

P
M
L

Kondensator mikrofon
Condenser microphone

DC-63

1:1 naturlig storlek
actual size



AB PEARL MIKROFONLABORATORIUM

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Cable: Pearlmikrofon · Helsingborg · Sweden

KOMBINATIONSMÖJLIGHETER:

Mik som kardioid A
Pot P på 0
Omk S ur funktion

Mik som kardioid B
Pot P på 5 eller 1
Omk S på 1 eller 2

Mik som kula
Pot P på 1
Omk S på 1

Mik som åtta
Pot P på 5
Omk S på 2

Från kula ökar riktverkan kontinuerligt och övergår till kardioid B
Pot P från 2 till 3, 4, 5
Omk S på 1

Från kardioid B övergår riktverken kontinuerligt till åtta
Pot P från 2 till 3, 4, 5
Omk S på 2

Omk H på 1 rak frekvensgång med
" L " 1 maximal känslighet
" H " 1 "roll off" från 60 Hz
" L " 2 med maximal känslighet
" H " 2 -16 dB känslighet med
" L " 1 +5 dB vid 5 KHz
" H " 2 -16 dB känslighet med
" L " 2 +5 dB vid 5 KHz och
"roll off" från 60 Hz

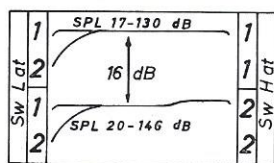
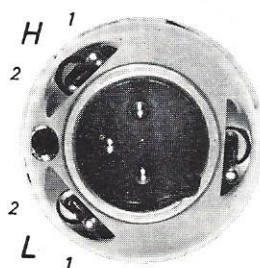


Fig. A



		Pot P at					
		0	1	2	3	4	5
Sw S at	1	○	○	○	○	○	○
	2	○	○	○	○	○	○

Fig. B

Omk H och L är oberoende av Pot P och Omk S. H och L är däremot beroende av varandra liksom S av P. (Se fig. A och B.)

Av detta följer att någon av de fyra frekvenskurvorna enl. fig. A kan kombineras med önskat polardiagram.

COMBINATION POSSIBILITIES:

Mike with cardioid A response
Pot P at 0
Sw S no function

Mike with cardioid B response
Pot P at 5 or 1
Sw S at 1 or 2

Mike with omni-dir. response
Pot P at 1
Sw S at 1

Mike with bi-dir. response
Pot P at 5
Sw S at 2

From omni-dir. directivity effect increases and goes continuously over to cardioid B
Pot P from 2 to 3, 4, 5
Sw S at 1

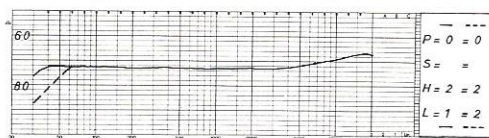
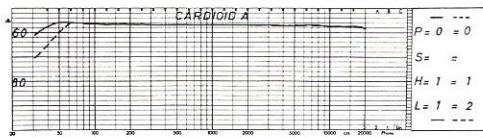
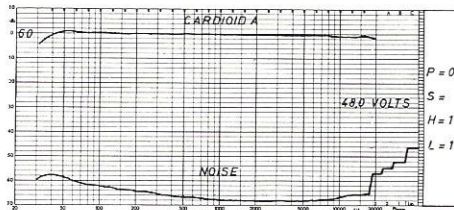
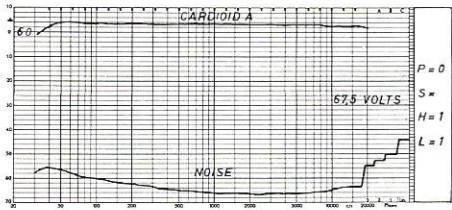
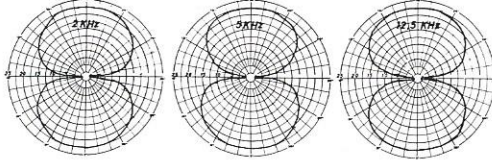
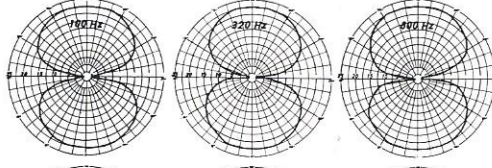
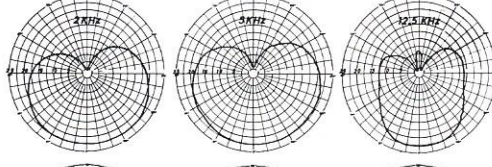
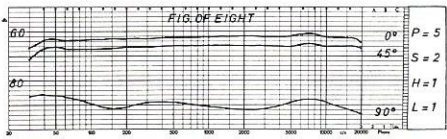
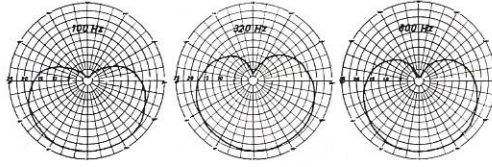
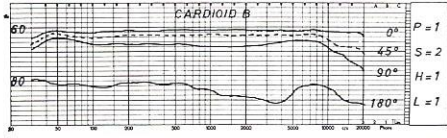
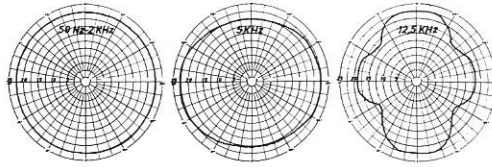
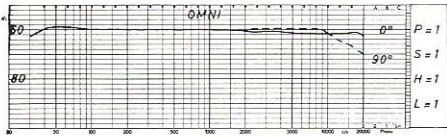
From cardioid B directivity effect goes continuously over to bi-dir.
Pot P from 2 to 3, 4, 5
Sw S at 2

Sw H at 1 flat frequency response
" L " 1 with maximum sensitivity
" H " 1 "roll off" from 60 Hz
" L " 2 with maximum sensitivity
" H " 2 -16 dB sensitivity with
" L " 1 5 dB boost at 5 KHz
" H " 2 -16 dB sensitivity with
" L " 2 5 dB boost at 5 KHz and
"roll off" from 60 Hz

Sw H and L are independent of Pot P and Sw S. H and L are, however, interdependent as are S of P.

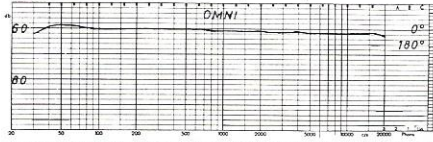
(See fig. A and B.)
It thus follows that any of the four frequency response curves of fig. A can be combined with the desired polar pattern.

Typical frequency response curves of DC-63

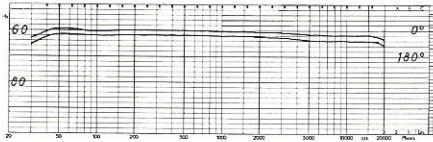
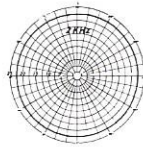


Typical frequency response curves

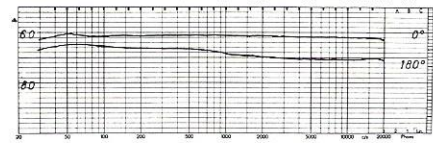
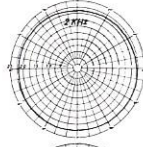
P S H L



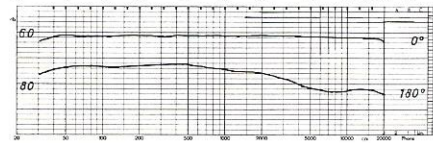
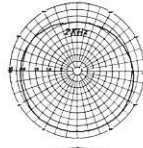
1 1 1 1



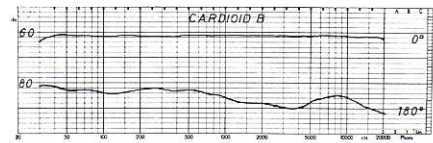
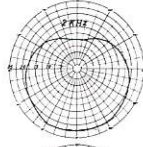
2 1 1 1



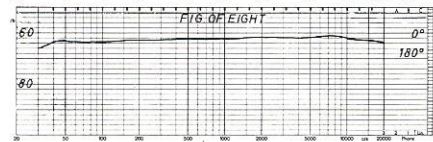
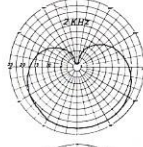
3 1 1 1



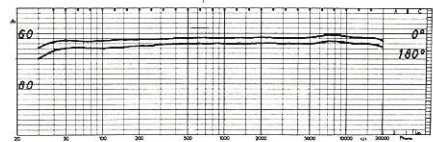
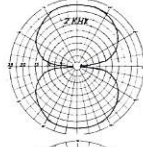
4 1 1 1



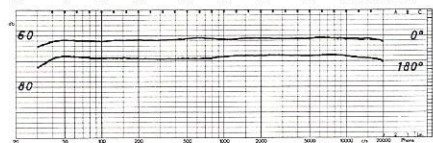
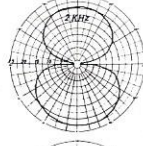
5 1 1 1



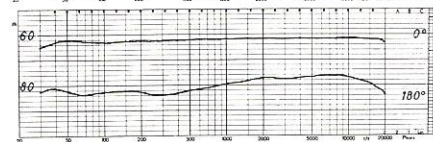
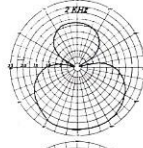
5 2 1 1



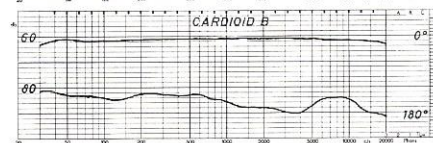
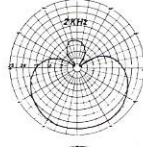
4 2 1 1



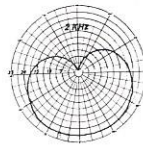
3 2 1 1



2 2 1 1



1 2 1 1



10-2000-10-50

KONDENSATORMIKROFON

med SYMSI-matning och COVRI-diagram

DC-63, kondensatormikrofon, har allt den professionella studion av högsta klass fordrar. Fyra omkopplare och en potentiometer för val av önskad upptagningskaraktär.* Allt placerat, lätt åtkomligt, på mikrofonen. Nätaggregat överflödigt, tack vare SYMSI-matning, varför potentiometern för COVRI-diagram sitter på mikrofonen.

PML-kapsel, benämnd TWISI, efter de sista rönen tillsammans med F.E.T. gör DC-63 helt oslagbar inom den professionella klassen.

SYMSI-matning = symmetrisk signalkabelmatning

COVRI-diagram = kontinuerligt variabelt riktdiagram

TWISI-kapsel = tvåsidig isolerad kapsel

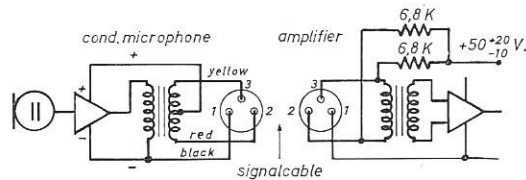
Som standard levereras DC-63 med signalkabel 3003 och mikrofonklyka 1930/31.

* 44 definierade kombinationsmöjligheter.

TEKNISKA DATA:

	Kardioid A	Kardioid B	Ätta	Kula
Riktdiagram	20—25 dB	20—25 dB	25—30 dB	
Riktverkan	20—25 dB	20—25 dB	25—30 dB	
Frekvensområde (Hz)	35—20.000	35—20.000	40—20.000	25—20.000
Känslighet 1 dyn/cm ²	—56 dB	—60 dB	—60 dB	—60 dB
Egenbrus				
(re 2 · 10 ⁻⁴ dyn/cm ²)	<17 dB	<20 dB	<20 dB	<20 dB
Dynamik	130 dB	130 dB	130 dB	130 dB
Kapselkapacitet	2 × 100 pF			
Utg.imp. (balans.)	200 ohm			
Driftspänning (DC)	40—70 V (67,5 V rekommenderas)			
Strömförbrukning	0,5—0,7 mA			
Temperaturområde	—20° +50° C			
F.E.T.	1 st.: PML 1			
Dimensioner	150 × 31 mm			
Vikt	175 gr			
Ytbehandling	Satin krom och eloxal			

Typ	Tillbehör och beskrivning
DC-63	Kondensatormikrofon med SYMSI-matning och COVRI-diagram
3003	6 m. 2 led. signalkabel med CANNON XLR kontakt
1903	Svanhals. Alla 1903 passar (5/8" × 27 UNS)
1910/31	Upphängningskorg med kulle och nippel (5/8" × 27 UNS)
1930/31	Mikrofonklyka (5/8" × 27 UNS)
7320	Batteriaggregat för en mikrofon (67,5 V rekommenderas)
7320/S	" två mikrofoner
7320/4	" fyra "
7320/8	" åtta "
7135	4 m. 2 led. signalkabel med PREH kontakt (erforderlig när 7320/ användes)



Wiring-instruction DC-63

CONDENSER MICROPHONE

with SYMSI powering and COVRI pattern

The DC-63 condenser microphone has everything required by first-rate professional studios. Four switches and a potentiometer for selection of the desired directional response pattern.* All located on the microphone for easy access. No power supply necessary, thanks to SYMSI powering, which also means that the potentiometer for the COVRI pattern can be located on the microphone.

The PML cartridge, called the TWISI, designed according to the latest findings, in combination with F.E.T.'s makes the DC-63 unbeatable in the professional class.

SYMSI powering = symmetrical signal cable powering

COVRI pattern = continuously variable directivity pattern

TWISI capsule = twin-sided insulated capsule

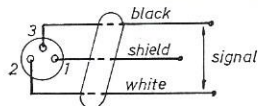
The DC-63 is supplied including signal cable 3003 and stand adapter 1930/31 as standard.

* 44 distinct combination possibilities.

TECHNICAL DATA:

	Cardioid A	Cardioid B	Bi-dir.	Omni-dir.
Directivity pattern	Cardioid A	Cardioid B	Bi-dir.	Omni-dir.
Directivity index	20—25 dB	20—25 dB	25—30 dB	
Frequency response (Hz)	35—20.000	35—20.000	40—20.000	25—20.000
Sensitivity at 1 dyne/cm ²	—56 dB	—60 dB	—60 dB	—60 dB
Self noise (re 2 · 10 ⁻⁴ dyne/cm ²)	<17 dB	<20 dB	<20 dB	<20 dB
Dynamic range	130 dB	130 dB	130 dB	130 dB
Capacity of capsule	2 × 100 pF			
Out. imp. (balanc.)	200 ohms			
Operating voltage (DC)	40—70 V (67,5 V are recommended)			
Current consumption	0,5—0,7 mA			
Operating temperatures	—20° +50° C			
F.E.T.	One PML 1			
Dimensions	5 7/8" × 1 1/4"			
Weight	6 1/8 oz			
Finish	Satin chrome and eloxal			

Type	Accessories and description
DC-63	Condenser microphone with SYMSI powering and COVRI pattern
3003	20 ft. 2 conductor signal cable with CANNON XLR connector
1903	Gooseneck. All 1903 suits (5/8" × 27 TPI)
1910/31	Shockproof bomm mount with ball-joint and nipple (5/8" × 27 TPI)
1930/31	Stand adaptor (5/8" × 27 TPI)
7320	Battery power supply for one microphone (67,5 V are recommended)
7320/S	" two microphones (67,5 V are recommended)
7320/4	" four microphones (67,5 V are recommended)
7320/8	" eight microphones (67,5 V are recommended)
7135	12 ft. 2 conductor signal cable with PREH connector (required when 7320/ is used)



signal cable 3003
Wiring-instruction 3003