

AUDIO

THE PINNACLE OF REALISM



RODGERS
EXPERIENCE ELEVATED

YOU'LL HEAR **PIPES**, NOT SPEAKERS

One of the most common remarks when someone hears a Rodgers organ for the first time is "I can't tell the difference between the digital sounds and pipes!" Rodgers audio systems famously make the speakers disappear, so all you notice is the music.

REAL PIPE SOUND

Rodgers speakers are designed to deliver the emotional power, delicate nuances and lively spatial presence of a magnificent pipe organ. Their wide dispersion capacity and consistent frequency response make them uniquely suited to accurately reproduce pipe organ sound without coloration or distortion.

KEVLAR® CONE MATERIAL

Rodgers' full-range speakers are built with incredibly strong, stable Kevlar® cones, found in many of the highest quality loudspeakers available. With fibers five times stronger ounce for ounce than steel, Kevlar® wears longer and withstands more temperature variation than other speaker materials. But it's also far lighter than other cone materials, allowing speaker drivers to move more quickly and accurately, with less cone flex and a higher tolerance for peak power levels.

BALANCED AUDIO

Crown® amplifiers dramatically improve the organ's sound by incorporating balanced audio input circuitry that uses two opposite-polarity conductors to carry the differential audio signal. An additional shield around each pair of wires shunts away unwanted electrical noise, keeping it from affecting the signal on the wires inside.



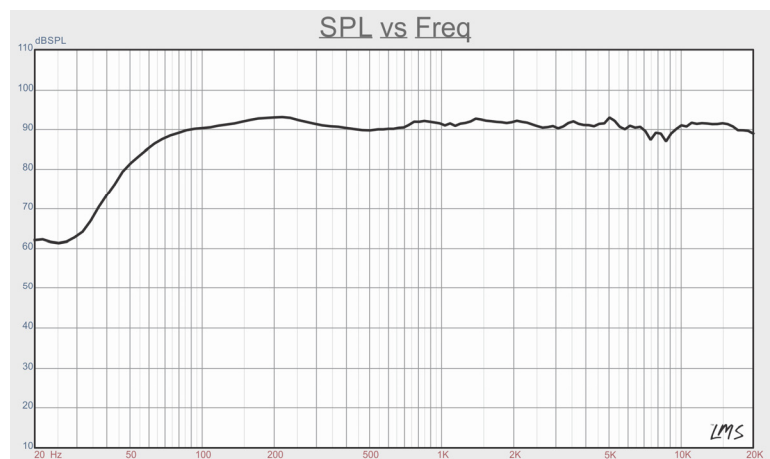
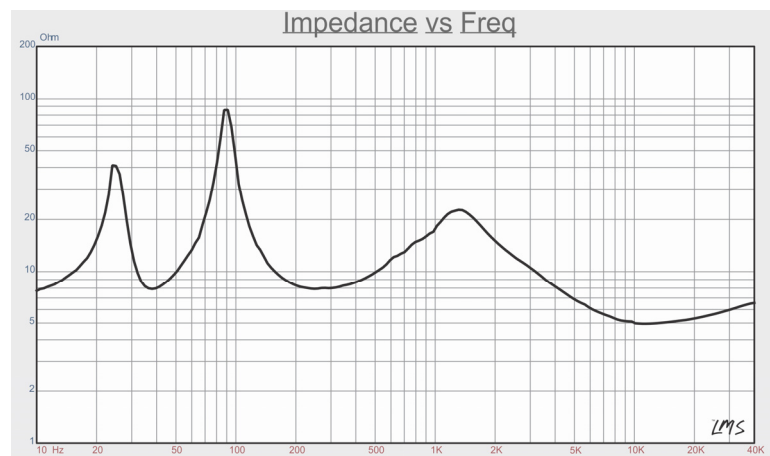
FR1

TWO-WAY TUNED PORT ENCLOSURE SPEAKER

The FR1 is specifically designed to have an ultra-wide sound dispersion characteristic, creating much greater distribution of full frequency sound than many other speaker designs. To accomplish this, Rodgers audio engineers combined two custom-designed drivers that incorporate the use of Kevlar® cone material, a wide dispersion silk dome tweeter, a specially designed and tuned constant power third order passive crossover network, and a new compact vented cabinet that embraces critical component placement and cabinet tuning.

The use of ultra light and rigid Kevlar® cones enhances the accuracy and response of the critical midrange frequencies, reduces cone flex-induced harmonic distortion, helps control unwanted resonances, and helps minimize peaks and dips in frequency response.

Power handling: 100 watts RMS
Frequency response: 60 Hz to 22 kHz
Sensitivity: 91 dB SPL @ 1W/1m
Nominal impedance: 8 ohms
Size: 24.4" H x 9.45" W x 11.4" D (w/o grille)
Grille is included with each FR1
Finish: Utility Black
Weight: 32 lbs





SW6

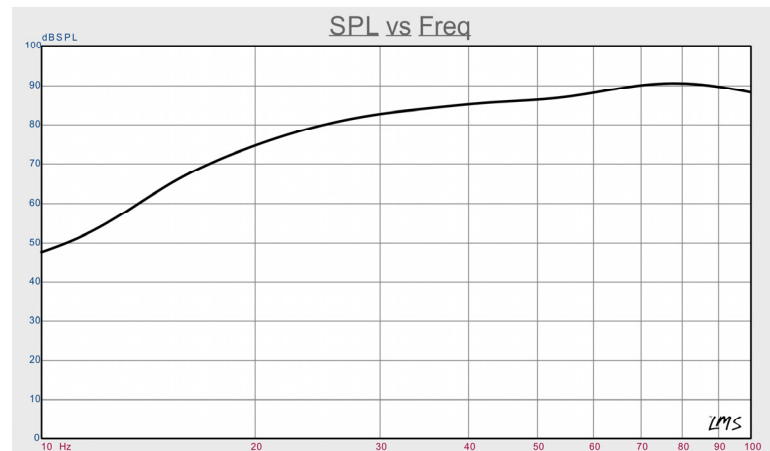
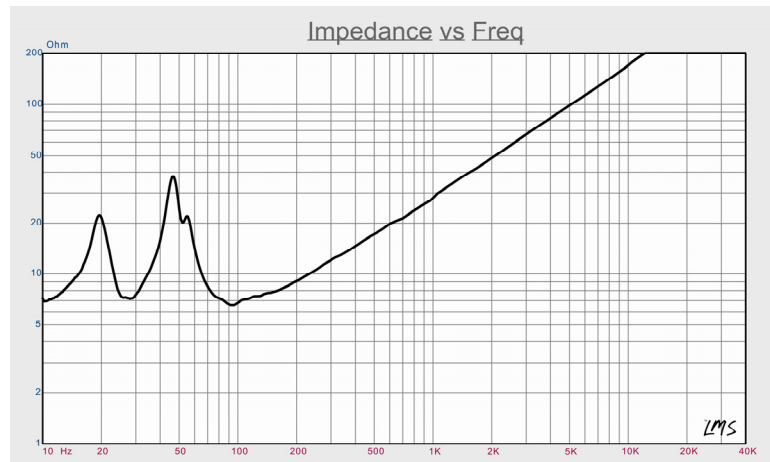
FRONT FIRING DUAL PORT COMPACT SUBWOOFER

The SW6 has twice the power handling and even more low frequency capabilities than the previous Rodgers subwoofer model SW 7.5LXa in a much smaller package.

It features a compact vented cabinet using two flared ports, two recessed handles, and two custom-designed 12" woofers with long-fiber pulp cones; long throw, long lasting synthetic rubber surrounds; and large magnet structures weighing over 2.5 lbs each.

The SW6 can be installed vertically or horizontally in corners, along walls, under platforms or stages, in homes or studios, or any other location requiring a compact but high quality passive subwoofer.

Power handling: 200 watts RMS
 Frequency response: 16 Hz to 200 kHz
 Sensitivity: 90 dB SPL @ 1W/1m
 Nominal impedance: 8 ohms
 Size: 29.7" H x 19.6" W x 23.3" D (w/o grille)
 Grille is included with each SW6
 Finish: Utility Black
 Weight: 68 lbs





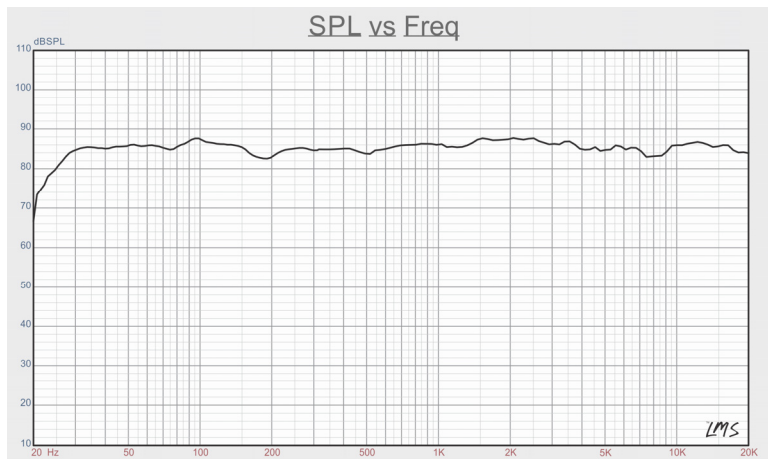
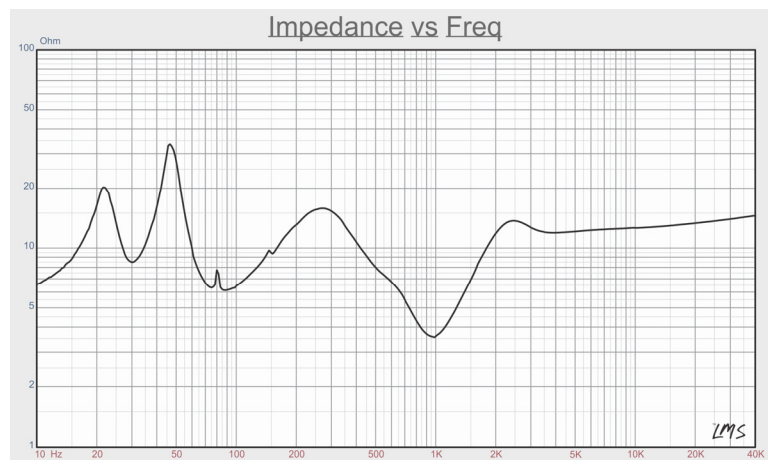
FR55

FULL RANGE SPEAKER

The FR55 is a full-range loudspeaker that has been designed for situations where low frequency pedal sound is needed in the same speaker as upper-range manual sound, or when a more robust speaker is required. As a result, the FR55 is ideal for emulating Antiphonal pipes.

The FR55 is also a perfect match for organs with a self-contained speaker system that require a little boost in volume. The FR55 features exceptionally wide dispersion, a passive three-way constant power third order crossover network, 12" long-fiber pulp cone, long-throw long-lasting synthetic rubber surround, 6" Kevlar® mid-range and a 1" exposed dome wide dispersion tweeter.

Power handling: 100 watts RMS
Frequency response: 32 Hz to 22 kHz
Sensitivity: 88 dB SPL @ 1W/1m
Nominal impedance: 8 ohms
Size: 33.44" H x 19.44" W x 16.69" D (w/o grille)
Grille is included with each FR55
Finish: Utility Black
Weight: 76 lbs



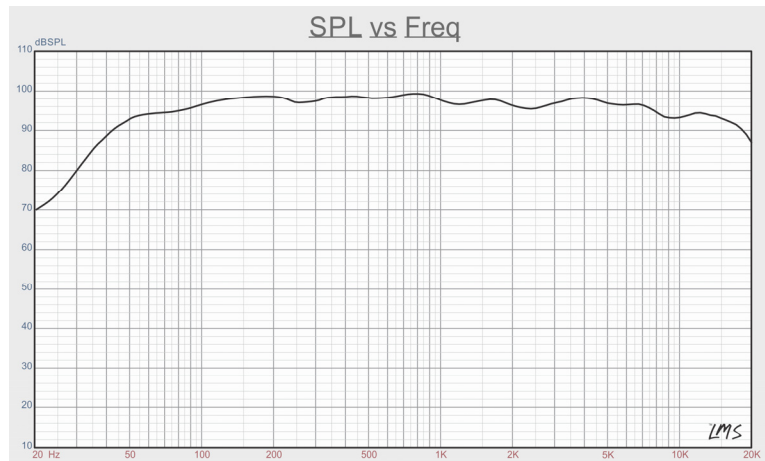
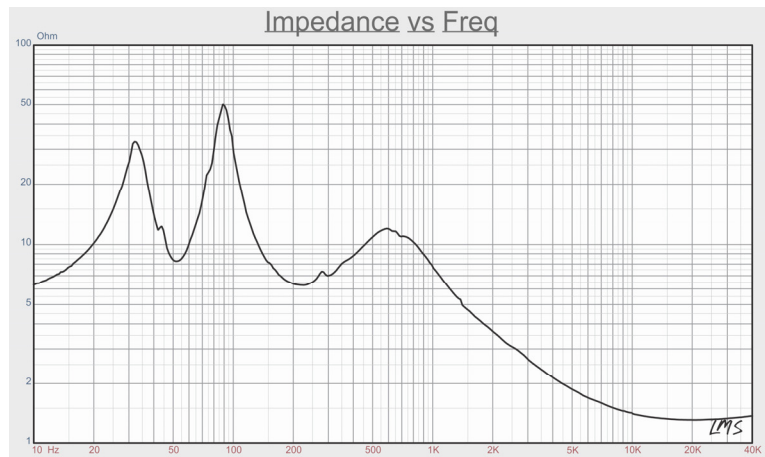


RC2

REED CHANNEL SPEAKER

The RC2 "Reed Channel" loudspeaker is specially designed to reproduce the unique characteristics of loud reed pipes such as Trumpets and Tubas. They exhibit exceptional linearity of frequency response and high efficiency to authentically reproduce the harmonic complexities of Trompette en Chamade and Tuba organ pipes. The RC2 also provides power efficiency and sound dispersion demanded of loud reed stops that dominate and lead over full organ registration. The RC2 offers excellent acoustic blend with other Rodgers speakers.

Power handling: 100 watts RMS
Frequency response: 60 Hz to 22 kHz
Sensitivity: 101 dB SPL @ 1W/1m
Nominal impedance: 8 ohms
Size: 24" H x 18.19" W x 11.25" D (w/o grille)
Grille is included with each RC2
Finish: Utility Black
Weight: 53 lbs





Crown® CT Series 4150 four-channel amplifier



Crown® CT Series 8150 eight-channel amplifier

WORLD-CLASS AMPLIFIERS

Rodgers organs come with audio power amplifiers from Crown®, a global leader in high-performance professional audio systems. They're the perfect match for Rodgers' exclusive organ sound generation system. Like Rodgers, Crown® uses advanced technology to reduce the number of discrete components in order to improve reliability and efficiency. And like the organ, vast resources mean the audio system is never "pushed." Crown® CT Series amplifiers use patented class-I technology that is superior to older analog-only amplifier designs. Combined with Rodgers Audiophile speakers, they support a clear, transparent organ sound that soars beyond what's heard from any other organ audio system available today. Amplifiers with class-I technology sip tiny amounts of energy, generate little heat and deliver extremely reliable performance. Efficiency is the key to getting more power out of an amplifier with less waste than ever before. Class-I technology draws less power from the AC supply, yet delivers much more power (wattage) per channel than analog-only amplification equipment. Crown® CT Series products handle reactive loudspeaker loads easily and gracefully by reusing energy returned from the loudspeaker, rather than dissipating it as heat or forcing the amp into premature current limiting. These characteristics mean that class-I amplifiers run better, longer and cooler than other designs, especially at lower impedances. It also makes them more reliable, since they aren't constantly stressed to their limits or subjected to excessive heat.

BALANCED AUDIO

The combination of Rodgers speakers and Crown® CT Series amps achieves a clean, amplified signal for optimal organ sound. It is important to avoid the disturbing ground loop hum that can occur with unbalanced audio systems. Rodgers' system of balanced audio (also called differential signal) uses three wires: signal "hot," signal "cold" and shield. Balanced audio technology amplifies only the difference between the "hot" original signal and the inverted "cold" duplicate signal, completely ignoring unwanted noise. This signal transport method is less susceptible to external influences such as nearby AC electrical service or motors.

ADVANTAGES OF CROWN® CT SERIES AMPLIFIERS

- More powerful than previous Rodgers analog amplifiers
- Lighter weight – Crown® CT Series amps weigh just 10 pounds
- Minimal heat generation
- Quiet and low-maintenance – Crown® CT Series amps use a fan-less cooling system
- Able to operate on any voltage, from 100v to 240v
- Attractive, low-profile design (less than 2 inches high)
- Rack mountable
- Powers on and off with the organ console
- Features include an external circuit breaker, rear-mounted volume controls for each channel, a thermal indicator, clipping indicator, signal indicator, front-mounted power switch, high pass filter control, limiter feature and control, flexible input routing, auto-standby feature and control, meets worldwide safety testing, meets European ErP requirements, and more.

SPECIFICATIONS: Channels: 4 (CT 4150); 8 (CT 8150) • Sensitivity: 1.4V • Rated Power Output: 125W per Ch @ 8 ohms; 125W per Ch @ 4 ohms • Signal to Noise Ratio (below rated power 20Hz to 20kHz, A-Weighted): 110dB • Total Harmonic Distortion (THD) (full rated power, 20Hz - 20kHz): < 0.5% • Intermodulation Distortion (from 0dB down to -40dB): < 0.5% • Frequency Response (at 1W into 4/8 ohms): ± 0.5dB • Crosstalk (below rated power 20Hz to 1kHz): > 70dB • Common Mode Rejection (20Hz to 1kHz): > 55dB, typically . 70dB • Dimensions (H x W x D): 1.75" x 19" x 14.25" • Net Weight: 10 lbs • Net Shipping Weight: 15 lbs.
Specifications are subject to change.

DEDICATED TO
MOVING HEARTS AND SOULS

Since 1958, Rodgers has been committed to heightening the spiritual experience of audiences with the transformational power of music. Rodgers organs not only capture the essence of American pipe organ sound, they have led the way in making organs more accessible to places of worship, universities, music schools, and enthusiasts around the world.

RODGERS INSTRUMENTS US LLC

21333 NW Jacobson Road, Building 7, Suite D-200, Hillsboro, OR 97124

phone 503.648.4181 **web** www.rodgersinstruments.com

Copyright 2016 Rodgers Instruments US LLC. All rights reserved.
Part Number 876350. Rev A00.

Crown® is a registered trademark of Harman, used by permission.