Dry Ice Production

ASCO Dry Ice Pelletizer A55P-D3

The ASCO Dry Ice Pelletizer A55P having a production capacity of 55 kg per hour (121.25 lb/h) is ideal for building up a smaller dry ice production.

The ASCO Dry Ice Pelletizer A55P is driven by a powerful hydraulic unit featuring a push button for instant start of production. All functions are controlled by a PLC. Fully automatic control of oil temperature and dry ice snowing process guarantees continuous dry ice production without any supervision right from push button start.

Benefits of an in-house dry ice production:
- if for dry ice blasting: more efficient cleaning results, because: the fresher the dry ice, the more efficient the cleaning
- shorter production stops
- reduction of dry ice lost due to sublimation
- decreased logistics expense connected with purchasing and disposing of dry ice

Extruder plate for 3 mm (1/8 in) pellets
The ASCO Dry Ice Pelletizer A55P-D3 is standardly equipped with an extruder plate for the production of pellets with a diameter of 3 mm (1/8 in).

Specifications

Production capacity: 55 kg/h (121.25 lb/h) at 17.5 bar (253.8 psi) CO₂ inlet pressure
Voltage: 480 V / 60 Hz / 3 Ph + PE (other voltages on request)
Max. power consumption: 1.6 kW (2.15 HP)
Dimensions pelletizer (L x W x H): 1'150 x 600 x 700 mm (45.28 x 23.62 x 27.56 in)
incl. standard machine base (L x W x H): 1'150 x 600 x 1'300 mm (45.28 x 23.62 x 51.18 in)
Weight net incl. standard machine base: approx. 147 kg (324 lb) (with hydraulic oil)
approx. 141 kg (310.85 lb) (without hydraulic oil)
CO₂ inlet connection: 1/2” BSP female
CO₂ source: CO₂ storage tank, liquid phase (13-21 bar) (188.5-304.6 psi)

(We recommend to choose additionally a machine base as option to the pelletizer, see following pages)
ASCO Dry Ice Pelletizer A55P-D3: Special features

Function and Applications

The ASCO Dry Ice Pelletizer A55P requires a liquid CO₂ supply (pressure 13 - 21 bar / 188.5 - 304.6 psi) and power supply of 480 V / 60 Hz /3 Ph + PE (other voltages available on request). The machine features instant push button start and all functions are controlled by an inbuilt PLC. Dry ice snow is produced in the snowing chamber, pressed and then extruded by a powerful hydraulic unit. Hard, dense dry ice pellets are produced within less than one minute after push button start. To ensure continuous, reliable operation of the pelletizer, oil temperature, cycle time, motor overload, CO₂ inlet pressure and hydraulic pressure are all monitored and displayed on the control panel.

Options

The ASCO Dry Ice Pelletizer A55P-D3 is standardly equipped with an extruder plate for the production of pellets with a diameter of 3 mm (1/8 in). Such pellets are used especially for dry ice blasting purposes. Optional extruder plates for pellets with a diameter of 6 mm (1/4 in), 10 mm (3/8 in) and 16 mm (5/8 in) are available. The A55P, however, can also be delivered standardly equipped with extruder plates for 6, 10 or 16 mm (1/4, 3/8 or 5/8 in) pellets.

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ASCO Dry Ice Pelletizer A55P-D3: Standard scope of supply

Extruder plate for 3 mm (1/8 in) pellets

Pellets for **blasting purposes**

Part no. 4044517
### ASCO Dry Ice Pelletizer A55P-D3: Options

| Pos. 001 | **Extruder plate for 6 mm (1/4 in) pellets**  
| Pellets for *cooling purposes* | part no. 4044519 |
| Pos. 002 | **Extruder plate for 10 mm (3/8 in) pellets**  
| Pellets for *cooling purposes* | part no. 4044518 |
| Pos. 003 | **Extruder plate for 16 mm (5/8 in) pellets**  
| Pellets for *cooling purposes* | part no. 4044516 |
| Pos. 004 | **Standard machine base**  
| For filling of dry ice storage containers or an ASCOJET 1701  
| Increases the total height by 600 mm (23.62 in) | part no. 4063029 |
| Pos. 005 | **Higher machine base**  
| For filling of higher storage containers or dry ice blasting units  
| Increases the total height by 800 mm (31.5 in) | part no. 4044520 |
| Pos. 006 | **Spare parts kit**  
| Containing a selection of recommended spares for approx. one to two years of normal operation | part no. 4044521 |
ASCO Automatic Dry Ice Filling System

For a higher level of automation the pelletizer can be combined with an automatic filling system. The optional automatic filling system, with the appropriate control system, allows a pre-set low dry ice level to automatically start the dry ice pelletizer, with automatic stop at the pre-set high level. Such automatic filling system is the optimum solution wherever the automatic production of an exact dry ice quantity is needed.

The automatic filling system can also be added to the pelletizer at a later stage if required.

ASCO Automatic Dry Ice Filling System small A55P

Platform of 600 x 800 mm (23.62 x 31.5 in)
For the automatic filling of all ASCO Dry Ice Blasting Units and similar sized blasting machines or smaller dry ice storage containers (e.g. AT126).

part no. 4044613