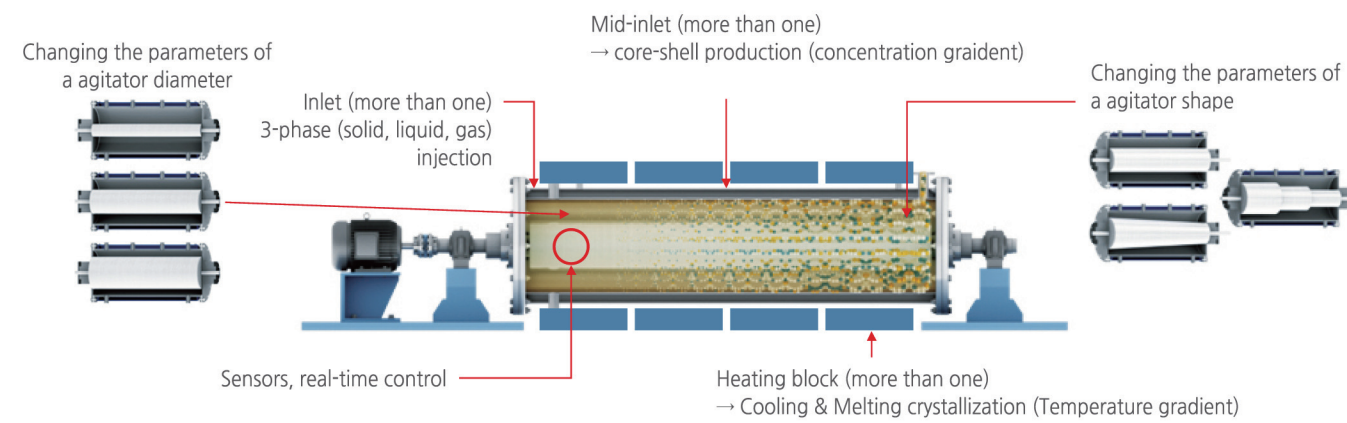


## LCTR series



## Option



### Pump (research)

Max 20 mL/min  
Max 6 bar  
Materials : PP or PTFE



### Pump (plant)

Max 200 L/min  
Max 16 bar  
Materials : PTFE



### Pump (slurry)

Max 600 rpm  
Max 8 bar



### Circulator

Solution temperature control  
-25 ~ 150 °C



### Weight

Weighing injection solution  
0.01 ~ 10 kg  
0.001 ~ 1 kg

## Rare metals recycling from waste

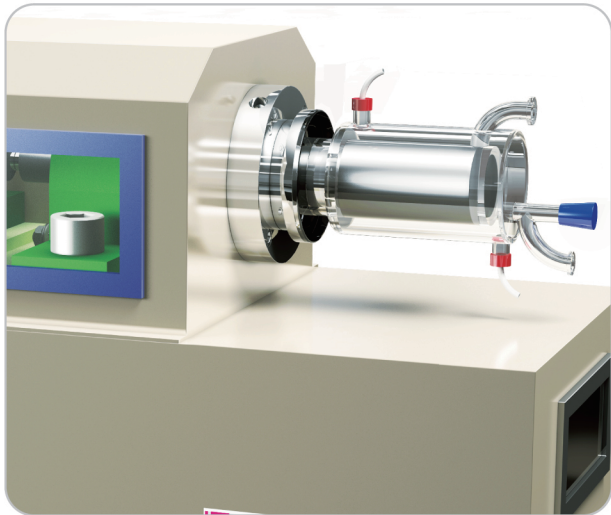


## Rare metals recovery reactor



#209, 27, Dunchon-daero 457beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea  
Tel. +82-31-737-2375 Fax. 82-31-737-2757 E-mail. laminar@laminarm.co.kr  
www.laminarm.co.kr

# LCTR-mini



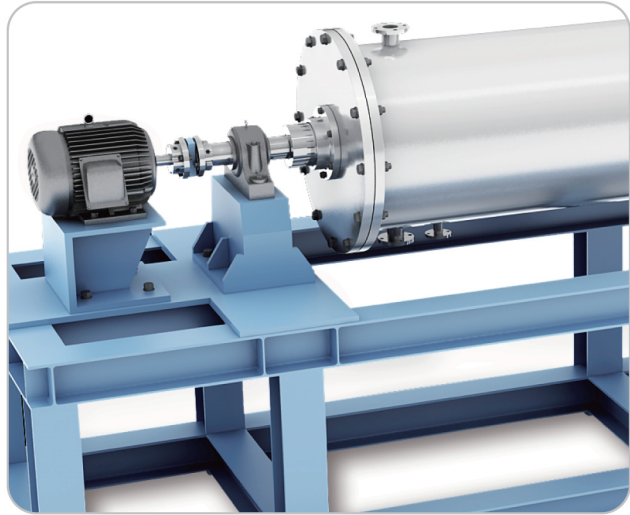
### LCTR-mini Point

A reactor for continuously recovering rare metals  
Three-phase(gas-liquid-solid) materials can be mixed  
Cost reduction and productivity improvement  
Amorphous -> Crystal (Taylor flow effect)

### LCTR-mini specifications

|                      |                 |
|----------------------|-----------------|
| Working volume       | 10 mL           |
| Reaction temperature | Max 150 ℃       |
| Agitation speed      | Max 1500 rpm    |
| Materials            | SUS316L         |
| Pressure             | Max 5 bar       |
| Type                 | Horizontal      |
| Dimension L/W/H (mm) | 410 * 200 * 240 |
| Weight (kg)          | 5               |

# LCTR-exa



### LCTR-exa points

Commercial reactor  
Entire process design and manufacturing  
Order made

### LCTR-exa specifications

|                      |                     |
|----------------------|---------------------|
| Working volume       | More than 1 t       |
| Reaction temperature | Max 150 ℃           |
| Agitation speed      | Max 300 rpm         |
| Materials            | SUS316L& SUS304     |
| Dimension L/W/H (mm) | 10000 * 4000 * 4500 |
| Weight (t)           | 6                   |

