



# 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

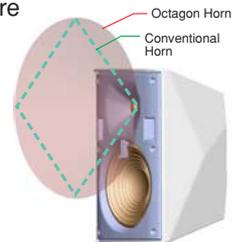
Significantly improved  $110^\circ \times 100^\circ$  high-frequency dispersion angle, for better sound coverage and a more even tonal balance.

**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.

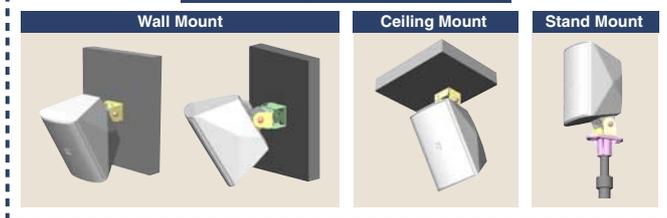
## Various mount brackets

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

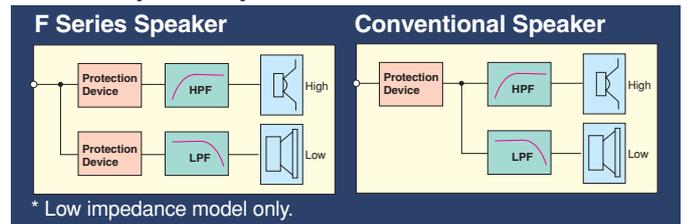


## For any environment

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
<b>Enclosure Type</b>	Bass-reflex type					
<b>Power Handling Capacity</b>	30 W (continuous pink noise) 90 W (continuous program)		—			
<b>Rated Input</b>	—		15 W			
<b>Rated Impedance</b>	8 Ω		8 Ω 100V line: 670Ω (15W), 2 kΩ (5W), 3.3 kΩ (3W), 10 kΩ (1W) 70V line: 330Ω (15W), 670Ω (7.5W), 2 kΩ (2.5W), 3.3 kΩ (1.5W), 10 kΩ (0.5W)		100V line: 670Ω (15W), 2 kΩ (5W), 3.3 kΩ (3W), 10 kΩ (1W) 70V line: 330Ω (15W), 670Ω (7.5W), 2 kΩ (2.5W), 3.3 kΩ (1.5W), 10 kΩ (0.5W)	
<b>Sensitivity</b>	87 dB (1W, 1m) at installation in 1/2 free sound field					
<b>Dispersion (1 to 4k Hz avg.)</b>			120° Horizontal		165° Vertical	
<b>Frequency Response</b>	85 – 20,000 Hz, -10 dB at installation in 1/2 free sound field					
<b>Crossover Frequency</b>	5 kHz					
<b>Directivity Angle</b>	Horizontal: 90°, Vertical: 90°					
<b>Speaker Component</b>	Low frequency: 10 cm (4") cone-type High frequency: Balanced dome tweeter					
<b>Input Terminal</b>	Push-in terminal					
<b>Water Protection</b>			—		Equivalent to IPX4	
<b>Operating Temperature</b>			—		-10°C to +50°C (14°F to 122°F)	
<b>Finish</b>	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white
<b>Dimensions</b>	130 (W) × 202 (H) × 131 (D) mm (5.12" × 7.95" × 5.16")					
<b>Weight</b>	1.8 kg (3.97 lb) (including the supplied brackets)		2 kg (4.41 lb) (including the supplied brackets)			
<b>Accessories</b>	Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set				Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set, Terminal cover × 1, Terminal cover mounting screw × 4	
Model No.	F-1300B	F-1300W	F-1300BT	F-1300WT	F-1300BTWP	F-1300WTWP
<b>Enclosure Type</b>	Bass-reflex type					
<b>Power Handling Capacity</b>	50 W (continuous pink noise) 150 W (continuous program)		—			
<b>Rated Input</b>	—		30 W			
<b>Rated Impedance</b>	8 Ω		8 Ω 100V line: 330Ω (30W), 1 kΩ (10W), 3.3 kΩ (3W), 10 kΩ (1W) 70V line: 170Ω (30W), 330Ω (15W), 1 kΩ (5W), 3.3 kΩ (1.5W), 10 kΩ (0.5W)		100V line: 330Ω (30W), 1 kΩ (10W), 3.3 kΩ (3W), 10 kΩ (1W) 70V line: 170Ω (30W), 330Ω (15W), 1 kΩ (5W), 3.3 kΩ (1.5W), 10 kΩ (0.5W)	
<b>Dispersion (1 to 4k Hz avg.)</b>			160° Horizontal		180° Vertical	
<b>Sensitivity</b>	90 dB (1W, 1m) at installation in 1/2 free sound field					
<b>Frequency Response</b>	80 – 20,000 Hz, -10 dB at installation in 1/2 free sound field					
<b>Crossover Frequency</b>	2 kHz					
<b>Directivity Angle</b>	Horizontal: 110°, Vertical: 100°					
<b>Speaker Component</b>	Low frequency: 13 cm (5") cone-type High frequency: 25 mm (1") dome tweeter					
<b>Input Terminal</b>	Push-in terminal					
<b>Water Protection</b>			—		Equivalent to IPX4	
<b>Operating Temperature</b>			—		-10°C to +50°C (14°F to 122°F)	
<b>Finish</b>	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white
<b>Dimensions</b>	162 (W) × 250 (H) × 161 (D) mm (6.38" × 9.84" × 6.34")					
<b>Weight</b>	3.1 kg (6.83 lb) (including the supplied brackets)		3.6 kg (7.94 lb) (including the supplied brackets)			
<b>Accessories</b>	Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set				Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set, Terminal cover × 1, Terminal cover mounting screw × 4	
Model No.	F-2000B	F-2000W	F-2000BT	F-2000WT	F-2000BTWP	F-2000WTWP
<b>Enclosure Type</b>	Bass-reflex type					
<b>Power Handling Capacity</b>	60 W (continuous pink noise) 180 W (continuous program)		—			
<b>Rated Input</b>	—		60 W			
<b>Rated Impedance</b>	8 Ω		8 Ω 100V line: 170Ω (60W), 330 Ω (30W), 670 Ω (15W), 3.3 kΩ (3W) 70V line: 83Ω (60W), 170Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 kΩ (1.5W)		100V line: 170Ω (60W), 330 Ω (30W), 670 Ω (15W), 3.3 kΩ (3W) 70V line: 83Ω (60W), 170Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 kΩ (1.5W)	
<b>Dispersion (1 to 4k Hz avg.)</b>			146° Horizontal		130° Vertical	
<b>Sensitivity</b>	92 dB (1W, 1m) at installation in 1/2 free sound field 93 dB (1W, 1m) at installation in 1/2 free sound field (with horn adapter)					
<b>Frequency Response</b>	65 – 20,000 Hz, -10 dB at installation in 1/2 free sound field					
<b>Crossover Frequency</b>	2.5 kHz					
<b>Directivity Angle</b>	Horizontal: 110°, Vertical: 100° Horizontal: 80°, Vertical: 80° (with horn adapter)					
<b>Speaker Component</b>	Low frequency: 20 cm (8") cone-type High frequency: 25 mm (1") dome tweeter					
<b>Input Terminal</b>	Push-in terminal					
<b>Water Protection</b>			—		Equivalent to IPX4	
<b>Operating Temperature</b>			—		-10°C to +50°C (14°F to 122°F)	
<b>Finish</b>	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white
<b>Dimensions</b>	244 (W) × 373 (H) × 235 (D) mm (9.61" × 14.69" × 9.25")					
<b>Weight</b>	6.5 kg (14.33 lb) (including the supplied brackets)		7.4 kg (16.31 lb) (including the supplied brackets)			
<b>Accessories</b>	Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set, Horn adapter x 1, Horn adapter mounting screw x 4				Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set, Horn adapter x 1, Horn adapter mounting screw x 4, Terminal cover x 1, Terminal cover mounting screw × 4	