



DIVING EQUIPMENT & SUPPLY COMPANY, Inc.

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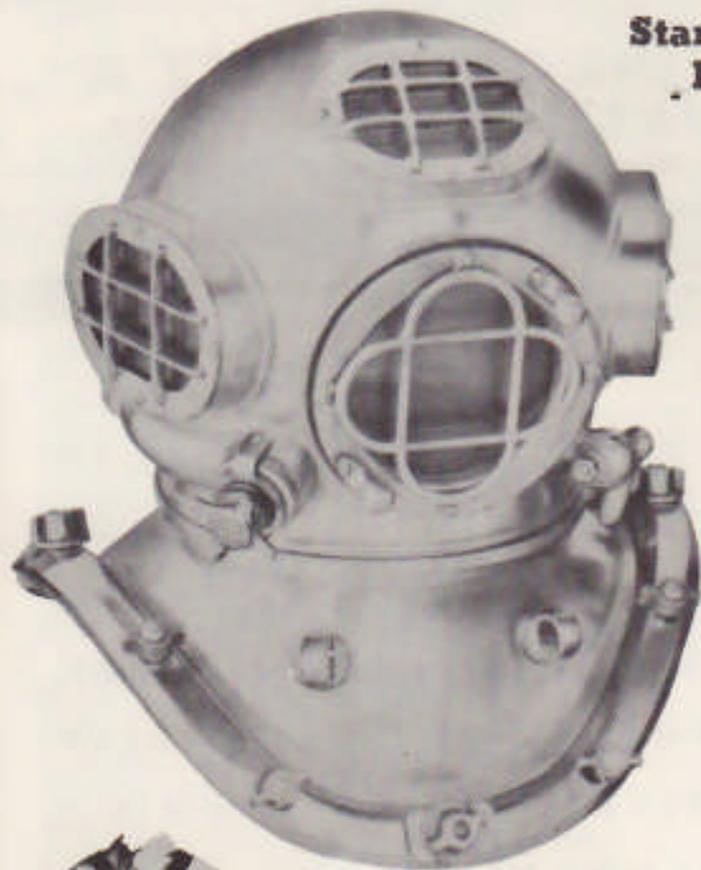
THIS CATALOG IS INTENDED
TO ILLUSTRATE AND DESCRIBE
ONLY A SMALL FRACTION OF THE FINE
QUALITY AND MOST MODERN
EQUIPMENT FOR USE IN DEEP
SEA DIVING WHICH
WE MANUFACTURE.

*It's DESCO for news
in Diving Equipment*



Standard Commercial Diver's Helmet

Cat. No. 29134



After years of constant use this helmet is now considered the most practical type for all kinds of commercial diving work. It may be used for depths up to 300 feet on compressed air; however, general diving depth does not exceed 60 feet as far as most commercial divers are concerned. The breast-plate is designed to fit most commercial dresses.



Model 202



Model 203

Browne Commercial Dresses

Cat. No. 26033

These white diver's dresses can be furnished to fit any breastplate regardless of who manufactured it. When ordering, merely mention make and type of helmet and breastplate. The standard weight Browne commercial dress is made of two coats of heavyweight twill using a spreader layer of rubber. Collar and cuffs are heavy-duty crude rubber. Model 202 has reinforced knees and feet while Model 203 is further reinforced at the crotch with a reinforcing patch from knee to foot, and elbows.

Weight—Light, medium or standard—Approx. 10 lbs. Sizes 1, 2, 3, and 4.

Order by name and catalog number specifying size and weight desired as well as type of breastplate with which it is to be used.

THE DESCO LUNG

Cat. No. 59033

The Browne Lung is a self-contained breathing apparatus with an extremely wide variety of uses. It is recommended for general use on land or in water: for Fire and Police Departments' emergency work in smoke and gas; by welders; or for cleaning gas and chemical containers or swimming pools; or in mine rescue work.

For underwater application it is ideally suited for diving to a depth of 60 feet or for swimming at any given level. During the war large quantities of the Browne Lung played a very important part in every combat zone for salvage, construction, demolition, and other specialized fields when underwater swimming and diving were necessary under adverse and otherwise impossible conditions. In official endurance tests, a record distance of 7,500 feet was covered by underwater swimmers without surfacing.

When used underwater, the lead-weighted belt is attached to the diver's body, and the removable weights permit very close adjustment of buoyancy when the operator wishes to swim. The CO₂ output taken at moderate exercise at a ten-foot depth according to actual official test records was as follows:

| | |
|------------|---------|
| 15 minutes | — 0.11% |
| 30 minutes | — 0.09% |
| 45 minutes | — 0.09% |
| 60 minutes | — 0.13% |

The maximum length of dive recorded at the ten-foot depth at very moderate exercise is 2 hours, 15 minutes. The positive buoyancy of the lung when floating on the surface using the lung as a life preserver is seventeen pounds.

Its wide variety of uses include general damage control work; emergency diving at the diver's own risk to greater depths; underwater swimming for lifeguards where the recovery of a body must be made quickly; for light salvage work; as an escape vest from a submerged or disabled vessel during an emergency. It also adds sport, depth, and endurance to spear fishing and other water sports. It is recommended that Swim Fins be used with the lung as much greater speed is obtained underwater.

The Browne Lung is shipped with spare parts and 21 pounds of Baralyme for refilling the canister and with an oxygen connector for recharging the oxygen cylinder. The operation of this lung is simple, the only control being on the oxygen cylinder on the diver's chest while the breathing through the canister on the diver's back is automatically circulated by breathing valves built into the mask.

The clear plastic face piece insures good vision and the soft rubber seal provides a comfortable, air-tight condition.

The canister is built of copper and brass while the oxygen cylinder is heavily coated both inside and out with a hot dip galvanized process. Polished, cast brass fittings and heavy-duty twill and rubber breathing bag also pass rigid U. S. Navy specifications.

Weight — 38 lbs. with belt. Standard size only.

Order by name and catalog number.

Patent Number 2402884

Catalog No. 59033

Complete with accessories

Additional baralyme per 7 lb. can



SHOES

Desco's line of divers' shoes includes lightweight and heavyweight diving shoes as well as the sponge divers' one-piece sandal.

Browne Navy-Type Lightweight Diving Shoe

**Cat. No.
29078**

(Patent Applied For)

The lightweight shoe is identical in material and construction to the heavyweight with the exception of the sole, which is corrugated brass. Since it weighs only approximately 28 pounds per pair, it is used by divers who do not require a heavy shoe.

WEIGHT — Approximately 28 pounds per pair. Standard size only

Order by name and catalog number

BELTS

Desco offers a wide range of belts from the heavyweight to a simple lightweight belt as well as a line of weighted vests.



Belt — Cat. No. 29143

GLOVES

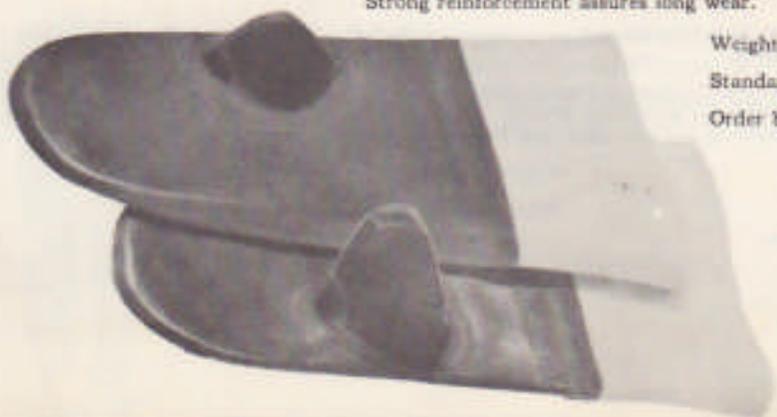
A complete line of divers gloves and mitts. U. S. Navy type, rubber coated and fabric.

Diver's Rubber-Covered Mitt Cat. No. 26046

This diver's mitt is preferred by most commercial divers. It is constructed of twill with a heavy coating of rubber. Strong reinforcement assures long wear.

Weight — Approx. 1 lb. per pair.
Standard size only.

Order by name and catalog number.



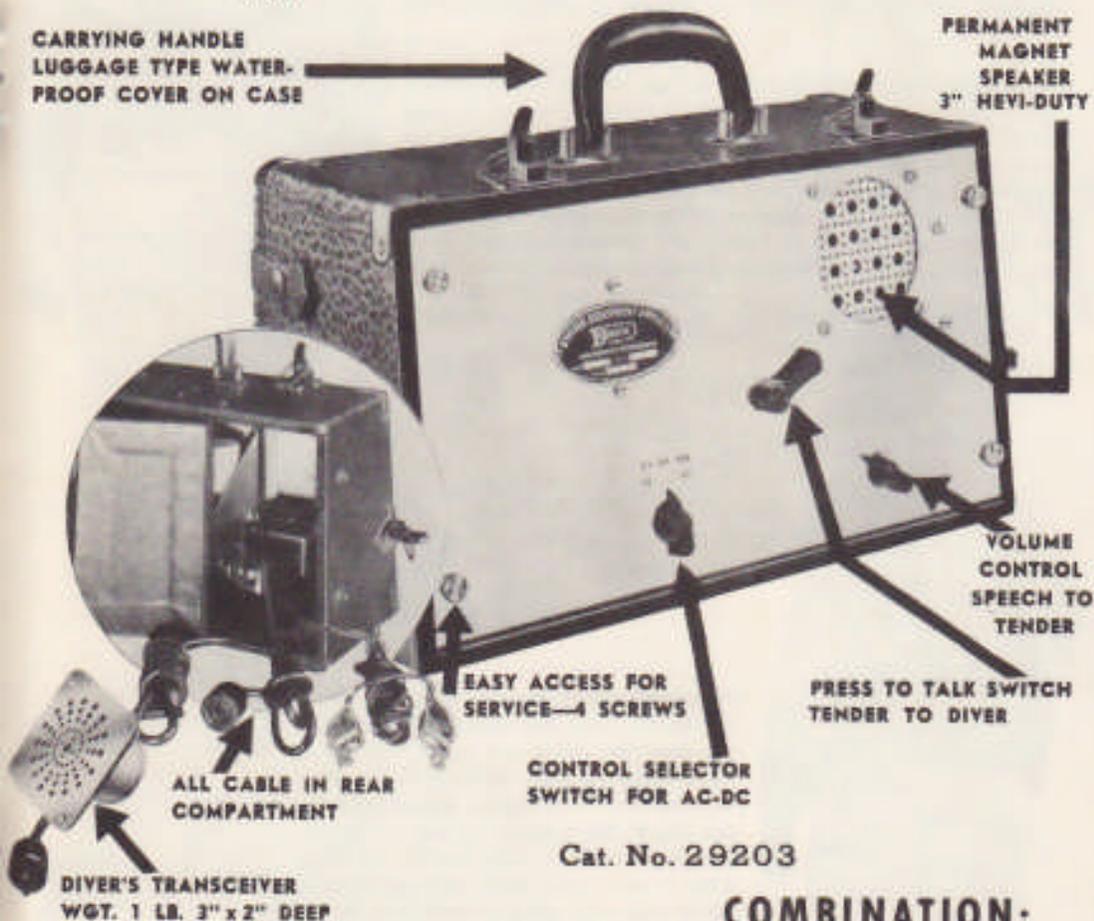
PHONES

Every diver, marine contractor, shipyard, tug owner, as well as amateur diving enthusiasts should own this DESCO Handi-Portable Electronic Telephone. The unit offers a low cost 2 way telephone for diving.

A light weight compact unit, portable and compact. Built for clear speech and being salt water resistant it can be used in any waters. DESCO offers this clear speech, intercom system as a time saving unit for every type of underwater work.

CARRYING HANDLE
LUGGAGE TYPE WATER-
PROOF COVER ON CASE

PERMANENT
MAGNET
SPEAKER
3" HEVI-DUTY



EASY ACCESS FOR
SERVICE—4 SCREWS

CONTROL SELECTOR
SWITCH FOR AC-DC

PRESS TO TALK SWITCH
TENDER TO DIVER

VOLUME
CONTROL
SPEECH TO
TENDER

ALL CABLE IN REAR
COMPARTMENT

Cat. No. 29203

COMBINATION:

- 6 VOLT DC
- 110 VOLT AC
- OPERATION

★ PRICED RIGHT

Only DESCO offers this Time Saving 'phone

Browne Lightweight Suit

Patent Applied For

Cat. No. 59078

The Browne lightweight suit is the latest development and greatest improvement in diving equipment in 100 years. The entire suit with belt weighs only 56 pounds for use in cold water or in strong current or tide. The removal of 30 pounds of weight from the belt will give the diver a sufficiently heavy suit for use in warm and quiet water. This additional weight is not necessary to remain on the bottom in warm water as less clothing is worn, which reduces the air volume of the dress. The belt may be quickly released for emergency return to the surface.

This suit has been used for practical salvage work as deep as 250 feet and to the extreme depth of 600 ft. in experiments and in most instances will permit the diver to do more work in less time than the diver wearing the standard heavy equipment. For deep water, standard $\frac{1}{2}$ inch air hose is used; and for depths to eighty feet, $\frac{5}{16}$ inch I.D. welding hose is sufficient for the air supply. A feature of this suit is that the face mask forms a seal on the diver's face; therefore, all of his air volume is inside his mask.



When underwater, the suit collapses close to the diver's body, and should a leak occur in the dress, the suit is still usable and safe as water would not enter the diver's mask. Since the dress is not inflated, and because the diver can adjust the weights, he can control his buoyancy and swim with ease at any given level, or when operating in very thick wreckage he may swim along the surface to his job and then descend, thus avoiding entanglement. In cases where he is inspecting a ship's hull or wheel, where it is necessary to move around the hull of the ship, this can also be accomplished easily with the Browne lightweight suit since the diver can adjust his weight in the water to practically zero and pull himself about with his fingertips in the planking cracks or where the plates lap. These maneuvers are practically impossible, or certainly extremely tiring to say the least, with the helmet-type diving equipment. All of these features make the diver's time more productive.

The mask has a soft rubber seal and can be worn for three or four hours without discomfort. The faceplate of the mask is removable for surface breathing while the diver is being dressed and undressed. Pockets built into the dress itself are a convenient feature for carrying tools, etc. The suit can be equipped with either gloves or cuffs and telephone. Entry into the suit is through a patented opening across the diver's shoulders at the rear. After entry into the suit, this opening is folded and clamped as shown in the picture in the lower righthand corner. This feature eliminates the necessity of a heavy breastplate and clamping arrangement as used in standard heavy equipment. The diver can dress and undress in a fraction of the time it takes with other equipment. A breather bag is standard equipment with this outfit to further facilitate easier breathing.

This suit will pay for itself in a few jobs as the amount of work accomplished is much greater than in heavy equipment, and the diver does not feel undue fatigue from carrying excessive weight. The Browne weighted vest is desirable for use with this suit because of its comfort and inasmuch as weight can be removed. Weighted shoes may be worn if desired.



WEIGHT — 56 lbs.

Sizes 1, 2, 3, and 4.

Order by name and catalog number, specifying whether cuffs or gloves and telephone pocket are desired.

Browne U. S. Navy Type Diving Mask Outfit

Cat. No. 59067

(Patent Applied For)



Patent Pending
Catalog No. 59067
Complete unit with belt,
no air hose or compressor

$\frac{1}{2}$ " Divers' air hose 50
foot length with fittings

$\frac{3}{8}$ " Divers' air hose 100
foot length with fittings

Every diver, marine contractor, shipyard and tug owner should own a Browne diving mask outfit. It will solve many diving problems economically and profitably since it is not necessary to dress a diver in a full suit for short jobs. It is recommended for use in moderate depths to 100 feet, but it has been used to depths of 300 feet in warm water. The Browne diving mask is standard equipment in the U. S. Navy, being used in large quantities for salvage and inspection work. The Browne diving mask has played a very important part during the war in salvaging ships, demolition work, dock repairs, etc.

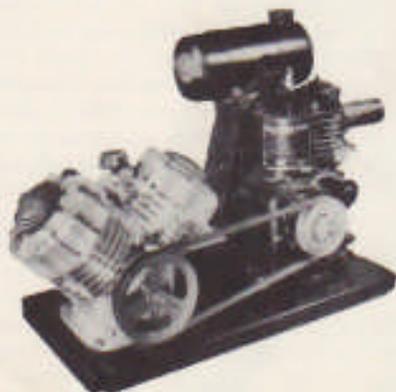
Its construction consists of all fittings of brass, a rubber seal, and a plastic window. It is fastened by rubber headtraps and flexible rings. A volume bag makes for more comfortable breathing. The control valve and non-return valve are mounted directly on the mask. The belt has a quick-release feature for use in an emergency.

This mask permits the diver to operate freely and safely regardless of his position under water, as it forms a good seal on any face. Weights are readily removed from the belt to suit the diver's requirements depending upon the degree of buoyancy needed. This mask may be used with the lightweight dress in cold water.

| Weight | Belt | Volume Bag | Mask | Quick-release |
|--------|---------|------------|-----------------------|---------------|
| | 24 lbs. | 1 lb. | 25 $\frac{1}{4}$ lbs. | 1 lb. |

Order by name and catalog number.

COMPRESSOR



This gasoline engine driven compressor recommended for use with diving mask outfit or lightweight suit to 40 feet. It may be easily carried from place to place, weighing with the engine only 65 lbs. It should give years of service under normal operation and is highly recommended.

Catalog No. 7920

Navy Type Lightweight Dress (With Exclusive Browne Back Entry)

(Pat. Applied For) **Cat. No. 26031**

This suit is very desirable when the water becomes too cold for using the face mask or the Browne Lung under ordinary conditions. It is also particularly adaptable for use as a wading dress or for a dress to be worn in conjunction with the Browne Open Helmet as a protection against cold water. Thousands of these dresses are being used by the armed forces and civilian divers with the Browne diving mask and lung, serving America's diving requirements all over the world for all types of underwater work.



This dress is very similar to the Browne Lightweight Diving Suit except that the mask is not permanently attached to the dress. A perfect seal is formed by a rubber gasket around the face-edge of the dress which is compressed between the mask and the diver's face. Two layers of medium-weight twill with a rubber spreader coat between, plus reinforced elbows and knees, insure long wear. The feet are heavily patched with a thick sole. Another important feature of this dress is that the mask need not be installed until after the diver is completely dressed. A 50-pound belt should be used when heavy clothing is worn for protection but in warm water a 30-pound belt is sufficient, as lighter clothing is worn and the air volume of the unit is reduced.

The Browne weighted vest is very desirable for use with this suit because of its comfort and since weights can easily be removed.

Weight — 10 lbs. Standard size only.

Order by name and catalog number and specify whether cuffs or gloves are desired.

General Instructions and Information Regarding the Use of Shallow Water Diving Equipment

The term "shallow water diving equipment" as used in this catalogue covers all diving equipment used by the skin diver operating in fully warm water. Under certain conditions and at the diver's own risk certain forms of this equipment may be used to very great depths, providing the water is warm, with complete safety, although it is not recommended.

The use of shallow water diving equipment should be limited to sixty feet although the general use of the equipment would be within the 36-foot mark. The skin diver can dive more comfortably if wicker underwear is worn as this allows the water close to the diver's body to retain a certain amount of heat and the diver will not chill so quickly. This catalogue lists assorted equipment for shallow water diving and the diver's choice of equipment depends upon his own preference. The trend has been toward the adoption of a rubber latex mask with attached air hose and breathing bag. The open helmet, or shallow water helmet as it is sometimes called, is a fairly practical piece of equipment but offers many limitations. The helmet is not only heavy, cumbersome and uncomfortable, but does not allow the diver to bend over to work in a horizontal position. All these points have been overcome through the development of the Deane Diving Mask which was designed originally for the United States Navy. Listed in this catalogue is an open helmet with exceptional visibility for those divers who prefer this type of equipment.

The Deane Lung is recommended for shallow water diving, spearfishing, etc. where the water is also warm. This equipment was not developed for heavy salvage work but, particularly, for light salvage operations and inspections. This equipment is self-contained, allowing a working time of one and one-half hours under water without refilling the oxygen cylinder.

A life line should be worn with all diving equipment and pre-arranged signals determined. The abandonment of shallow water equipment underwater should be undertaken only if the diver thoroughly understands this operation. The diver abandoning his equipment underwater faces the danger of an embolism if he does not have all of his faculties under control at the time of abandonment and does not exhale through his nose or mouth. A diver underwater has his lungs full of air, and as he ascends this air must escape from the lungs as it expands. If this air is forcibly held in the lungs by the tight clamping of nose and mouth, the lungs will become ruptured from the pressure which automatically builds up during the ascent.

The matter of attaching weights to diving equipment and to the diver should be discussed at this point. Under no circumstances when using the open helmet should weights of any kind be attached to the diver's body or should the helmet be attached to the diver. All weights should be fastened to the helmet, the air hose should lead from the helmet into a gooseneck at the rear of the helmet under the diver's arm and should be lashed to the breathing air hose. The life line should be placed around the diver's chest but not secured to the helmet. Thus, if the helmet is accidentally pulled or knocked off the diver's head, the diver will not be encumbered by weights attached to his body and will be free to swim to the surface or be pulled to the surface exhaling air as he ascends. The same instructions hold true regarding all shallow water equipment except where safety provisions incorporated in all Deane equipment are used. Quick release methods are built into all such equipment for the release of weights and equipment. In emergencies the weights should be dropped first and the mask removed immediately afterwards. Abandonment is suggested only as a last resort as it takes time to abandon the gear which time could be used in attempting to reach the surface.

The most important factor involved in underwater operations is the air supply. The air compressor should be of a dependable type and there should be an auxiliary means of supplying air should the compressor fail. It is recommended that wherever a compressor is used there should be a standby compressor or an auxiliary compressed air tank of sufficient size to supply the diver for at least fifteen minutes which would enable him to free himself if he has become fouled on the bottom. Dependable air hose and fittings are equally essential as occasionally there is a strain put on the air hose which may possibly separate the hose from the couplings. A non-return valve must be used on all equipment

at the point where the air enters the diver's mask or helmet. This valve is additional protection for the diver should his surface air supply become leaky or stop. Should this occur, the air in the mask or helmet would instantly return up the air hose with serious results, and in deeper water would be fatal.

All diving work should be done with a descending line. It is absolutely necessary for the diver to descend on a line that he may govern his descending rate. It may become necessary for the diver to hold himself on the line if he is not getting sufficient air to descend or if his ears do not clear. If the diver is not able to stop at any given point along the line, he may suffer from a squeeze or ruptured ear drum.

The Deane lightweight suit may be classified as shallow water equipment under certain conditions although it is usable to great depths. However, this discussion on the use of shallow water equipment covers the lightweight suit insofar as safety measures and suggestions are concerned.

Diving equipment listed in this catalogue is supplied with adjustable weights so that the diver may control his buoyancy. It is quite desirable at times for the diver to reduce his weight and become more buoyant so that he may swim in his equipment, particularly, shallow water gear, while at other times he is more comfortable with an excessive amount of weight to maintain his position in a strong current. The adjustable weights are particularly desirable under these conditions.

A feature of the Deane Diving Mask and lightweight suit is that a small hose of welding hose type, 1/2" I.D., can be used in place of the heavy standard 1/2" diving hose. Excellent breathing qualities are obtained through the use of the breathing bag supplied with the mask and suit. This breathing bag acts as a buffer when breathing against the continuous flow of air into the mask. The bag usually is a volume bag which operates in cooperation with the diver's lungs. The bag is not absolutely essential for diving equipment but will be found desirable and will enable the diver to go to a greater depth on the same volume of air.

You will note that we list but one hand pump. The Deane hand pump is a practical air supply for use to 36 feet. Its light weight and compactness makes it very desirable for general use by persons desiring to go underwater for inspection, sport, and light work. It has been the general trend by all government agencies and commercial divers to switch to power-driven compressors for practical reasons. Actual tests run by a government agency prove that the large hand pump gives an inadequate supply of air to the diver at an 800-foot depth which causes the diver to cough and reduces the amount of work he can accomplish due to inadequate air supply. Contrary to the former general belief that machines run in an air compressor was dangerous to the diver, tests were made and the point proven that a compressor lubricated with a high-grade motor oil is not injurious to his health. Care should be taken, however, when using the type of air compressor which combines the crankcase of the compressor and engine. This construction may allow the carbon monoxide exhaust fumes from the engine crankcase to enter the compressor and pass on to the diver. Experimental work has proven that a diver can do considerably more work underwater when his air supply is assured and when a standby air supply is available. It is recommended that a filter be used which will remove all oil and moisture from the air. Particular notice should be taken of this subject when diving in cold weather and cold water. The removal of moisture at the source of the air supply will prevent the fittings from becoming frozen in cold weather.

For many reasons power compressors listed in this catalogue are far superior to the old hand pump and especially are more portable. The commercial diver will readily realize the increased profits through the use of our power compressors as they require little servicing and a considerably smaller crew to operate. The initial cost of the power compressor is much less than the hand pump and will supply considerably more air.

Desco "SPORTSTERS" Nationally Known

SPORTS ITEMS, BEARING THE DESCO LABEL



Water Skis

The sleek, streamlined appearance of this ski makes it the universal choice of water enthusiasts everywhere. Constructed of tough, kiln dried, straight long grain ash for added strength and finished in marine spar varnish or finest high gloss enamel for extra beauty and durability. Features new 1949 design, self-adjustable foot binding unequalled for practicability, comfort, beauty and permanence. Special phosphor bronze spring automatically adjusts binding to feet of varying sizes.

Cat. No.
29224



Aquaplanes

Sleek, lightweight, solid type construction, designed by experts. Choice of young or old fry, amateur and professionals alike. Equipped with substantial rubber mat, eighteen feet of soft white rope, which is secured to board with special rope locking brass hardware clips. Colorful doubletone paint designs in a variety of colors, in special salt water resistant enamel. Cat. No. 29189

Swim Masks

Great for underwater exploring and spearfishing

Cat. No. 59070
Deluxe Model

Finest Mask
Made!



For seeing with clear, undistorted vision. Protects eyes, nose and sinuses from salt or chlorinated waters. Produced by the largest manufacturers of professional diving equipment. Safest mask made of finest unbreakable, optically clear plastic lens, with novel soft rubber mask — molds and fits to any type face. Seals perfectly. Packaged in colorful individual "silent salesman" display box.

Nose Clips A BOON TO SINUS SUFFERERS



Cat. No.
29186

A new advanced design. Seals the nostrils against water and keeps sinus infection at a minimum. The broad rubber surfaces allow pressure to be applied gently and yet firmly without discomfort to the wearer.

Cat. No. 59087

Swimtails



Top view of SWIMTAIL showing undulating principle of design, the result of years of scientific study.

Bottom view of SWIMTAIL shows safety buckle that fits snug. Safe in any surface.

You can swim longer — faster with the new swimtails. Swimtails are the result of years of study of swim movements of fish and combine in their design the scientific principles discovered in this research. They bring to swimmers an exciting new thrill in this great sport. Champion swimmers have proven conclusively that you can swim farther faster and with less fatigue with swimtails.

Available in three sizes, small, medium and large, with quickly adjustable non-slip buckle and heel strap. Molded rubber construction, designed for comfort, packaged in colorful display box.

Desco
NATIONALLY KNOWN

DIVING EQUIPMENT & SUPPLY COMPANY, INC.

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