

# REVOLVE™ System by LifeCell

An integrated, high-volume fat processing system designed by adipose transplantation pioneers and founders of the International Federation for Adipose Therapeutics and Science.

**HARVEST • FILTER • ACTIVE WASH • REMOVE STRANDS  
ALL-IN-ONE CLOSED SYSTEM**

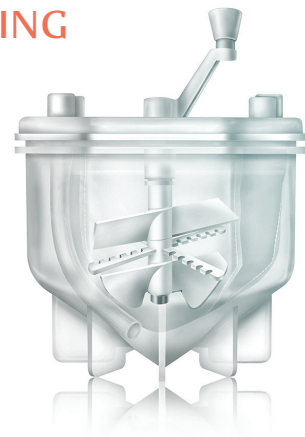


## MESH FILTER (200 microns)

- Designed to filter and strain lipoaspirate during the harvesting phase and active mechanical washing process
- Rapidly removes tumescent
- Reduces cell debris
- Eliminates free oil
- Concentrates adipose tissue

## PROPELLER FOR ACTIVE WASHING

- Enhances washing process for high quality fat
- Removes collagen strands to minimize injection syringe clogging



Artist renderings

## SYRINGE EXTRACTION

- Direct load of syringes for injection from canister to minimize steps
- Extraction with catheter tip or luer lock syringe

**REVOLVE™** System is an autologous fat tissue [AFT] collection device and tissue delivery system. REVOLVE™ System collects autologous adipose tissue and rapidly washes and delivers the tissue for body contouring.

### Device Description

The REVOLVE™ device is a single use, sterile, disposable canister intended for harvesting, filtering, and transferring of autologous adipose tissue. The system should be used with a legally marketed vacuum or aspirator apparatus as a source of suction. If harvested fat is to be re-implanted, the harvested fat is only to be used without any additional manipulation.

### Indications of Use

The REVOLVE™ device is used for aspiration, harvesting, filtering, and transferring of autologous adipose tissue for aesthetic body contouring. The system should be used with a legally marketed vacuum or aspirator apparatus as a source of suction. If harvested fat is to be re-implanted, the harvested fat is only to be used without any additional manipulation.

The REVOLVE™ device is intended for use in the following surgical specialties when the aspiration of soft-tissue is desired: plastic and reconstructive surgery, neurosurgery, gastrointestinal and affiliated organ surgery, urological surgery, general surgery, orthopedic surgery, gynecological surgery, thoracic surgery, and laparoscopic surgery.

### Contraindications

Contraindications to autologous fat transfer include the presence of any disease processes that adversely affect wound healing, and poor overall health status of the individual.

### Warnings

1. This device will not, in and of itself, produce significant weight reduction.
2. This device should be used with extreme caution in patients with chronic medical conditions such as diabetes, heart, lung, or circulatory system disease or obesity.
3. The volume of blood loss and endogenous body fluid loss may adversely affect intra and/or postoperative hemodynamic stability and patient safety. The capability of providing adequate, timely replacement is essential for patient safety.

### Precautions

1. This device is designed to remove localized deposits of excess fat through small incision and subsequently transfer the tissue back to the patient.
2. Use of this device is limited to those physicians who, by means of formal professional training or sanctioned continuing medical education (including supervised operative experience), have attained proficiency in suction lipoplasty and tissue transfer.
3. Results of this procedure will vary depending upon patient age, surgical site, and experience of the physician.
4. Results of this procedure may or may not be permanent.
5. The amount of fat removed should be limited to that necessary to achieve a desired cosmetic effect.

### Adverse Effects

Some common adverse effects associated with autologous fat transfer are asymmetry, over- and/or under-correction of the treatment site, tissue lumps, bleeding, and scarring.

### Ordering Information

#### Pricing

\$495 per unit

#### Packaging

Product Code	Quantity	Cost
RV0002	2 Unit pack	\$990
RV0004	4 Unit pack	\$1980

#### Syringes

Product Code	Quantity	Cost
4613554F-02	50 ml Catheter-tip Syringes 50-pack	\$50

### References

1. Jarrell JA IV, Brzeziński MA. Autologous fat grafting to the breast using REVOLVE to reduce clinical costs. Southeastern Society of Plastic and Reconstructive Surgeons 57th Annual Meeting, Paradise Island, Bahamas, June 2014.
2. Ansgore H, Garza JR, McCormack MC, et al. Autologous fat processing via the revolve system: quality and quantity of fat retention evaluated in an animal model. *Aesthet Surg J*. 2014 Mar 1;34(3):438-47.
3. Maxwell G, Gabriel A. REVOLVE™ autologous fat processing system reduces operative time. California Society of Plastic Surgeons 64th Annual Meeting, Newport Beach, CA, May 2014.

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**HIGH-VOLUME FAT PROCESSING**  
ENGINEERED TO YIELD RAPID, RELIABLE RESULTS



## A HIGH-VOLUME FAT PROCESSING SYSTEM ENGINEERED TO YIELD RAPID, RELIABLE RESULTS

### Integrated System for High Quality Fat Processing

#### FAST

- Processes up to 700 ml of lipoaspirate in less than 10 minutes
- Easier to use, requiring fewer steps to process large quantities of adipose tissue†
- Less time consuming than other competitive devices†

#### CLOSED-SYSTEM

- Minimizes tissue handling and exposure to outside air
- Controls critical fat grafting variables
- Sterile, single-patient, disposable device

#### EFFICIENT

- All-in-one integrated device: harvests, processes and extracts lipoaspirate within one canister
- Quickly processes fat: filters during harvesting and actively washes and separates collagen strands
- Integrated system allows loading of syringes for injection directly from canister

#### EASY TO USE

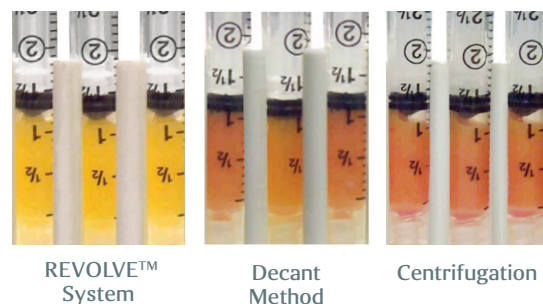
- Processes a large volume of lipoaspirate with fewer steps compared to LipiVage® and PureGraft™ devices†
- Time efficient system minimizes training, preparation, and clean up time, requiring only one operator
- Can be placed on the sterile field

#### COST-EFFECTIVE

- Can be used multiple times for the same patient within the same procedure
- More time efficient for operating room staff
- Proven to save time compared to centrifugation¹

### Pre-Clinical Study Showed More Reliable Results

In a pre-clinical study, human fat injected into animals\* was processed using three different methods: REVOLVE™ System, a decant method, and centrifuge method (processed at 1200 g for 3 minutes).



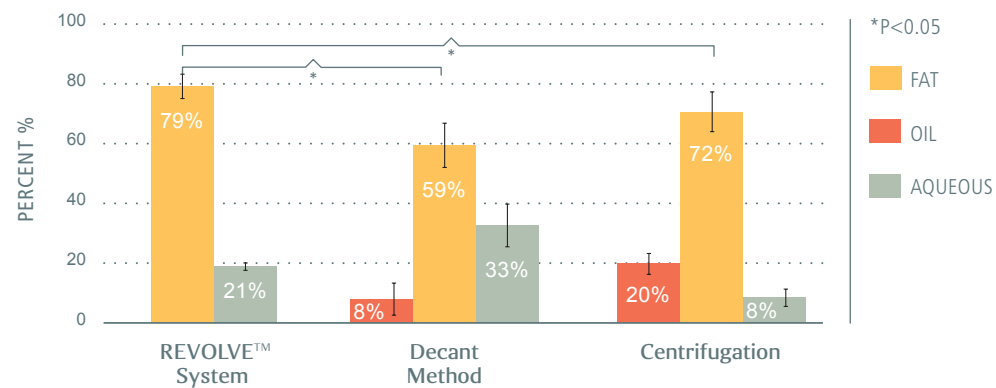
REVOLVE™ System      Decant Method      Centrifugation

† End-user validation LRD-2012-05-30. The REVOLVE™ System was compared to the LipiVage® and PureGraft™ devices.

## PROVEN PRE-CLINICAL RESULTS

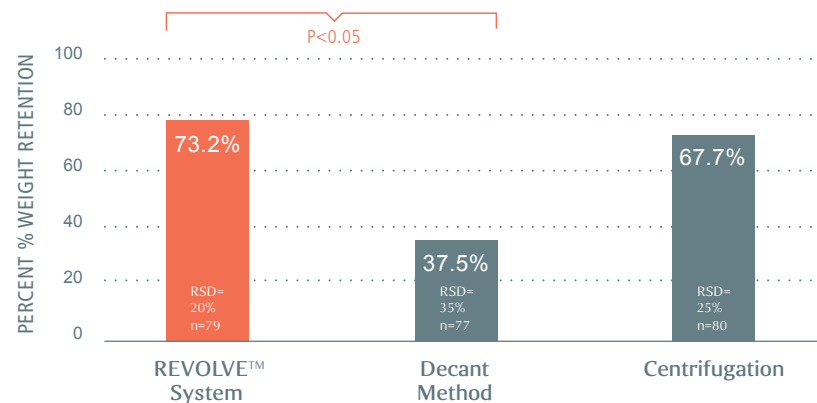
### Yielded a Higher Concentration of Adipose Tissue with Significantly Less Debris and Oil

REVOLVE™ System minimized potential inflammatory response for transplanted tissue by significantly removing red blood cells, fatty acids and debris.<sup>2</sup>



### Yielded More Predictable Results

Based on the pre-clinical study, REVOLVE™ System yielded significantly higher fat graft retention than decantation and similar to centrifugation.<sup>2,\*</sup>

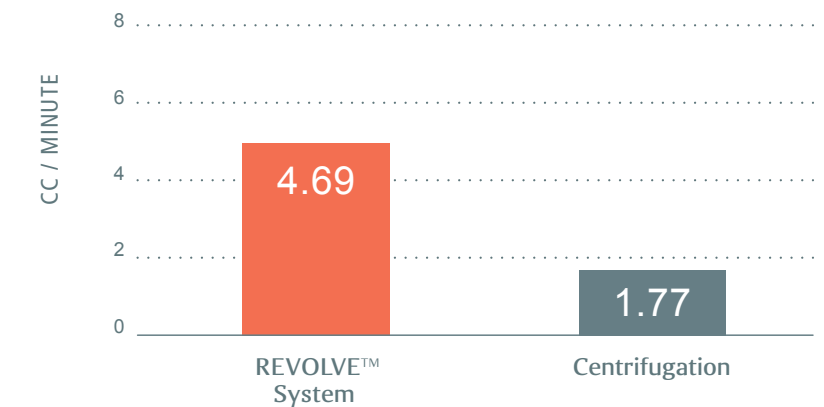


- > REVOLVE™ System processed a higher percentage of adipose tissue compared with the two other methods: decantation and centrifugation
- > Yielded significantly less blood cell debris and a lower percentage of free oil
- > Significantly higher fat graft retention (73.2%) than decantation (37.5%) and similar to centrifugation (67.7%)
- > Maintained fat in physiological conditions (pH and osmolality)

\* Correlation of these results to results in humans has not been established.

## PROVEN TO SAVE TIME AND COST IN LARGE VOLUME PROCEDURES COMPARED TO CENTRIFUGATION¹

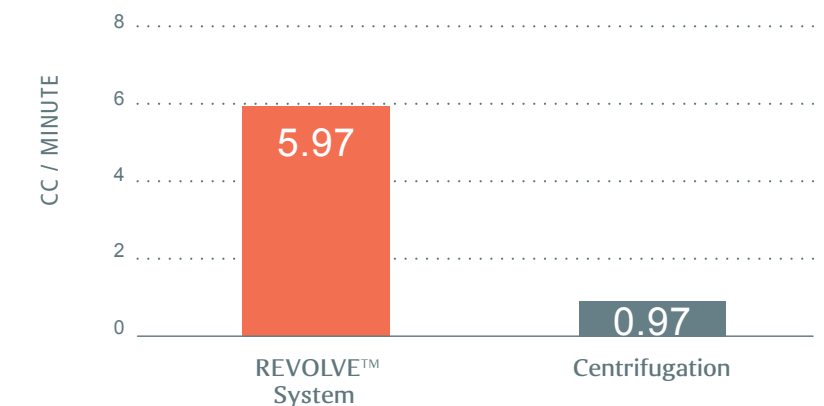
### Processed More Fat Per Minute Than Centrifugation



The study included 37 patients over a six month period, including 13 Coleman technique patients, and 24 REVOLVE™ System patients. The average rate of fat transfer was 1.77 cc/min for Coleman and 4.69 cc/min for REVOLVE™ System, which was a statistically significant difference between groups.

### Faster Than Centrifugation

Using the REVOLVE™ System may save OR time and decrease OR costs.<sup>3</sup>



The study included a total of 118 patients in the centrifugation and 103 patients in the REVOLVE™ System group. REVOLVE™ System processed more fat per minute than centrifugation, decreasing operating time and possibly OR costs.<sup>3</sup>