructed throughout and complies with standard 19" 1U rack mounting requirements.

KLARK TEKNIK

The first name with sound system designers

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DN405

PARAMETRIC EQUALISER

ARCHITECT'S AND ENGINEER'S SPECIFICATION

The equaliser shall provide five bands of fully parametric filters and separate tunable high & low cut filters. Each equaliser filter shall provide 25dB of attenuation & 15dB of accentuation at continuously variable frequencies ranging from 20Hz-20kHz and shall allow for bandwidth adjustment from $1/12$ to 2 octaves.

The equaliser shall meet or exceed the following performance specifications:

Distortion	<0.01% @ +4dBm (1kHz)
Frequency response	± 0.5 dB (20Hz-20kHz)
Noise	<-94dBm (20Hz-20kHz unweighted)
Maximum output level into 600 ohm	+22dBm

The equaliser shall have adjustable low & high cut 12dB/octave slope filters ranging from 15Hz-300Hz & 2.5kHz-30kHz.

Separate in/out switches shall be provided for each parametric filter section, and the complete equaliser channel.

The equaliser shall be failsafe, that is the unit shall return automatically to the bypass condition in the event of power supply interruption.

A rear panel switch shall be provided to isolate the signal ground connections, quickly and safely, from the chassis ground.

All audio connections shall be via XLR style connectors and a tamperproof front panel cover shall be available to fit the unit.

The unit shall be capable of operating from a 110/220V $\pm 12\%$ 50/60Hz AC power source.

The equaliser shall be the Klark-Teknik Model DN405 and no alternative specification option is available.

RELIABILITY CONTROL

Even with the advanced electronic engineering incorporated in this product, each unit is given the full backing of Klark-Teknik's "Reliability Control", which proves each product against a specification consistent with highest professional standards. Precision components are used throughout and every unit is bench tested and aligned before a burn-in period and final performance test.

OPTIONAL SPECIFICATION

The equaliser shall provide five bands of fully parametric filters and separate tunable high & low cut filters. Each equaliser filter shall provide 25dB of attenuation & 15dB of accentuation at continuously variable frequencies ranging from 20Hz-20kHz and shall allow for bandwidth adjustment from $1/12$ to 2 octaves.

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