

## What do you need for the production of dry ice?



Storage tank for liquid CO <sub>2</sub>	Dry ice pelletiser		Dry ice container	
You need to have a supply source of liquid CO <sub>2</sub> . Depending on the production quantities, tanks of 2.000 litres up to 50.000 litres are installed.  For 1 kg dry ice, you need 2,35 kg of liquid CO <sub>2</sub> . Tanks are installed and rented by a gas company. In some cases it might be more convenient to place a mobile tank container.  CO <sub>2</sub> suppliers that are active in most countries are: Nippon Gas, Air Liquid, Linde, Air Products.	CRYONOMIC® offers 4 types of dry ice machines.  All pelletisers can produce 3mm pellets for cleaning and 10mm (or 16mm) sticks for cooling.		CRYONOMIC® offers 4 sizes of isolated containers.  For transport and storage of dry ice for several days (pellets) and several weeks (sticks).	
Pelletiser type	Production capacity of dry ice	Container type	Dry ice storage capacity	
CIP-5XS	35 kg/h (80 lbs/h)	CIC70	55 kg (120 lbs)	
CIP-5S	100 kg/h (220 lbs/h)	CIC151	125 kg (275 lbs)	
CIP-5M	180 kg/h (400 lbs/h)	CIC370	300 kg (660 lbs)	
CIP-5L	300 kg/h (660 lbs/h)	CIC550	440 kg (970 lbs)	

To calculate the production cost of dry ice per kg (lbs), you can make a good estimate with the following price components explained below:

- price of the liquid CO<sub>2</sub> (typically 0.1 to 0.3 EUR/kg) x 2,35
- monthly rental price of liquid CO<sub>2</sub> tank / production quantity per month (typically 250-500 EUR/month)
- Price of pelletiser + optional dry ice containers / depreciation period in years / 12 / production quantity per month (please contact CRYONOMIC for prices)