

UM 75 TUBE CONDENSER MICROPHONE

with switchable polar pattern

GEORG NEUMANN - GEFELL
1928 - 75th Anniversary - 2003
Type UM 75 Nr. 00/75

- Limited Edition -
- Manufactured using original technologies -



*75
Jahre*

SEIT 1928

KONDENSATORMIKROFONE
FÜR STUDIO - UND MESSTECHNIK

MICROTECH GEFELL



TUBE CONDENSER MICROPHONE with switchable polar pattern

UM 75

The UM 75 studio microphone features our M 7 capsule, made after classic technologies from the 1930s and renowned for its outstanding sound quality. This pressure gradient transducer uses two large diameter gold sputtered plastic diaphragms.

The capsules are selected for optimum polar response. Three directional characteristics, omni-directional, cardioid and figure-8 are selectable with a pattern selector switch mounted on the power supply.

The vacuum tube microphone shows a considerable signal-to-noise ratio and a high sensitivity. The UM 75 has the typical warm full sound of tube microphones which is especially preferred by singers and soloists.

The direction of maximum sensitivity is radial to the grill, i. e. side addressed.

The vacuum tube amplifier is a time proven design using a pentode working as high μ triode selected for its sonic characteristics.

The high performance output transformer provides distortion-free modulation in the lower frequency range and supports the distinctive vintage sound of this microphone.

The UN 920.1 power supply provides the polarization voltage for the capsule and the necessary DC voltages to the microphone amplifier. It is recommended to set the heater voltage of the power supply to 5,8 Volts by your service work- shop for cable lengths longer than 50 meters. The UN 920.1 can be powered from AC mains with the primary voltage from 115 or 230 Volts - 50 or 60 Hz.

Mounted on the front panel are the pattern selector switch and the on/off - switch. Mounted on the rear panel are the AC mains connector with choice of voltage, the 7-pin Tuchel connector which powers the microphone and a standard 3-pin XLR-connector for audio output.



DELIVERY

Tube condenser microphone UM 75 in suitcase 1, aluminium L x B x H 450 x 160 x 365 mm with Power supply UN 920.1

Connection cable C 92.1

Elastic suspension EA 92

Windscreen W 92, anthracite

Finish: hammered patina gray

Order-No. 211175

SPECIAL EDITION

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ACCESSORIES, optional

Popscreen, black	PO 70	Order-No. 600018
Microphone holder, satin nickel	MH 80	Order-No. 202320
Connection cable	C 92.1 S	Order-No. 202206

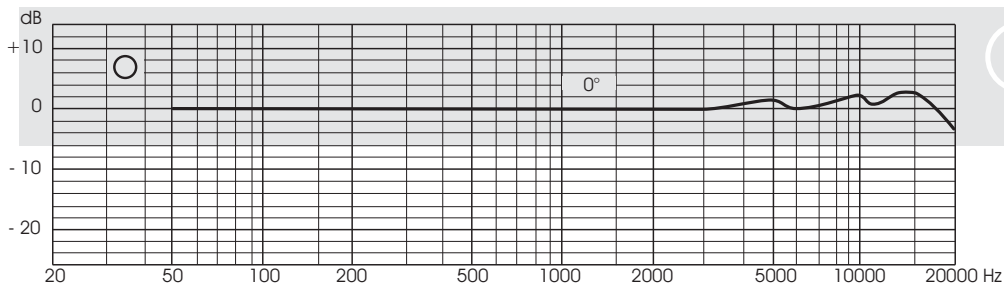
TECHNICAL SPECIFICATIONS

CE Certificate

UM 75

Polar pattern		omni, cardioid, fig-8
Acoustic operating principle		Pressure gradient transducer
Frequency range		40 ... 18000 Hz
Sensitivity at 1 kHz		15 mV/Pa
Output impedance		200 Ω
Equivalent loudness level	CCIR 468-4	25 dB
Due to inherent noise	DIN EN 60 651	17 dB - A
Signal-to-noise ratio	CCIR-weighted	69 dB
(re 1 Pa at 1 kHz)	A-weighted	77 dB
Max. SPL for THD ≤ 0,5 %		120 dB
Total dynamic range of the microphone amplifier		103 dB
DC power supply		120 V-
Anode current		1 mA-
Heater voltage		5,8 V-
Heater current		200 mA-
Tube		EF 86
Output connector		7 - pin Tuchel C 70 / A
Weight		430 g
Dimensions (L x Ø)		197 mm x 42 mm

Frequency responses UM 75



Polar patterns

