

# Cluster Q IP Q4 IP Q8 IP

## Installation line array

Covering the demand for high-pressure systems for night-clubs, concert halls, and sports arenas, Cluster series introduces the power of arrayable speakers into the realm of fixed installations. Inheriting the best features of reliability, sound performance, and ease of control from touring and mobile sound, Cluster series is augmented with convenient mounting hardware solution for quick setups and perfect fit into the architectural designs.

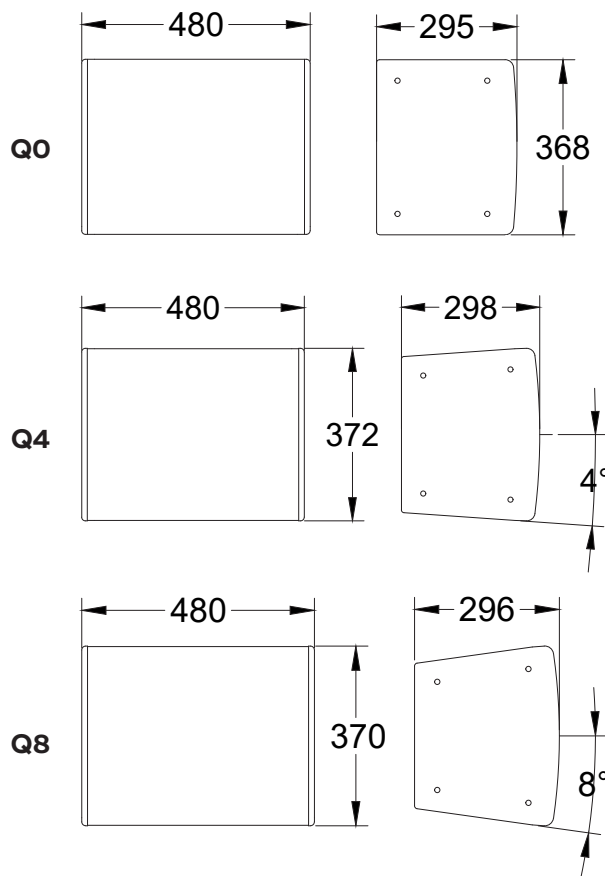
Cluster Q IP, Q4 IP and Q8 IP systems are

unique installation line array modules with integrated mounting capabilities and convenient options for wiring and amplifier connection, which can be used to accurately steer the sound field for even the most difficult acoustical conditions. IP54 weather protection allows to use them in difficult environmental conditions as well.

Cluster Q IP, Q4 IP and Q8 IP can be used with Cluster S15 subwoofers to create a permanent outdoor sound system for demanding high-profile projects.



### DIMENSIONS



### SPECIFICATIONS

|                            |  |
|----------------------------|--|
| Frequency response (-10dB) | 100 - 19000 Hz   |
| Max SPL <sup>1</sup>       | 138 dB   |
| Sensitivity (1W/1m)        | 98 dB Low / 113 dB High  |
| LF Driver                  | 4x 6", 1,75" VC  |
| HF Driver                  | 2x 1", 1,75" VC  |
| Horizontal coverage        | Q - 60°, Q4 - 80°, Q8 - 100°                                     |
| Vertical splay angle       | Q - 0°, Q4 - 4°, Q8 - 8°   |
| Impedance                  | 8 Ohm Low / 16 Ohm High  |
| Nominal power <sup>2</sup> | 520 W Low / 100 W High   |
| Connectors                 | Barrier strip / Gland nut cover plate                            |
| Dimensions (WxHxD)         | Q - 480x368x295 mm<br>Q4 - 480x372x298 mm<br>Q8 - 480x370x296 mm |
| Net / Shipping weight      | 24 kg / 26,5 kg  |
| Mounting                   | Integrated rigging hardware                                      |
| Weather resistance         | IP54   |
| Enclosure materials        | Plywood, wear resistant paint                                    |
| Speaker protection         | Steel grill, acoustically transparent backing                    |

<sup>1</sup> - pink noise, filtered according to AES 2 - 2012, crest factor 9 dB

<sup>2</sup> - based on transducer power measured according to AES 2 - 2012

### CONNECTIONS

Use Hi-pass filter to prevent speaker damage and distorted sound by eliminating low non-audible frequencies in input signal.

Do not exceed input power ratings mentioned in specifications while exploiting the speaker system.

Speaker system comes with two Neutrik® Speakon heavy duty sockets for easy connection.

|                             |  |        |      |
|-----------------------------|--|--------|------|
| Low +                       | MID +                                  | High + | HI + |
| Low -                       | MID -                                  | High - | HI - |
| High pass filter:           |  |        |      |
| Low                         | 100 Hz or higher, 18 dB/oct or higher  |        |      |
| High                        | 1300 Hz or higher, 18 dB/oct or higher |        |      |
| Recommended amplifier power |  |        |      |
| Low                         | 520 - 1040 W on nominal impedance      |        |      |
| High                        | 100 - 200 W on nominal impedance       |        |      |

### SAFETY INSTRUCTIONS

- Do not pour liquids on speaker system - this may cause driver cone destruction and unappealing speaker appearance. Do not allow direct sunlight on speaker cone in order to prevent premature failure. Do not install speaker system near open flames or heating elements.
- Do not use speaker system with damaged speakON or speaker cable so as not to cause electric shock hazard or fire hazard.
- Make sure speaker system is firmly set up on the floor, stage, or wall (where applicable).
- While setting speaker system up onto an angled or slippery surface, make the necessary arrangements to avoid vibration-induced movement.
- Speaker system is capable of delivering significant sound pressure levels. To avoid permanent or temporary hearing damage, prolonged exposure to sound pressure levels exceeding 90 dB should be limited.