



# F SERIES WIDE-DISPERSION SPEAKER SYSTEM



***Compact and versatile  
sound reinforcement solutions***

# Compact high performance and un



F-2000



F-1300



F-1000

The latest addition to TOA's acclaimed speaker line, the new F Series of compact, high efficiency two-way speakers achieve higher performance levels for wide range frequency response and power handling. Designed to be extremely versatile in order to meet different installation and application requirements, the new F Series are ideal solutions that solve increasing needs for adaptable sound reinforcement.



## Innovative octagonal horn provides wide dispersion

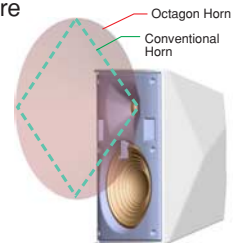
Significantly improved  $110^\circ \times 100^\circ$  high-frequency dispersion angle, for better sound coverage and a more even tonal balance.

**F-2000:**  $110^\circ \times 100^\circ$

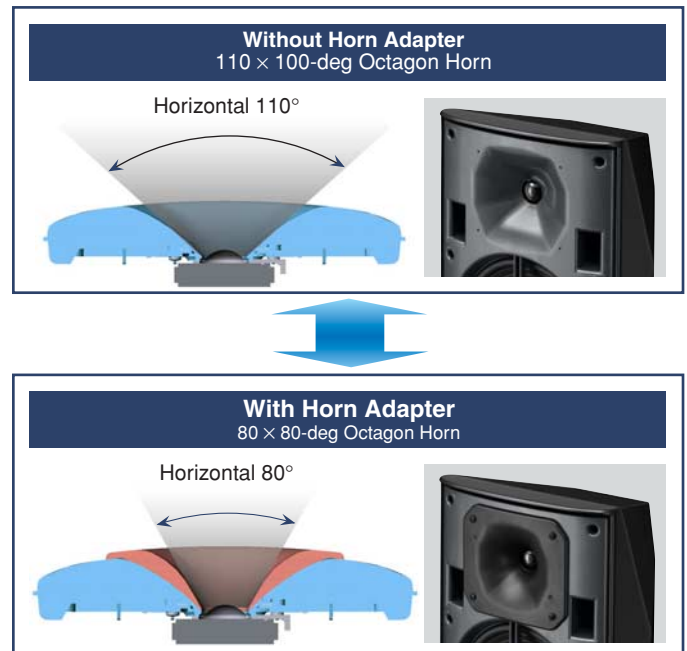
**F-1300:**  $110^\circ \times 100^\circ$

**F-1000:**  $90^\circ \times 90^\circ$

Easily mountable adapter included (F-2000 only), for applications requiring more controlled dispersion.



### •HF Horn Adapter for F-2000



# matched installation versatility.

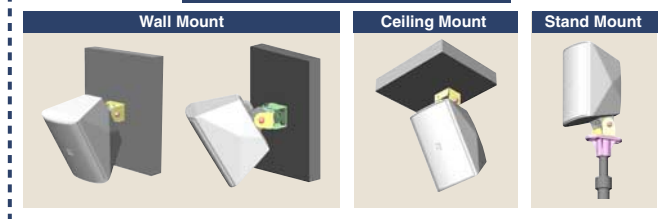
## Various mount brackets

Accessory brackets enable a wide variety of installations, for example on walls, ceilings and speaker stands. Moreover, additional available brackets make even more demanding installations possible.

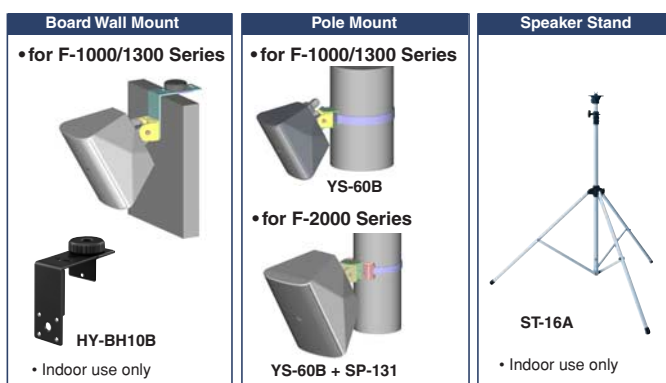
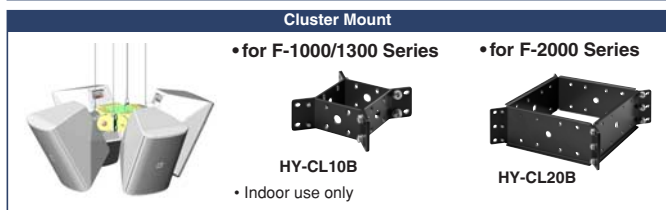
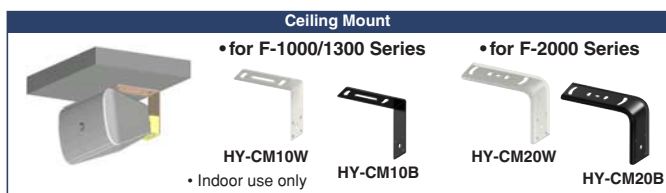
## Stylish and highly rigid speaker casing design

The F Series speaker casing comes with a design that is highly stylish, so it blends well into a room's decor and can be attractively installed. The graceful, lightly convex bulge on the side of the casing is also part of a rigidity-enhancing casing construction that works for clear sound reproduction.

### Accessory brackets enable:



### Optional Accessories



### Recommended Optional Subwoofers

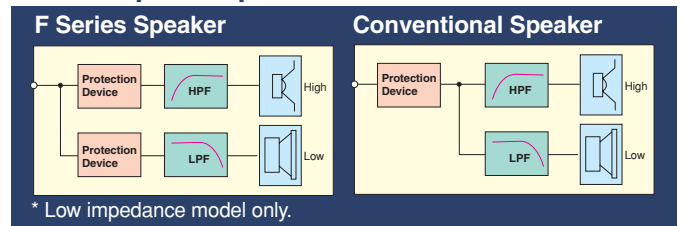


## For any environment

The F Series also features a waterproof design. The speakers may also be re-painted as desired.



## Built-in speaker protection



## Impedance matching

for optimal amplifier/speaker performance.



## Easy connecting

Push-in terminals allow quick connections.

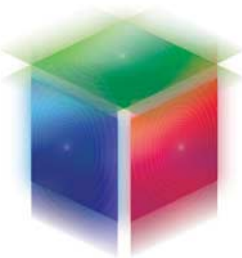


# SPECIFICATIONS

| Model No.               | F-1000B  | F-1000W                | F-1000BT   | F-1000WT                       | F-1000BTWP  | F-1000WTWP             |
|-------------------------|--|------------------------|--|--------------------------------|---|------------------------|
| Enclosure Type          | Bass-reflex type   |                        |  |                                |   |                        |
| Power Handling Capacity | 30 W (continuous pink noise)<br>90 W (continuous program)                              |                        | —  |                                |   |                        |
| Rated Input             | —  |                        | 15 W   |                                |   |                        |
| Rated Impedance         | 8 Ω  |                        | 8 Ω<br>100V line: 670Ω (15W), 2 kΩ (5W), 3.3 kΩ (3W), 10 kΩ (1W)<br>70V line: 330Ω (15W), 670Ω (7.5W), 2 kΩ (2.5W), 3.3 kΩ (1.5W),<br>10 kΩ (0.5W) |                                | 100V line: 670Ω (15W), 2 kΩ (5W), 3.3 kΩ (3W), 10 kΩ (1W)<br>70V line: 330Ω (15W), 670Ω (7.5W), 2 kΩ (2.5W), 3.3 kΩ (1.5W),<br>10 kΩ (0.5W)         |                        |
| Sensitivity             | 87 dB (1W, 1m) at installation in 1/2 free sound field                                 |                        |  |                                |   |                        |
| Frequency Response      | 85 – 20,000 Hz, -10 dB at installation in 1/2 free sound field                         |                        |  |                                |   |                        |
| Crossover Frequency     | 5 kHz  |                        |  |                                |   |                        |
| Directivity Angle       | Horizontal: 90°, Vertical: 90°   |                        |  |                                |   |                        |
| Speaker Component       | Low frequency: 10 cm (4") cone-type<br>High frequency: Balanced dome tweeter           |                        |  |                                |   |                        |
| Input Terminal          | Push-in terminal   |                        |  |                                |   |                        |
| Water Protection        | —  |                        |  | Equivalent to IPX4             |   |                        |
| Operating Temperature   | —  |                        |  | -10°C to +50°C (14°F to 122°F) |   |                        |
| Finish                  | Enclosure: HIPS, black   | Enclosure: HIPS, white | Enclosure: HIPS, black   | Enclosure: HIPS, white         | Enclosure: HIPS, black  | Enclosure: HIPS, white |
| Dimensions              | 130 (W) × 202 (H) × 131 (D) mm (5.12" × 7.95" × 5.16")                                 |                        |  |                                |   |                        |
| Weight                  | 1.8 kg (3.97 lb) (including the supplied brackets)                                     |                        | 2 kg (4.41 lb) (including the supplied brackets)   |                                |   |                        |
| Accessories             | Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set |                        |  |                                | Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1,<br>Bracket fixing screw × 1 set, Terminal cover × 1,<br>Terminal cover mounting screw × 4 |                        |

| Model No.               | F-1300B  | F-1300W                | F-1300BT   | F-1300WT                       | F-1300BTWP  | F-1300WTWP             |
|-------------------------|--|------------------------|--|--------------------------------|---|------------------------|
| Enclosure Type          | Bass-reflex type   |                        |  |                                |   |                        |
| Power Handling Capacity | 50 W (continuous pink noise)<br>150 W (continuous program)                             |                        | —  |                                |   |                        |
| Rated Input             | —  |                        | 30 W   |                                |   |                        |
| Rated Impedance         | 8 Ω  |                        | 8 Ω<br>100V line: 330Ω (30W), 1 kΩ (10W), 3.3 kΩ (3W), 10 kΩ (1W)<br>70V line: 170Ω (30W), 330Ω (15W), 1 kΩ (5W), 3.3 kΩ (1.5W),<br>10 kΩ (0.5W) |                                | 100V line: 330Ω (30W), 1 kΩ (10W), 3.3 kΩ (3W), 10 kΩ (1W)<br>70V line: 170Ω (30W), 330Ω (15W), 1 kΩ (5W), 3.3 kΩ (1.5W),<br>10 kΩ (0.5W)           |                        |
| Sensitivity             | 90 dB (1W, 1m) at installation in 1/2 free sound field                                 |                        |  |                                |   |                        |
| Frequency Response      | 80 – 20,000 Hz, -10 dB at installation in 1/2 free sound field                         |                        |  |                                |   |                        |
| Crossover Frequency     | 2 kHz  |                        |  |                                |   |                        |
| Directivity Angle       | Horizontal: 110°, Vertical: 100°   |                        |  |                                |   |                        |
| Speaker Component       | Low frequency: 13 cm (5") cone-type<br>High frequency: 25 mm (1") dome tweeter         |                        |  |                                |   |                        |
| Input Terminal          | Push-in terminal   |                        |  |                                |   |                        |
| Water Protection        | —  |                        |  | Equivalent to IPX4             |   |                        |
| Operating Temperature   | —  |                        |  | -10°C to +50°C (14°F to 122°F) |   |                        |
| Finish                  | Enclosure: HIPS, black   | Enclosure: HIPS, white | Enclosure: HIPS, black   | Enclosure: HIPS, white         | Enclosure: HIPS, black  | Enclosure: HIPS, white |
| Dimensions              | 162 (W) × 250 (H) × 161 (D) mm (6.38" × 9.84" × 6.34")                                 |                        |  |                                |   |                        |
| Weight                  | 3.1 kg (6.83 lb) (including the supplied brackets)                                     |                        | 3.6 kg (7.94 lb) (including the supplied brackets)   |                                |   |                        |
| Accessories             | Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set |                        |  |                                | Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1,<br>Bracket fixing screw × 1 set, Terminal cover × 1,<br>Terminal cover mounting screw × 4 |                        |

| Model No.               | F-2000B   | F-2000W                | F-2000BT  | F-2000WT                       | F-2000BTWP  | F-2000WTWP             |
|-------------------------|---|------------------------|---|--------------------------------|---|------------------------|
| Enclosure Type          | Bass-reflex type  |                        |   |                                |   |                        |
| Power Handling Capacity | 60 W (continuous pink noise)<br>180 W (continuous program)  |                        | —   |                                |   |                        |
| Rated Input             | —   |                        | 60 W  |                                |   |                        |
| Rated Impedance         | 8 Ω   |                        | 8 Ω<br>100V line: 170Ω (60W), 330 Ω (30W), 670 Ω (15W), 3.3 kΩ (3W)<br>70V line: 83Ω (60W), 170Ω (30W), 330 Ω (15W), 670 Ω (7.5W),<br>3.3 kΩ (1.5W) |                                | 100V line: 170Ω (60W), 330 Ω (30W), 670 Ω (15W), 3.3 kΩ (3W)<br>70V line: 83Ω (60W), 170Ω (30W), 330 Ω (15W), 670 Ω (7.5W),<br>3.3 kΩ (1.5W)  |                        |
| Sensitivity             | 92 dB (1W, 1m) at installation in 1/2 free sound field<br>93 dB (1W, 1m) at installation in 1/2 free sound field (with horn adapter)            |                        |   |                                |   |                        |
| Frequency Response      | 65 – 20,000 Hz, -10 dB at installation in 1/2 free sound field  |                        |   |                                |   |                        |
| Crossover Frequency     | 2.5 kHz   |                        |   |                                |   |                        |
| Directivity Angle       | Horizontal: 110°, Vertical: 100°<br>Horizontal: 80°, Vertical: 80° (with horn adapter)  |                        |   |                                |   |                        |
| Speaker Component       | Low frequency: 20 cm (8") cone-type<br>High frequency: 25 mm (1") dome tweeter  |                        |   |                                |   |                        |
| Input Terminal          | Push-in terminal  |                        |   |                                |   |                        |
| Water Protection        | —   |                        |   | Equivalent to IPX4             |   |                        |
| Operating Temperature   | —   |                        |   | -10°C to +50°C (14°F to 122°F) |   |                        |
| Finish                  | Enclosure: HIPS, black  | Enclosure: HIPS, white | Enclosure: HIPS, black  | Enclosure: HIPS, white         | Enclosure: HIPS, black  | Enclosure: HIPS, white |
| Dimensions              | 244 (W) × 373 (H) × 235 (D) mm (9.61" × 14.69" × 9.25")   |                        |   |                                |   |                        |
| Weight                  | 6.5 kg (14.33 lb) (including the supplied brackets)   |                        | 7.4 kg (16.31 lb) (including the supplied brackets)   |                                |   |                        |
| Accessories             | Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1,<br>Bracket fixing screw × 1 set,<br>Horn adapter × 1, Horn adapter mounting screw × 4 |                        |   |                                | Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1,<br>Bracket fixing screw × 1 set,<br>Horn adapter × 1, Horn adapter mounting screw × 4,<br>Terminal cover × 1, Terminal cover mounting screw × 4 |                        |



Human Society with  
Sound & Communication

TOA Corporation  
www.toa.jp

Specifications are subject to change without notice.  
Printed in Japan (1106) 833-61-648-1B u