IC 106-T
100 V In-Ceiling Line

Key Points

- 2-way In-Ceiling speaker.
- Excellent performance/size ratio.
- Speaker ready for painting (removable logo and protection kit supplied).
- The most versatile In-Ceiling speaker.
- Inverted dome tweeter: the best space dispersion in the market!
- Tweeter and woofer compatible with damp environment.
- Adjustable tweeter for total control of directivity.
- Genuine audiophile 12-12 dB/octave crossover for outstanding sound quality.

Technical specifications

Max. power 120W
Nominal power (100V mode) 20W (20 - 10 - 5W)
Sensitivity at 1W/20W [at 1kHz, 1m] 89dB/102dB
Bandwidth [± 3dB] 60Hz - 20kHz
Opening angle [at 1kHz/4kHz, -6dB] 175°/90°
Nominal power 100 Volts
Nominal impedance 400/800/1500 ohms [20/10/5W]
Passive crossover cut-off frequency 3 300Hz
Drivers
6½" (165mm) glass fiber woofer
1" (25mm) aluminum inverted dome adjustable tweeter
Frame dimensions [diameter] 9½" (243mm)
Cut-out dimensions [diameter] 8½" (208mm)
Cut-out depth 3½" (78mm)
Weight 3.31 lb (1.5kg)
Color White

Focal® is a trademark of Focal-JMlab® - www.focalprofessional.com
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The invisible great Focal sound.
The Focal Professional Commercial Integration range is the answer to two fundamental constraints:
- offering very high quality sound audio solutions
- promoting product integration to preserve architectural harmony.

Applications:
The Focal IC 106-T loudspeaker can be installed in numerous applications such as: conference rooms, shopping malls, lecture halls, restaurants, corridors, shops, swimming-pools, hotels, boats, museums, meeting rooms, ...

Packaging
1 IC 106-T speaker with grille
1 cut-out template
1 protective mask
1 key to remove the grille
1 removable Focal logo

Environmental characteristics
- Ambient temperature: -25 °C to + 55 °C
- Watertightness: Damp environment

Electrical diagram

IC 106-T speaker level calculation table

<table>
<thead>
<tr>
<th>Power/Distance</th>
<th>1 meter</th>
<th>2 meters</th>
<th>5 meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 watt</td>
<td>89dB</td>
<td>83dB</td>
<td>75dB</td>
</tr>
<tr>
<td>5 watts</td>
<td>96dB</td>
<td>90dB</td>
<td>82dB</td>
</tr>
<tr>
<td>10 watts</td>
<td>99dB</td>
<td>93dB</td>
<td>85dB</td>
</tr>
<tr>
<td>20 watts</td>
<td>102dB</td>
<td>96dB</td>
<td>88dB</td>
</tr>
</tbody>
</table>

Summary
- NPA (1W/1m)(dB)
  - 125Hz: 90 dB
  - 250Hz: 89 dB
  - 500Hz: 89 dB
  - 1kHz: 89 dB
  - 2kHz: 89 dB
  - 4kHz: 87 dB
  - 8kHz: 87 dB

- NPA (20W/1m)(dB)
  - 125Hz: 103 dB
  - 250Hz: 102 dB
  - 500Hz: 102 dB
  - 1kHz: 102 dB
  - 2kHz: 102 dB
  - 4kHz: 100 dB
  - 8kHz: 100 dB

- opening angle at -6dB
  - 180°

Values of average ambient level examples

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>110dB</td>
<td>Discotheque</td>
</tr>
<tr>
<td>90dB</td>
<td>Pub, stadium during a goal</td>
</tr>
<tr>
<td>80dB</td>
<td>Multipurpose room, station, stadium terraces</td>
</tr>
<tr>
<td>70dB</td>
<td>Supermarket, shop, swimming-pool, ice-rink</td>
</tr>
<tr>
<td>60dB</td>
<td>Conference room, office, museum, place of worship</td>
</tr>
<tr>
<td>50dB</td>
<td>Classroom</td>
</tr>
<tr>
<td>25dB</td>
<td>Quiet room</td>
</tr>
</tbody>
</table>

IC 106-T speaker coverage area

<table>
<thead>
<tr>
<th>Speaker height / ground</th>
<th>2.5m</th>
<th>3m</th>
<th>4m</th>
<th>5m</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 speaker for</td>
<td>15m²</td>
<td>30m²</td>
<td>80m²</td>
<td>150m²</td>
</tr>
</tbody>
</table>