ASCO Dry Ice Reformer R70i

Art.-Nr.901510

The ASCO Dry Ice Reformer R70i was developed to produce dry ice blocks in various sizes by compressing dry ice pellets. Whether in combination with an existing or a new dry ice pelletizer: the ASCO Dry Ice Reformer R70i is an excellent, highly efficient tool for supplementing the dry ice pellet business with dry ice blocks.

The compact machine is powered by a special, powerful hydraulic unit and started at the touch of a button. All functions are controlled by a Siemens PLC. A Siemens touch screen provides a clear overview and easy operation, while comprehensive monitoring facilitates maintenance and service planning. With the integrated production volume control, the number of blocks to be produced or the weight can be defined and monitored.

Benefits:

- Low breakage rate
- Intuitive control
- Various block dimensions
- System integration
- Remote maintenance/support

Specifications:

Production capacity*:	300 to 700kg/h (661–1543lb) (depending on block size)
Voltage:	400VAC± 5 %/50Hz /3Ph + PE
Dimensions (L×W×H):	1'140×1'140×1'620mm (45 x 45 x 64in)
Weight net:	approx. 510kg (1122lb) (without hydraulic oil) approx. 580kg (1276lb) (with hydraulic oil)
Weight packed:	680 kg (1499 lb)
Total power installed:	9.5 kW (12.7 HP)
Max. Ø power consumption:	< 3kW (4 HP)
Standby mode:	0.6 kW (0.8 HP)
Network connection:	LAN, Ethernet, 4G
Basis media:	3mm (1/8 ") dry ice pellets
Dry ice density blocks:	≥ 1.54kg/dm3 (96lb/ft3)
Standard block/slice sizes:	210× 125mm (8.3 x 4.9in), thickness 16 to 60mm (0.6 to 2.3in) resp. weight 650 to 2'430g (1.4 to 5.4lb) (thickness and weight stepless adjustable)
ØBreakage rate	<0.5% with fresh dry ice pellets

	Standard block /slice size 210×125mm (8.3 x 4.9in)								
Thickness inmm** (Thickness inin)	16 (0.6)	18 (0.7)	20 (0.8)	22 (0.9)	25 (1)	30 (1.2)	40 (1.6)	60 (2)	60 (2.4)
Weight ing/block approx. (Weight inlb/block approx.)	650 (1.4)	730 (1.6)	810 (1.8)	890 (2)	1'010 (2.2)	1'220 (2.7)	1'620 (3.6)	2'030 (4.5)	2'430 (5.4)
Performance inkg/h approx. (Performance inlb/h approx.)	300 (661)	320 (705)	336 (741)	370 (816)	400 (882)	460 (1014)	562 (1239)	659 (1431)	700 (1543)

* The production capacity figures are based on the use of 3 mm pellets freshly produced on ASCO pelletizers.

** This selection of sizes is only an excerpt and serves only to indicate performance; the thickness or weight of the blocks can be adjusted continuously as desired.

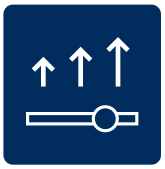
Function and applications

The ASCO Dry Ice Reformer R70i is started on the 7" Siemens comfort touch screen panel. All functions are controlled by the inbuilt PLC. Dry ice pellets with a diameter of 3mm (1/8 ") are filledinto the dry ice hopper. From therethey are conveyed to the pressing chamber automatically, where they are predosed and compressed into high-quality dry ice blocks.

To ensure continuous, reliable operation of the reformer, oil level, cycle time, operation hours, due date of service,
motor overload, amount of produced dry ice blocks since last start and hydraulic pressure are all monitored and
displayed on the touch screen of the R70i's PLC.

Dry ice reformer R70i: Features

SIEMENS PLC - controls the entire process, the filling of the press chamber, and the hydraulics with its main and auxiliary cylinders.



Integrated production quantity control - Definition and monitoring of the number of blocks to be produced or the weight.

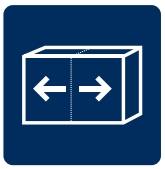
State-of-the-art remote maintenance technology offers a range of possibilities for combining Industry 4.0 and dry ice production.

Fully Automatic Block Density Adjustment—Automatic block density adjustment ensures consistent and reproducible block density throughout the entire production process.

System integration - Can be combined with all ASCO pelletizers and ASCO APM120 packaging machines.

High process reliability - optimal process monitoring ensures optimal performance and high process reliability

Integrated block thickness control and fill level monitoring - if the required amount of dry ice pellets in the hopper is insufficient, the machine automatically switches to standby mode until the correct fill level is reached again.



The thickness or weight of the blocks can be adjusted continuously (16 to 60 mm or 650 to 2,430 g). The corresponding calculation is performed automatically.

Smart-Signal - The four-color signal light with integrated warning siren allows easy checking of the current operating status, even from a distance. The standardized color coding allows differentiation between "production," "ready for operation," "malfunction," or "input prompt."

Dry Ice Reformers R70i: Options

Podium for Dry Ice Pelletizer P15/P28 — Art.-Nr. 4063845

Podium for Dry Ice Pelletizer P15/P28
Customized podium to elevate a dry ice pelletizer to directly charge the ASCO Dry Ice-Reformer R70i with pellets

Pellet Feeder — Art.-Nr. 4070842

ASCO Pellet Feeder for Dry Ice Reformer R70i
Universal conveyor belt for automatic filling of the R70i dry ice reformer with pellets from all ASCO dry ice pelletizers.

Spare Parts Package — Art.-Nr. 4063494

Spare Parts Package
Includes a recommended selection of spare parts to ensure continuous operation.

sample image