

# COMBI 350H



## Fully Automated Machine for Dry Ice Production and Dry Ice Blasting



### Benefits of Automatic Dry Ice Production:

- Produce fresh, high density dry ice on demand
- Reduce wasted dry ice due to sublimation
- Eliminate transportation costs
- Always fresh dry ice pellets available for blasting (the CO<sub>2</sub> is kept liquid until a few minutes before use)
- CO<sub>2</sub> consumption is reduced because only the dry ice quantity required is produced (no buffer tank)
- Dry ice is produced directly into the blasting unit (no time consumption for dry ice charging; no waste of dry ice)

### Unique Features:

- Stainless steel enclosure reduces noise level below 75 db(A) and protects machine components
- Fully automated, one-button operation
- 15" multi touch built-in control panel
- Sub Cooling technology increases CO<sub>2</sub> utilization
- Quick startup reduces downtime and loss of valuable CO<sub>2</sub>
- Shutdown function removes dry ice from the hopper
- Remote support and diagnostics
- Compact footprint

### Functions in One Machine:

- Pelletizer unit
- Two dry ice blasting units
- Cutter unit ensures the right pellet size
- Distribution system ensures availability of pellets when needed
- I/O Box for integration in plant control units and automation processes

### Accessories for COMBI 350H:

- Optional control for two separate distribution systems to facilitate the connection of several nozzles
- Optional system for heating blasting air to avoid condensation on nozzles
- Optional control for up to four heated nozzles

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### COMBI 350H Technical Data

**Rated Output:**

kg/h: up to 350  
lbs/h: up to 772  
of high quality dry ice pellets

**Dimensions mm/in:**

Length: 2560 / 101  
Width: 1000 / 39  
Height: 1870 / 74

**Weight:**

kg: 1691/ lbs: 3728

**Inlet CO<sub>2</sub> Supply:**

bar: 16 - 22  
psi: 232 - 319

**Back Pressure on Revert Gas:**

bar: 0 - 1  
psi: 0 - 14.5

**Dry Ice Blasting Unit Supply Pressure:**

bar: 5 - 16  
psi: 72 - 232

**Blasting Pressure:**

bar: min. 2 - max. 16  
psi: min. 29 - max. 232

**Air Consumption per Blasting Unit:**

Nm<sup>3</sup>/min: 3 - 11  
cfm: 106 - 388  
depending on nozzle combination

**Compressed Air Connection:**

1.5" connection  
The compressed air must be kept clean  
and free of oil, foreign bodies and water

**Power Supply:**

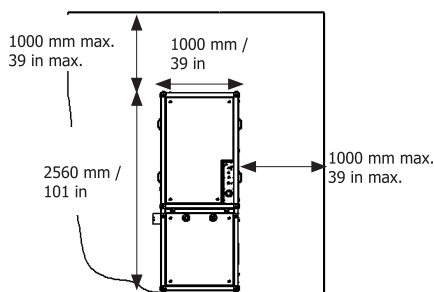
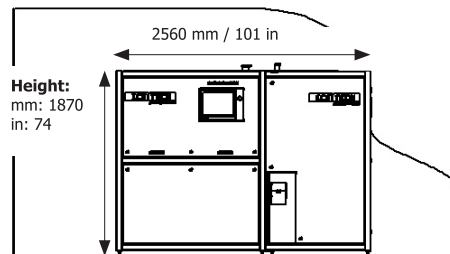
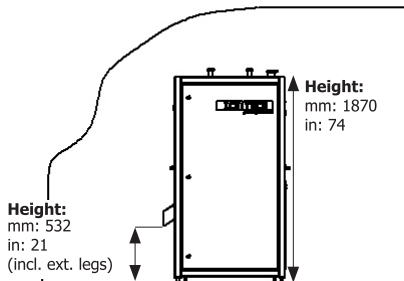
3 x 400 V AC + N + PE, 50Hz  
TN-S Earthing system  
Imax.: 32A  
Ipk: 10 kA  
480V AC Solidly Grounded Wye Source  
3 Phase + GND wire, 60Hz Imax.: 32A  
Control Panel SCCR: 25kA rms symmetrical  
480VAC

**Rated Power:**

KW: 11  
Hp: 15

**Noise Level:**

Below 75 db(A) for production unit

**Floor Characteristics and Minimum Clearance Distances**

The COMBI 350H must be placed on a horizontal concrete floor with an adequate load-carrying capacity. The floor must be free of cracks and structural deficiencies. The minimum clearance distances must be observed to provide sufficient space for opening the cabinet doors and servicing the COMBI 350H.

**Installation**

The installation of the COMBI 350H must be carried out by one of Cold Jet's service technicians or by a technician approved by Cold Jet.