



# RE420 Condenser cardioid vocal microphone

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- Premium condenser element delivers a highly-detailed, rich, and full bodied sound
- Cardioid polar pattern provides excellent acoustic isolation with a comfortable working range
- Multi-stage pop filter minimizes breath blasts and plosives
- Selectable high-pass filter reduces undesirable low frequency content when engaged
- Vibration-absorbing internal shock mount minimizes handling noise



The RE420 is a premium-grade, high-performance, condenser cardioid vocal microphone. Designed to reveal the exceptional detail and vivid clarity synonymous with condenser elements, it skillfully delivers the lyrical finesse required for expressive vocal performances.

The sonic signature is rich, detailed and full-bodied, with a warm and clear low end, natural and present midrange, and an open, crisp and detailed high end. The cardioid pattern provides excellent acoustic isolation. Maximum feedback rejection occurs when a stage monitor is positioned 180° off-axis to the element. This pattern also allows for a comfortable working range around the microphone making expressive microphone techniques easy.

The multi-stage pop filter consists of two layers of dense foam separated by air, which attenuates wind velocity caused by breath and windblasts.

The high-pass filter has two positions (see drawing). The flat position delivers the full frequency band pass of the capsule. The high-pass position attenuates frequencies below 150 Hz.

The internal shock mount isolates the microphone element from vibration and guards against handling noise.

## Technical specifications

|   |   |
|---|---|
| Element type:                             | Self-biased condenser   |
| Frequency response:                       | 50 Hz-20 kHz (see chart)  |
| Polar pattern:                            | Cardioid  |
| Sensitivity, open circuit voltage, 1 kHz: | 5.6 mV/Pascal (-45 dBV/Pa)  |
| Clipping (max SPL):                       | 149 dB SPL (1% THD)   |
| Self noise:                               | 22 dB SPL "A" weighed (0 dB=20 µPa)   |
| Dynamic range:                            | 127 dB  |
| Signal-to-Noise ratio:                    | 72 dB   |
| Output impedance:                         | 200 ohms  |
| Power requirements:                       | 48 VDC phantom power  |
| Polarity:                                 | Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 |
| Microphone connector:                     | 3-pin, XLR-type   |
| Finish:                                   | Black polyurethane paint  |
| Materials:                                | Zinc die cast, steel wire cloth grille  |

## 2 | RE420 Condenser cardioid vocal microphone

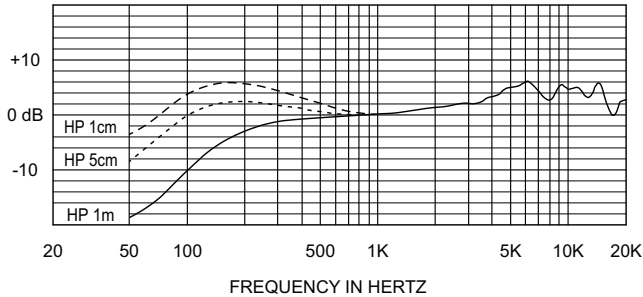
Dimensions, length: 7.6 in. (192 mm)  
 diameter: 1.95 in. (49.5 mm)  
 shank: 0.96 in. (24.3 mm)

Net weight: 11.5 oz (326 g)

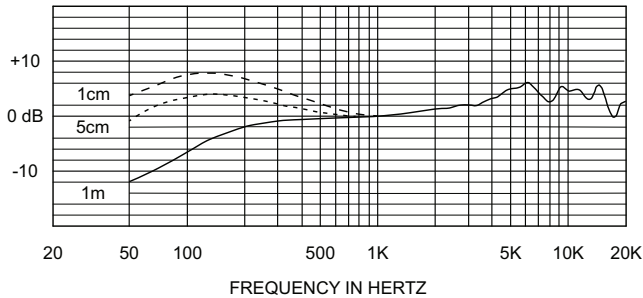
Shipping weight: 1 lb 4.9 oz (593 g)

### Frequency response:

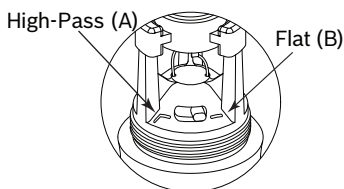
#### High-Pass



#### Flat



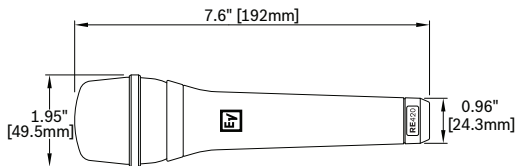
### High-Pass filter:



A High-Pass

B Flat

### Dimensions:



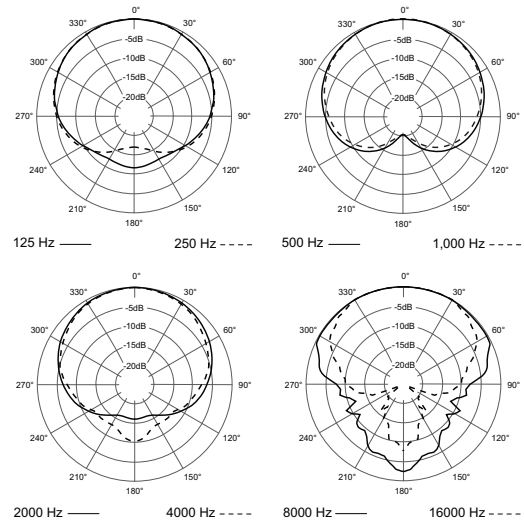
Represented by:

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 85630 Grasbrunn  
 Germany

Bosch Security Systems, Inc.  
 12000 Portland Avenue South  
 Burnsville MN 55337  
 USA

www.electrovoice.com

### Polar response:



### Replacement parts

### Description

|             |                                  |
|-------------|----------------------------------|
| RE420GRILLE | Replacement grille, black        |
| NDVOCCLIP   | Replacement stand adapter, black |

### Parts included

### Quantity

### Component

|   |   |
|---|---|
| 1 | Microphone  |
| 1 | Gig bag   |
| 1 | Stand clip  |
| 1 | Engineering datasheet                               |
| 1 | Warranty and product documentation information card |

### Ordering information

**RE420 Condenser cardioid vocal microphone**  
 Condenser cardioid vocal microphone, black  
 Order number **RE420**

### Accessories

**379-1 379-1 WINDSCREEN, BLACK, PACKAGED**  
 Foam windscreen/pop filter, black  
 Order number **379-1**