Allen DeVilbiss was a country doctor with simple values. The kind of doctor who tried to make life easier for the folks he treated by finding better ways to care for them. Such was the case more than a century ago when he developed the first DeVilbiss atomizer, which made it possible to spray medication in a patient’s nose and throat, and eliminated the necessity for unpleasant and inefficient swabbing.

While the new atomizer was an instant success, the market at that time seemed to be limited, and Dr. DeVilbiss could not find anyone who would manufacture the device. As a result, he formed an individual proprietorship — known as The DeVilbiss Manufacturing Company, in Toledo, Ohio — to make the atomizer. Soon he perfected and patented an adjustable tip to control the spray, which tremendously increased its usefulness.

The DeVilbiss Model 15 Atomizer, one of the first models manufactured in the new company, is still made today by DeVilbiss Healthcare in Somerset, Pennsylvania.

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**DeVilbiss Atomizers**

First produced in the early 1900s, features the same adjustable swivel tip and vented nasal guard that made it as popular then as it is today.

**Model 15-RD**
- Metal atomizer with adjustable tip for directing spray up or down to reach inaccessible areas of the throat
- Can be used with or without nasal guard
- Used for nose and throat treatment — hand bulb
- Basically, all types of oil or water solutions can be used that are compatible with nickel plating
- Used in colleges and laboratories for experimental testing
- Metal banded tubes and spray tips (sold separately) are used by research laboratories

**Model 151**
- A vacuum or venturi-type atomizer that can be operated by one of the following: compressed air, a No. 1 hand bulb or the No. 630 cut-off assembly
- Designed for use with aqueous solutions
- Precise control and application of topical anesthetics
- All types of oil or water solutions can be used that are compatible with rhodium and nickel plating
- Produces fine mist without force
- Small tube may be inserted well into nasal passages
- Removable spray tube for ease in sterilization
- Top consists of all metal construction
- Used in decubitus ulcer treatments, debridement of wounds, and wound cleansing
- Use by E.N.T. doctors, research laboratories, veterinarians, burn centers, wound care facilities, emergency rooms

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*Allen DeVilbiss, M.D.*

In 1888 he founded DeVilbiss Manufacturing.
Model 286-RD
- Ultra-fine particle atomization of most medical solutions
- Straight flow tip is easily disassembled for cleaning
- Suitable for applying fine, medicated spray to nasal and oral cavities, or oral vaccines
- May be used with compressed air, the No. 1 bulb or Model 630 Bleeder-Type cut-off
- Constructed of polypropylene material for spraying solutions incompatible with metal
- Popular with treatment of animals and veterinary clinics and is used for testing in laboratory research
- Used by E.N.T. doctors, research laboratories, veterinarians, burn centers, wound care facilities, emergency rooms

Model 163
- Designed for quick change and replacement of spray tube
- Tight-fitting “O” ring ensures consistent spray
- Metal spray tube may be sterilized after each use
- All types of oil or water solutions can be used that are compatible with rhodium and nickel plating
- Adjustable tip permits up or down spray for aqueous solutions of heavier viscosity
- May be operated by a No. 630 Bleeder-Type cut-off assembly or a No. 1 bulb
- Used for decubitus ulcer treatments, debridement of wounds, and wound cleansing
- Used by E.N.T. doctors, research laboratories, veterinarians, burn centers, wound care facilities, emergency rooms

DeVilbiss Powder Blowers

Model 119
- Ideal for applying an even diffusion of any powder to nose, throat, ear, tooth sockets, body orifice, and surfaces
- Curved spray tube for ease and convenience of applications
- Used by E.N.T doctors, medical doctors, research laboratories, veterinarians, burn centers, wound care facilities, emergency rooms

Model 175
- Operated by the DeVilbiss No. 630 cut-off assembly or a No. 1 bulb
- Used by E.N.T doctors, medical doctors, research laboratories, veterinarians, burn centers, wound care facilities, emergency rooms
DeVilbiss Nebulizers

Model 45
- Used for treatment of asthmatic patients
- Designed for comfortable administration of fine mists of uniform density to reach deep into lung cavity
- Converts liquid [i.e. antibiotic, oil extracts, etc.] into aerosol
- Used in respirator and mask test fit kits, and bulk shipped as item 4510
- Break-resistant nebulizer that easily disassembles for sterilization by using one of the following methods: autoclaving, boiling or cold sterilization
- Polycarbonate plastic nebulizer may be used with or without mouthpiece [No. 25-31-605]
- Complete with mouthpiece, extra jet, and bulb
- MMAD 5 microns
- 5cc capacity
- Used by research laboratories

Model 45 hand-held spray nebulizer delivers aerosol particles of uniformly consistent density deep into the lungs. The break-resistant nebulizer easily disassembles for sterilization.

Model 46
- Used with a DeVilbiss brand compressor for treatment of asthmatic patients
- Designed for comfortable administration of fine mists of uniform density to reach deep into lung capacity
- Unique “T” piece allows patient to leave nebulizer in mouth while exhaling
- Attaches to aerosol face mask or face tent and can be hand operated or compressed air driven with a DeVilbiss brand compressor
- Break-resistant nebulizer that easily disassembles for sterilization by using one of the following methods: autoclaving, boiling or cold sterilization
- Polycarbonate plastic nebulizer may be used with or without mouthpiece [No. 25-31-605]
- MMAD 5 microns
- 5cc capacity
- Comes complete with tubing, activator valve, mouth piece, and extra jet

The Model 646 Nebulizer converts liquid into aerosol via high velocity, compressed air stream. Used in conjunction with a DeVilbiss brand compressor, it delivers consistent aerosol particles to the lungs of COPD patients.

Model 177 Irrigation Syringe

The Model 177 Irrigation Syringe is efficiently used in various E.N.T. irrigation procedures.

Model 177
- Small, malleable tube permits deep, yet painless introduction into external ear canal
- Regulate flow by placing finger over small hole in head of instrument; if air pressure is 20 psi or under, then stream will stop when finger is removed
- Used by E.N.T. doctors, medical doctors, research laboratories, veterinarians
- Can be operated by the No. 630 or a No. 1 bulb

Operated by hand bulb or compressed air, the Model 180 Nebulizer is especially practical for administering vaporized medication to sensitive nasal passages.

Model 180
- Very practical nebulizer for use where vapor instead of spray is indicated for treatment of sensitive nasal cases
- Specially suited for solution with oil or glycerin base medications
- Good for deep-seated conditions of lower respiratory tract or very sensitive nasal tract
- All types of oil or water solutions can be used that are compatible with rhodium and nickel plating
- Vented nasal guard restricts development of undesirable pressure, and small and large plain guards are provided for inflation purposes
- Used by E.N.T. doctors, research laboratories, veterinarians

The Model 177 Irrigation Syringe is efficiently used in various E.N.T. irrigation procedures.
**DeVilbiss Accessories**

**Model 630 — Bleeder-Type Cut-Off Assembly**
Includes five feet of translucent surgical tubing (630-605) and provides a convenient method for operating many DeVilbiss instruments. Designed for use with DeVilbiss air compressors. Placing thumb over bleeder hole introduces compressed air into instrument. Also available in seven-and-a-half foot length (630-90).

**Model 624**
A convenient holder for DeVilbiss professional instruments. Handmade, walnut wood, four-hole rack for office use or with the portable E.N.T. HandiPak Kit.

**RhinoGuard™ Atomizer Tip Cover**
The RhinoGuard atomizer tip cover is designed to prevent cross contamination and its associated risks. Inexpensive and convenient to use, the disposable RhinoGuard™ protectors fit the tips of DeVilbiss Atomizer models 15, 163, 180, and 286 – our most popular models.

Precision-molded of soft, flexible polymer, the protectors help prevent trauma and seal the nasal passage during use. The flared shield reduces splash-back for improved clinician protection. The RhinoGuard atomizer tip cover helps keep the atomizer’s tip in the correct location during use – helping meet the challenge of treating pediatric and other active patients.

Its unique design enables more efficient administration of fine sprays. RhinoGuard atomizer tip covers are available in a convenient storage and dispenser box of 250 non-sterile protectors and refills of 100 quantity.

**Pulmo-Aide® Compact Compressor/Nebulizer**

**Specifications**

<table>
<thead>
<tr>
<th>DeVilbiss Pulmo-Aide® Compact Compressor/Nebulizer Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong> 7.5&quot;W x 4&quot;H x 7.2&quot;D</td>
</tr>
<tr>
<td><strong>Weight</strong> 4.8 lb (2.18 kg) [base unit]</td>
</tr>
<tr>
<td><strong>Operating Voltage</strong> 115 VAC, 60 Hz, 2.5 A</td>
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<tr>
<td><strong>Power Consumption</strong> 140 watts (maximum)</td>
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<tr>
<td><strong>Max. Compressor Pressure</strong> 35 psig* or greater (241 KPA)</td>
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<tr>
<td><strong>Max. Compressor Liter Flow</strong> 8 lpm* or greater</td>
</tr>
<tr>
<td><strong>Warranty</strong> 5 years limited</td>
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</tbody>
</table>

**Nebulizers**
- **Operating Pressure** 9-13 psig
- **Liter Flow** 5-8 lpm
- **Capacity** up to 6 ml (cc)
- **Nebulization Rate** 0.15-0.35 ml/minute
- **MMAD** 5 microns

**Atomizers**
- **Operating Pressure**
  - Model 151 18 psig*
  - Model 163 10.5-11.0 psig*
  - Model 286-RD 11-16 psig*
- **Liter Flow**
  - Model 151 7 lpm*
  - Model 163 8 lpm*
  - Model 286-RD 5-7 lpm*
- **Atomization Rate**
  - Model 151 13 ml/min. or greater
  - Model 163 21 ml/min. or greater
  - Model 286-RD* 10 ml/min. or greater

* Conditions may vary based on altitude above sea level, barometric pressure changes.

**Additional Parts**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PRODUCT DESCRIPTION</th>
<th>FOR USE WITH</th>
</tr>
</thead>
<tbody>
<tr>
<td>42-5-605</td>
<td>Rubber Gasket (5 pack)</td>
<td>Models 45, 4510, 646</td>
</tr>
<tr>
<td>45-404-605</td>
<td>Nebulizer Accessory Pack (5 Pack)</td>
<td>Models 45, 4510, 646</td>
</tr>
<tr>
<td>45-5-605</td>
<td>Fluid Jet (5 pack)</td>
<td>Model 45</td>
</tr>
<tr>
<td>642-7-605</td>
<td>Finger Valve (5 pack)</td>
<td>Model 644</td>
</tr>
<tr>
<td>7427D-605</td>
<td>Disposable Tubing (5 pack)</td>
<td>Models 646, 800G</td>
</tr>
<tr>
<td>40-TR</td>
<td>Adapter and Nasal Tip Assembly</td>
<td>Models 45, 4510, 646</td>
</tr>
</tbody>
</table>
**DeVilbiss ENT Parts**

### Model 15-RD
- **1-RD-605**: Bulb for atomizer model 15-RD, 286-RD
- **114-S-605**: Washer for atomizer models 15-RD, 119, 177
- **115-QB**: Bottle for models 15, 119, 177
- **127-G-605**: Outlet tube for models 15, 119
- **12-RLN-605**: Nasal guard
- **115-CLN-605**: Adjustable spray tip for models 15, 163

### Model 163
- **115-CLN-605**: Adjustable spray tip for models 15-RD, 163
- **152-X-605**: White Teflon® for models 151, 163, 175, 177, 180
- **150-OT-605**: Bottle for models 151, 163, 175, 180
- **150-QB**: Outlet tube for models 151, 163, 175, 180
- **163-T-605**: Large gray washer 2-9 size
- **163-S-605**: Small gray washer 2-6 size
- **12-RLN-605**: Nasal guard (not pictured, see 15-RD)
- **251-S-605**: Black washer for models 151, 163, 175, 180, 286-RD

### Model 151
- **150-QB**: Bottle for models 151, 163, 175, 180
- **150-OT-605**: Outlet tube for models 151, 163
- **152-X-605**: White Teflon® for models 151, 163, 175, 177, 180
- **251-S-605**: Black washer for models 151, 163, 175, 180, 286-RD

### Model 286-RD
- **286-F-605**: Outlet tube
- **286-QB**: Amber bottle for model 286-RD
- **286-RD-602**: 2 cap and 1 bulb pkg for model 286-RD
- **251-C-605**: Spray tip for model 286-RD
- **251-S-605**: Black washer for models 151, 163, 175, 180, 286-RD
- **1-RD-605**: Bulb (sold separately)

### Model 13-RD
- **13-RD-605**: Plastisol Mini Politzer Bulb with Plastic Valve
**Model 180**

- **150-QB**: Bottle for models 151, 163, 175, 180
- **152-X-605**: Washer. White Teflon® for models 151, 163, 175, 177, 180
- **180-S-605**: Small plain nasal guard
- **180-T-605**: Large plain guard
- **180-U-605**: Vented guard
- **180-OT-605**: Outlet tube
- **251-S-605**: Black washer for 151, 163, 175, 180, 286-RD

**Model 119**

- **B-1-605**: Bulb for model 119
- **114-S-605**: Washer for atomizer models 15-RD, 119, 177
- **115-QB**: Bottle for models 15-RD, 119, 177
- **127-G-605**: Inlet tube for replacement, order No. 127-G and cut to correct length

**Model 175**

- **150-QB**: Bottle for models 151, 163, 175, 180
- **175-JLR-605**: Outlet tube
- **152-X-605**: Washer. White Teflon® for models 151, 163, 175, 177, 180
- **251-S-605**: Black washer for 151, 163, 175, 180, 286-RD

**Model 177**

- **177-NKHR**: Spray tip assembly
- **177-OT-605**: Outlet tube
- **177-QB**: 6 oz bottle
- **152-X-605**: Washer. White Teflon® for models 151, 163, 175, 177, 180
- **114-S-605**: Large black washer 15-RD, 119, 177