

# COMMERCIAL

SPEAKERS



**Klipsch**<sup>®</sup>

# TRUE STORY

## THE GENESIS OF SOMETHING VERY, VERY SPECIAL OCCURRED IN A TINY TIN SHED IN HOPE, ARKANSAS

in 1946 when Paul W. Klipsch, genius, madman and maverick, designed and hand-built the legendary Klipschorn® speaker with the goal of bringing live music into his living room. He was an American audio pioneer, a true eccentric and a proud member of the engineering and science hall of fame. He gave rise to speaker technologies that would forever impact generations of music lovers. His passion enabled theirs. Over time, Klipsch speakers have become the stuff of legends. People swear by our breakthroughs in modern acoustics, citing something akin to a religious experience with every listen.

For over 65 years, Klipsch has built premium loudspeakers with a no-compromise attitude, valued engineering for superior performance and high reliability, and adhered to sound principles pioneered by our founder, Paul W. Klipsch.

Remember great sound? We never forgot. It's time to unleash your venue's full potential.

**SOUND POWERFUL. SOUND LEGENDARY.**

# Klipsch®



# WHY KLIPSCH?

Every Klipsch speaker encompasses the four philosophies of speaker design pioneered by our founder, Paul W. Klipsch:

## HIGH EFFICIENCY

The highest sound output for a given wattage input

## LOW DISTORTION

Even the softest sounds are heard with clarity and detail, the loudest sounds without harshness or distortion

## CONTROLLED DIRECTIVITY

The accurate projection of sound which, in turn, allows even distribution of sound in a given area

## CONTROLLED FREQUENCY RESPONSE

Producing the required response to maximize various acoustic environments

Whether in the home, on the stage, in a house of worship, in a music club, in the cinema or in your favorite store or restaurant, our sound is uniquely detailed and clear. Our exclusive Tractrix® Horn-loaded technology reproduces truly engaging sound at even lower, background levels. With thousands of installations around the world and a dedicated team to back them up, Klipsch can provide the perfect sonic atmosphere for any setting.

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You need to make the best impression, from the initial job quote through the completed installation. We can help choose the best Klipsch speakers for the application and help design a system that thoroughly impresses.

Send your plans or questions to us at:  
[PROSYSTEMDESIGN@KLIPSCH.COM](mailto:PROSYSTEMDESIGN@KLIPSCH.COM)

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# PERMANENT INSTALLATIONS

MADE IN THE



CRAFTED WITH PRIDE IN  
HOPE, ARKANSAS

## MADE IN AMERICA: HOPE, ARKANSAS

IN 1946, PAUL W KLIPSCH, GENIUS & MAVERICK, HAND-BUILT HIS FIRST LOUDSPEAKER IN A TIN SHED WITH THE INTENTION OF BRINGING LIVE MUSIC INTO HIS LIVING ROOM. THE SOUND WAS NATURAL, POWERFUL, AND FRIGHTFULLY REAL. THE WORLD SAT UP AND LISTENED. TODAY, WE STILL MAKE THEM LIKE WE USED TO: BY HAND. WITH PASSION. WITH PRIDE. THOUSANDS OF RABID FANS SWEAR BY OUR SPEAKERS, CITING SOMETHING AKIN TO A RELIGIOUS EXPERIENCE WITH EVERY LISTEN. REMEMBER GREAT SOUND? WE DO, TOO. KLIPSCH'S KI SERIES IS MADE IN THE USA, BY PROUD CRAFTSMEN IN HOPE, ARKANSAS. JUST LIKE PWK INTENDED.

# KI SERIES PERMANENT INSTALL SPEAKERS

When Paul W. Klipsch introduced speakers such as the Klipschorn®, LaScala®, Heresy and Cornwall to the world, they not only became popular for home audio enjoyment but were utilized in many permanent commercial installations such as houses of worship, schools, studios and music clubs due to their clean, high output/low-distortion sound signatures. Today, our new KI line of Permanent Installation speakers is built not only to the Klipsch standards of high efficiency and low distortion but to address the specific needs and performance standards of the commercial industry with rock-solid reliability.

Tractrix® Horn-loaded Titanium compression drivers deliver detailed high and midrange frequencies in specifically controlled patterns. Woofers with large motor structures provide tight, musical-quality low frequencies. High current full-range passive crossovers allow high performance, while our exclusive KLIP-Circuit driver protection provides day-in/day-out reliability. Multiple flypoint cabinets are built for both resonance-free response and years of premium performance with dado lock-joint and rabbet construction. And little to no added equalization is needed for a KI speaker's prime sound quality to shine through.

KI Series low frequency systems are built to provide superior musical reinforcement and are capable of maximum driver excursion with very high output without undue stress on their drivers.



## THREE DIFFERENT FINISHES

KLIPSCH'S KI SERIES PERMANENT INSTALLATION SPEAKERS OFFER THREE FINISH OPTIONS AVAILABLE FOR ALL MODELS: RAW BIRCH, WHITE AND BLACK.



## KI-396-SMA-II HIGH OUTPUT 15" 2-WAY

- Very high output capability with exceptional low-distortion clarity
- Compact 22.5° symmetrical trapezoidal design
- 15" (38.1cm) high excursion cast frame heavy-duty woofer
- Large 3" (7.62cm) titanium diaphragm high frequency compression driver
- 90° x 50° Tractrix® Horn for tight pattern control
- 16 suspension points (4 per side) for flexible mounting and rigging bar compatibility
- Internal high current full-range crossover
- Black, White or Raw finish

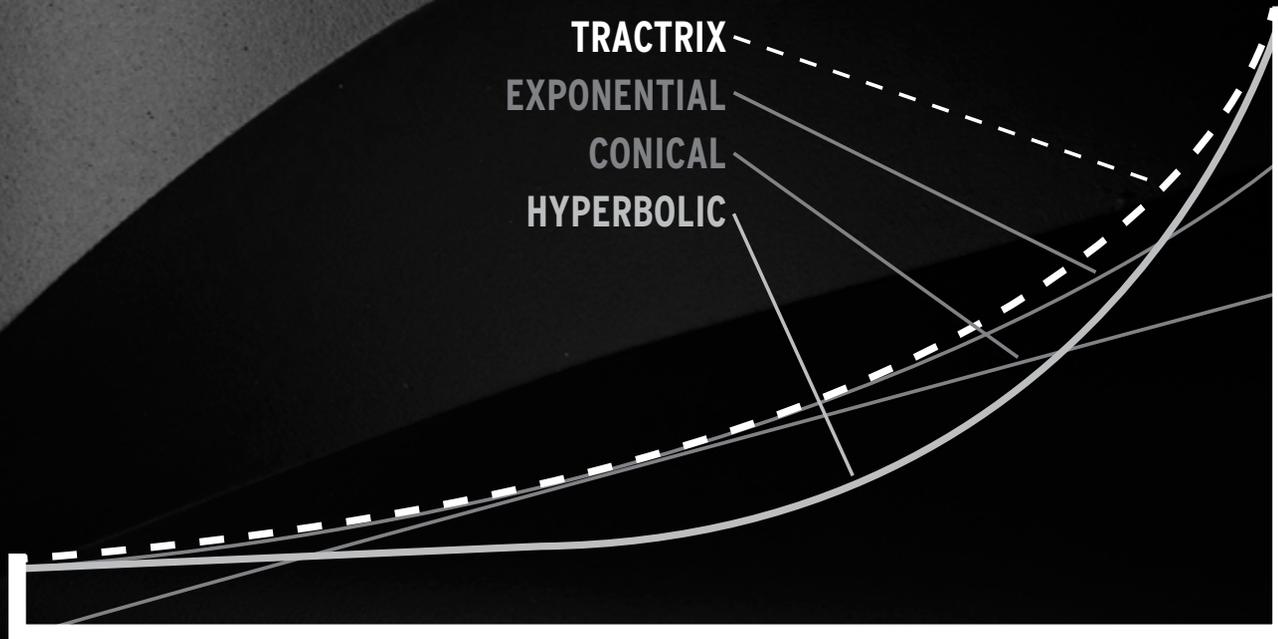
**Klipsch**<sup>®</sup>

# THE TRACTRIX® HORN

Klipsch uses a modified Tractrix equation horn geometry on its distributed audio speakers which gains the benefits of three distinct horn types and allows the sound wave to release from the horn with minimal reflections back into the horn. This, combined with the reduced depth of the Tractrix horn in relation to others, further reduces distortion and improves frequency response and overall sound clarity, even at low background volumes.



## THE TRACTRIX CURVE



# KI SERIES PERMANENT INSTALL SPEAKERS



## KI-362-SMA-II TRAPEZOIDAL 15" 3-WAY

- High output low-distortion three way system
- Rotatable midrange and HF drivers for 60° or 90° projection independent of speaker horizontal/vertical
- Compact 22.5° symmetrical trapezoidal design
- 15" (38.1cm) cast frame heavy-duty woofer with 3" voice coil
- 1" (2.54cm) titanium diaphragm high frequency compression driver
- 1.5" (3.81cm) titanium diaphragm midrange compression driver
- 90° x 60° Tractrix® Horn for tight pattern control
- Internal high current full-range crossover
- 16 suspension points (4 per side) for flexible mounting and rigging bar compatibility
- KLIP-circuit mid and HF driver protection devices
- Black, White or Raw finish



## KI-272-SMA-II MULTI-ANGLE 12" 2-WAY

- Multiple angle 45° and 65° asymmetrical design two-way speaker
- Perfect for angled wall, corner, ceiling or under-balcony mounting.
- Also designed for slanted floor or shelf use
- 12" (30.48cm) woofer and 1.75" (4.4cm) titanium diaphragm HF compression driver
- 60° x 40° Tractrix® Horn for tight pattern control
- Internal high current full-range crossover
- 12 suspension points
- KLIP-circuit HF driver protection devices
- Black, White or Raw finish



## KI-262-SMA-II TRAPEZOIDAL 12" 2-WAY

- Compact 22.5° symmetrical trapezoidal design two-way speaker
- 12" (30.48cm) woofer and 1.75" (4.4cm) titanium diaphragm HF compression driver
- 60° x 40° Tractrix® Horn for tight pattern control
- Internal high current full-range crossover
- 16 suspension points
- KLIP-circuit HF driver protection devices
- Black, White or Raw finish

**Klipsch**<sup>®</sup>

# KI SERIES PERMANENT INSTALL SPEAKERS



KI-102-SMA-II with SB-102 Bracket

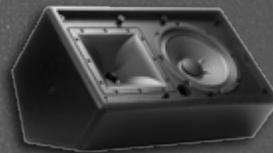
## KI-102-SMA-II

TRAPEZOIDAL 8" 2-WAY

- Compact 22.5° symmetrical trapezoidal design
- 115dB maximum output
- 8" (20.32cm) woofer and 1" (2.54cm) titanium diaphragm HF compression driver
- 90° X 90° Tractrix® Horn
- KLIP-circuit HF driver protection devices
- Top/Bottom attachments for optional Klipsch SB-102 U-shaped bracket
- Black, White or Raw finish

### ALSO AVAILABLE

KI-102-T-SMA-II with a 70 Volt, 60 Watt transformer



KI-172-SMA-II with SB-102 Bracket

## KI-172-SMA-II

MULTI-ANGLE 8" 2-WAY

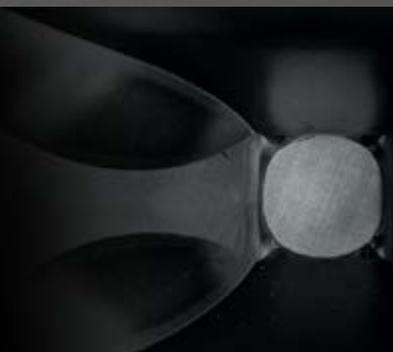
- A compact, two-way, high performance loudspeaker with sides slanted at 65° and 45°
- Excellent for placement at an angle or tight spaces
- 8" (20.32cm) woofer and 1" (2.54cm) titanium diaphragm HF compression driver
- 90° x 90° Tractrix® Horn
- KLIP-circuit HF driver protection devices
- Top/Bottom attachments for optional Klipsch SB-102 U-shaped bracket
- Black, White or Raw finish

## KLIP-CIRCUIT DRIVER PROTECTION

TO LIMIT POTENTIAL DAMAGE TO HIGH- AND MID-FREQUENCY DRIVERS, ALL KLIPSCH KI SERIES SPEAKERS WITH INTERNAL FULL-RANGE HIGH-CURRENT PASSIVE CROSSOVERS FEATURE THE KLIP-CIRCUIT, A PROPRIETARY HIGH-POWER OVERLOAD SYSTEM. WHEN CURRENT TO A DRIVER IS EXCEEDED IT CHANGES ITS RESISTANCE TO A HIGH VALUE AND REDUCES THE CURRENT TO PROTECT THE DRIVER FROM DAMAGE. WHEN INPUT IS REDUCED IT RETURNS TO NORMAL AND ALLOWS THE DRIVER TO PLAY AGAIN.

## "MUMPS" HORNS

THE ADDITION OF ELLIPSES OR "MUMPS" MOLDED INTO CALCULATED AREAS OF THE TRACTRIX® HORN ON THE KI-102-SMA-II, KI-172-SMA-II, KI-396-SMA-II AND KI-362-SMA-II FURTHER ENHANCES EVEN FREQUENCY DISPERSION ACROSS THE HORN'S COVERAGE AREA BY MODIFYING THE PROFILE OF THE HORN'S SHAPE TO PREVENT LOWER-FREQUENCY SOUNDS FROM "PULLING AWAY" FROM THE HORN'S BOUNDARY. THIS PATENTED GEOMETRIC DESIGN ALLOWS ALL HORN-GENERATED FREQUENCIES TO FOLLOW THE HORN CURVATURE AND PROVIDES THE MOST EVEN TOTAL COVERAGE IN A GIVEN AREA.



# KI SERIES PERMANENT INSTALL SUBWOOFERS



## KI-215-SMA-II TRAPEZOIDAL DUAL 15" SUBWOOFER

- High power dual 15" (38.1cm) trapezoidal low frequency speaker system
- Dual 15" (38.1cm) cast frame transducers with 3" voice coils
- 131 dB SPL maximum output
- 22.5° symmetrical trapezoidal design make it an ideal music reinforcement match with the KI-396, KI-362, KI-262 and KI-272 when using an external, active crossover
- Low 40 Hz cabinet tuning allows electronic EQ to be added for extended response without undue component stress
- 16 suspension points for flexible mounting and rigging bar compatibility
- Black, White or Raw finish



## KI-115-SMA-II SINGLE 15" SUBWOOFER

- High power 15" (38.1cm) driver low frequency speaker system
- 104 oz. (2.95kg) magnet with 3" (7.62 cm) voice coil for high sensitivity and superior power handling
- Specially designed motor assembly assures high transient cone excursions do not harm the voice coil under extreme output applications
- Four suspension points located on the back of the cabinet (face down orientation only)
- 125 dB SPL maximum output
- Compatible with Klipsch KI-102, KI-172, KI-262 and KI-272
- Black, White and Raw finish



## KPT-684-SMA DUAL 18" SUBWOOFER

- High power dual 18" (45.7cm) low frequency speaker system
- Dual 18" (45.7cm) cast frame transducers with 3" voice coils
- 130 dB SPL maximum output
- Extended low frequency response (-4dB, 34Hz, -10dB 25Hz unequalized)
- 4 suspension points on the top of the cabinet (horizontal orientation only) for rigging
- Black finish



KI-215-SMA-II with two KI-362-SMA-IIs

**Klipsch**<sup>®</sup>



# DISTRIBUTED AUDIO



## COMPACT PERFORMANCE SERIES

The CP-T Speaker Series maintains the classic Klipsch signature sound in a sleek design. Compact, stylish cabinets blend into almost any environment and up-front, one-screwdriver connections make the most efficient use of your valuable time. Unique, front-attach, integrated brackets combined with V-shaped rear profile cabinets allow the speakers to almost disappear tightly in a corner. Exclusive Tractrix® horns provide unmatched low-distortion, highly detailed sound and combine with long-throw woofers for excellent dynamics at any volume level. Solid, talc-filled cabinets with aluminum grills and stainless steel hardware will make the CP-T Speaker Series your perfect "Everyday Speakers" indoors or out.



### CP-4T

COMPACT FULL-RANGE  
3.5" 2-WAY

- .75" Aluminum tweeter mated to a 90° x 90° Tractrix® Horn
- 3.5" long-throw woofer
- Highly-efficient, low-distortion, musical sound
- Front access, one-screwdriver installation of bracket and wiring
- Tool-free angle adjustment
- Fixed, 5-watt tap
- Low resonance talc-filled PPC cabinets available in paintable Black or White
- Klipsch CA-800-TSW subwoofers recommended to compliment the CP-T series



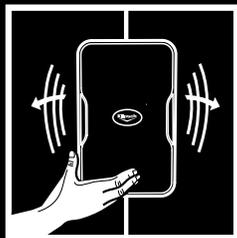
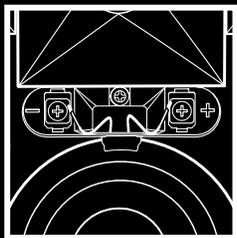
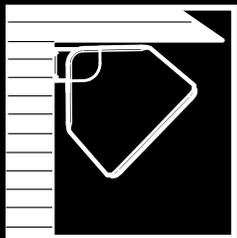
### CP-6T

COMPACT FULL-RANGE  
MULTI-TAP 5.25" 2-WAY

- .75" Aluminum tweeter mated to a 90° x 90° Tractrix horn
- 5.25" long-throw woofer
- 4 tap settings (up to 30 watt/70V) with an 8 ohm bypass for high versatility
- 111 dB maximum output (8 ohms)
- Front access, one-screwdriver installation of bracket and wiring
- Tool-free angle adjustment
- Low resonance talc-filled PPC cabinets available in paintable Black or White
- Klipsch CA-800-TSW subwoofers recommended to compliment the CP-T series

#### ALSO AVAILABLE

CP-6: Low impedance version

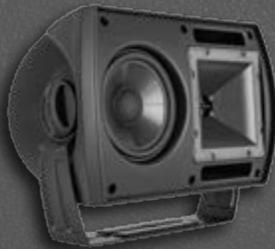


## EASY ONE SCREWDRIVER/UP FRONT INSTALL

KLIPSCH COMPACT PERFORMANCE SERIES SPEAKERS ALLOW YOU TO ATTACH THE BRACKET TO THE WALL OR IN THE CORNER, PUSH THE SPEAKER ONTO THE FIRST NOTCH OF THE BRACKET, CHANNEL THE WIRE TO THE FRONT AND ATTACH, HANDSET THE DESIRED SPEAKER/BRACKET ANGLE WITHOUT ADDITIONAL TOOLS, PUSH THE SPEAKER TO THE LAST BRACKET NOTCH AND SCREW DOWN THE BRACKET. NOT ONLY A FAST, UP-FRONT INSTALL BUT GIVES A CLEAN, UNIFORM LOOK THAT ESSENTIALLY INTEGRATES THE SPEAKER AND BRACKET TOGETHER AS ONE.

# COMMERICAL ALL-WEATHER SERIES

For years, Klipsch CA Series speakers have set the proper mood for small boutiques to mega sports bars to outdoor malls in thousands of installations around the world. Whether on their own or enhanced with their matching subwoofer they are known for high-performance in both sound and durability. 90° x 90° Tractrix® horns allow the speakers to be mounted horizontally or vertically without affecting coverage patterns. High-quality multi-tap transformers with 8 ohm bypasses let clean, realistic bass shine through at all volume levels. All models are in durable, UV-resistant all-weather Black or White paintable enclosures complimented by high-strength, zinc C-brackets.



## CA-525-T

FULL-RANGE 5.25" 2-WAY

- High sensitivity and power handling
- Built-in 30-Watt, 70V/100V high quality multi-tap transformer with 8-ohm bypass
- Black or White paintable UV-resistant, talc-filled PP enclosure with rustproof aluminum grille
- 90° x 90° Tractrix® horn tweeter for clean, clear highs
- Supplied with C-style mounting bracket and stainless steel hardware
- Available in Black or White



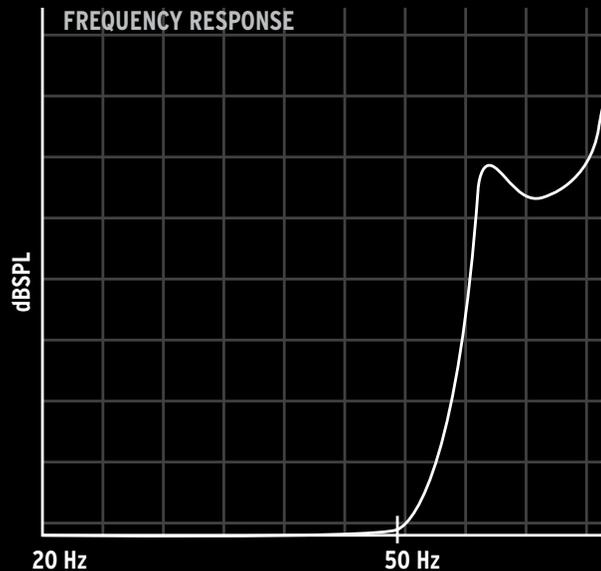
## CA-650-T

FULL-RANGE 6.5" 2-WAY

- The most popular CA series speaker
- 90° x 90° Tractrix® horn tweeter for clean, clear highs
- Very high sensitivity and power handling
- Built-in 60-Watt, 70V/100V high quality multi-tap transformer with 8-ohm bypass
- Supplied with C-style mounting bracket and stainless steel hardware
- Black or White paintable UV-resistant, talc-filled PP enclosure with rustproof aluminum grille
- Available in Black or White



# COMMERICAL ALL-WEATHER SERIES



## HIGH QUALITY SPEAKER TRANSFORMERS

THE USE OF LESS EXPENSIVE TRANSFORMERS IN SPEAKERS IN A 70/100V SYSTEM CAN SEVERELY DEGRADE FREQUENCY RESPONSE, ESPECIALLY IN LOW-END (BASS) RESPONSE, DUE TO LIMITS OF THE TRANSFORMER'S CORE, LEADING TO CORE SATURATION. KLIPSCH USES ONLY HIGH-QUALITY, LOW LOSS TRANSFORMERS WITH A MUCH HIGHER CORE SATURATION LIMIT IN OUR DISTRIBUTED AUDIO SPEAKERS, SIGNIFICANTLY REDUCING LOW-FREQUENCY COMPRESSION AND DISTORTION.



## CA-800-T

FULL-RANGE 8" 2-WAY

- Paintable UV-resistant, talc-filled PP enclosure with rustproof aluminum grille
- Very high sensitivity and power handling
- Built-in 60-Watt, 70V/100V high quality multi-tap transformer with 8-ohm bypass
- 90° x 90° Tractrix® horn tweeter for clean, clear highs
- Supplied with C-style mounting bracket and stainless steel hardware
- Available in Black or White



## CA-800-TSW

8" SUBWOOFER

- All-purpose 8-inch passive subwoofer
- Built-in 60-Watt, 70V/100V multi-tap transformer with 8-ohm bypass
- High quality, low-saturation transformer allows for realistic, deep bass
- Built-in 120 Hz low pass filter
- Very high sensitivity and power handling
- Supplied with C-style mounting bracket and stainless steel hardware
- Works perfectly with both CA series and CP-T series speaker systems
- Available in Black or White

**Klipsch**<sup>®</sup>

# 70-VOLT IN-CEILING SPEAKERS

When the benefits of in-ceiling speakers can be realized in a distributed audio system, Klipsch IC models provide even, full frequency coverage with clear, low distortion sound. Two models incorporate our exclusive Tractrix® horn with ellipses, or “mumps” which further enhance even coverage of all horn-generated frequencies. All models utilize both tractrix ports and high-quality transformers with less compression for clean, deep bass output with less distortion. All models include multiple, front-access, tap settings with 8 ohm bypasses. Reduced height backcans fit into tighter ceiling areas and all models are UL-2043 and UL-1480 certified. The IC Models include an integrated backcan and a tielbridge for whenever additional ceiling reinforcement is required.



## IC-400-T

FULL-RANGE 5.25" 2-WAY

- Compact design simplifies low-ceiling mounting
- Deep bass with less compression
- Tractrix® horn design for production-oriented applications
- Front-access, high quality multi-tap transformer with 8 ohm bypass
- Pairs well with Klipsch surface mount speakers
- Works with Klipsch KPH-525 Pendant Housing for high/no suspended ceiling installs
- Tile bridge included
- Pre-construction Mud Ring Kit available
- UL-2043 and UL-1480 certified
- Available in Black or White



NEW FOR 2015

## IC-500-T-SC

SHALLOW DEPTH 5.25" 2-WAY

- Compact design simplifies low-ceiling mounting
- Short back design for shallow ceilings
- Tractrix® horn design for production-oriented applications
- Front-access, high quality multi-tap transformer with 8 ohm bypass
- Pairs well with Klipsch surface mount speakers
- Works with Klipsch KPH-525 Pendant Housing for high/no suspended ceiling installs
- Tile bridge included
- Pre-construction Mud Ring Kit available
- UL-2043 and UL-1480 certified
- Available in White

## TRACTRIX® PORTS

JUST AS THE TRACTRIX CURVATURE DECREASES REFLECTIONS BACK INTO THE HORN FOR GREATER CLARITY, THE TRACTRIX PORTS ON ALL THREE KLIPSCH IN-CEILING DISTRIBUTED AUDIO SPEAKERS SIGNIFICANTLY REDUCE PORT “CHUFFING” AND ALLOW MORE OUTPUT BEFORE COMPRESSION THAN TYPICAL PORTS.



# 70-VOLT IN-CEILING SPEAKERS

## IC-525-T

FULL-RANGE 5.25" 2-WAY



- Deep bass with less compression
- Horn-loaded for clear sound in any location
- Front access, high quality multi-tap transformer with 8 ohm bypass
- Pairs well with Klipsch surface mount speakers
- Works with Klipsch KPH-525 Pendant Housing for high/no suspended ceiling installs
- Tile bridge included
- Pre-construction Mud Ring Kit available
- UL-2043 and UL-1480 certified
- Available in Black or White



## IC-650-T

FULL-RANGE 6.5" 2-WAY

- Deep bass with less compression
- Horn-loaded for clear sound in any location
- Front access, high quality multi-tap transformer with 8 ohm bypass
- Pairs well with Klipsch surface mount speakers
- Tile bridge included
- Pre-construction Mud Ring Kit available
- UL-2043 and UL-1480 certified
- Available in Black or White

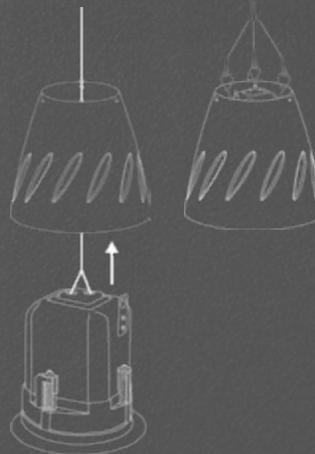


## KPH-525

PENDANT HOUSING

When overhead sound distribution is a challenge due to either a high or a lack of a suspended ceiling, the Klipsch KPH-525 Pendant Housing combines with either the Klipsch IC-400-T, IC-500-T-SC, or IC-525-T In-Ceiling speaker for an aesthetic, great sounding solution.

- Aluminum Pendant Housing in Black, White or paintable for customization
- Designed to specifically house either the Klipsch IC-400-T, IC-500-T-SC, or IC-525-T In-Ceiling 70/100 Volt speakers
- Perfect for high-ceiling structures or areas with no suspended ceiling for direct, overhead distributed sound
- Includes the necessary mounting hardware for typical suspended installation scenarios



## "MUMPS" HORNS

THE ADDITION OF ELLIPSES OR "MUMPS" MOLDED INTO CALCULATED AREAS OF THE TRACTRIX® HORN ON THE IC-525-T AND IC-650-T FURTHER ENHANCES EVEN FREQUENCY DISPERSION ACROSS THE HORN'S COVERAGE AREA BY MODIFYING THE PROFILE OF THE HORN'S SHAPE TO PREVENT LOWER-FREQUENCY SOUNDS FROM "PULLING AWAY" FROM THE HORN'S BOUNDARY. THIS PATENTED GEOMETRIC DESIGN ALLOWS ALL HORN-GENERATED FREQUENCIES TO FOLLOW THE HORN CURVATURE AND PROVIDES THE MOST EVEN TOTAL COVERAGE IN A GIVEN AREA.



# 70-VOLT IN-CEILING SPEAKERS

NEW FOR 2015

## IC-800-T

HIGH OUTPUT, FULL RANGE  
8" 2-WAY



- Deep bass with less compression
- Horn-loaded for clear sound in any location
- Front access, high quality multi-tap transformer with 8 ohm bypass
- Pairs well with Klipsch surface mount speakers
- Pre-construction Mud Ring Kit available
- Tile bridge included
- Available in White



## IC-SW-8T2

SINGLE 8" IN-CEILING  
SUBWOOFER

- Unique transformerless 4 voice coil, 70V/100V capability
- Bandpass design for low-distortion
- Extended, powerful bass
- Very high 111dB output capability
- Single-input 4-ohm or dual-input 8-ohm operation
- ABS baffle with removable, paintable powder-coated aluminum grille
- Pre-construction Mud Ring Kit available
- Tile bridge included
- Available in White

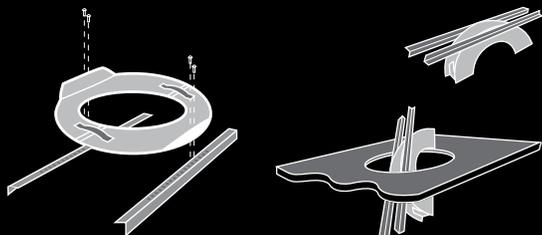


## A BETTER DISTRIBUTED AUDIO SUBWOOFER SOLUTION

THE KLIPSCH IC-SW-8T2 70/100V SUBWOOFER UTILIZES A UNIQUE TRANSFORMERLESS DESIGN FOR THE HIGHEST-PERFORMANCE IN EITHER BACKGROUND OR FOREGROUND MUSIC APPLICATIONS. SINCE TRANSFORMERS, THROUGH COMPRESSION THAT ESPECIALLY OCCURS AT LOW FREQUENCIES, CAN SEVERELY LIMIT A SUBWOOFER'S CAPABILITIES, THIS APPLICATION IS THE PERFECT SOLUTION WHEN BUILDING A GREAT SOUNDING COMMERCIAL SYSTEM. THE IC-SW-8T2 ALSO EMPLOYS A BANDPASS DESIGN THAT UTILIZES A PASSIVE RADIATOR INSTEAD OF A PORT, ELIMINATING TURBULENCE AND THE RESULTING DISTORTION OFTEN PRESENT IN PORTED DESIGNS. THE IC-SW-8T2 ALSO HAS THE ABILITY TO EASILY SWITCH FROM LOW IMPEDANCE TO HIGH IMPEDANCE DISTRIBUTED-LINE APPLICATIONS AS WELL AS MONO AND TWO-CHANNEL INPUTS IN LOW IMPEDANCE MODES.

## MAKE IT EASY FOR YOURSELF

ALL KLIPSCH IC SERIES SPEAKERS ARE SHIPPED COMPLETE WITH A FOLDABLE TILE BRIDGE FOR INSTALLATION IN SUSPENDED CEILINGS OR WHEREVER ADDITIONAL REINFORCEMENT OF THE CEILING MATERIAL IS REQUIRED.



## SPECIALTY SPEAKERS



### REFERENCE SOUNDBARS AND WIRELESS SUBWOOFERS

Reference Soundbars are more than just a larger and louder version of the diminutive TV speakers they are replacing. With proven technology consistently refined over Klipsch's legendary 68 years plus loudspeaker experience, horn-loading our soundbars increases sonic details and significantly improves dialogue clarity that is extremely lacking with most of today's flat panel TV's.



### REFERENCE POWERED SUBWOOFERS

Prepare to be moved. Reference Subwoofers are the perfect combination of power, sophisticated and heart-pounding bass.

Comprised of exclusive technologies, thunderous performance, and an acoustically perfected design, Reference subwoofers are ideal for high performance configurations.



### REFERENCE LOW IMPEDANCE ARCHITECTURAL SPEAKERS

Creating a benchmark in architectural audio excellence, the installer-friendly Reference Series architectural products deliver a level of realism and subtlety that surpasses and even intimidates competing designs.

Heard but not seen, our speakers will blend seamlessly into any environment without compromising the legendary Klipsch sound.

## SPECIALTY SPEAKERS



### KLIPSCH GALLERY® SERIES

Don't let the modern design fool you. Though slim and lightweight, the Klipsch Gallery Series still packs a deep, horn-loaded sound experience.

The symmetrical design that includes the proprietary Klipsch Tractrix Horn creates a 90° by 90° dispersion pattern, greatly expanding the listening area and providing pinpoint imaging. That same technology enables Klipsch Gallery to mount both vertically and horizontally and own any room.



### OUTDOOR LOW IMPEDANCE SPEAKERS

The Klipsch all-weather series is designed for those who expect great sound in the great outdoors. These rugged speakers can be installed almost anywhere and still deliver clean, clear, dynamic presentations. With excellent moisture resistance, this line offers big time sound and years of worry-free performance. All Klipsch outdoor models utilize paintable, and UV-resistant ABS enclosures with rustproof aluminum grilles.



# SPECIFICATIONS

## PERMANENT INSTALLATIONS

|                                      | KI-396-SMA-II  | KI-362-SMA-II   | KI-272-SMA-II   | KI-262-SMA-II   | KI-102-SMA-II  |
|--------------------------------------|--|---|---|---|--|
| FREQUENCY RESPONSE <sup>1</sup>      | 60Hz-18kHz +/- 3dB -10dB @ 35Hz  | 54Hz-20kHz +/- 3dB -10dB @ 38Hz   | 65Hz-20kHz +/- 3dB -10dB @ 47Hz   | 71Hz-20kHz +/- 3dB -10dB @ 57Hz   | 88Hz-17kHz +/- 3dB -10dB @ 56Hz  |
| POWER HANDLING <sup>2</sup>          | 600 watts (55V) (2400 watts peak)  | 400 watts (42V) (1600 watts peak)   | 300 watts (35V) (1200 watts peak)   | 300 watts (35V) (1200 watts peak)   | 200 watts (31V) (800 watts peak)   |
| CALC. MAX. CONT. OUTPUT <sup>3</sup> | 127dB (133dB peak)   | 124dB (130dB peak)  | 121dB (127dB peak)  | 121dB (127dB peak)  | 115dB (121dB peak)   |
| SENSITIVITY <sup>4</sup>             | 101dB  | 101dB   | 100dB   | 100dB   | 95dB   |
| COVERAGE                             | Horizontal 90° +/-30 500Hz-12kHz<br>Vertical 50° +/-20 1.6kHz-20kHz                    | Horizontal 90° +/-30 400Hz-12kHz<br>Vertical 50° +/-20 3kHz-20kHz   | Horizontal 40° +/-20 3.5kHz-20kHz<br>Vertical 60° +/-20 2kHz-20kHz                      | Horizontal 60° +/-15 2kHz-20kHz<br>Vertical 40° +/-20 4kHz-20kHz                        | Horizontal 90° +/-20 2.1kHz-19kHz<br>Vertical 90° +/-30 2.1kHz-20kHz                     |
| NOMINAL IMPEDANCE                    | 8 ohms, minimum 5.1 ohms @112Hz  | 8 ohms, minimum 4.4 oms @106Hz  | 8 ohms, minimum 4 ohms @146Hz   | 8 ohms, minimum 4.1 ohms @ 152Hz  | 8 ohms, minimum 4.9 ohms @184Hz  |
| OVERLOAD PROTECTION                  |  | KLIP Overload Protection Circuit-HF and MF  | KLIP Overload Protection Circuit-HF   | KLIP Overload Protection Circuit-HF   | KLIP Overload Protection Circuit-HF  |
| CROSSOVER FREQUENCY                  | 1kHz   | 1.26kHz and 6.8kHz  | 900Hz   | 900Hz   | 2KHz   |
| COMPONENTS                           | One K-48-ST 15" woofer<br>One KDE-75-8P 3" titanium compression driver on a K-510 horn | One K-48-ST 15" woofer<br>One K-53-TI 1.5" titanium compression driver on a K-703M horn<br>One K-100-TI 1" titanium compression driver on a K-79-T horn | One K-281-EP 12" woofer<br>One K-70-G 1.75" titanium compression driver on a K-604 horn | One K-281-EP 12" woofer<br>One K-70-G 1.75" titanium compression driver on a K-604 horn | One K-81-ST " woofer<br>One K-103-TI-KP 1" titanium compression driver on a K-802-M horn |
| INPUT CONNECTORS                     | Two point barrier strip  | Two point barrier strip   | Two point barrier strip   | Two point barrier strip   | Two point barrier strip  |
| MOUNTING OPTIONS                     | Sixteen 3/8"-16 flypoints  | Sixteen 3/8"-16 flypoints   | Twelve 3/8"-16 flypoints  | Sixteen 3/8"-16 flypoints   | 2 screw: 1/4" x 20 Machine screw for SB-102 Bracket                                      |
| ENCLOSURE MATERIAL                   | 3/4" 7-ply birch plywood cabinet<br>1" MDF motorboard                                  | 3/4" 7-ply birch plywood cabinet<br>1" MDF motorboard   | 3/4" 7-ply birch plywood cabinet<br>1" MDF motorboard                                   | 3/4" 7-ply birch plywood cabinet<br>1" MDF motorboard                                   | 3/4" MDF   |
| HEIGHT                               | 34.3" (87.12cm)  | 34.3" (87.12cm)   | 17" (43.18cm)   | 23" (58.42cm)   | 18.9" (48.00cm)  |
| WIDTH                                | 19.8" (50.29cm) Front<br>6.8" (17.27cm) Rear   | 19.8" (50.29cm) Front<br>6.8" (17.27cm) Rear  | 23" (58.42cm) Front   | 17" (43.18cm) Front<br>6.8" (17.27cm) Rear  | 11.6" (29.46cm) front<br>4.2" (10.67cm) rear   |
| DEPTH                                | 16" (40.64cm)  | 16" (40.64cm)   | 15.8" (40.13cm)   | 12.6" (32.03cm)   | 9.2" (23.37cm)   |
| WEIGHT                               | 76 lbs. (34.54kg)  | 70 lbs. (31.81kg)   | 51 lbs. (23.18kg)   | 49 lbs. (22.27kg)   | 24lbs. (10.90kg)   |
| FINISHES                             | Black, White and Raw   | Black, White and Raw  | Black, White and Raw  | Black, White and Raw  | Black, White and Raw   |
| ACCESSORIES                          |  |   |   |   | SB-102 Mounting Bracket  |

<sup>1</sup> 3M, Half-space anechoic

<sup>2</sup> AES standard, continuous pink noise, 6dB peaks

<sup>3</sup> Calculated at 1M half-spaced at power handling power input

<sup>4</sup> SPL at 1M, half-spaced anechoic with 2.83 volts input

# SPECIFICATIONS

## PERMANENT INSTALLATIONS

|                                      | KI-172-SMA-II  | KI-215-SMA-II  | KI-115-SMA-II                        | KPT-684-SMA   |
|--------------------------------------|--|--|--------------------------------------|---|
| FREQUENCY RESPONSE <sup>1</sup>      | 74Hz-17kHz +/- 3dB -10dB @ 48Hz  | 70Hz-2.4kHz +/- 3dB -10dB @ 53Hz                               | 49Hz-200Hz +/- 3dB -10dB 35Hz        | 36Hz-800Hz +/- 3dB<br>25Hz-2.2k Hz -10dB  |
| POWER HANDLING <sup>2</sup>          | 200 watts (31V) (800 watts peak)   | 800 watts (53V) (3200 watts peak)                              | 400 watts (44.7V) (1600 watts peak)  | 600 watts (65V) (2400 watts peak) per woofer                                    |
| CALC. MAX. CONT. OUTPUT <sup>3</sup> | 115dB (121dB peak)   | 130dB (136dB peak)   | 124dB (130dB peak)                   | 132dB (138dB peak)  |
| SENSITIVITY <sup>4</sup>             | 95dB   | 105dB  | 101dB                                | 105dB   |
| COVERAGE                             | Horizontal 90° +/-30 2.5kHz-20kHz<br>Vertical 90° +/-20 2.1kHz-20kHz                             |  |                                      |   |
| NOMINAL IMPEDANCE                    | 8 ohms, minimum 4.7 ohms @184Hz  | 8 ohms, minimum 3.5 ohms @42Hz                                 | 8 ohms, minimum 5 ohms @39Hz         | 8 ohms, 3.6 Ohms Minimum @ 22Hz<br>woofers wired in parallel                    |
| OVERLOAD PROTECTION                  | KLIP Overload Protection Circuit-HF  |  |                                      |   |
| CROSSOVER FREQUENCY                  | 2kHz   |  |                                      |   |
| COMPONENTS                           | One K-81-ST 8" woofer<br>One K-103-TI-KP-1" titanium compression driver on a K-802 -M horn       | Two K-45-ST 15" woofer   | One K-48-ST 15" woofer               | Two K-47-EP2 18" Woofers  |
| INPUT CONNECTORS                     | Two point barrier strip  | Two point barrier strip  | Two point barrier strip              | Four point barrier strip  |
| MOUNTING OPTIONS                     | 4 - 1/4" -20 screw pattern for Mounting Bracket<br>2 - 1/4" -20 screw pattern for SB-102 Bracket | Sixteen 3/8"-16 flypoints                                      | Four 3/8"-16 flypoints on back panel | Four 3/8"-16 flypoints on top panel   |
| ENCLOSURE MATERIAL                   | 3/4" MDF   | 3/4" 7-ply birch plywood cabinet<br>1" (2.54cm) MDF motorboard | 3/4" 7-ply birch plywood             | .75" (19mm) 7-Ply Plywood cabinet<br>1" (2.54cm) 9-ply birch plywood motorboard |
| HEIGHT                               | 11.4" (28.96 cm)   | 34.3" (87.12cm)  | 18.5" (46.99cm)                      | 48.75" (123.83cm)   |
| WIDTH                                | 18.9" (48.00cm)  | 19.8" (50.29cm) Front<br>6.8" (17.27cm) Rear                   | 24.6" (62.48cm)                      | 23.5" (59.7cm)  |
| DEPTH                                | 10.6" (26.92cm)  | 16" (40.64cm)  | 19.2" (48.77cm)                      | 30.5" (77.47cm)   |
| WEIGHT                               | 27 lbs. (12.24kg)  | 81 lbs. (36.82kg)  | 62 lbs. (28.18kg)                    | 190 lbs. (86.18kg)  |
| FINISHES                             | Black, White and Raw   | Black, White and Raw   | Black, White and Raw                 | Black   |
| ACCESSORIES                          | SB-102 Mounting Bracket  |  |                                      |   |

<sup>1</sup> 3M, Half-space anechoic

<sup>2</sup> AES standard, continuous pink noise, 6dB peaks

<sup>3</sup> Calculated at 1M half-spaced at power handling power input

<sup>4</sup> SPL at 1M, half-spaced anechoic with 2.83 volts input

# SPECIFICATIONS

## COMPACT PERFORMANCE SERIES

## COMMERCIAL ALL-WEATHER SERIES

### CP-4T & CP-4

### CP-6T

### CA-525-T

### CA-650-T

### CA-800-T

### CA-800-TSW

|  |   |  |   |  |  |  |
|--|---|--|---|--|--|--|
| <b>FREQUENCY RESPONSE<sup>1</sup></b>    | CP-4T: 100Hz-22kHz +/- 3dB<br>CP-4: 80Hz-22kHz +/- 3dB            | 83Hz-22kHz +/- 3dB                                   | 75-20kHz +/- 3dB  | 69-20kHz +/- 3dB   | 64Hz-23kHz +/- 3dB   | 51Hz-135Hz +/- 3dB - 10dB @ 42Hz                               |
| <b>POWER HANDLING<sup>2</sup></b>        | CP-4T: 5w fixed @ 70V / 10w fixed @ 100V<br>CP-4: 50w (200w peak) | 75w (300w peak) *                                    | 75w (19V) (150w peak) *   | 85w (19V) *  | 100w (21V) *   | 150w (25V) *   |
| <b>MAX CONTINUOUS OUTPUT<sup>3</sup></b> | CP-4T: 94dB @ 70V / 97 dB @ 100V<br>CP-4: 105dB                   | 111 dB (117dB peak) *                                | 110dB (116dB peak)  | 111dB (117dB peak)   | 113dB (119dB peak)   | 111dB (117dB peak)   |
| <b>SENSITIVITY<sup>4</sup></b>           | CP-4: 91dB  | 94dB   | 94dB  | 95dB   | 96dB   | 92dB   |
| <b>NOMINAL IMPEDANCE</b>                 | CP-4T: N/A CP-4: 8 ohm  | 8 ohm *  | 8 ohm *   | 8 ohm *  | 8 ohm *  | 6 ohms (4 ohm min @ 92Hz)                                      |
| <b>TWEETER</b>                           | .75" (1.9cm) Aluminum compression driver                          | .75" (1.9cm) Aluminum compression driver             | 1" (2.54cm) Titanium diaphragm compression driver                 | 1" (2.54cm) Titanium diaphragm compression driver              | 1" (2.54cm) Titanium diaphragm compression driver              | 1" (2.54cm) Titanium diaphragm compression driver              |
| <b>HIGH FREQUENCY HORN</b>               | 90° x 90° Tractrix® Horn  | 90° x 90° Tractrix® Horn                             | 90° x 90° Tractrix® Horn  | 90° x 90° Tractrix® Horn                                       | 90° x 90° Tractrix® Horn                                       | 90° x 90° Tractrix® Horn                                       |
| <b>WOOFER</b>                            | 3.5" (8.9cm) long-throw IMG woofer                                | 5.25" (13.3cm) long-throw IMG woofer                 | 5.25" (13.3cm) IMG woofer   | 6.5" (16.5cm) IMG woofer                                       | 8" (20.32cm) IMG woofer  | 8" (20.32cm) IMG woofer  |
| <b>CROSSOVER FREQUENCY</b>               | 3.2kHz  | 3kHz   | 2.9kHz  | 1.9kHz   | 1.9kHz   | 12dB octave low-pass @ 150Hz                                   |
| <b>TAP SETTINGS</b>                      | 5 watt fixed @ 70V<br>10 watt fixed @ 100V                        | 3.75w, 7.5w, 15w, 30w @ 70V<br>7.5w, 15w, 30w @ 100V | 1.8w, 3.75w, 7.5w, 15w, 30w @ 70V<br>3.75w, 7.5w, 15w, 30w @ 100V | 3.75w, 7.5w, 15w, 30w, 60w @ 70V<br>7.5w, 15w, 30w, 60w @ 100V | 3.75w, 7.5w, 15w, 30w, 60w @ 70V<br>7.5w, 15w, 30w, 60w @ 100V | 3.75w, 7.5w, 15w, 30w, 60w @ 70V<br>7.5w, 15w, 30w, 60w @ 100V |
| <b>ENCLOSURE TYPE</b>                    | Bass-reflex via dual front-firing ports                           | Bass-reflex via dual front-firing ports              | Bass-reflex via dual front-firing ports                           | Bass-reflex via dual front-firing ports                        | Bass-reflex via dual front-firing ports                        | Bass-reflex via dual front-firing ports                        |
| <b>ENCLOSURE MATERIAL</b>                | Talc-filled PPC   | Talc-filled PPC                                      | Talc-filled PPC   | Talc-filled PPC  | Talc-filled TPC  | Talc-filled TPC  |
| <b>WEIGHT</b>                            | 4.8 lbs. (2.2kg)  | 6.9 lbs. (3.1kg)                                     | 9 lbs. (4.1kg)  | 13 lbs. (5.9kg)  | 18 lbs. (8.16kg)   | 20 lbs. (9.07kg)   |
| <b>DIMENSIONS</b>                        | 8.8" (22.4cm) H x 5.5" (14.0cm) W x 4.7" (11.9cm) D               | 11.0" (27.9cm) H x 7.0" (17.8cm) W x 6.1" (15.5cm) D | 8.13" (20.64cm) H x 12.0" (30.48cm) W x 8.875" (22.5cm) D         | 9.5" (24.13cm) H x 15.2" (38.6cm) W x 10.9" (27.6cm) D         | 11.13" (28.26cm) H x 16.38" (41.53cm) W x 12.31" (31.27cm) D   | 11.13" (28.26cm) H x 16.38" (41.53cm) W x 12.31" (31.27cm) D   |
| <b>DIMENSIONS WITH WALL MOUNT</b>        | 8.8" (22.4cm) H x 5.5" (14.0cm) W x 5.5" (14.0cm) D               | 11.0" (27.9cm) H x 7.0" (17.8cm) W x 6.9" (17.5cm) D |   |  |  |  |
| <b>FINISHES</b>                          | White/Black enclosure and grill                                   | White/Black enclosure and grill                      | White/Black enclosure and grill                                   | White/Black enclosure and grill                                | White/Black enclosure and grill                                | White/Black enclosure and grill                                |
| <b>WIRE GAUGE ACCOMMODATED</b>           | 16  | 16   | 14 AWG  | 14 AWG   | 14 AWG   | 14 AWG   |

\* 8 OHM BYPASS

<sup>1</sup> 3M, half space anechoic

<sup>2</sup> AES standard, continuous pink noise 50Hz - 10k Hz, 6dB peaks

<sup>3</sup> Calculated at 1M at power handling power input, 8 ohm mode

<sup>4</sup> SPL at 1M, half space anechoic with 2.83V input



# SPECIFICATIONS

## 70-VOLT IN-CEILING SPEAKERS

|                                    | IC-400-T  | IC-500-T-SC   | IC-525-T   | IC-650-T  | IC-800-T   | IC-SW-8T2   |
|------------------------------------|---|---|--|---|--|---|
| FREQUENCY RESPONSE <sup>1</sup>    | 70-20k Hz +/- 4dB                                     | 95Hz-20kHz +/- 4dB                                    | 65-20k Hz +/- 4dB                                  | 50-20k Hz +/- 4dB                                 | 49Hz-20kHz +/- 4dB                                   | 50Hz-130Hz +/- 4dB  |
| POWER HANDLING <sup>2</sup>        | 50w (14.5V) (200w peak) *                             | 50w (14.5V) (200w peak) *                             | 65w (16.5V) (260w peak) *                          | 80w (18.8V) (320w peak) *                         | 150w (27V) (600w peak) *                             | 150w (27V) (600w peak) *                                    |
| MAX CONTINUOUS OUTPUT <sup>3</sup> | 100dB (106dB)   | 101dB (107dB)   | 104dB (110dB)                                      | 106dB (112dB)                                     | 111dB (117dB)  | 111dB (117dB)   |
| SENSITIVITY <sup>4</sup>           | 86dB  | 87dB  | 89dB   | 90dB  | 92dB   | 92dB  |
| NOMINAL IMPEDANCE                  | 8 ohm *   | 8 ohm *   | 8 ohm *  | 8 ohm *   | 8 ohm *  | 8 ohm *   |
| TWEETER                            | 1" (2.54cm) Titanium diaphragm compression driver     | 1" (2.54cm) Titanium diaphragm compression driver     | 1" (2.54cm) Titanium diaphragm compression driver  | 1" (2.54cm) Titanium diaphragm compression driver | 1" (2.54cm) Titanium diaphragm compression driver    | 1" (2.54cm) Titanium diaphragm compression driver           |
| HIGH FREQUENCY HORN                | 90° x 90° Tractrix® horn                              | 80° Tractrix® horn                                    | 105° Tractrix® Horn                                | 105° Tractrix® Horn                               | 75° Tractrix® Horn                                   |   |
| WOOFER                             | 5" (12.7cm) woofer                                    | 5" (12.7cm) woofer                                    | 5.25" (12.7cm) woofer                              | 6.5" (16.51cm) woofer                             | 8" (20.32cm) woofer                                  | 8" (20.32cm) woofer and 8" (20.32cm) drone passive radiator |
| TAP SETTINGS                       | 1.9w, 3.8w, 7.5w, 15w @ 70V<br>3.8w, 7.5w, 15w @ 100V | 1.9w, 3.8w, 7.5w, 15w @ 70V<br>3.8w, 7.5w, 15w @ 100V | 3.8w, 7.5, 15w, 30w @ 70V<br>7.5w, 15w, 30w @ 100V | 7.5w, 15w, 30w, 60w @ 70V<br>15w, 30w, 60w @ 100V | 12.5w, 25w, 50w, 100w @ 70V<br>100w, 50w, 25w @ 100V | 30w, 60w @ 70V<br>60w, 120w @ 100V                          |
| ENCLOSURE TYPE                     | Bass-reflex via Tractrix port                         | Bass-reflex via Tractrix port                         | Bass-reflex via Tractrix port                      | Bass-reflex via Tractrix port                     | Bass-reflex via Tractrix port                        | Bandpass via drone passive radiator                         |
| WEIGHT                             | 6.25 lbs. (2.83kg)                                    | 5.5 lbs (2.5kg)                                       | 8.25 lbs. (3.74kg)                                 | 11.25 lbs. (71.44kg)                              | 21 lbs. (9.5kg)                                      | 23 lbs. (10.43kg)   |
| CUTOUT DIMENSIONS                  | 9.125" (23.2cm) diameter                              | 9.125" (23.2cm) diameter                              | 9.125" (23.2cm) diameter                           | 10.13" (25.72cm) diameter                         | 12.625" (32.1cm) diameter                            | 12.625" (32.1cm) diameter                                   |
| MOUNTING DEPTH                     | 7.31" (18.58cm)                                       | 4.125" (10.5cm)                                       | 8.31" (21.12cm)                                    | 10.63" (27cm)                                     | 12.75" (32.4cm)                                      | 12.75" (32.4cm)   |
| OVERALL DEPTH                      | 7.5" (19.05cm)  | 4.375" (11.1cm)                                       | 8.5" (21.59cm)                                     | 10.94" (27.79cm)                                  | 13.125" (33.3cm)                                     | 13.125" (33.3cm)  |
| OVERALL WIDTH                      | 10.75" (27.3cm) diameter                              | 10.75" (27.3cm) diameter                              | 10.75" (27.3cm) diameter                           | 10.75" (27.31cm) diameter                         | 14.15" (35.9cm) diameter                             | 14.15" (35.9cm) diameter                                    |
| THRU HOLE WIDTH                    | 9" (22.86cm)  | 9" (22.8cm)   | 9" (22.86cm)                                       | 10" (25.4cm)                                      | 12.5" (31.75cm)                                      | 12.5" (31.75cm)   |
| FINISHES                           | White/Black   | White   | White/Black  | White/Black                                       | White  | White   |
| WIRE GAUGE ACCOMMODATED            | 14 AWG  | 14 AWG  | 14 AWG   | 14 AWG  | 14 AWG   | 14 AWG  |
| PRE-CONSTRUCTION MUD RING          | 1010413   | 1010413   | 1010413  | 1010414   | 061347   | 061347  |

\* 8 OHM BYPASS

<sup>1</sup> 3M, half space anechoic

<sup>2</sup> AES standard, continuous pink noise 50Hz - 10k Hz, 6dB peaks

<sup>3</sup> Calculated at 1M at power handling power input, 8 ohm mode

<sup>4</sup> SPL at 1M, half space anechoic with 2.83V input

# SPECIFICATIONS

## REFERENCE SOUNBARS

### R-10B

|                                     |   |
|-------------------------------------|---|
| <b>SPEAKER SYSTEM</b>               | 2-way soundbar with 8" wireless subwoofer   |
| <b>PEAK AMPLIFIER OUTPUT</b>        | 250 Watts peak system power   |
| <b>SYSTEM FREQUENCY RESPONSE</b>    | 29Hz-20kHz +/- 3dB  |
| <b>SUBWOOFER FREQUENCY RESPONSE</b> | 29Hz-142Hz +/- 3dB  |
| <b>MAX ACOUSTIC OUTPUT</b>          | 110dB   |
| <b>TWEETER</b>                      | Two .75" (19mm) textile dome tweeters mated to dual 90° x 90° Tractrix® Horns                                 |
| <b>MIDRANGE</b>                     | Two 3" (76mm) polypropylene drivers   |
| <b>SUBWOOFER</b>                    | One 8" (203mm) side-firing fiber composite cone/ported enclosure. MDF cabinet                                 |
| <b>INPUTS</b>                       | 1 Optical digital, 1 Stereo RCA, <i>Bluetooth</i> ® with aptX™ audio coding technology                        |
| <b>SOUNDBAR DIMENSIONS</b>          | 40" (101.6cm) W x 2.8" (7.1cm) D x 4.1" (10.5cm) H  |
| <b>SUBWOOFER DIMENSIONS</b>         | 8.3" (21cm) W x 16" (40.6cm) D x 13.2" (33.6cm) H   |
| <b>WEIGHT</b>                       | Soundbar: 7 lbs. (3.2 kg)<br>Subwoofer: 25.1 lbs. (11.4 kg)   |
| <b>FINISH</b>                       | Soundbar: Satin black<br>Subwoofer: Brushed Black Vinyl<br>Grille: Perforated Metal                           |
| <b>MOUNTING OPTIONS</b>             | Two built-in keyhole mounts for wall mounting, also includes removable rubber feet for tabletop positioning   |
| <b>INCLUDED ACCESSORIES</b>         | One 1.5m optical cable, one pair of rubber feet, one wall mounting template, one remote control, power supply |

### R-20B

|                                     |   |
|-------------------------------------|---|
| <b>SPEAKER SYSTEM</b>               | 2-way soundbar with 10" wireless subwoofer  |
| <b>PEAK AMPLIFIER OUTPUT</b>        | 250 Watts peak system power   |
| <b>SYSTEM FREQUENCY RESPONSE</b>    | 27.5Hz - 20kHz +/- 3dB  |
| <b>SUBWOOFER FREQUENCY RESPONSE</b> | 27.5Hz - 129Hz +/- 3dB  |
| <b>MAX ACOUSTIC OUTPUT</b>          | 113dB   |
| <b>TWEETER</b>                      | Two .75" (19mm) textile dome tweeters mated to dual 90° x 90° Tractrix® Horns   |
| <b>MIDRANGE</b>                     | Four 3" (76mm) polypropylene drivers  |
| <b>SUBWOOFER</b>                    | One 10" (254mm) side-firing fiber composite cone/ported enclosure. MDF cabinet  |
| <b>INPUTS</b>                       | 1 Optical digital, 1 Stereo RCA, <i>Bluetooth</i> ® with aptX™ audio coding technology                                  |
| <b>SOUNDBAR DIMENSIONS</b>          | 40" (101.6cm) W x 2.8" (7.1cm) D x 4.1" (10.5cm) H  |
| <b>SUBWOOFER DIMENSIONS</b>         | 9.1" (23cm) W x 18" (46cm) D x 13.7" (35cm) H   |
| <b>WEIGHT</b>                       | Soundbar: 8.5 lbs (3.9 kg)<br>Subwoofer: 26 lbs (11.8 kg)   |
| <b>FINISH</b>                       | Soundbar: Satin black<br>Subwoofer: Brushed Black Vinyl<br>Grille: Perforated Metal                                     |
| <b>MOUNTING OPTIONS</b>             | Two built-in keyhole mounts for wall mounting, also includes removable rubber feet for tabletop positioning             |
| <b>INCLUDED ACCESSORIES</b>         | One 1.5m optical cable, one pair of rubber feet, one wall mounting template, one ergonomic remote control, power supply |

## REFERENCE POWERED SUBWOOFERS

### R-10SW

|                                |   |
|--------------------------------|---|
| <b>FREQUENCY RESPONSE</b>      | 32Hz-120Hz +/-3dB                                     |
| <b>MAXIMUM ACOUSTIC OUTPUT</b> | 112dB   |
| <b>AMPLIFIER</b>               | All digital   |
| <b>AMPLIFIER POWER</b>         | 150W / 300W   |
| <b>DRIVE COMPONENTS</b>        | 10" (25.4cm) high excursion, IMG, front-firing woofer |
| <b>ENCLOSURE MATERIAL</b>      | MDF   |
| <b>ENCLOSURE TYPE</b>          | Bass Reflex   |
| <b>INPUTS</b>                  | Line level/LFE RCA jacks                              |
| <b>HEIGHT</b>                  | 14" / 35.56 cm (14.5" with feet)                      |
| <b>WIDTH</b>                   | 12.5" / 31.75 cm                                      |
| <b>DEPTH</b>                   | 15.7" / 39.8 cm (16.4" with grille)                   |
| <b>WEIGHT</b>                  | 25.5 lbs (11.6 kg)                                    |
| <b>FINISH</b>                  | Brushed Black Polymer Veneer                          |
| <b>FEATURES</b>                | Volume, Lowpass, Phase, Auto Power                    |
| <b>PHASE</b>                   | Switchable 0-180 degrees                              |

### R-12SW

|                                |  |
|--------------------------------|--|
| <b>FREQUENCY RESPONSE</b>      | 29Hz-120Hz +/-3dB  |
| <b>MAXIMUM ACOUSTIC OUTPUT</b> | 116dB  |
| <b>AMPLIFIER</b>               | All digital  |
| <b>AMPLIFIER POWER</b>         | 200W / 400W  |
| <b>DRIVE COMPONENTS</b>        | 12" (30.5 cm) high excursion, IMG, front-firing woofer         |
| <b>ENCLOSURE MATERIAL</b>      | MDF  |
| <b>ENCLOSURE TYPE</b>          | Bass Reflex  |
| <b>INPUTS</b>                  | L/R line-level RCA jacks, L/R high level speaker binding posts |
| <b>HEIGHT</b>                  | 16" / 40.64 cm (16.5" with feet)                               |
| <b>WIDTH</b>                   | 14" / 35.56 cm   |
| <b>DEPTH</b>                   | 18.5" / 47 cm (19.2" with grille)                              |
| <b>WEIGHT</b>                  | 33 lbs (15 kg)   |
| <b>FINISH</b>                  | Brushed Black Polymer Veneer                                   |
| <b>FEATURES</b>                | Volume, Lowpass, Phase, Auto Power                             |
| <b>PHASE</b>                   | Switchable 0-180 degrees                                       |



# SPECIFICATIONS

## REFERENCE LOW IMPEDANCE ARCHITECTURAL SPEAKERS

|                             | R-1650-C  | R-1650-CSM   | R-1800-C  | R-2650-C II   | R-2650-CSM II  | R-2800-CSM II  |
|-----------------------------|---|--|---|---|--|--|
| <b>FREQUENCY RESPONSE</b>   | 57Hz-20kHz +/- 3dB  | 50Hz-20kHz +/- 3dB   | 56Hz-20kHz +/- 3dB  | 77Hz-20kHz +/- 3dB  | 75Hz-20kHz +/- 3dB   | 65Hz-20kHz +/- 3dB   |
| <b>SENSITIVITY</b>          | 91dB @ 2.83V/1 meter  | 87dB @ 2.83V/1 meter   | 89dB @ 2.83V/1 meter  | 91dB @ 2.83V/1 meter  | 92dB @ 2.83V/1 meter   | 93dB @ 2.83V/1 meter   |
| <b>IMPEDANCE</b>            | 8 ohms compatible   | 8 ohms compatible  | 8 ohms compatible   | 8 ohms compatible   | 8 ohms   | 8 ohms compatible  |
| <b>POWER HANDLING</b>       | 35W (140W peak)   | 35W (140W peak)  | 40W (160W peak)   | 50W (200W peak)   | 50W (200W peak)  | 50W (200W peak)  |
| <b>DRIVE COMPONENTS</b>     | Two-way system using one 1" (2.5cm) polymer dome, liquid-cooled tweeter and one 6.5" (16.5cm) poly woofer | Two-way system using dual 0.5" (1.3cm) polymer dome liquid-cooled tweeters and one 6.5" (16.5cm) poly woofer | Two-way system using one 1" (2.5cm) polymer dome, liquid-cooled tweeter and one 8" (20.3cm) poly woofer | Two-way system using one 1" (2.5cm) silk dome tweeter and one 6.5" (16.5cm) poly woofer | Two-way system using dual 1" (2.54cm) silk dome tweeters and one 6.5" (16.5cm) poly woofer | Two-way system using dual 1" (2.54cm) silk dome tweeters and one 8" (20.3cm) poly woofer |
| <b>WEIGHT</b>               | 5.1 lbs. (2.3kg)  | 5.3 lbs. (2.4kg)   | 5.8 lbs. (2.6kg)  | 7 lbs. (3.2kg)  | 7.2 lbs. (3.25kg)  | 7.1 lbs. (3.2kg)   |
| <b>DIMENSIONS</b>           | 9.5" (24.1cm) Cutout: 8.3" (21cm)   | 9.5" (24.1cm) Cutout: 8.3" (21cm)  | 11" (27.9cm) Cutout: 9.8" (24.9cm)  | 9.5" (24.1cm) Cutout: 8.3" (21cm)   | 9.5" (24.13cm) Cutout: 8.25" (21cm)  | 11" (27.9cm) Cutout: 9.8" (24.9cm)   |
| <b>INSTALLATION KIT</b>     | IK-650-C (sold separately)  | IK-650-C (sold separately)   | IK-800-C (sold separately)  | IK-650-C (sold separately)  | IK-650-C (sold separately)   | IK-800-C (sold separately)   |
| <b>FIRE RATED ENCLOSURE</b> | ME-650-C (sold separately)  | ME-650-C (sold separately)   | ME-800-C (sold separately)  | ME-650-C (sold separately)  | ME-650-C (sold separately)   | ME-800-C (sold separately)   |

|                             | R-1650-W  | R-2650-W II  |
|-----------------------------|---|--|
| <b>FREQUENCY RESPONSE</b>   | 53Hz-20kHz +/- 3dB  | 65Hz-20kHz +/- 3dB   |
| <b>SENSITIVITY</b>          | 88dB @ 2.83V/1 meter  | 91dB @ 2.83V/1 meter   |
| <b>IMPEDANCE</b>            | 8 ohms compatible   | 8 ohms compatible  |
| <b>POWER HANDLING</b>       | 35W (140W peak)   | 50W (200W peak)  |
| <b>DRIVE COMPONENTS</b>     | Two-way system using one 1" (2.5cm) polymer dome, liquid-cooled tweeter and one 6.5" (16.5cm) poly woofer | Two-way system using one 1" (2.5cm) silk dome tweeter with one 6.5" (16.5cm) polymer cone woofer |
| <b>WEIGHT</b>               | 6.5 lbs. (3kg)  | 7.2 lbs. (3.3kg)   |
| <b>DIMENSIONS</b>           | 14.3" (36.3cm) H x 9.3" (23.6cm) W<br>Cutout: 13" (33cm) H x 8" (20.3cm) W                                | 14.3" (36.3cm) H x 9.3" (23.6cm) W<br>Cutout: 13" (33cm) H x 8" (20.3cm) W                       |
| <b>INSTALLATION KIT</b>     | IK-650-W (sold separately)  | IK-650-W (sold separately)   |
| <b>FIRE RATED ENCLOSURE</b> | ME-650-W (sold separately)  | ME-650-W (sold separately)   |

|                           | R-5802-SW  |
|---------------------------|--|
| <b>FREQUENCY RESPONSE</b> | 41-140Hz +/- 3dB   |
| <b>MAXIMUM OUTPUT</b>     | 106dB @ 30Hz 1/8 space, 1 meter  |
| <b>DRIVE COMPONENTS</b>   | Two 8" (20.3cm) Cerametallic front-firing woofers                              |
| <b>AMPLIFIER TYPE</b>     | Use with RSA-500   |
| <b>AMPLIFIER POWER</b>    | See RSA-500  |
| <b>CONTROLS</b>           | See RSA-500  |
| <b>INPUTS</b>             | Gold plated binding posts  |
| <b>ENCLOSURE</b>          | Sealed: MDF baffle, ABS shell  |
| <b>WEIGHT</b>             | 21.1 lbs. (9.6kg)  |
| <b>DIMENSIONS</b>         | 20.8" (52.8cm) H x 11.8" (29.9cm) W<br>Cutout: 19" (48.3cm) H x 10" (25.4cm) W |

|                        | RSA-500 AMP  |
|------------------------|--|
| <b>AMPLIFIER TYPE</b>  | Bash Digital Hybrid  |
| <b>AMPLIFIER POWER</b> | FTC Rated Power: 500W continuous into 4 ohms @ <2% THD Dynamic Power: 1000W              |
| <b>FRONT CONTROLS</b>  | Volume and Variable Crossover  |
| <b>REAR CONTROLS</b>   | Phase Switch (0/180), EQ Selector, Trigger Input, Power Mode Selector, Main Power Switch |
| <b>INPUTS</b>          | L/R and LFE Line-level RCA jacks<br>L/R High-level speaker binding posts                 |
| <b>OUTPUTS</b>         | L/R and LFE Line-level RCA jacks (unfiltered)<br>L/R speaker binding posts               |
| <b>WEIGHT</b>          | 17.5 lbs. (7.9kg)  |
| <b>DIMENSIONS</b>      | 3.8" (9.6cm) H x 16.8" (42.7cm) W  |
| <b>VOLTAGE</b>         | 110/120 VAC 60Hz   |
| <b>FINISH</b>          | Black Anodized Brushed Aluminum  |
| <b>ACCESSORIES</b>     | Rack Ears (included) *For use only with RW-5802  |

# SPECIFICATIONS

## KLIPSCH GALLERY® SERIES

### G-12

### G-16

### G-28

### G-42

|                       |  |  |  |   |
|-----------------------|--|--|--|---|
| FREQUENCY RESPONSE    | 69Hz-24kHz +/- 3dB   | 67Hz-24kHz +/- 3dB   | 55Hz-24kHz +/- 3dB   | 65Hz-24kHz +/- 3dB  |
| POWER HANDLING        | 50W RMS / 200W Peak  | 75W RMS / 300W Peak  | 75W RMS / 300W Peak  | 50W RMS / 200W Peak / per channel   |
| SENSITIVITY           | 91dB @ 2.83 V / 1m   | 94 dB @ 2.83 V / 1m  | 94dB @ 2.83 V / 1m   | 92dB @ 2.83 V / 1m  |
| NOMINAL IMPEDANCE     | 8 Ohms compatible  | 8 Ohms compatible  | 8 Ohms compatible  | 8 Ohms compatible   |
| HIGH FREQUENCY DRIVER | 1" (2.54cm) Titanium diaphragm compression driver mated to 90° x 90° square Tractrix® Horn | 1" (2.54cm) Titanium diaphragm compression driver mated to 90° x 90° square Tractrix® Horn | 1" (2.54cm) Titanium diaphragm compression driver mated to 90° x 90° square Tractrix® Horn | Three 1" (2.54cm) Titanium diaphragm compression drivers mated to 90° x 90° square Tractrix® Horns              |
| LOW FREQUENCY DRIVERS | 3.5" (8.89cm) long-throw IMG woofer  | Two 3.5" (8.89cm) long-throw IMG woofers   | Two 3.5" (8.89cm) active long-throw IMG woofers<br>Four 3.5" (8.89cm) passive IMG woofers  | Four 3.5" (8.89cm) active long-throw IMG woofers (One each for left and right channels, two for center channel) |
| CROSSOVER FREQUENCY   | 2200Hz   | 2200Hz   | 2200Hz   | 2200Hz  |
| INPUTS                | Single wire 5-way binding posts  | Single wire 5-way binding posts  | Single wire 5-way binding posts  | Single wire 5-way binding posts (3 sets)  |
| ENCLOSURE TYPE        | Bass-reflex  | Bass-reflex  | Bass-reflex via passive radiators  | Bass-reflex   |
| HEIGHT / WITH BASE    | 12" (30.48cm) / 13.5" (34.29cm)  | 16" (40.64cm) / 17.5" (44.45cm)  | 28.5" (72.39cm) / 30" (76.2cm)   | 6" (15.24cm) / 6.63" (16.84cm)  |
| WIDTH / WITH BASE     | 6" (15.24cm) / 7.5" (19.05cm)  | 6" (15.24cm) / 7.6" (19.3cm)   | 6" (15.24cm) / 9" (22.86cm)  | 42" (106.68cm) / same   |
| DEPTH / WITH BASE     | 2.4" (6.10cm) / 5" (12.7cm)  | 2.4" (6.10cm) / 5.1" (12.95cm)   | 2.4" (6.10cm) / 6" (15.24cm)   | 2.4" (6.10cm) / 5" (12.7cm)   |
| WEIGHT / WITH BASE    | 3.75lbs (1.7kg) / 5lbs (2.27kg)  | 5.25lbs (2.38kg) / 6.2lbs (2.81kg)   | 8lbs (3.63kg) / 8.75lbs (3.96kg)   | 12lbs (5.44kg) / 14lbs (6.35kg)   |
| FINISH                | High Gloss Black   | High Gloss Black   | High Gloss Black   | High Gloss Black  |



# SPECIFICATIONS

## OUTDOOR LOW IMPEDANCE SPEAKERS

### AW-500-SM

### AWR-650-SM

|                     |  |  |
|---------------------|--|--|
| FREQUENCY RESPONSE  | 80Hz-20kHz +/- 3dB   | 66Hz-20kHz +/- 3dB   |
| SENSITIVITY         | 94dB @ 2.83V/1 meter   | 94dB @ 2.83V /1 meter  |
| IMPEDANCE           | 8 ohms compatible  | 8 ohms compatible  |
| POWER HANDLING      | 50W (200W peak)  | 50W (200W peak)  |
| DRIVE COMPONENTS    | Two-way system using dual 1" (2.5cm) polymer dome tweeters with dual 90°x 90° Tractrix Horns and one 5" (12.7cm) IMG cone woofer | Two 0.75" poly dome tweeters using Neodymium magnets mounted in a plastic housing and a 6.5" poly cone dual voice coil woofer using a ceramic motor and plastic basket |
| CROSSOVER FREQUENCY | 2600Hz   | 2500Hz   |
| MOUNTING            | 3/8" - 16 threaded insert for optional mounts<br>Supplied with C-style mounting bracket and stainless steel hardware             |  |
| WEIGHT              | 9.5 lbs. (4.3kg)   | 13 lbs. (5.9kg)  |
| DIMENSIONS          | 8.3" (21.1cm) H x 16" (40.6cm) W x 11" (27.9cm) D  | 17" (43.2cm) H x 15" (38.1cm) W x 11" (27.9cm) D   |
| FINISH              | White  | Granite, Sandstone   |





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