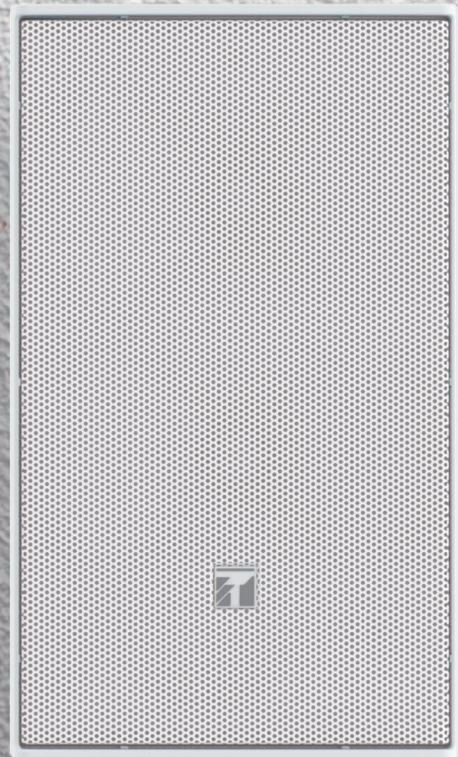




RUGGED ARCHITECTURAL SPEAKER

F-BOX-WP Series



Rugged resilience meets **refined design.**



Rugged yet elegant,
a speaker compliant with **EN and UL standards**
for reliable use in any application.

The F-BOX-WP Series complies with international standards, including EN and UL, ensuring reliable performance worldwide. Additionally, with an IP65 rating, it can be safely used in various environments. Not only does it offer high durability, but its refined design minimizes visual noise, making it a speaker system that seamlessly fits any location or application.





Exceptional Sound Performance Right Out of the Box

At TOA, we are dedicated to achieving the perfect sound. To this end, we have developed proprietary speaker units that produce flat and natural sound. As a result, our speakers deliver accurate and high-quality sound right out of the box, requiring minimal adjustments to achieve perfection. This embodies TOA's commitment to delivering our signature sound excellence.

F-03BT/WT-WP-UE



F-05BT/WT-WP-UE



F-08BT/WT-WP-UE



Specifications	F-03BT- WP-UE	F-03WT- WP-UE
Enclosure	Sealed type	
Power Handling Capacity (*1)	Rated noise power: 30 W (8 Ω), Continuous program: 60 W (8 Ω)	
Rated Input	15 W (100 V line, 70 V line)	
Rated Impedance	8 Ω 100 V line: 670 Ω (15 W), 2 kΩ (5 W), 3.3 kΩ (3 W), 10 kΩ (1 W) 70 V line: 330 Ω (15 W), 670 Ω (7.5 W), 2 kΩ (2.5 W), 3.3 kΩ (1.5 W), 10 kΩ (0.5 W)	
Sensitivity	86 dB (1 W, 1 m) (1 - 10 kHz, pink noise)	
Speaker Component	9 cm (3.5") Full-range PPcone-type	
Frequency Response	100 Hz - 20 kHz, -10 dB at installation in 1 /2 free sound field	
Directivity Angle	Horizontal: 100°, Vertical: 100°	
Compliance/Certifications	EN 54-24: 2008, UL 1480A (UEAY (outdoor use))	
IP Code	IP65	
Installation Environment	Indoor installation, Outdoor installation (*2) (*3)	
EN 54-24 specifications	Sensitivity: 73 dB (1 W, 4 m), Max. SPL: 85 dB (15 W, 4 m) Coverage Angle (-6 dB): Horizontal: 360° (500 Hz), 190° (1 kHz), 125° (2 kHz), 100°(4 kHz), Vertical: 360° (500 Hz), 150°(1 kHz), 130°(2 kHz), 110°(4 kHz) Environmental Type: B (outdoor applications), IP Code: IP33C	
Input Terminal	M4 screw terminal, distance between barriers: 9 mm (0.35")	
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)	
Applicable Cable	Cabtyre cable: Φ6 - Φ10 mm (0.24" - 0.39"), Solid wire, Twisted wire: 0.3 - 3.3 mm ² (AWG 22 - 12)	
Finish	Enclosure: HIPS, black (RAL 9011 equivalent), paint Grille: Aluminum, black (RAL 9011 equivalent), paint U bracket, Speaker bracket: Stainless steel, t2, black (RAL 9011 equivalent), paint	Enclosure: HIPS, white (RAL 9016 equivalent), paint Grille: Aluminum, white (RAL 9016 equivalent), paint U bracket, Speaker bracket: Stainless steel, t2, white (RAL 9016 equivalent), paint
Dimensions	130 (W) X 221 (H) X 132 (D) mm (5.12" X 8.7" X 5.2")	
Weight	1.7 kg (3.75 lb)	
Accessory	U bracket ---1, Speaker bracket ---2, Bracket fixing screw ---1 set, Terminal cover ---1, Terminal cover mounting screw ---4	

(*1) Rated noise power is defined by IEC60268-5. Continuous program is 3 dB above Rated noise power.

(*2) Avoid installing the speaker in areas with corrosive gases, such as coastal or hot spring areas, or in poorly ventilated indoor swimming facilities, or places with dust or strong wind. Corrosion may cause the speaker to fail, resulting in injury.

(*3) Keep the front part of speaker away from direct sunlight. Otherwise, ultraviolet rays deteriorate the speaker unit's cone, causing the speaker to malfunction.

Note : Bolts and nuts for mounting the bracket to the wall or ceiling are not included. Prepare them separately.

Specifications	F-05BT- WP-UE	F-05WT- WP-UE
Enclosure	Sealed type	
Power Handling Capacity (*1)	Rated noise power: 60 W (8 Ω), Continuous program: 120 W (8 Ω)	
Rated Input	30 W (100 V line, 70 V line)	
Rated Impedance	8 Ω 100 V line: 330 Ω (30 W), 1 kΩ (10 W), 3.3 kΩ (3 W), 10 kΩ (1 W) 70 V line: 170 Ω (30 W), 330 Ω (15 W), 1 kΩ (5 W), 3.3 kΩ (1.5 W), 10 kΩ (0.5 W)	
Sensitivity	89 dB (1 W, 1 m) (1 - 10 kHz, pink noise)	
Speaker Component	Low frequency: 13 cm (5") PPcone-type, High frequency: 25 mm (1") dome tweeter	
Frequency Response	80 Hz - 20 kHz, -10 dB at installation in 1/2 free sound field	
Crossover Frequency	4.5 kHz	
Directivity Angle	Horizontal: 100°, Vertical: 100°	
Compliance/Certifications	EN 54-24: 2008, UL 1480A (UEAY (outdoor use))	
IP Code	IP65	
Installation Environment	Indoor installation, Outdoor installation (*2) (*3)	
EN 54-24 specifications	Sensitivity: 76 dB (1 W, 4 m), Max. SPL: 91 dB (30 W, 4 m) Coverage Angle (-6 dB): Horizontal: 360° (500 Hz), 170° (1 kHz), 110° (2 kHz), 85°(4 kHz), Vertical: 360° (500 Hz), 150°(1 kHz), 115°(2 kHz), 35°(4 kHz) Environmental Type: B (outdoor applications), IP Code: IP33C	
Input Terminal	M4 screw terminal, distance between barriers: 9 mm (0.35")	
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)	
Applicable Cable	Cabtyre cable: Φ6 - Φ10 mm (0.24" - 0.39"), Solid wire, Twisted wire: 0.3 - 3.3 mm ² (AWG 22 - 12)	
Finish	Enclosure: HIPS, black (RAL 9011 equivalent), paint Grille: Aluminum, black (RAL 9011 equivalent), paint U bracket, Speaker bracket: Stainless steel, t2, black (RAL 9011 equivalent), paint	Enclosure: HIPS, white (RAL 9016 equivalent), paint Grille: Aluminum, white (RAL 9016 equivalent), paint U bracket, Speaker bracket: Stainless steel, t2, white (RAL 9016 equivalent), paint
Dimensions	160 (W) X 274 (H) X 164 (D) mm (6.38" X 10.79" X 6.46")	
Weight	2.8 kg (6.17 lb)	
Accessory	U bracket ---1, Speaker bracket ---2, Bracket fixing screw ---1 set, Terminal cover ---1, Terminal cover mounting screw ---4	

Specifications	F-08BT- WP-UE	F-08WT- WP-UE
Enclosure	Sealed type	
Power Handling Capacity (*1)	Rated noise power: 90 W (8 Ω), Continuous program: 180 W (8 Ω)	
Rated Input	60 W (100 V line, 70 V line)	
Rated Impedance	8 Ω 100 V line: 170 Ω (60 W), 330 Ω (30 W), 670 Ω (15 W), 3.3 kΩ (3 W) 70 V line: 83 Ω (60 W), 170 Ω (30 W), 330 Ω (15 W), 670 Ω (7.5 W), 3.3 kΩ (1.5 W)	
Sensitivity	90 dB (1 W, 1 m) (1 - 10 kHz, pink noise)	
Speaker Component	Low frequency: 20 cm (8") PPcone-type, High frequency: 25 mm (1") dome tweeter	
Frequency Response	70 Hz - 20 kHz, -10 dB at installation in 1/2 free sound field	
Crossover Frequency	3 kHz	
Directivity Angle	Horizontal: 100°, Vertical: 100°	
Compliance/Certifications	EN 54-24: 2008, UL 1480A (UEAY (outdoor use))	
IP Code	IP65	
Installation Environment	Indoor installation, Outdoor installation (*2) (*3)	
EN 54-24 specifications	Sensitivity: 75 dB (1 W, 4 m), Max. SPL: 92 dB (60 W, 4 m) Coverage Angle (-6 dB): Horizontal: 170° (500 Hz), 130° (1 kHz), 100° (2 kHz), 110°(4 kHz), Vertical: 150° (500 Hz), 130°(1 kHz), 100°(2 kHz), 90°(4 kHz) Environmental Type: B (outdoor applications), IP Code: IP33C	
Input Terminal	M4 screw terminal, distance between barriers: 9 mm (0.35")	
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)	
Applicable Cable	Cabtyre cable: Φ6 - Φ10 mm (0.24" - 0.39"), Solid wire, Twisted wire: 0.3 - 3.3 mm ² (AWG 22 - 12)	
Finish	Enclosure: HIPS, black (RAL 9011 equivalent), paint Grille: Aluminum, black (RAL 9011 equivalent), paint U bracket, Speaker bracket: Stainless steel, t2, black (RAL 9011 equivalent), paint	Enclosure: HIPS, white (RAL 9016 equivalent), paint Grille: Aluminum, white (RAL 9016 equivalent), paint U bracket, Speaker bracket: Stainless steel, t2, white (RAL 9016 equivalent), paint
Dimensions	251 (W) X 392 (H) X 216 (D) mm (9.88" X 15.43" X 8.5")	
Weight	5.5 kg (12.13 lb)	
Accessory	U bracket ---1, Speaker bracket ---2, Bracket fixing screw ---1 set, Terminal cover ---1, Terminal cover mounting screw ---4	

(*1) Rated noise power is defined by IEC60268-5. Continuous program is 3 dB above Rated noise power.

(*2) Avoid installing the speaker in areas with corrosive gases, such as coastal or hot spring areas, or in poorly ventilated indoor swimming facilities, or places with dust or strong wind. Corrosion may cause the speaker to fail, resulting in injury.

(*3) Keep the front part of speaker away from direct sunlight. Otherwise, ultraviolet rays deteriorate the speaker unit's cone, causing the speaker to malfunction.

Note : Bolts and nuts for mounting the bracket to the wall or ceiling are not included. Prepare them separately.