



McKENZIE

Professional Loudspeakers

Studio 7
Series
15"



FEATURES

- COMPUTER AIDED DESIGN & TEST
- 250°C KAPTON COPPER VOICE COIL
- CAMBRIC ROLL CONE SURROUND
- HIGH QUALITY ANISOTROPIC VENT COOLED MAGNET SYSTEMS
- PUSH BUTTON CONNECTORS
- PRECISION BLACK ALUMINIUM DIECAST CHASSIS WITH MACHINED FACE
- INTEGRAL KICK PROOF GRILL OPTION

STUDIO 7 SERIES TECHNICAL SPECIFICATIONS

15 INCH	Overall diameter inches m.m.	Power handling watts R.M.S.	Impedance ohms	Voice Coil dia inches m.m.	Application	Fixing centres		Fixing holes		Baffle hole		Magnet System		Total Flux (maxwells) (Gauss)		Sensitivity		Useful response	Resonance free air (approx) Hz	Cone	Surround	Dome
						p.c.d. ins.	m.m.	ins.	m.m.	Front mount ins	Rear mount mm	Mass lbs	Kg	nominal	nominal	1w	1 mtr dB					
Studio C15-125 Bass	15.5 394	125	8 or 16	2.025 51.4	Bass Guitar, L.F. Multi P.A. and Disco Systems	8 Slots		8 Slots		14.355	13.625 346	10lb 5oz	4.68	233,000	15,000	100	102	Up to 5 KHz	40	ribbed treated long fibre paper	resin treated cambric elastomer damped	black paper
Studio C15-150 Bass	15.5 394	150	8 or 16	2.025 51.4	Bass Guitar, L.F. Multi P.A. + Disco Systems	14.56	370	.25	6	14.355	13.625 346	12lb 8oz	5.7	242,000	14,000	99	101	Up to 5 KHz	40	ribbed treated long fibre paper	resin treated cambric elastomer damped	black paper
Studio C15-250 Bass	15.5 394	250	8 or 16	3.00 76.00	Bass Guitar, L.F. Multi P.A. and Disco Systems	to	to	wide		14.355	13.625 346	15lb 10oz	7.2	290,000	12,500	99	101	Up to 4 KHz	40	smooth treated long fibre paper	4 roll resin treated cambric elastomer damped	black paper
Studio C15-300 I *	15.5 394	300	8 or 4	3.00 76.00	High Power Bass Instrument giving excellent transient response	15.00	381	.475	12	14.355	13.625 346	22lb 5oz	10.15	351,000	15,000	105	108	Up to 6.5 KHz	40	curved treated smooth long fibre paper	resin treated double roll cambric elastomer damped	black paper
Studio C15-400 Bass	15.5 394	400	8 or 16	3.00 76.00	High Power Bass L.F.					14.355	13.625 346	22lb 5oz	10.15	351,000	15,000	102	106	Up to 4 KHz	40	smooth treated long fibre paper	4 roll resin treated cambric elastomer damped	black paper

* Studio C15-300 I Integral Grill N/A

THIELE-SMALL PARAMETERS

- Re — DC resistance of driver (ohms)
- fs — Fundamental free air resonance of driver (Hz)
- Qms — Mechanical damping factor of driver
- Qes — Electrical damping factor of driver
- Qts — Total damping factor of driver including all system resistances
- Cms — Mechanical compliance of driver suspension ($MN^{-1} \times 10^{-4}$)
- Cas — Acoustic compliance of driver suspension ($MN^{-1} \times 10^{-4}$)
- Vas — Volume of air having compliance equal to driver suspension (Litres)
- Mms — Diaphragm Mass including Airload (gms)
- Rms — Total mechanical resistance of suspension (mech ohms)
- Bl — Force factor (Newtons/ampere)
- Sd — Cone area (Cm²)
- Vd — Peak Volume displacement of diaphragm (Cm³)
- Ref Eff — Reference Efficiency

MODEL	Re	fs	Qms	Qes	Qts	Cms	Cas	Vas	Mms	Rms	Bl	Sd	Vd	Ref Eff %
C15-125 BASS	6.1	39	2.60	.28	.25	2.0	1.2	191	79	7.4	14.7	800	321	3.9
C15-150 BASS	6.1	38	4.44	.32	.30	1.9	1.2	178	89	4.6	15.3	800	402	3.1
C15-250 BASS	6.0	39	4.78	.34	.32	1.5	1.1	160	106	5.4	20.2	850	470	3.5
C15-300 I	6.4	40	2.53	.20	.19	1.4	1.2	169	107	10.7	25.1	900	181	5.2
C15-400 BASS	6.0	40	3.75	.16	.16	1.1	.8	118	137	9.2	21.7	850	598	4.5

DESCRIPTION

With power ratings from 125 to 400 watts RMS McKenzie 15" drive units form a strong part of the award winning Studio Series and can be selected with confidence.

Demands made on the professional loudspeaker today requires total dedication to component quality and performance. McKenzie coils are wet wound on high temperature Kapton ensure each winding is bonded to the next and also to the former to give a heat handling capacity in excess of 250 °C. Cone components are all elastomer damped giving long life, long excursion and optimum performance linearity with the suspension coil assembly.

The pressure die-cast aluminium chassis are precision engineered to ensure absolute component alignment and rigidity in service. Magnet systems of pure steel together with finest quality ferrite ensure optimum magnetic performance.

Finally, to ensure complete customer assurance of quality each loudspeaker is passed through our computer controlled sweep and soak quality test. To demonstrate our confidence in our products a print-out of the test result accompanies each unit and we offer a lifetime guarantee against any manufacturing defect.



MCKENZIE ACOUSTICS LTD. have a policy of continuing development and progress and the right to change specifications without notice is reserved. Details correct at time of going to press. June 1986.

MCKENZIE ACOUSTICS LIMITED

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