PAL® System

Power-Assisted Liposuction
Compare PAL to Traditional Liposuction

Fast
Clinical studies comparing the PAL system to manual liposuction found that PAL aspirates 31% more volume per minute leading to a 35% reduction in procedure time.¹

Precise
PAL is proven to reduce surgeon fatigue by 49%, offering a safer and more precise procedure. These benefits result in superior outcomes and faster healing and recovery rates for patients.¹

Viable
The quality of PAL-harvested adipocytes has been shown to be similar to those harvested by manual liposuction; and PAL produces higher yields of loosely adherent stem cells, which may improve graft retention.²,³,⁴

“It’s dramatic how much better patients feel, how much more effectively we can treat them, how much more satisfied they are, and how far superior the results are compared to [traditional liposuction].”

- Dr. Gerhard Sattler
PAL®  Power-Assisted Liposuction System

PAL Powered Handpiece  |  PAL-650
The PAL-650 from MicroAire® is a powerful, precision instrument designed for small- or large-volume fat extraction, body contouring and fat harvesting.

PAL’s smooth reciprocating cannulas glide through tissue, reducing the amount of physical effort required during liposuction, thus reducing O.R. time.¹

Reciprocation increases control, helping the surgeon gently guide the cannula with greater accuracy, even through dense fibrous tissue. The result is a faster procedure, less fatigue and more precise outcomes.¹

Fully autoclavable handpiece and cable
Anodized aluminum body

| Weight    | 1.1 lb (0.5 kg) |
| Height    | 48” x 1” x 1.5” (20.3 x 2.5 x 3.8 cm) |

3 mm reciprocating stroke adjustable up to 4,000 cycles/min

Speed control on handpiece and power console

PAL Cannulas
Small variations in the number of ports, as well as their size and location on the cannula, can have a significant impact on performance and outcomes. MicroAire has developed several port configurations based on clinical studies and surgeon feedback.

**Extraction**
Most popular cannulas for large-volume debulking and body contouring.

**Harvesting**
Well-suited for producing small, consistent lobules for fat grafting.

**Specialty**
PAL reciprocation provides cannula uses that go beyond liposuction.

See the complete listing of PAL Cannulas in the PAL Cannula Brochure online at [www.microaire.com](http://www.microaire.com).
PAL is the most widely used and preferred alternative to manual liposuction.\(^5\)

- **MicroAire Standard Electric Console | 5020**
  - **Weight**: 14 lbs (6.35 kg)
  - **Height**: 6” (15.24 cm)
  - **Footprint**: 12” x 14” (30.48 cm x 35.56 cm)
  - **Electrical**: 300 W, 100-240 V, 50/60 Hz

- **Simple touch-screen interface**
- **Controls two PAL handpieces at once**
- **Less Bruising and Swelling\(^1\)**
- **Reduced Surgeon Fatigue\(^1\)**
- **Faster Procedure and Patient Recovery\(^1\)**
- **Proven Cell Viability\(^2,3,4\)**
PAL Accessories

**Vacuum Pump**
- Dual 1/4-Horsepower, Rotary Vane
- Vacuum Flow Rate 3.0 SCFM (0.08 m³/min)
- Vacuum Pressure 0–29 in/Hg (0–736 mm/Hg) at Sea Level

**Infiltration Pump**
- Peristaltic
- Infiltration Flow Rate 50–600 ml/min
- Weight 185 lbs (84 kg)
- Height 4’ (1.2 m) pole down
  7’ (2.1 m) pole extended
- Footprint 2’ x 2’ (0.6 m x 0.6 m)
- Electrical 120 V, 60 Hz (UL-Listed)

**Sterilization Case** | PAL-500
- Accommodates two handpieces, electric cable and up to ten cannulas
- Fits in most standard autoclaves

**LipoTower® (USA Only)** | ASP-1021
- Powerful surgical cart used for tumescent liposuction
- Strong, reliable pumps for both infiltration and aspiration
- Touchscreen interface and optional integrated PAL control system
- The only UL®-listed liposuction cart on the market

**LipoFilter®**
- Gravity-Decant Fat Processing System | ASP-CAN-2S
- Three-liter fat harvesting and separation system
- Large-volume decanting and washing
- No centrifuge needed
- Works with any lipo system
- Sterile-packed, single-use

**PAL Wand** | PAL-730
- Ergonomic manual handpiece for sensitive areas (such as the neck and back)
- Compatible with all PAL cannulas
## Ordering Information

### PAL Component Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>PAL-650</td>
<td>PAL Powered Handpiece</td>
</tr>
<tr>
<td>5006-PAL</td>
<td>PAL Cable (for use with the 5020 console)</td>
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<td>5020</td>
<td>PAL Electric Console</td>
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<td>PAL Washer Disinfector Cap</td>
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<tr>
<td>PAL-500</td>
<td>PAL Sterilization Case</td>
</tr>
<tr>
<td>PAL-700</td>
<td>PAL Single-Use Luer Adapter</td>
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<tr>
<td>PAL-730</td>
<td>PAL Wand Manual Handpiece</td>
</tr>
<tr>
<td>PAL-1200</td>
<td>PAL 12 ft (3.66 m) Aspiration Tubing (SPK)</td>
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<td>LipoTower® (USA only)</td>
</tr>
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<td>ASP-CAN-2S</td>
<td>LipoFilter®</td>
</tr>
<tr>
<td>ASP-ADP-2</td>
<td>Adapter — Toomey-to-Luer Syringe</td>
</tr>
<tr>
<td>ASP-ADP-3</td>
<td>Adapter — Toomey-to-Luer Needle</td>
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Learn more about our products, including PAL Cannulas, LipoFilter and the LipoTower, on [www.microaire.com](http://www.microaire.com).

To order, call toll free [800-722-0822](tel:800-722-0822)

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