

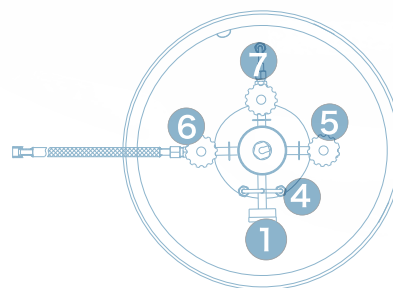
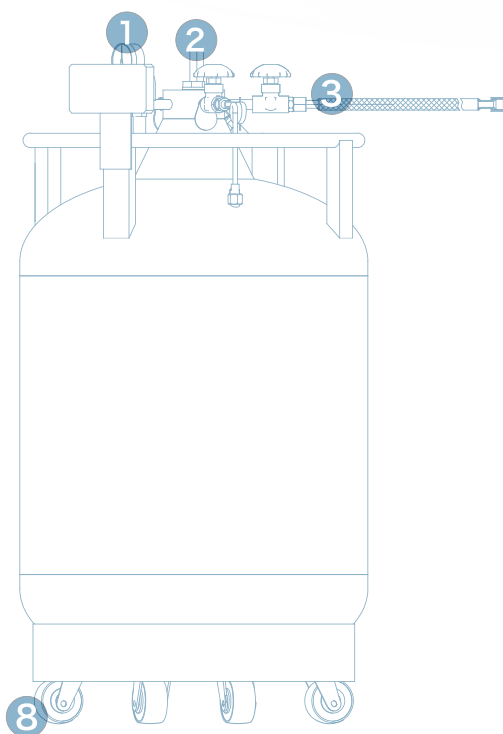
# CryoCenter Series

## Self-pressurized Container

CryoCenter Series are high efficiency storage containers of liquid nitrogen. It is made in high quality stainless steel SUS304, ensures them to be used in most rigorous environment for long time.

A low pressure is generated by vaporizing small amount of liquid nitrogen, to discharge LN<sub>2</sub> & supply LN<sub>2</sub> to other containers or equipment, such as dewar, vapor freezer, or controlled rate freezer.

The CryoCenter Series containers are supplied with filling/discharge valve, pressure relief valve and vaporize valve. Dual pressure relief valve design for safety. All models are supplied with casters for convenient movement.



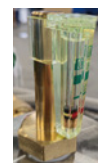
1. Pressure gauge
2. Liquid nitrogen level indicator
3. Transfer hose
4. Dual pressure relief valve
5. Vent valve
6. Fill/discharge valve
7. Pressure building valve
8. Castors



Pressure building regulator  
(Supplied with CryoCenter  
M & CryoCenter S)



Electric digital level meter  
(Supplied with CryoCenter S)



Float level meter  
(Supplied with CryoCenter  
& CryoCenter M)

## Features

- Ultra-low liquid nitrogen consumption
- SUS304 construction & durable for long term use
- Advanced digital display liquid level meter available
- Pressure building regulator available for automatic filling applications
- All models supplied with casters for convenient movement

## Specification

CryoCenter M Series:

Supplied with pressure building regulator & float type liquid level meter, for auto filling of cryogenic freezer & controlled rate freezer

| Model                                                     | CryoCenter 200M                         | CryoCenter 240M | CryoCenter 300M | CryoCenter 500M |
|-----------------------------------------------------------|-----------------------------------------|-----------------|-----------------|-----------------|
| Liquid nitrogen capacity (L)                              | 200                                     | 240             | 300             | 500             |
| Drain out rate (L/min)                                    | ≥10                                     | ≥10             | ≥10             | ≥10             |
| Static evaporation (L/d)                                  | 2.2                                     | 2.5             | 3               | 5               |
| Overall height (mm)                                       | 1280                                    | 1580            | 1410            | 1500            |
| External diameter (mm)                                    | 656                                     | 656             | 806             | 958             |
| Weight empty/full (kg)                                    | 98/261                                  | 138/333         | 144/388         | 192/599         |
| Standard working pressure (psig/bar/MPa)                  | 13/0.9/0.09                             | 13/0.9/0.09     | 13/0.9/0.09     | 13/0.9/0.09     |
| Relief valve pressure (psig/bar/MPa)                      | 14/0.97/0.097 * 1pc + 22/1.5/0.15 * 1pc |                 |                 |                 |
| Pressure regulator (psig/bar/MPa)                         | 10 /0.69 / 0.069 * 1pc                  |                 |                 |                 |
| Pressure gauge indicating range (MPa)                     | 0~0.25                                  | 0~0.25          | 0~0.25          | 0~0.25          |
| Fill/discharge valve, vent valve, pressure building valve | Yes                                     | Yes             | Yes             | Yes             |
| Pressure building regulator                               | Yes                                     | Yes             | Yes             | Yes             |
| Pressure relief valve (Safety valve)                      | Yes, 2 pcs                              | Yes, 2 pcs      | Yes, 2 pcs      | Yes, 2 pcs      |
| Liquid level meter, float type                            | Yes                                     | Yes             | Yes             | Yes             |
| Liquid level meter, electronic digital display type       | —                                       | —               | —               | —               |
| Connection port                                           | CGA295                                  | CGA295          | CGA295          | CGA295          |
| Caster & hose (2 meter)                                   | Yes                                     | Yes             | Yes             | Yes             |

CryoCenter S Series:

Supplied with pressure building regulator & electric digital liquid level meter, for auto filling of cryogenic freezer & controlled rate freezer

| Model                                                     | CryoCenter 200S                         | CryoCenter 240S | CryoCenter 300S | CryoCenter 500S |
|-----------------------------------------------------------|-----------------------------------------|-----------------|-----------------|-----------------|
| Liquid nitrogen capacity (L)                              | 200                                     | 240             | 300             | 500             |
| Drain out rate (L/min)                                    | ≥10                                     | ≥10             | ≥10             | ≥10             |
| Static evaporation (L/d)                                  | 2.2                                     | 2.5             | 3               | 5               |
| Overall height (mm)                                       | 1280                                    | 1580            | 1410            | 1500            |
| External diameter (mm)                                    | 656                                     | 656             | 806             | 958             |
| Weight empty/full (kg)                                    | 98/261                                  | 138/333         | 144/388         | 192/599         |
| Standard working pressure (psig/bar/MPa)                  | 13/0.9/0.09                             | 13/0.9/0.09     | 13/0.9/0.09     | 13/0.9/0.09     |
| Relief valve pressure (psig/bar/MPa)                      | 14/0.97/0.097 * 1pc + 22/1.5/0.15 * 1pc |                 |                 |                 |
| Pressure regulator (psig/bar/MPa)                         | 10 /0.69 / 0.069 * 1pc                  |                 |                 |                 |
| Pressure gauge indicating range (MPa)                     | 0~0.25                                  | 0~0.25          | 0~0.25          | 0~0.25          |
| Fill/discharge valve, vent valve, pressure building valve | Yes                                     | Yes             | Yes             | Yes             |
| Pressure building regulator                               | Yes                                     | Yes             | Yes             | Yes             |
| Pressure relief valve (Safety valve)                      | Yes, 2 pcs                              | Yes, 2 pcs      | Yes, 2 pcs      | Yes, 2 pcs      |
| Liquid level meter, float type                            | —                                       | —               | —               | —               |
| Liquid level meter, electronic digital display type       | Yes                                     | Yes             | Yes             | Yes             |
| Connection port                                           | CGA295                                  | CGA295          | CGA295          | CGA295          |
| Caster & hose (2 meter)                                   | Yes                                     | Yes             | Yes             | Yes             |

## Specification

CryoCenter Series:

Supplied with float type liquid level meter, without pressure building regulator, for liquid nitrogen storage.

| Model                                                     | CryoCenter 30                           | CryoCenter 50 | CryoCenter 100 |
|-----------------------------------------------------------|-----------------------------------------|---------------|----------------|
| Liquid nitrogen capacity (L)                              | 30                                      | 50            | 100            |
| Drain out rate (L/min)                                    | ≥5                                      | ≥5            | ≥5             |
| Static evaporation (L/d)                                  | 0.75                                    | 1             | 1.2            |
| Overall height (mm)                                       | 850                                     | 960           | 1120           |
| External diameter (mm)                                    | 404                                     | 455           | 556            |
| Weight empty/full (kg)                                    | 29/53                                   | 40/81         | 62/143         |
| Standard working pressure (psig/bar/MPa)                  | 13/0.9/0.09                             | 13/0.9/0.09   | 13/0.9/0.09    |
| Relief valve pressure (psig/bar/MPa)                      | 14/0.97/0.097 * 1pc + 22/1.5/0.15 * 1pc |               |                |
| Pressure gauge indicating range (MPa)                     | 0~0.25                                  | 0~0.25        | 0~0.25         |
| Fill/discharge valve, vent valve, pressure building valve | Yes                                     | Yes           | Yes            |
| Pressure building regulator                               | —                                       | —             | —              |
| Pressure relief value (Safety valve)                      | Yes, 2 pcs                              | Yes, 2 pcs    | Yes, 2 pcs     |
| Liquid level meter, float type                            | Yes                                     | Yes           | Yes            |
| Liquid level meter, electronic digital display type       | —                                       | —             | N/A            |
| Connection port                                           | CGA295                                  | CGA295        | CGA295         |
| Caster & hose (2 meter)                                   | Yes                                     | Yes           | Yes            |

| Model                                                     | CryoCenter 200                          | CryoCenter 240 | CryoCenter 300 | CryoCenter 500 |
|-----------------------------------------------------------|-----------------------------------------|----------------|----------------|----------------|
| Liquid nitrogen capacity (L)                              | 200                                     | 240            | 300            | 500            |
| Drain out rate (L/min)                                    | ≥10                                     | ≥10            | ≥10            | ≥10            |
| Static evaporation (L/d)                                  | 2.2                                     | 2.5            | 3              | 5              |
| Overall height (mm)                                       | 1280                                    | 1580           | 1410           | 1500           |
| External diameter (mm)                                    | 656                                     | 656            | 806            | 958            |
| Weight empty/full (kg)                                    | 98/260                                  | 138/293        | 144/382        | 192/551        |
| Standard working pressure (psig/bar/MPa)                  | 13/0.9/0.09                             | 13/0.9/0.09    | 13/0.9/0.09    | 13/0.9/0.09    |
| Relief valve pressure (psig/bar/MPa)                      | 14/0.97/0.097 * 1pc + 22/1.5/0.15 * 1pc |                |                |                |
| Pressure gauge indicating range (MPa)                     | 0~0.25                                  | 0~0.25         | 0~0.25         | 0~0.25         |
| Fill/discharge valve, vent valve, pressure building valve | Yes                                     | Yes            | Yes            | Yes            |
| Pressure building regulator                               | —                                       | —              | —              | —              |
| Pressure relief value (Safety valve)                      | Yes, 2 pcs                              | Yes, 2 pcs     | Yes, 2 pcs     | Yes, 2 pcs     |
| Liquid level meter, float type                            | Yes                                     | Yes            | Yes            | Yes            |
| Liquid level meter, electronic digital display type       | —                                       | —              | —              | —              |
| Connection port                                           | CGA295                                  | CGA295         | CGA295         | CGA295         |
| Caster & hose (2 meter)                                   | Yes                                     | Yes            | Yes            | Yes            |