

ICE TECH

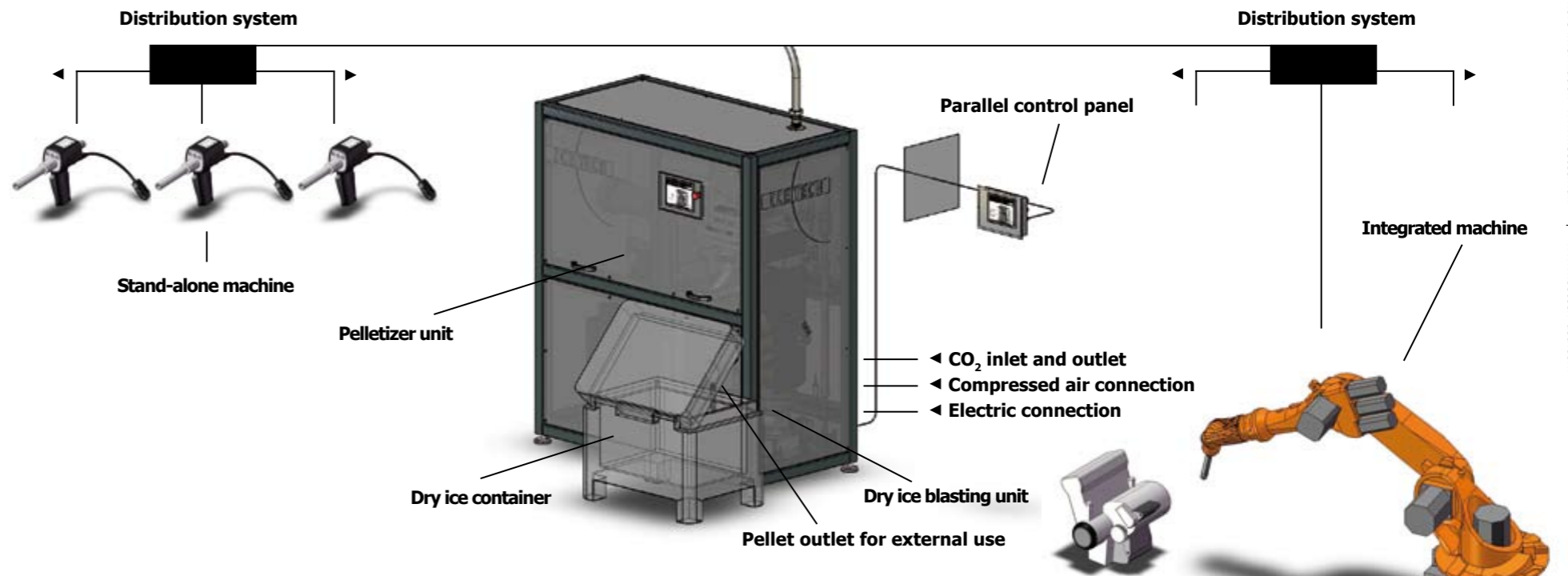
COMBI 75



# COMBI 75

Combined Dry Ice Production and Dry Ice Blasting





### CO<sub>2</sub> Pellet Production AND Dry Ice Blasting Combined in ONE Machine

The IceTech COMBI 75 and its accessories have been developed with the intention of manufacturing an automated cleaning system which both meets the requirements especially of industrial companies for a continuous cleaning process, and minimizes consequential costs of machine / plant cleaning and maintenance.

The IceTech COMBI 75 combines dry ice pellet production and dry ice blasting. Therefore high-density dry ice pellets will always be available on site in the exact quantity required.

#### Several Functions in one Machine

The IceTech COMBI 75 combines several units and functions:

- :: A pelletizer unit
- :: A dry ice blasting unit
- :: Optional distribution system to facilitate the connection of several blasting guns
- :: Optional integration in plant control units and automation processes

The IceTech COMBI 75 continuously produces dry ice pellets directly into the pellet tank of the dry ice blasting unit.

From there the dry ice pellets are transported through a distribution system to one or more blasting guns or robots.



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# COMBI 75 Complete, Automated Machine for Dry Ice Production and Dry Ice Blasting

#### User-Friendly Control Display

The IceTech COMBI 75 includes the following:

- :: Colour touch screen
- :: Password protection
- :: Control panel for all functions
- :: Status and alarm indication

The IceTech COMBI 75 can be set to automatically produce a predefined quantity of dry ice pellets, i.e. set to produce exactly the quantity required for a certain blasting application (5-75 kg/h/11-165 lbs/h). The pelletizer unit automatically adapts the production of dry ice pellets to the dry ice consumption predefined on the blasting unit.

The IceTech COMBI 75 can also be used to produce dry ice pellets for other applications in that it is fitted with an extra pellet outlet from where pellets can be produced directly into an external dry ice container.

#### Advantages of Automatic Dry Ice Production

- :: The dry ice pellets available for blasting are always freshly produced (i.e. always of optimum quality since the CO<sub>2</sub> is kept liquid until ½ minute before use).

- :: The CO<sub>2</sub> consumption is reduced since only the dry ice quantity required is produced (i.e. no buffer tank).

- :: The dry ice is produced directly into the blasting unit (i.e. no time consumption for dry ice charging, no waste of dry ice).

#### Blasting Guns on Site

The IceTech COMBI 75 is available with a distribution system to facilitate the connection of several blasting guns placed at different locations around the factory.

The time previously used on obtaining dry ice and a blasting machine whenever an object was to be cleaned is saved.

All you need to do is pick up the blasting gun installed near the actual location – and put it back again right after the cleaning process.

So instead of spending perhaps 30 minutes on dry ice and machine handling, the only time required with an IceTech COMBI 75 would be the actual time consumption for the cleaning itself of perhaps 2 to 5 minutes.

#### Stand-Alone or Integrated Machine

Of course the IceTech COMBI 75 can be used as a stand-alone machine for a large number of cleaning applications but additionally it is prepared for integration in plant controls to form part of larger robot-controlled and automated systems.

#### Parallel Control Panel

If required an additional control panel can be installed in parallel anywhere in the plant using a bus connection and a 24 V DC power supply.

The functions of this additional control panel will be exactly the same as those of the control panel installed on the machine.

#### Inlet Liquid CO<sub>2</sub> Pressure

bar: 16-22 | psi: 232-319

#### Liquid CO<sub>2</sub> Specifications

The CO<sub>2</sub> must have a purity of min. 99.9%. The water content must not exceed 35 ppm and must not be less than 5 ppm. **NOTE:** The liquid CO<sub>2</sub> supply must be completely free of oil.





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Distributor

**TECHNICAL DATA**

**COMBI 75**

**Dimensions mm/inch**

Length: 1600 / 63

Width: 917 / 36.1

Height: 1879 / 74

**Weight**

kg: 954

lbs: 2103

**Rated Output**

kg/h: 75

lbs/h: 165

High-quality dry ice pellets

**Power Supply**

3 x 400 V AC + PE, 50/60 Hz

I<sub>max</sub>: 32 A

**Supply Pressure**

bar: min. 5 - max. 16

psi: min. 72 - max. 232

**Blasting Pressure**

bar: min. 2 - max. 16

psi: min. 29 - max. 232

**Air Consumption**

m<sup>3</sup>: 3-11

cfm: 106 - 388

Depending on nozzle combination