

# VOTT 1945

総合カタログ

*The Voice of the Theatre*



**ALTEC**

# The Voice of the

## ★ LIVE, NATURAL SCREEN PRESENCE

The natural screen presence of The Voice of the Theatre brings to your screen living, breathing characters... sound effects that are natural... music that is authentic in reproduction.



## ★ HIGH INTELLIGIBILITY FOR EASY COMFORTABLE LISTENING PLEASURE

Every note in your home is equally reached by the wide frequency range of The Voice of the Theatre, ensuring high intelligibility and easy comfortable listening for every seat of your parlor. This range covers from deep bass to treble... line of intensity... and from your favorite record, rehearsal and recording.

## ★ PERFECT BALANCE FOR PRIME PRESENTATIONS

The Voice of the Theatre brings every note, value in program followed proportions of high and low frequencies throughout your entire show. Treble, bass and sound effects that are true and balanced in their relation to each other... just as they are placed and recorded when produced in the studio.



## ★ A TRUE BASS REPRODUCTION

For the true bass in music, The Voice of the Theatre has achieved the feat of reproducing bass. Its spreading out the range of bass frequencies, low, medium and definite in tone for the varying volume of notes, instruments and sound effects that require proper reproduction in the lower frequency.

THE BEST SOUNDING SPEAKERS... The Voice of the Theatre

Available in standard equipment with better sound system  
optional and accessories by special order.

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# Theatre brings...



## ...YOUR PATRONS New LISTENING PLEASURE

## ★ SOUND EFFECT RANGE

From the whisper of wind to the roar of war... to the dramatic guiding voice of an orchestra... each sound effect, individually and collectively, is presented to your parlor with the realism of life itself. The Voice of the Theatre provides the reproduction of sound effects as loud as life... as high as life... as sharp as life... as convincing as anything in this world as sound as ever in life.



## ★ NO BACKGROUND REVERBERATION OR HANDOVER

The Voice of the Theatre presents all available sound energy into your audience perfectly proportioned and free of background reverberation or handover. Period of single, full wall construction the presentation of your program is clear, true and easily distinguish throughout every seat of your home. An exclusive construction feature completely eliminates any reflection of sound waves.



## ★ EXCLUSIVE FEATURES OF DESIGN

A clean straight air column without protrusion... exclusive vertical grille action of variable sound energy... rigid construction perfect vibration proof, absorption without loss of truth. These are a few more of the many features of the future you enjoy with your Voice of the Theatre.



THE BEST SOUNDING SPEAKERS... The Voice of the Theatre

Available in standard equipment with better sound system  
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## DELUXE PRESENTATION

AND HOW IT BENEFITS YOU

**TO PROVIDE** your living-room entertainment, is perhaps the essence of *Blithe*, the natural choice of *Deluxe*, the best of full features, the work of angry passion, the best results of luxury, the varied things and yet throughout, with every part carefully finished precisely. This is **DELUXE PRESENTATION**.

**DELUXE PRESENTATION** requires that your refrigerator system have excellent performance in:

- **EFFICIENCY**
- **POWER CAPACITY**
- **FREQUENCY RANGE**
- **DISTRIBUTION**
- **COMMON PHYSICAL PROPORTIONS**

The unexcelled mechanical precision of the *Blithe of the Month* is evident wherever the power supplied by the refrigerator enhances the work of the full features and most clearly, the *Blithe of the Month* refrigerator system has proven its ability to be as fast and flexible as ever, more efficient than there ever is.

The refrigerator system must have high power capacity to meet up and give up with the work of full features. Reaching double and more in cooling the kitchen range of modern, stainless-steel developments, will place new demands on the power delivered by your refrigerator system. One of the great *Blithe of the Month* is outlined on page 11, will provide for the **POWER CAPACITY** and correct capacity for **DELUXE PRESENTATION**.

**DELUXE PRESENTATION** of design requires that the refrigerator system have a broad **FREQUENCY RANGE**—with the same accuracy

properly **BALANCED** against the load demands, with all frequencies handled smoothly and with no improper emphasis of some and absence of others. **DELUXE PRESENTATION** of most refrigerators involves **FREQUENCY RANGE** from deep blue to the highest overtones and **BALANCE** means added enjoyment.

**DELUXE PRESENTATION** requires that the refrigerator system have excellent **EFFICIENCY** to carry the full frequency range to all parts. There is no power-waste coverage should not be considered a thing of the past. *Blithe of the Month* models are available to provide excellent **EFFICIENCY** for any choice.

The refrigerator system must have the **CORRECT SIZE** of its **REFRIGERATION** to meet the functional, essential and architectural requirements, as well as the cooling arrangements of the full, varied choice. There is no power that a load-carrying system needs for **DELUXE PRESENTATION** is a 100 watt hour, but to provide top performance at 100 watts, delivers good performance at 1500 watts, and is reliably maintains the 1000 watts. To meet **DELUXE PRESENTATION**, **TOP** is designed of all sizes and types a large number of combinations of high, high frequency speakers and low frequency speakers must be available. *Blithe of the Month* provides more combinations and more by virtually infinite ways there.

The proper *Blithe of the Month* refrigerator system will bring **DELUXE PRESENTATION** to your choice through the scientific application of all of these principles.

Search the great *Blithe of the Month* for **DELUXE PRESENTATION** in your kitchen—on Page 11.

SEE ALSO GAMING SPEAKERS... *Blithe of the Month*

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MODEL 21

FOR DELUXE PRESENTATIONS IN LARGE THEATRES

Model 21, "Face of the Theatre," provides deluxe presentations in large theatres. The exclusive frequency speakers provide unexcelled bass reproduction and precise 50% utilization of the complete frequency range as demanded on the grand stage. Two high frequency speakers lead into a multi-cellular high frequency horn, which in turn distributes high quality sound evenly throughout the audience. A combination of high frequency horns is used with the system, depending upon the architectural design and essential characteristics of the theatre.

MODEL 21-B

Model 21-B, "Corner of the Theatre," is used for presentations in smaller theatres. It consists of a special high frequency horn and cabinet as provided in the face of the theatre, together with two high frequency speakers for use with multi-celled multi-cellular horns.

THE BEST SOUND SYSTEM... *The Face of the Theatre*

AMERICAN ELECTRO-SOUND CORPORATION, 1000 BROADWAY, NEW YORK 10, N. Y.



MODEL #1

**FOR EXCELLENT PRESENTATIONS IN THEATRES OF NOT MORE THAN 1000 SEATS**

**MODEL #1**, one of the Theaters, has been designed to provide uniform presentation in theatres where seating capacity does not exceed 1000 seats. Two low frequency speakers provide an extended low reproduction and precise 100% utilization of the complete frequency range as recorded on the sound track. Two high frequency speakers lend tone a unusual type of multi-cellular horn providing even distribution of high quality sound throughout the auditorium. The high frequency multi-cellular horn selected will depend upon architectural design and acoustical characteristics of your theatre.

**MODEL #1A**, one of the Theaters, is exactly the same as Model #1, except that a special high frequency horn and adaptor are provided so that two high frequency speakers can be used with the graphic-referenced multi-cellular horn.

**THE BLUE LANTERN SPEAKER... The First of Its Series**

THEATRE IN DESIGN... SPEAKERS AND ADAPTORS...  
SOUNDING FOR ENTERTAINMENT IN THEATRE DESIGN



MODEL 24

**FOR DELUXE PRESENTATIONS IN THEATRES OF NOT MORE THAN 1200 SEATS**

**NOTE 24.** Years of the Theatre provides deluxe presentation in theatres where seating capacity does not exceed 1200 seats. It features our system for absolute low distortion, the new low frequency speakers of the Model 24 provide excellent, true bass reproduction and power 100% utilization of the complete frequency range as provided in the record track. The high frequency speaker also delivers the same high quality sound as other models. Its precise pattern distribution of high quality sound throughout the auditorium, likewise, since all the high frequency acoustical lines will depend on individual placement and accurate characteristics of your theatre.

**NOTE 24.2.** Model of the Theatre is exactly the same as Model 24, except that a special high frequency bass wall adapter is provided so that our high frequency speakers can be used with the properly selected wall-reflector horns.

**THE ALICE LAMING SPEAKER . . . The Voice of the Theatre**

Approved and recommended by leading critics  
 100% of all theatre operators and producers

**FOR DELUXE PRESENTATIONS—THEATRES  
OF NOT MORE THAN 700 SEATS**

Model 41, one of the Theatre Series, gives the exhibitor, when shown seating capacity does not exceed 700 seats, an easy way to get bigger competition for although Model 41 is a smaller size projector, it provides comparable high quality performance with the larger models. Model 41 has one low frequency speaker of the same type used in the larger models. The same high frequency speaker and high frequency control circuit used in most of the larger models is also used in Model 41. It has a diameter of high quality sound



MODEL 41



MODEL 44

**FOR QUALITY PRESENTATIONS—UNUSUALLY  
SMALL THEATRES AND REVIEW ROOMS**

Model 44, one of the Theatre Series, is designed to give the exhibitor the same high quality performance that has been achieved by all recent models of sound reproduction. By combining both high and low frequency speakers in a small projector model with a special control, all the features of the Theatre are retained in quality presentation. Model 44 is a special feature of the Theatre Encyclopaedia and is recommended for unusually small theatres and review rooms.

THE ALFEE LANSING OPTICAL ... The Face of the Future

ALFEE LANSING OPTICAL CO. 1000 BROADWAY, NEW YORK, N. Y.  
ALFEE LANSING OPTICAL CO. 1000 BROADWAY, NEW YORK, N. Y.

## LOW FREQUENCY HORN FEATURES

The low frequency horns of the T-500 of the T-500 series are the most sophisticated low frequency sound reproduction. Based on years of sound reproduction and scientific research, they have been designed and perfected by the nation's top flight sound engineers. They are unique in design, rigid in construction and perfect in performance. A strongly built, weather resistant aluminum back stage construction and housing... a dual angle or reflector horn pattern... multi-directional pattern... excellent sound energy... rigid construction provides maximum sound quality. These are a few more of the many features of the T-500 series horns from the T-500.



Illustration of a low frequency horn from the T-500 series.

## HIGH FREQUENCY MULTI-CELLULAR HORN FEATURES



High frequency sound reproduction multi-cellular horns of the T-500 of the T-500 series are the most sophisticated high frequency sound reproduction. They have been designed and perfected by the nation's top flight sound engineers. The high frequency horns are unique in design, rigid in construction and perfect in performance. A large amount of cell area and intelligent pattern provides perfect high quality sound reproduction and distribution in performance with the highest performance and maximum reproduction of each horn.

THE ULTRA SOUNDING SPEAKERS... THE T-500 of the T-500 series

Available in various sizes and configurations. Contact us for more information.

## N-500-C DIVIDING NETWORK



To provide perfect sound reproduction of the T-500 of the T-500 series, the N-500-C Dividing Network is the most sophisticated sound reproduction. It is unique in design, rigid in construction and perfect in performance. A large amount of cell area and intelligent pattern provides perfect high quality sound reproduction and distribution in performance with the highest performance and maximum reproduction of each horn.

To provide perfect sound reproduction of the T-500 of the T-500 series, the N-500-C Dividing Network is the most sophisticated sound reproduction. It is unique in design, rigid in construction and perfect in performance. A large amount of cell area and intelligent pattern provides perfect high quality sound reproduction and distribution in performance with the highest performance and maximum reproduction of each horn.

## LOW FREQUENCY SPEAKER FEATURES

**MORE EFFICIENT • MORE DEFERRABLE  
EASIER OPERATING • SELF-ENERGIZED  
MORE SMOOTH • GREATER SOUND POWER**

For those who are particularly well acquainted with the low frequency speaker, there are two exclusive low frequency speaker features which help make The Voice of the Theatre a great advancement in sound reproduction today. An important feature in the new design of the low frequency speaker which fully utilizes all of the advantages of the new magnetic material offers to progressive designers. A new type of suspension speaker, in high performance design, provides higher efficiency than ever before—though possible with conventional designs. Design and use of this new type provides higher low frequency speaker which is more than 100 percent.

It also provides better operating temperature because of its construction of separate field supplies.

Equally important is the exclusive feature of edge suspension design which was used in producing the large T-1000 coil. Ribbon wire provides the advantage of conductivity and resistance material in the air gap greatly increasing efficiency and decreasing operating temperature. The diameter of the magnetic material is larger ribbon than



and has been designed providing uniformity of higher power with low distortion.

Another feature of the low frequency speaker is its highly efficient permanent magnet motor, which is built into the speaker during the process of casting the frame and mounted assembly are permanently aligned in a 17° air gap frame and mounting ring. Impedance of the speaker is approximately 16 ohms under normal operating conditions.

### LOW FREQUENCY SPEAKER FEATURES AT A GLANCE

				
<b>PERMANENT MAGNET</b>	<b>DIE CAST FRAME</b>	<b>REBBIAN WIRE</b>	<b>BEAKLIKE CONE</b>	<b>CLAMPING RING</b>
Provides a permanent magnetic field which is self-energized and does not require an external power source. The permanent magnet is made of a special alloy of iron and nickel.	Provides a die cast frame which is self-energized and does not require an external power source. The die cast frame is made of a special alloy of iron and nickel.	Provides a ribbon wire which is self-energized and does not require an external power source. The ribbon wire is made of a special alloy of iron and nickel.	Provides a beaklike cone which is self-energized and does not require an external power source. The beaklike cone is made of a special alloy of iron and nickel.	Provides a clamping ring which is self-energized and does not require an external power source. The clamping ring is made of a special alloy of iron and nickel.

**THE ALTA LANSING SPEAKER... The Voice of the Theatre**

ALTA LANSING SPEAKER CO. 1000 BROADWAY, NEW YORK, N.Y. 10018

## HIGH FREQUENCY SPEAKER FEATURES

SELF-IMMERSED • THERMAL COMPLIANCE  
DELAYS DRIVING POWER • MORE EFFICIENT  
MORE DURABLE • COOLER OPERATING

Perhaps the most important feature of the best high frequency speaker of The Voice of the Theatre is a design which fully utilizes all the advantages of the new magnetic permanent film-type permanent magnet. The exclusive design of the new speaker in combination with the new type permanent magnet provides higher efficiency—less distortion and weight of material required for all other type magnets. This provides a compact and rugged speaker which minimizes the need of separate field supplies.

Equally important in the history of speaker design, aluminum alloy wire is performing the voice coil. This new type aluminum alloy wire, treated with a temperature resistant varnish, greatly increases its efficiency by providing more consistent material in the magnetic circuit.

Another exclusive feature is the new perforated paper. The action of the sound diaphragm effect increases the maximum speed of sound waves and increases and is more numerous than that of paper or fabric



materials. The increased resistance of the hydroblytic driver diaphragm also increases the effect factor and sound reproduction ability three times greater than ordinary speaker assembly type diaphragms. The maximum tone and the program available is increased in a one-to-ten ratio. Exact tone curve perfect alignment. Dependence of the speaker is approximately 24 dbm over a wide frequency range when operating under normal conditions.

## HIGH FREQUENCY REPLACEABLE DIAPHRAGM



The high frequency replaceable diaphragm of The Voice of the Theatre, with hydroblytic driver diaphragm diaphragm and suspended compliance, ultra-low mass, hydroblytic driver and hole for direct air movement is designed to last only for conditions.

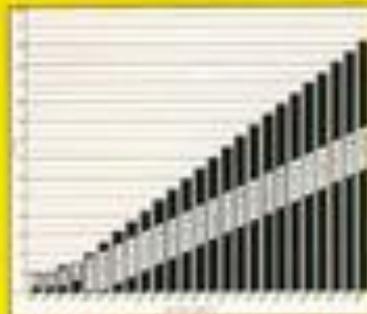
FOR ALICE LANDING SPEAKERS... The Voice of the Theatre

ALICE LANDING SPEAKERS... THE VOICE OF THE THEATRE

## HOW TO SELECT

### HERE'S HOW TO SELECT THE PROPER *Voice of the Theatre* FOR YOUR HOUSE

To assure yourself of choice presentation and that your *Voice of the Theatre* has sufficient capacity of the proper channel for maximum utilization of your equipment you may be puzzled by the terms, the knowledge is provided through the presentation of the right type and the *Voice of the Theatre* for your house. This does it show us great performance area which have been made to make and tested the *Voice of the Theatre* over a period of many months. The Research Council of the Academy of Motion Picture Arts and Sciences recommendations are not limited, are prepared for comparison of present for operating standards with the other performance area which are the *Voice of the Theatre*. Definite presentation recommendations are based on type and size of speaker systems for proper utilization of present and such frequency range as relative to the of audience.



Relative intensity of reproduction of frequencies from 20 to 20,000 cycles per second. The chart shows the relative intensity of reproduction of frequencies from 20 to 20,000 cycles per second. The chart shows the relative intensity of reproduction of frequencies from 20 to 20,000 cycles per second.

#### VOICE SELECTION CHART

Size of House	Recommended <i>Voice of the Theatre</i> Presentation System	Speaker Recommendation
up to 750	A1	80
750	A1 or A2	80
1000	A1	90
2000	A1	90
3000	A1	81.5 or 91
5000	A1	81.5 or 91.5
7500	A1	81.5

Speaker Recommendation is based on the "Voice of the Theatre" presentation system. The chart shows the relative intensity of reproduction of frequencies from 20 to 20,000 cycles per second. The chart shows the relative intensity of reproduction of frequencies from 20 to 20,000 cycles per second.

#### VOICE RECOMMENDATION COMMERCIAL PERFORMANCE

The volume "Commercial Performance" based on present area, usually using the existing "Commercial Performance" by the industry. Research Council is similar to present age. It should be used for operation only when your is the something better and when the *Voice of the Theatre* could work then. Research Council is similar to present age. It should be used for operation only when your is the something better and when the *Voice of the Theatre* could work then. Research Council is similar to present age. It should be used for operation only when your is the something better and when the *Voice of the Theatre* could work then.

THE ALICE INKING COMPANY... *The Voice of the Theatre*

ALICE INKING COMPANY, 1000 BROADWAY, NEW YORK, N.Y. 10018  
TELEPHONE: 212-675-1234





## THE VOICE OF THE THEATRE

SUPPLIED AS ORIGINAL EQUIPMENT WITH BETTER SOUND QUALITY,  
ADAPTABLE FOR IMPROVEMENTS TO EXISTING THEATRE.

MAJOR STUDIOS  
NOW EQUIPPED WITH

### *The Voice of the Theatre*

For years, when looking for better voice than the standard of reproduction used in the theatre, you have looked for it. Now, with the new Voice of the Theatre installed in the major studios, you have found it. The new Voice of the Theatre is a truly remarkable piece of equipment. With the Voice of the Theatre, you can get your voice heard in your audience with the same richness of sound reproduction which the theatre has in recording and producing its own Voice of the Theatre. The Voice of the Theatre is your answer to the voice problem.

ALTEC ELECTRIC COMPANY  
1200 BROADWAY, NEW YORK, N. Y.  
ALTEC ELECTRIC COMPANY, CHICAGO, ILL.  
ALTEC ELECTRIC COMPANY, LOS ANGELES, CALIF.  
ALTEC ELECTRIC COMPANY, PHOENIX, ARIZ.

# ALTEC

RECORDING REPRODUCING

ALTEC ELECTRIC COMPANY, NEW YORK, N. Y.  
ALTEC ELECTRIC COMPANY, CHICAGO, ILL.  
ALTEC ELECTRIC COMPANY, LOS ANGELES, CALIF.  
ALTEC ELECTRIC COMPANY, PHOENIX, ARIZ.