



LEVITRONIX®  
PUMP SYSTEMS

**THE FASTEST  
AND SAFEST  
LIQUID  
TRANSFER**

**LEVITRONIX®**  
Better Products for Better Yield

# SAVE TIME AND SPACE

Time is a critical parameter in today's bioprocessing applications. Transfer processes such as buffer or media preparation require a pump system that can handle liquid at the highest speed.

Conventional pump systems such as peristaltic or 4-piston diaphragm pumps generate a pulsating flow leading to a slow and periodic discharge of liquid. Additionally, these systems bear the risk of a catastrophic tube rupture due to a possible pressure build up.

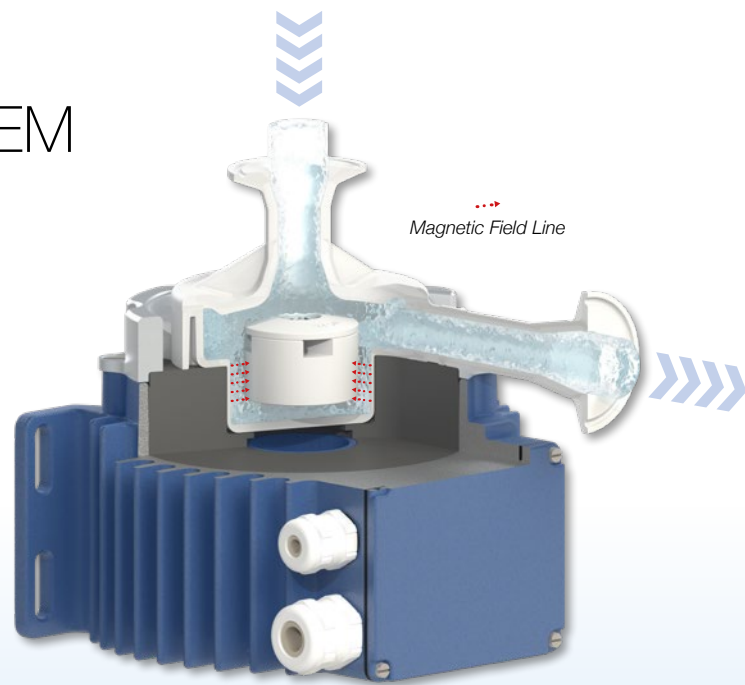
Levitronix® pump systems are designed for liquid transfer applications where a high flow ensures the fastest and safest possible process.

## ADVANTAGES OF A LEVITRONIX® PUMP SYSTEM

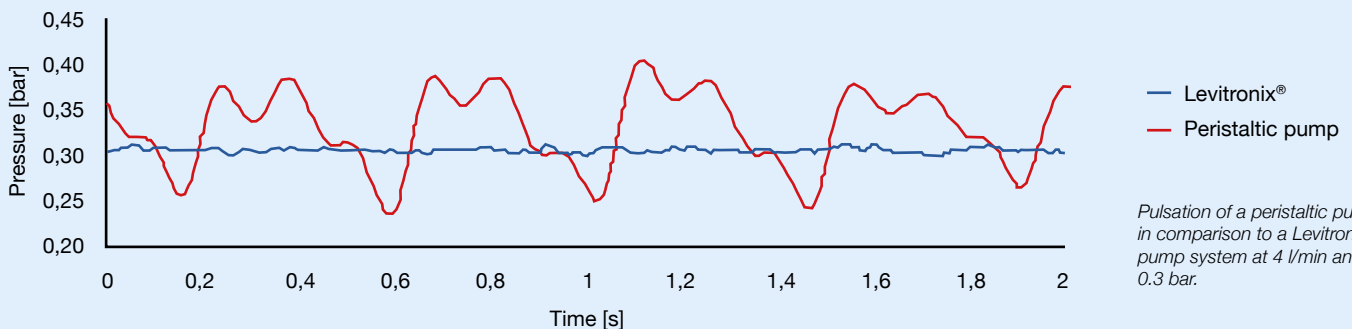
### Completely Pulsation Free Flow // Fastest Transfer

Levitronix® pump systems are the only pumps in biopharma that deliver a pulsation free flow, independent of actual flow or pressure.

A continuous discharge of liquid allows to transfer liquid at maximum possible speed.



The magnetic levitation allows high rpm resulting in continuous, large flows.



Pulsation of a peristaltic pump in comparison to a Levitronix® pump system at 4 l/min and 0.3 bar.

## Intrinsically Safe //

Keep Your Product and Staff Safe –  
No More Pressure Build-Up or  
Tube Ruptures

Set and limit the maximum pressure according to your tubing specifications and you will be assured that your media is safe no matter what occurs in your hydraulic flow path.

## Smallest Footprint //

Save Valuable Space

All Levitronix® pump systems have a far smaller footprint than competitive pumps of comparable hydraulic performance.

Even at extremely high flows, Levitronix pump systems always have a small footprint which allows for installations in confined areas. The constant flow of these systems also eliminates any noise generation or vibration that could affect your process.

## Ideal for Continuous Processing //

No Wear Out of Moving Parts –  
Virtually No Limitation in Lifetime

There are no tubes, diaphragms or valves to wear out leading to virtually no limitation in life time or drift in pump performance.

## Highest Turn Down Ratio //

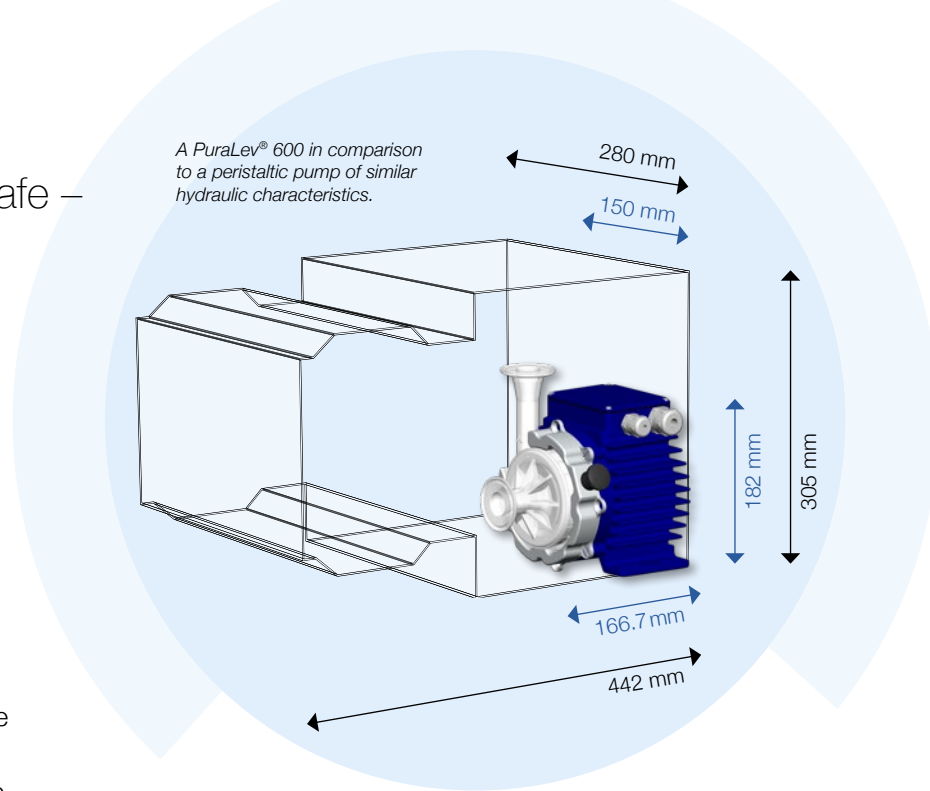
One Pump Size for Various Transfer  
Applications

Levitronix® pumps have the highest turn down ratio by being able to control the flow from a few ml/min up to the maximum flow rate.

## Lowest Particle Shedding //

The Cleanest Pump System –  
Beyond Biopharma

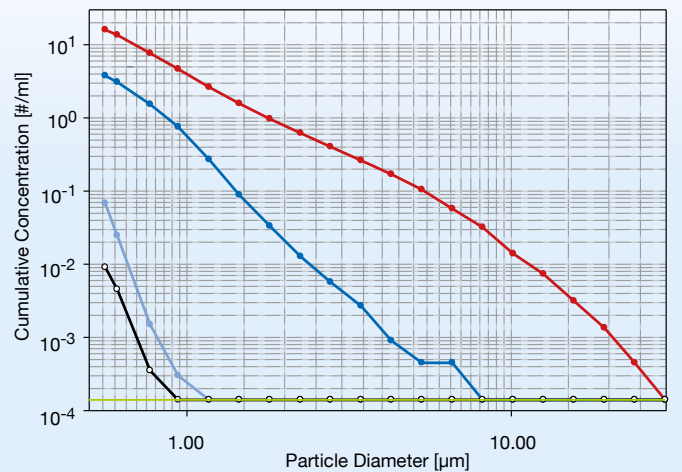
Due to the low shear factor plus no wear or mechanical contact between moving parts such as membranes or tubing, particle generation is eliminated. Levitronix® is the cleanest pump system in biopharma.



Being slightly bigger than a hand, a PuraLev 600 SU delivers up to 75 l/min (20 g/min)

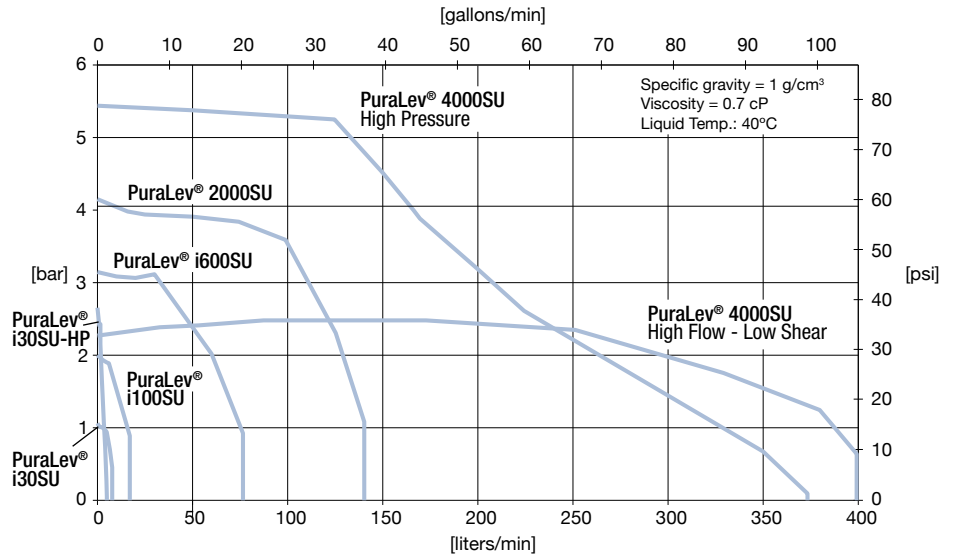


- Levitronix®
- Peristaltic Pump
- 4-piston Diaphragm Pump
- Background



Cumulative particle size distributions at 16 lpm and 2.5 bar

Source: "Pump Particle Shedding Evaluation" CTA Report Number LTX 17243844, Juergen-Hahn, Aric Litichy



# Overview // SU Pump Systems

## PuraLev<sup>®</sup> i30SU

1.0 bar (14.5 psi)  
7.7 l/min (2.0 gpm)

## PuraLev<sup>®</sup> i30SU-HP

2.6 bar (38 psi)  
4.9 l/min (1.3 gpm)



## PuraLev<sup>®</sup> i100SU

2.0 bar (29 psi)  
17 l/min (4.5 gpm)



## PuraLev<sup>®</sup> i600SU

3.1 bar (45 psi)  
75 l/min (20 gpm)



## PuraLev<sup>®</sup> 2000SU

4.3 bar (62.4 psi)  
140 l/min (37 gpm)



## PuraLev<sup>®</sup> 4000SU High Flow - Low Shear

2.5 bar (36 psi)  
400 l/min (106 gpm)

## PuraLev<sup>®</sup> 4000SU High Pressure

5.4 bar (78 psi)  
374 l/min (99 gpm)



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