



KINTEK SOLUTION

Cold Isostatic Press Catalog

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KINTEK SOLUTION

COMPANY PROFILE

>>> About Us

Kintek Solution Ltd is one technology orientated organization, team members are devoted to probing the most efficient and reliable technology and innovations in the scientific researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vacuum creating, refrigerating, as well as pharmaceutical and petroleum extracting equipment.

In the past 20 years, we earned rich experiences in this researching equipment field, we are capable to supply both the equipment and solution according to customer's needs and realities, we have also developed lots of customer tailored equipment according to a specific working purpose, and we have lots of successful projects in many universities and institutes from different countries, like Asia, Europe, North and South America, Australia and New Zealand, Middle East, and Africa.

Profession, quick response, hard working, and sincerity is a remarkable label of our team members working attitude, which earn us a sound reputation among our clients.

We are here and ready to service our clients from different countries and regions, and share the most efficient and reliable technology together!



Electric Lab Cold Isostatic Press (Cip) 12T / 20T / 40T / 60T

Item Number: PCIE



Introduction

Produce dense, uniform parts with improved mechanical properties with our Electric Lab Cold Isostatic Press. Widely used in material research, pharmacy, and electronic industries. Efficient, compact, and vacuum-compatible.

[Learn More](#)

| Instrument model | PCIE-12T | PCIE-20T | PCIE-40T | PCIE-60T |
|-------------------------------|---|---|---|---|
| Pressure Range | 0-12T(0-17MPa) | 0-20T(0-21MPa) | 0-40T(0-30MPa) | 0-60T(0-34MPa) |
| Piston diameter | 95mm (d) in chrome plated oil cylinder | 110mm (d) in chrome plated oil cylinder | 130mm (d) in chrome plated oil cylinder | 150mm (d) in chrome plated oil cylinder |
| Pressure gage | Digital display0.0-40.0MPa | Digital display0.0-40.0MPa | Digital display0.0-40.0MPa | Digital display0.0-40.0MPa |
| Maximum piston stroke (T) | 40mm | 40mm | 50mm | 50mm |
| Way of Pressure | Electric pressurization/manual pressurization | Electric pressurization/manual pressurization | Electric pressurization/manual pressurization | Electric pressurization/manual pressurization |
| Pressure replenishment method | Automatic pressurization/manual slow pressurization | Automatic pressurization/manual slow pressurization | Automatic pressurization/manual slow pressurization | Automatic pressurization/manual slow pressurization |
| guard | Organic glass | Organic glass | Organic glass | Organic glass |
| ambient temperature | 10°C-40°C | 10°C-40°C | 10°C-40°C | 10°C-40°C |
| Isostatic pressure | 0-300MPa | 0-300MPa | 0-300MPa | 0-300MPa |
| Isostatic pressure chamber | Φ22×70mm(M×N) | Φ30×120mm(M×N) | Φ40×150mm(M×N) | Φ50×150mm(M×N) |
| External dimensions | 305×430×530mm(L×W×H) | 305×430×600mm(L×W×H) | 355×450×710mm(L×W×H) | 405×470×720mm(L×W×H) |
| power supply | 550W(220V/110 can be customized) | 550W(220V/110 can be customized) | 550W(220V/110 can be customized) | 550W(220V/110 can be customized) |
| Equipment weight | 110Kg | 120Kg | 150Kg | 200Kg |

Manual Cold Isostatic Pellet Press (Cip) 12T / 20T / 40T / 60T

Item Number: PCIM



Introduction

Lab Manual Isostatic Press is a high-efficient equipment for sample preparation widely used in material research, pharmacy, ceramics, and electronic industries. It allows for precision control of the pressing process and can work in a vacuum environment.

[Learn More](#)

| Instrument model | PCIM-12T | PCIM-20T | PCIM-40T | PCIM-60T |
|----------------------------|--|--|--|--|
| Pressure Range | 0-12T(0-17MPa) | 0-20T(0-21MPa) | 0-40T(0-30MPa) | 0-60T(0-34MPa) |
| Piston diameter | 95mm (d) in chrome plated oil cylinder | 110mm (d) in chrome plated oil cylinder | 130mm (d) in chrome plated oil cylinder | 150mm (d) in chrome plated oil cylinder |
| Pressure gage | Pressure and pressure dual scale display | Pressure and pressure dual scale display | Pressure and pressure dual scale display | Pressure and pressure dual scale display |
| Maximum piston stroke (T) | 40mm | 40mm | 50mm | 50mm |
| Guard | Organic glass | Organic glass | Organic glass | Organic glass |
| Ambient temperature | 10°C-40°C | 10°C-40°C | 10°C-40°C | 10°C-40°C |
| Isostatic pressure | 0-300MPa | 0-300MPa | 0-300MPa | 0-300MPa |
| Isostatic pressure chamber | Φ22×70mm(M×N) | Φ30×120mm(M×N) | Φ40×150mm(M×N) | Φ50×150mm(M×N) |
| External dimensions | 305×195×530mm(L×W×H) | 305×195×600mm(L×W×H) | 355×215×710mm(L×W×H) | 405×240×720mm(L×W×H) |
| Equipment weight | 90Kg | 100Kg | 130Kg | 180Kg |

| Pressure conversion | | |
|---------------------|------------------|-----------------|
| Actual pressure | Chamber pressure | System pressure |
| 1.7 [Tons] | 1.86 [MPa] | 25 [MPa] |
| 3.5 [Tons] | 3.72 [MPa] | 50 [MPa] |
| 5 [Tons] | 5.57 [MPa] | 75 [MPa] |
| 7 [Tons] | 7.43 [MPa] | 100 [MPa] |
| 8.7 [Tons] | 9.29 [MPa] | 125 [MPa] |
| 10.5 [Tons] | 11.2 [MPa] | 150 [MPa] |
| 14 [Tons] | 14.8 [MPa] | 200 [MPa] |
| 17.5 [Tons] | 18.6 [MPa] | 250 [MPa] |
| 21 [Tons] | 22.3 [MPa] | 300 [MPa] |

Reminder: Generally, the system pressure should not exceed 35MPa, otherwise it will affect the service life of the equipment.

Electric Split Lab Cold Isostatic Press (Cip) 65T / 100T / 150T / 200T

Item Number: PCESI



Introduction

Split cold isostatic presses are capable of providing higher pressures, making them suitable for testing applications that require high pressure levels.

[Learn More](#)

| Instrument model | PCESI-65T | PCESI-100T | PCESI-150T | PCESI-200T |
|----------------------------|---|---|---|---|
| Pressure Range | 0-65T | 0-100T | 0-150T | 0-200T |
| Piston diameter | 160mm (d) in chrome plated oil cylinder | 200mm (d) in chrome plated oil cylinder | 200mm (d) in chrome plated oil cylinder | 290mm (d) in chrome plated oil cylinder |
| Pressurization process | Program pressurization - Program holding -Timed pressure relief | Program pressurization -Program holding -Timed pressure relief | Program pressurization - Program holding-Timed pressure relief | Program pressurization - Program holding -Timed pressure relief |
| Pressure conversion | The program automatically converts the pressure borne by the sample | The program automatically converts the pressure borne by the sample | The program automatically converts the pressure borne by the sample | The program automatically converts the pressure borne by the sample |
| Display | 7-inch LCD screen | 7-inch LCD screen | 7-inch LCD screen | 7-inch LCD screen |
| Equipment protection | Steel plate protection with organicglass door | Steel plate protection with organicglass door | Steel plate protection with organic glass door | Steel plate protection with organicglass door |
| Isostatic pressure | 0-300MPa | 0-300MPa | 0-300MPa | 0-300MPa |
| Isostatic pressure chamber | Φ50×150mm(M×N) | Φ60×150mm(M×N) | Φ80×150mm(M×N) | Φ90×150mm(M×N) |
| Cylinder stroke (T) | 50mm | 50mm | 50mm | 50mm |
| Space size | 220×400mm(M×N) | 260×400mm(M×N) | 280×400mm(M×N) | 290×420mm(M×N) |
| External dimensions | 700×450×1050mm(L×W×H) | 850×500×1100mm(L×W×H) | 950×550×1150mm(L×W×H) | 1000×650×1200mm(L×W×H) |
| Equipment power supply | 1500W(220V/110 can be customized) | 1500W (220V/110 can be customized) | 1500W(220V/110 can be customized) | 1500W(220V/110 can be customized) |
| Equipment weight | 350kg | 580kg | 680kg | 980kg |

Automatic Lab Cold Isostatic Press (Cip) 20T / 40T / 60T / 100T

Item Number: PCIA



Introduction

Efficiently prepare samples with our Automatic Lab Cold Isostatic Press. Widely used in material research, pharmacy, and electronic industries. Provides greater flexibility and control compared to electric CIPs.

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| Instrument model | PCIA-20T | PCIA-40T | PCIA-60T | PCIA-100T |
|-------------------------------|---|---|---|---|
| Pressure Range | 0-20T | 0-40T | 0-60T | 0-100.0T |
| Piston diameter | 110mm (d) in chrome plated oil cylinder | 130mm (d) in chrome plated oil cylinder | 150mm (d) in chrome plated oil cylinder | 200mm (d) in chrome plated oil cylinder |
| Pressurization process | Program pressurization - Program holding -Timed pressure relief | Program pressurization - Program holding -Timed pressure relief | Program pressurization - Program holding -Timed pressure relief | Program pressurization - Program holding -Timed pressure relief |
| Pressure conversion | The program automatically converts the pressure borne by the sample | The program automatically converts the pressure borne by the sample | The program automatically converts the pressure borne by the sample | The program automatically converts the pressure borne by the sample |
| Display | 4.3 inch LCD screen | 4.3 inch LCD screen | 4.3 inch LCD screen | 7 inch LCD screen |
| Equipment protection | Steel plate protection with organic glass door | Steel plate protection with organic glass door | Steel plate protection with organic glass door | Steel plate protection with organic glass door |
| Isostatic pressure | 300MPa | 300MPa | 300MPa | 300MPa |
| Isostatic pressure chamber | Φ30×150mm(M×N) | Φ40×150mm(M×N) | Φ50×150mm/30×150mm | Φ60×150(M×N) |
| Cylinder stroke (T) | 50mm | 50mm | 50mm | 50mm |
| Sample making characteristics | Upperpanel rocker arm structure formore convenient operation | Upperpanel rocker arm structure formore convenient operation | Upperpanel rocker arm structure formore convenient operation | Upperpanel rocker arm structure formore convenient operation |
| External dimensions | 240×390×560(L×W×H) | 280×460×660(L×W×H) | / | 330×580×720(L×W×H) |
| Equipment power supply | 550W(220V/110 can be customized) | 550W(220V/110 can be customized) | 550W(220V/110 can be customized) | 550W(220V/110 can be customized) |
| Equipmentweight | 120KG | 180KG | 240KG | 290KG |

Cold Isostatic Press For Small Workpiece Production 400Mpa

Item Number: PCIS



Introduction

Produce uniformly high-density materials with our Cold Isostatic Press. Ideal for compacting small workpieces in production settings. Widely used in powder metallurgy, ceramics, and biopharmaceutical fields for high-pressure sterilization and protein activation.

[Learn More](#)

| Model | PCIS-150 | PCIS-200 | PCIS-250 | PCIS-300 |
|--|---|----------|----------|----------|
| Effective inner diameter of high pressure chamber (mm) | 150 | 200 | 250 | 300 |
| Effective depth of high pressure cavity (mm) | 300 | 300 | 300 | 400/450 |
| Maximum working pressure (MPa) | 100-400 | 100-400 | 100-400 | 100-300 |
| Power | 9Kw | 9Kw | 17.5Kw | 17.5Kw |
| Feeding method | Automatic | | | |
| Boost rate | Manually adjustable or precisely adjustable | | | |
| Working medium | Oil or water+rust inhibitor | | | |
| HMI | Text screen or touch screen | | | |
| Data export interface | USB | | | |
| Cooling method | Water cooling | | | |

Warm Isostatic Press (Wip) Workstation 300Mpa

Item Number: PCIW



Introduction

Discover Warm Isostatic Pressing (WIP) - A cutting-edge technology that enables uniform pressure to shape and press powdered products at a precise temperature. Ideal for complex parts and components in manufacturing.

[Learn More](#)

| Model | Cylinder inner diameter (mm) | Cylinder inner height (mm) | Maximum pressure (MPa) | Maximum temperature |
|----------|------------------------------|----------------------------|------------------------|---|
| PCIW150 | Ø150 | 300-500 | 300 | (Deionized water) ≤ 90°C (heat transfer oil) ≤ 250°C |
| PCIW200 | Ø200 | 500-1000 | | |
| PCIW250 | Ø250 | | | |
| PCIW300 | Ø300 | | | |
| PCIW350 | Ø350 | 500-1500 | | |
| PCIW400 | Ø400 | 500-2000 | | |
| PCIW450 | Ø450 | | | |
| PCIW500 | Ø500 | 1000-3000 | | |
| PCIW630 | Ø630 | | | |
| PCIW710 | Ø710 | | | |
| PCIW800 | Ø800 | | | |
| PCIW910 | Ø910 | | | |
| PCIW1000 | Ø1000 | | | |



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