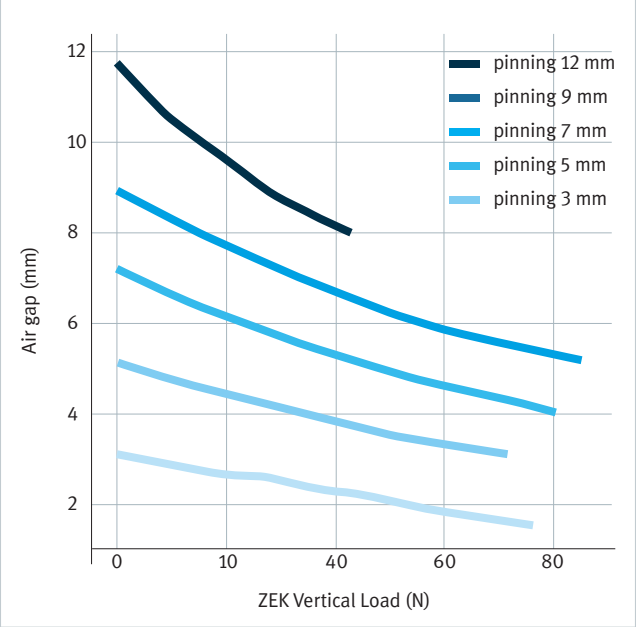
Datasheet SupraMotion Cryostats

ZEK

Dimensions LWH	200 x 300 x 200mm³
Weight	5.2kg
Power	45W max, 20W in steady-state mode
Cooling power	1.6W
Supply	24Vdc
Ambient temperature	0 – 35°C
Superconductor	YBCO (polycrystalline bulk)
Superconductor area	66 x66 mm² (square)
Levitation height	3 – 12mm
Vertical stiffness	50 – 10N/mm
Carrier size	100 x 100mm²
Base temperature	63K (-210°C)
Cool-down time	4 – 6h
Warming time	30h (passive)
Levitation time	infinite
Isolation vacuum	10e-8mbar
Operation mode	24/7
Basic communication	WLAN/RS232



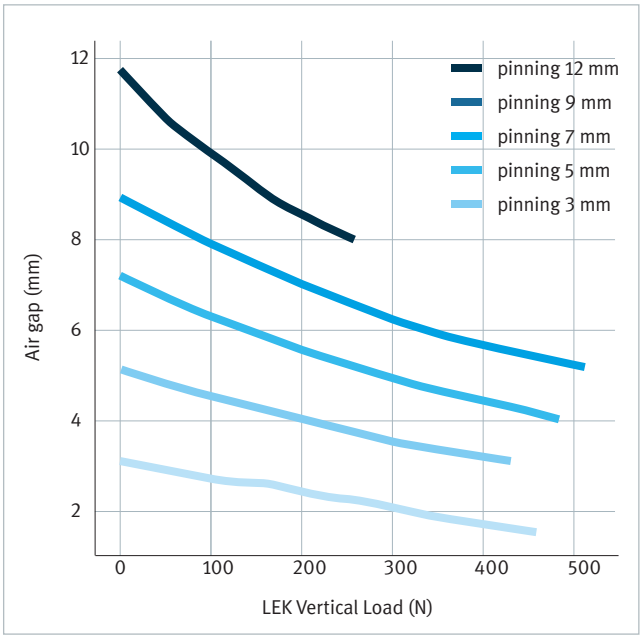
This information is valid for all cryostats:

- Basic weight is excluding customizable adaption or suspension parts
- Levitation height and vertical stiffness: the actual numbers depend on magnetic carrier design
- Maximum carrier size: the carrier design is highly customizable
- The actual cool-down times depend on ambient temperatures and state of the isolation vacuum
- The actual warming time depends on ambient temperature, heaters for rapid warming are available
- No active vacuum pumping for isolation vacuum required, built-in refreshing of the isolation vacuum approx. once a year

Datasheet SupraMotion Cryostats

LEK

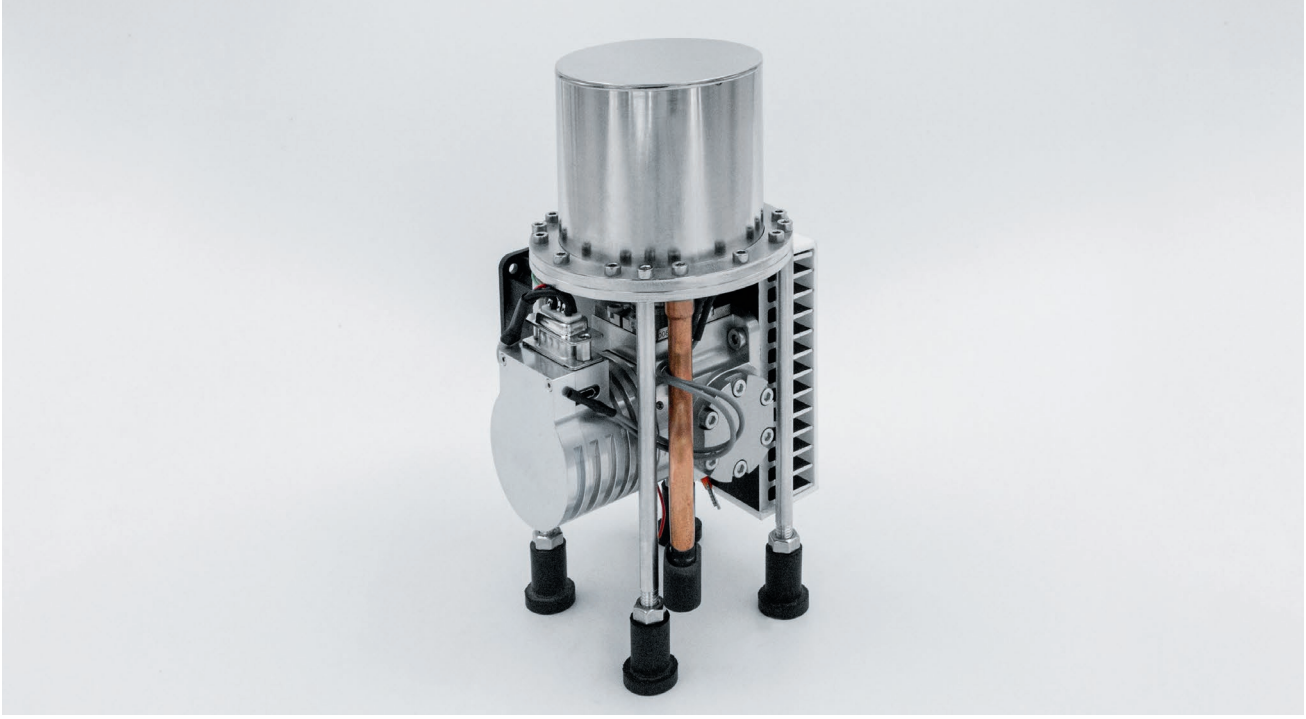
Dimensions LWH	250 x 150 x 250mm³
Weight	13kg
Power	80W max, 45W in steady-state mode
Cooling power	1.6W
Supply	24Vdc
Ambient temperature	0 – 35°C
Superconductor	YBCO (polycrystalline bulk)
Superconductor area	130 x 200 mm² (rectangular)
Levitation height	3 – 12mm
Vertical stiffness	300 – 30N/mm
Carrier size	150 x 250mm²
Base temperature	63K (-220°C)
Cool-down time	4 – 6h
Warming time	30h (passive)
Levitation time	infinite
Isolation Vacuum	10e-8mbar
Operation mode	24/7
Basic communication	WLAN/RS232



This information is valid for all cryostats:

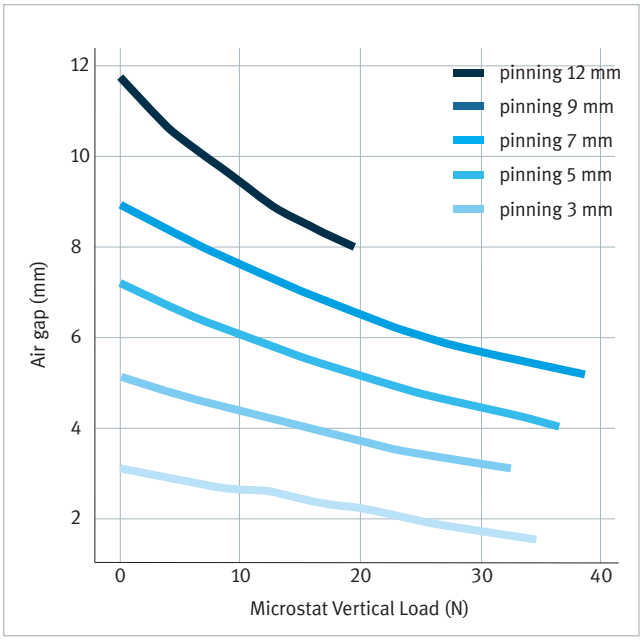
- Basic weight is excluding customizable adaption or suspension parts
- Levitation height and vertical stiffness: the actual numbers depend on magnetic carrier design
- Maximum carrier size: the carrier design is highly customizable
- The actual cool-down times depend on ambient temperatures and state of the isolation vacuum
- The actual warming time depends on ambient temperature, heaters for rapid warming are available
- No active vacuum pumping for isolation vacuum required, built-in refreshing of the isolation vacuum approx. once a year

Datasheet SupraMotion Cryostats



Microstat

Dimensions LWH	100 x 100 x 200mm³
Weight	1.7kg
Power	30W max, 15W in steady-state mode
Cooling power	0.8W
Supply	24Vdc
Ambient temperature	0 – 35°C
Superconductor	YBCO (polycrystalline bulk)
Superconductor area	D50 mm (circular)
Levitation height	3 – 8mm
Vertical stiffness	25 – 5N/mm
Carrier size	40 x 40mm²
Base temperature	63K (-220°C)
Cool-down time	2 – 4h
Warming time	15h (passive)
Levitation time	infinite
Isolation Vacuum	10e-8mbar
Operation mode	24/7
Basic communication	WLAN/RS232



This information is valid for all cryostats:

- Basic weight is excluding customizable adaption or suspension parts
- Levitation height and vertical stiffness: the actual numbers depend on magnetic carrier design
- Maximum carrier size: the carrier design is highly customizable
- The actual cool-down times depend on ambient temperatures and state of the isolation vacuum
- The actual warming time depends on ambient temperature, heaters for rapid warming are available
- No active vacuum pumping for isolation vacuum required, built-in refreshing of the isolation vacuum approx. once a year