



ASCO Dry Ice Refilling System ARS

Art.-Nr. 900991



The automatic ASCO ARS dry ice transfer system was specially developed to transfer and fill dry ice pellets of various sizes into different containers and shipping boxes precisely and according to requirements. The storage containers already filled with pellets are emptied into a storage tank using a lifting and tilting device, from which they can then be dispensed precisely and continuously using a vibratory conveyor dosing system and a digital weighing system. The ASCO dry ice transfer system is an excellent and highly efficient tool for supplementing dry ice pellet logistics. The transfer system was developed specifically for the pharmaceutical, food, and logistics industries and can be used without local dry ice production.

The compact machine consists of a combination of a lifting and tilting system, a storage container, and a vibratory conveyor dosing system with a touchscreen. The entire unit is started at the touch of a button and can be operated intuitively via the touchscreen, buttons, and foot pedal. All functions are set and controlled via a touchscreen, which provides a clear overview and easy operation. The weight to be filled can be entered quickly and easily, and the dosing process is triggered by a foot pedal. This allows the pellet quantity to be precisely defined and monitored.

Benefits:

- Automatic decanting
- Intuitive operation
- Adjustable filling weight
- Remote maintenance/support

Specifications:

| | |
|--|---|
| Re-filling capacity: | up to 2'000kg/h (4'400lb/h) |
| Dosing accuracy: | +/- 0.1 kg (0.2 lb) at 3kg (6.6 lb) filled units |
| Voltage: | 480V/3AC/60Hz/N/PE / 24V control voltage |
| Connected power: | approx. 2.5 kW (3.4 HP) |
| Electrical protection: | min. 20A/ max. 32A |
| Pneumatic system supply: | min. 6 bar (87 psi), dry, oil free |
| Ambient temperature: | + 5°C up to + 35°C (41°F up to 95°F) |
| Dimensions (LxWxH): | apx. 3'860mm x 2'300mm x 3'770mm (4'850mm tipping height) apx. 152 in x 90.5 in x 148 in (191 in tipping height) |
| Weight: | approx. 3'900kg (8'600lb) |
| Requirements installation site: | min. C20/25 concrete (uncracked) min. 200mm (7.9 in) foundation thickness |
| Connectivity and remote access: | LAN |
| Base media: | 3, 6, 10, 16mm (1/8, 1/4, 3/8, 5/8in) dry ice pellets |
| Dry ice supply: | ASCO AT440 or AT240W container (variable) |
| Container carrying capacity: | max. 800 kg (1764 lb) |
| Storage hopper volume: | approx. 1 m ³ (35 cu ft) |

ASCO Dry Ice Refilling System ARS: Function and applications

Thanks to the ASCO Dry Ice Refilling System ARS, dry ice pellets can be transfilled from large storage containers directly into smaller containers or smaller boxes and dosed by 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. A visual message on the display confirms that the preset filling quantity has been reached by means of an integrated scale.

The full integration of the system into the control system offers absolute system security, as all functions are centrally displayed and monitored. The automatic container refilling system for dry ice pellets is designed as standard for the ASCO AT440 and AT240W dry ice containers but can also be loaded with other storage containers. The integration of the refilling system into fully automatic dry ice production on conveyor belts can be freely selected (supply and removal of the containers including filling).



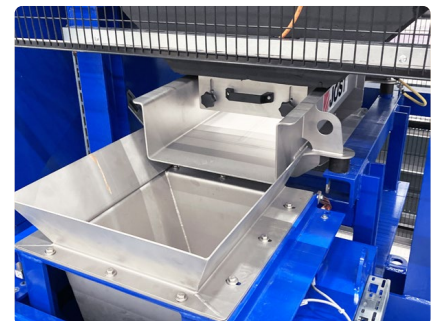
Ergonomic operation

- Automatic filling process
- Automatic discharge
- Safety barriers with safety switch
- Simultaneous refilling and dosing possible



Central control

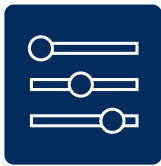
- 7" Touchscreen
- Foot pedal for dosing
- Switches for manual mode



Refilling system

- Fill level monitoring
- Stepless dosing with oscillating feeder
- Insulated storage bunker made in stainless steel

ASCO Dry Ice Refilling System ARS: Key features



Higher-level control - regulates the entire process, the dry ice prefilling, the filling of the oscillating feeder, the fill level monitoring and the dosage of the dry ice pellets according to weight.



SIEMENS PLC with 7" HMI Colour-Touchscreen - 7" Touchscreen with different access levels, adjustable parameters as well as set and reached filling quantity. Including LAN remote access.



Foot pedal for actuating the filling process - the preset filling quantity is conveniently triggered by the foot pedal and enables two-handed handling or organization of the filling process.



Integrated fill level monitoring - if the required dry ice pellet quantity in the storage hopper falls below the required level, the machine automatically goes into a waiting mode until the correct fill level is reached again. If the storage hopper is full, the lifting unit remains in waiting position until it can be filled again. An overfilling of the storage hopper is not possible.



High process reliability - optimal process monitoring using the integrated load cell ensures optimal performance and high process reliability. The unit is not designed for dry ice storage and can be fully discharged at the push of a button.



Integrated access security and protection - Safety doors with safety switch according to EC 2006/42/EC Machinery Directive.

ASCO Dry Ice Refilling System ARS: Options

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Pos. 001

ASCO Dry Ice Refilling System ARS CE

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

Consisting of lifting and tilting unit, insulated storage hopper with scale, stepless oscillating feeder and integrated central control unit.

Without transport conveyor system.

