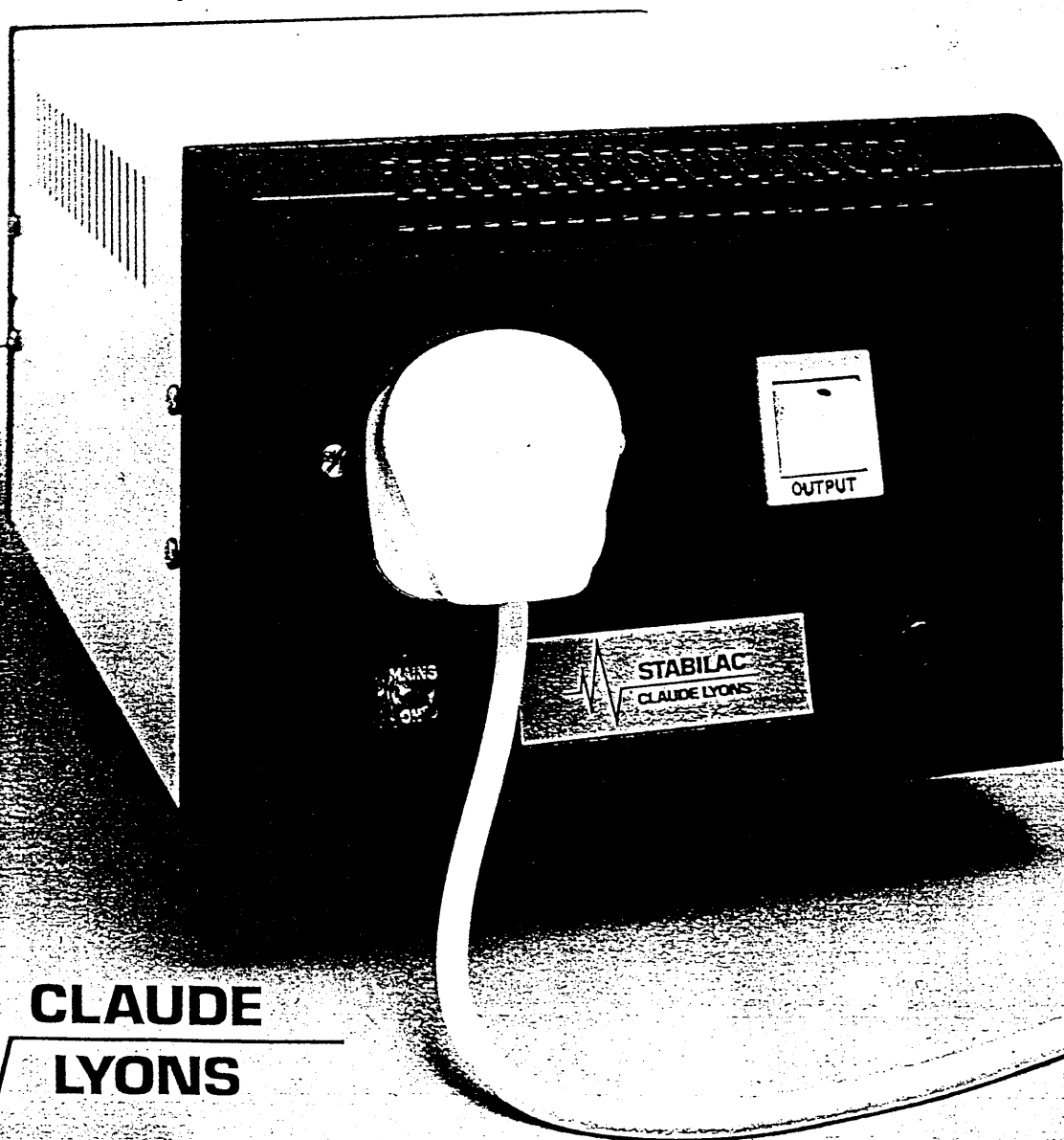



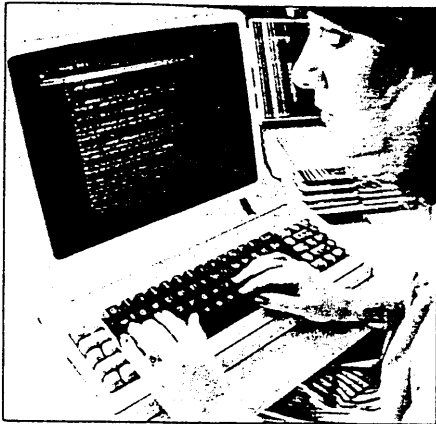
STABILAC[®] LINE VOLTAGE CONDITIONERS



 **CLAUDE
LYONS**

If sensitive electronic systems such as Micro or Mini Computers and Word Processors are to operate correctly they must have a clean, stable mains supply.

Without it, they will undoubtedly suffer from program error, prolonged down time, memory loss and, at the very worst, total system damage.



Unfortunately, the normal AC supply is anything but clean and stable. The most common problems being voltage transients, electrical noise and voltage fluctuations. That's where we can help you.

A Claude Lyons STABILAC® Line Voltage Conditioner installed between the equipment and its supply source will correct all these supply line disturbances without the need for an expensive dedicated line.

Our new Line Voltage Conditioners have three basic components which provide a stable, regulated, distortion-free AC supply. A patented electronic circuit ensures a stable voltage, an ultra isolation transformer isolates input and output preventing spikes and transients from damaging sensitive equipment, a high quality filter removes electrical noise.

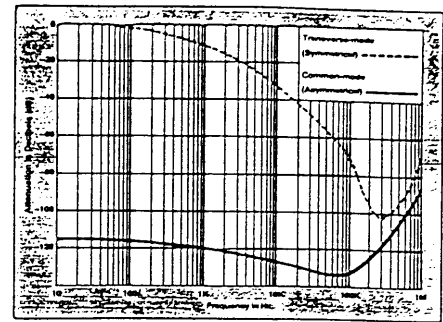
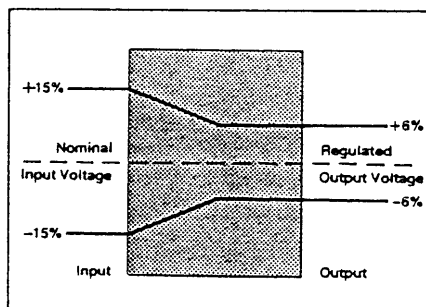
The smaller series LVC-65 to LVC-800 Line Voltage Conditioners are attractively designed, compact and portable. They will sit unobtrusively in your office, either on the floor or on a desk adjacent to the equipment being protected. All these models are supplied with a three core input cable, 13amp socket outlet, mains on neon indicator and fuse protection as standard.

The larger LVC's are normally supplied as free-standing floor units with connections via input/output conduit entries. 13amp socket outlets may be fitted to special order.

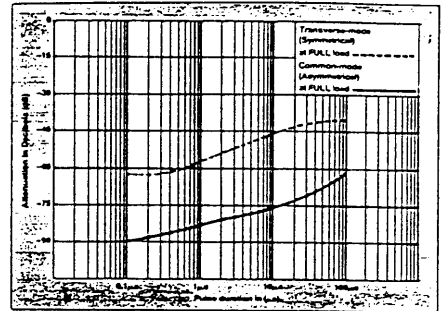
Claude Lyons LVC Line Voltage Conditioners are available in an attractive two-tone finish to blend with the rest of your office equipment and decor.

Features

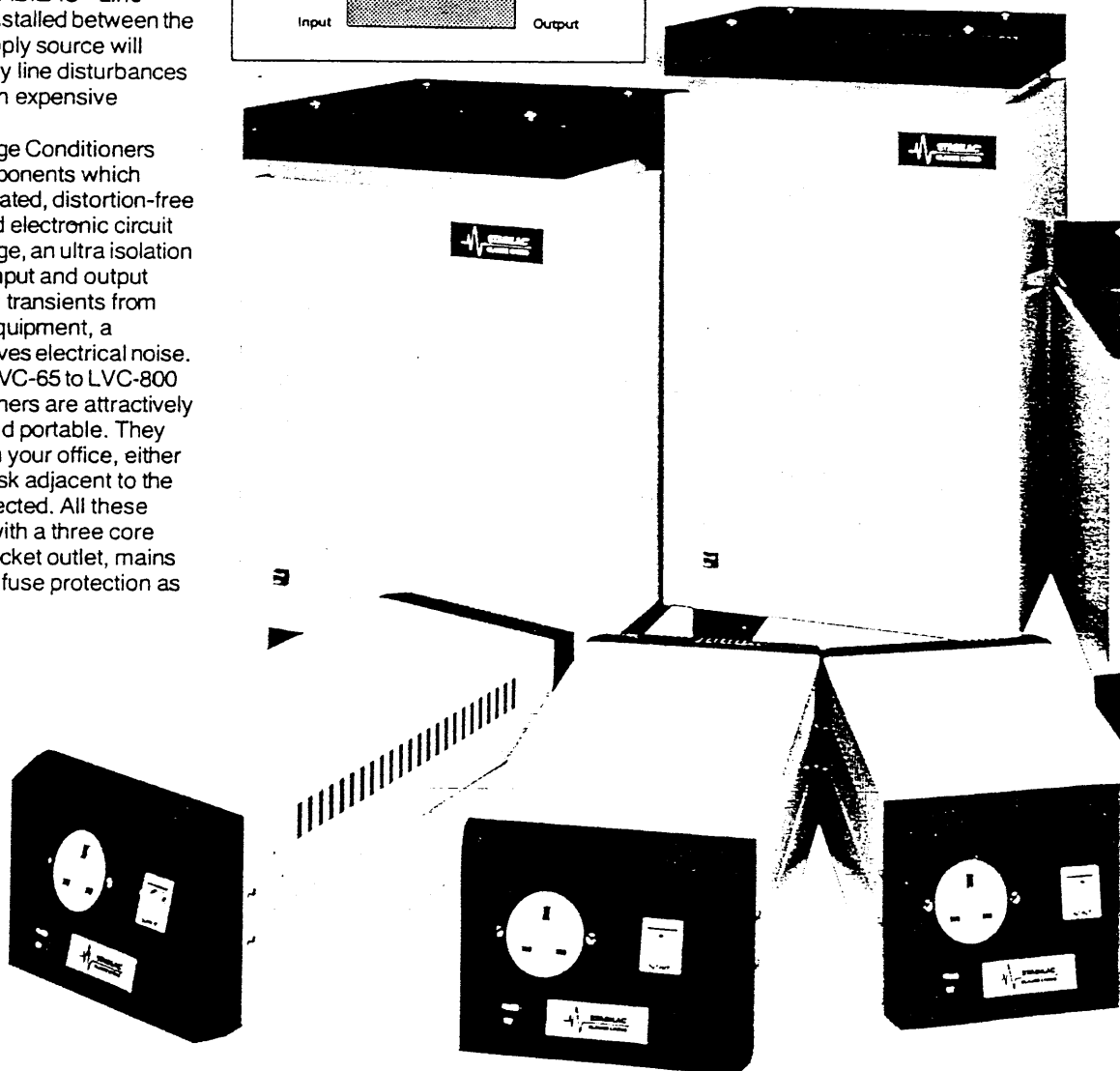
- Fast response (Typically 1½ cycles)
- Transient and noise suppression
- Unaffected by frequency variations
- Isolated input/output
- Low output impedance
- High efficiency
- Easily installed
- Two year warranty



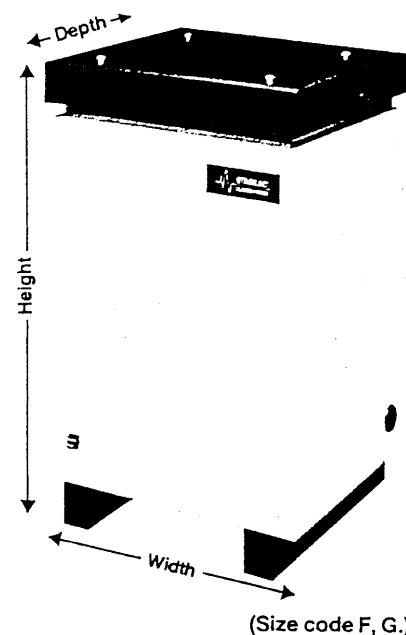
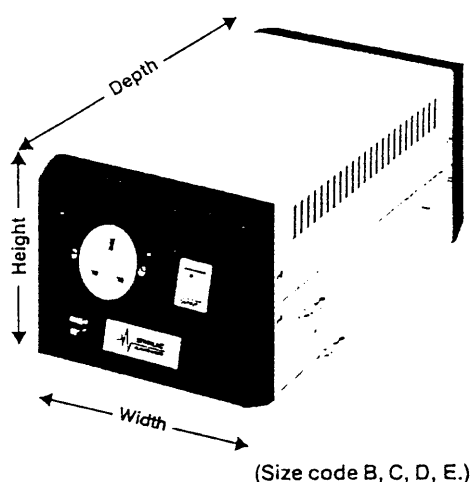
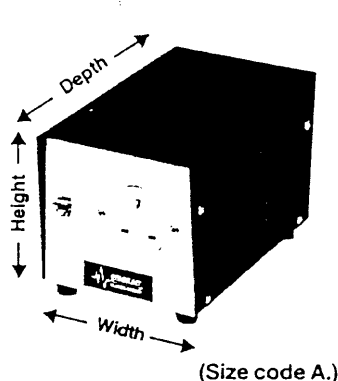
Typical Noise attenuation curves for STABILAC® LVC Line Voltage Conditioners



Typical Transient attenuation curves for STABILAC® LVC Line Voltage Conditioners



Series LVC Line Voltage Conditioners



Specification

Output Voltage: 220 or 240V (state voltage required at time of ordering). Other voltages, i.e. 120V, to order.

Output Voltage Accuracy: $\pm 6\%$ at maximum load current.

Input Voltage correction range: $\pm 15\%$ of set output voltage.

Supply Frequency: 48-63 Hz.

Load: Resistive or inductive at any power factor between 0.7 and unity power factor.

Waveform distortion: Negligible.

Correction time: Typically $1\frac{1}{2}$ cycles.

Regulation: 3% no load to full load resistive.

Symmetrical-mode noise attenuation: (Transverse-mode) 105 dB at 300 kHz.

Asymmetrical-mode noise attenuation: (Common-mode) 130 dB at 100 kHz.

Symmetrical-mode transient attenuation: (Transverse-mode) 62 dB at 0.1 μ s.

Asymmetrical-mode transient attenuation: (Common-mode) 90 dB at 0.1 μ s.

Interference: VDE 0875/6.77 (Limit N). Other regulations in accordance with IEC/CISPR guidelines.

Environment: -15°C to $+40^{\circ}\text{C}$ for indoor use.

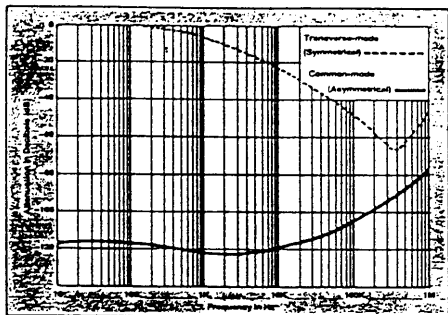
Model No.	Current Amps	VA rating at			Input voltage range for output voltage of			Size code	Wt. Kgs.
		120V	220V	240V	120V	220V	240V		
LVC-65	0.65		143	156	102V to 138V	187V to 253V	204V to 276V	A	6
LVC-65L	1.30	156						A	6
LVC-125	1.25		275	300				B	11
LVC-125L	2.50	300						B	11
LVC-250	2.50		550	600				C	17
LVC-250L	5.00	600						C	17
LVC-500	5.00		1100	1200				D	21
LVC-500L	10.00	1200						D	21
LVC-800	8.00		1760	1920				E	28
LVC-1300	13.00		2860	3120				F	53
LVC-1300L	21.00	2520						F	53
LVC-1700	17.00		3740	4080				F	63
LVC-2100	21.00		4620	5040				G	70

Models for other voltages available to order.

Size Code	Height mm/in	Width mm/in	Depth mm/in
A	122/4.80	128/5.04	230/9.06
B	160/6.30	195/7.68	315/12.40
C	160/6.30	195/7.68	365/14.37
D	160/6.30	195/7.68	405/15.94
E	160/6.30	195/7.68	455/17.91
F	485/19.10	360/14.17	310/12.20
G	560/22.04	360/14.17	310/12.20

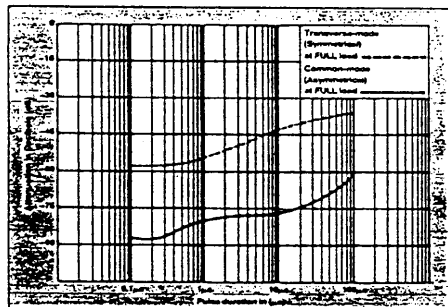
Measurements in respect of both types LVC and TRX were made using the following instrumentation: Schaffner NSG 200 mainframe and plug-ins and Schwarzbeck FSME - 1515 receiver.

Series TRX Ultra Isolation Transformers



Typical Noise attenuation curves for STABILAC® TRX Ultra Isolation Transformers

Models up to TRX 5000 can be fitted with RFI filter which will improve noise attenuation to that of Series LVC.



Typical Transient attenuation curves for STABILAC® TRX Ultra Isolation Transformers

The series TRX Ultra Isolation Transformer has been designed to protect computers and other sensitive equipment from voltage transients, spikes and other supply line disturbances.

The graph opposite shows a typical common-mode (asymmetrical) noise attenuation and transverse-mode (symmetrical) noise attenuation of a series TRX Ultra Isolation Transformer when correctly installed between the user equipment and its AC supply.

However, in cases where the supply is also subject to voltage variation, a STABILAC® LVC Line Voltage Conditioner should be used.

Specification

Symmetrical-mode noise attenuation: (Transverse-mode) 65 dB at 400 kHz.

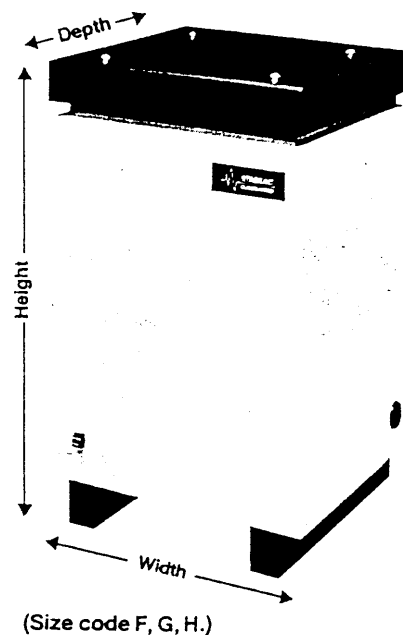
Asymmetrical-mode noise attenuation: (Common-mode) 120 dB at 10 kHz.

Coupling capacitance: Typically 0.002 pF.

Operating Frequency: 48-63 Hz.

Operating Voltage: Up to 110% of nominal.

Regulation: 3% no load to full load resistive.



(Size code F, G, H.)

Model No.	Power rating kVA	Input Volts	Output Volts	Supply Freq.	Size Code	Wt. Kgs.
TRX-1000	1	240	240	48/63 Hz.	F	28
TRX-1800	1.8				F	39
TRX-2500	2.5				F	46
TRX-5000	5				G	67
TRX-7500	7.5				G	87
TRX-10,000	10				H	109

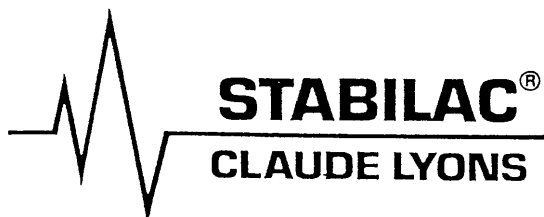
For 120V Models add suffix L viz. TRX-1000L. Models for other voltages available to order.

Power ratings are given for nominal 120/240V.

Ratings for other pre-set voltages (i.e. 220V) are proportionate.

Size Code	Height mm/in	Width mm/in	Depth mm/in
F	485/19.09	360/14.17	310/12.20
G	560/22.04	360/14.17	310/12.20
H	635/25.00	360/14.17	310/12.20

Specifications are subject to change without notification.



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