

# Dry Ice Production

## Dry Ice Pelletizer A55P-D3

part no. 900103



The dry ice pelletizer A55P having a production capacity of 55 kg per hour (121.25 lbs/hr) is ideal for building up a smaller dry ice production.

The 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 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/hr (121.25 lbs/hr) at 17.5 bar (253.8 psi) CO <sub>2</sub> inlet pressure
Voltage:	400 V / 50 Hz / 3 Ph + PE (other voltages on request)
Max. power consumption:	1.6 kW
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 lbs) (with hydraulic oil) approx. 141 kg (310.85 lbs) (without hydraulic oil)
CO <sub>2</sub> inlet connection:	1/2" BSP female
CO <sub>2</sub> source:	CO <sub>2</sub> 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)

## Special features of Dry Ice Pelletizer A55P-D3:

### Function and Applications

The dry ice pelletizer A55P requires a liquid CO<sub>2</sub> supply (pressure 13-21 bar) (188.5-304.6 psi) and a power supply of 400V/50Hz/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, CO<sub>2</sub> inlet pressure and hydraulic pressure are all monitored and displayed on the control panel.

### Options

The 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.

<b>Pellet size</b>				
	3 mm (1/8 in)	6 mm (1/4 in)	10 mm (3/8 in)	16 mm (5/8 in)
<b>Operating range</b>	Dry Ice Blasting	Cooling purposes	Cooling purposes	Cooling purposes

## Standardly included in the delivery of Dry Ice Pelletizer A55P-D3:

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

Pellets for **blasting purposes**

part no. **4044517**



## Options for Dry Ice Pelletizer A55P-D3:

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 or 2001RX

Increases the total height by 600 mm (23.62 in)

part no. 4044515



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



## Options for Dry Ice Pelletizer A55P-D3:

Pos. 007

### Production control system PCS55

For a higher level of automation the pelletizer can be combined with a production control system. Such a production control system allows the regulation of the production quantity or the production time, thus reducing the need for supervision even further, therefore, keeping the requirement for respective personnel to an absolute minimum. With the optional production control system the dry ice pelletizer automatically stops when the set production quantity/ production time is reached.

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

part no. 4044605



### 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.



Pos. 008

### 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 ASCOJET dry ice blasting units and similar sized blasting machines or smaller dry ice storage containers (e.g. AT126).

part no. 4044613