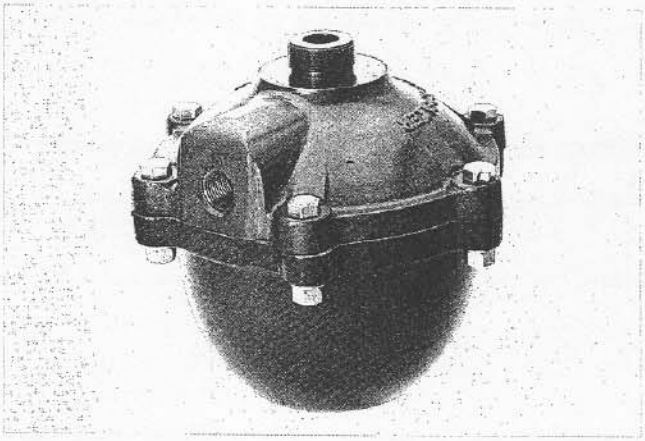
UNIVERSITY® SOUND
ALTEC SOUND PRODUCTS DIVISION

Specifications and Instructions

Model 7105X
Explosion-Proof Driver



University Sound Model 7105X is an explosion-proof driver for use in hazardous areas. A variety of horn configurations can be used to suit individual installation requirements. A specially designed integral sintered bronze acoustic screen and heavy die-cast aluminum case meet the Underwriters' Laboratories standards for explosion-proof classification (see below). Any University Sound reflex trumpet may be used with this driver, but it is most often used with Directional Trumpet Models PH and SMH.

One of the most versatile and durable explosion-proof drivers ever built, the University Sound Model 7105X is ideal for any sound system application where explosion-proof characteristics are required. Model 7105X is designed to meet and surpass U.L. standards for use in hazardous areas classified as Class I—Groups B, C and D, plus Class II—Groups E, F and G. It is ideal for applications in such locations as gasoline storage and loading facilities, coal pulverizing plants, grain mills, painting shops, and other areas with explosive atmospheres containing alcohol, acetone, natural gas, and other explosive gases such as a hydrogen/air mixture.

For optimum flexibility of installation, these units are supplied less line matching transformer. If such a transformer is required, the University Sound Model 5436B Transformer and Mounting Bracket Kit is recommended.

Specifications

Power Capacity:	60 watts continuous power
Frequency Response:	70-12,000 Hz
Sound Pressure Level:	100 db, on 3½′ air column re-entrant horn, 4′ on axis, at rated input.
Impedance:	8 ohms (voice coil)
Dimensions:	7⅞″ dia. — 7⅜″ length
Horn Attachment Dimensions:	Standard 1⅜″ — 18 threads
Conduit Connection:	Standard ½″ pipe conduit
Finish:	Acrylic gun-metal gray
Net Weight:	12 lbs.
Accessories (must be ordered separately):	PS-1 Explosion-Proof Pressure Seal Connector (see specification sheet US-5034)
	5436B Transformer and Mounting Bracket Kit

Underwriters' Laboratories Approved Explosion-Proof Classifications

Class I—Environmental characteristics as follows:

Group B:	Hydrogen-air
Group C:	Atmosphere containing ethyl-ether, ethylene, cyclopropane.
Group D:	Atmosphere containing gasoline, petroleum, naphtha, alcohol, acetone, lacquer solvent and natural gas, benzine, butane, propane, benzol.

Class II — Environmental characteristics as follows:

Group E:	Atmosphere containing metallic dust such as aluminum and magnesium.
Group F:	Atmosphere containing carbon, coal, coke dust.
Group G:	Atmosphere containing grain, starch and flour dust.

Special Installation Instructions

The installation of explosion-proof speakers must conform with regulations governing electrical equipment for hazardous locations and with provisions of the National Electrical Code. NO ALTERATIONS MAY BE MADE TO THESE DRIVER UNITS! No holes may be made or holding devices screwed into the case which may weaken or endanger the structure after installation. All main bolts on the case housing of the drivers must be tightened. Wiring may be run in threaded rigid or approved standard electrical flexible conduit and engage 5 full threads. Explosion-proof conduit boxes, junctions and fittings are of approved type and usually contain screw-in covers. Unions, elbows and bends are also of special design.

Electrical Connections

Access to the driver unit for electrical connections or installation of the Model 5436B transformer is made by removal of the six bolts holding the case halves together. In the case of a short run of conduit line, up to 100 feet, and in cases where the amplifier does not have impedances other than the usual voice-coil impedance (i.e., 4, 8, 16 and 32 ohms), the voice coil of the driver may be connected directly to the line. Use the 8-ohm tap on the amplifier. For long lines, or when several speakers are to be used on a single amplifier, a high-impedance or constant line voltage distribution system is recommended. The Model 5436B matching transformer (optional) is coded for easy connection.

Architect's and Engineer's Specifications

The explosion-proof driver shall be University Sound Model 7105X or equivalent. Model 7105X shall be EXPLOSION-PROOF, and approved by Underwriters' Laboratories for use in hazardous areas specifically designated as Class I—Groups B, C and D, and Class II—Groups E, F and G. Driver shall have a full range power capacity of 60 watts continuous power. Frequency response shall be 70-12,000 Hz. Case shall be heavy die-cast aluminum with dimensions not exceeding 7⅞ inches in diameter and 7⅜ inches in length. Rear of case shall be made removable to facilitate wiring by incorporation of six ⅜-inch diameter bolts and provisions made for connection of standard ½-inch pipe conduit. The driver voice-coil impedance shall be 8 ohms. Rim-centered mechanism, with separate split palate voice-coil/diaphragm assembly, shall employ at least 24 oz. of Alnico-V, W-shaped magnet. Voice coil shall be 2 inches in diameter and diaphragm shall be of linen-base molded phenolic. Coupling diameter shall be standard 1⅜"-18 threads for screw-in attachment to horn. Weight of unit shall not exceed 12 lbs. Finish shall be baked-on acrylic gun-metal gray.

Warranty

University Sound guarantees all products to be free from defective material and workmanship for the following period from the date of resale by an authorized University Sound Customer.

A. Electronic Products	Two (2) Years
B. Speakers and Microphones	Five (5) Years
C. Underwater Products	One (1) Year
D. Musical Sound	One (1) Year

University Sound will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use, provided the unit is returned to our factory via prepaid transportation. (Parcel post is not suggested.) This warranty provides that examination of the returned product must disclose, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subject to misuse, neglect, accident, improper installation, or where the serial number has been removed or defaced and is given in lieu of any other warranty implied or expressed and will not cover any consequential damages.

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