

# Dry Ice Production

## ASCO Dry Ice Dosing System ADS

part no. 901503



The automatic ASCO Dry Ice Dosing System ADS was specially developed to be able to **fill dry ice pellets of various sizes precisely and as required into different containers and shipping boxes**. In combination with an **ASCO P15i, P28i or P55i dry ice pelletizer**, the pellets are conveyed directly into a funnel, from which the pellets can be dosed precisely using a hose system and a digital weighing system. The ASCO Dry Ice Dosing System is an excellent and highly efficient tool to complement the dry ice pellet production. **The filling system was developed especially for the pharmaceutical, food and logistics industries and is alternatively available fully automatically.**

The compact machine consists of a combination of **conveyor belt, funnel and hose system as well as a load cell with touchscreen**. The entire unit including the pelletizer is started at the push of a button and is therefore operated intuitively. All functions are controlled by a touchscreen, which ensures a good overview and easy operation. The filling weight can be entered quickly and easily and the dosing process is triggered by a foot switch. This allows the customization and monitoring of the amount of pellets.

### Specifications

Production capacity*:	150 kg/h (330 lb/h)- or 280 kg/h (617 lb/h) (based on the Dry Ice Pelletizers P15i and P28i)
Dosing capacity:	up to 10 kg/min. (22 lb/min.)
Voltage:	230 VAC connector strip with at least 2 slots (Printer and weighing control) and an on / off switch
Pneumatic system supply:	Inlet connection: 1/4 "BSP internal thread Working pressure: 6-10 bar
Dimensions (L x W x H):	2'750 mm x 2'200 mm x 2'280 mm (108 x 87 x 90 in)
Weight net:	approx. 240 kg (529 lb) (filling unit) approx. 65 kg (143 lb) (pedestal)
Connectivity and remote access:	through Pelletizer
Base media:	3, 6, 10, 16 mm (1/8, 1/4, 3/8, 5/8 in) dry ice pellets
Dry ice density:	≥ 1.54 kg/dm <sup>3</sup> (96 lb/ft <sup>3</sup> )

## ASCO Dry Ice Dosing System ADS: Function and applications

Thanks to the ASCO Dosing System, freshly produced dry ice pellets can be filled directly into containers or boxes and dosed based on weight. This is particularly helpful when cold chains must not be interrupted and goods are to be sent under cryogenic conditions. For the filling of the dry ice pellets, individually storable presettings are available that define the amount of the pre-filling and main filling with dry ice. This means that goods can be covered all around with the cooling medium. An optical message on the display confirms that the set filling quantity has been reached using an integrated scale including a label printer for documentation.

The full integration of the pelletizer into the control system offers absolute system security, since the dry ice pelletizer and the filling system communicate with each other. The automatic container filling system for dry ice pellets can be operated in combination with the ASCO pelletizers P15i, P28i and P55i. The integration of the filling system into fully automatic dry ice production on conveyor belts can be freely selected (supply and removal of the containers including filling).



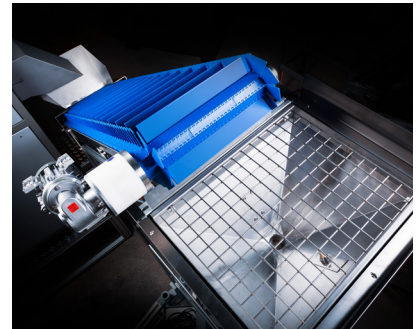
**Ergonomic operation**

- Touchscreen
- Foot switch
- Conveyor belt with scales
- Label printer
- Filling hose with handle
- Storage compartment



**Central control**

- Integration of the pelletizer
- Automatic start and stop



**Funnel container**

- Fill level monitoring
- Automatic control
- Dry ice buffer for dosing

## ASCO Dry Ice Dosing System ADS: Key features

- **Higher-level control** -regulates the entire process, the dry ice production, the filling of the filling chamber and the dosage of the dry ice pellets according to weight.
- **Color Touchscreen 7 "HMI** - multilingual 7" Touchscreen with different access levels, adjustable parameters as well as set and reached filling quantity.
- **Integrated production volume control** -definition and monitoring of dry ice pellet production.
- **Foot switch for actuating the filling process** - the preset filling quantity is conveniently triggered by the foot switch and enables two-handed handling of the filling container and hose system.
- **Integrated fill level monitoring** -if the required dry ice pellet quantity in the hopper falls below the required level, the machine automatically goes into a waiting mode until the correct fill level is reached again.
- **High process reliability** -optimal process monitoring using the integrated load cell ensures optimal performance and high process reliability.
- **Integrated documentation** -the amount of dry ice filled in each case can be recorded directly on the label printer and attached to the container.

## ASCO Dry Ice Dosing System ADS: Options

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### ASCO Dry Ice Dosing System ADS P15i / P28i

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For precise dosing of dry ice pellets in various containers and shipping boxes.

Including roller conveyor with scales, label printer and platform for the ASCO dry ice pelletizer P15i or P28i for positioning in the system.

Without dry ice pelletizer.

