

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 CO₂ is kept liquid until a few minutes before use)
- CO₂ 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 CO₂ utilization
- Quick startup reduces downtime and loss of valuable CO₂
- 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 CO₂ 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:

Nm³/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:

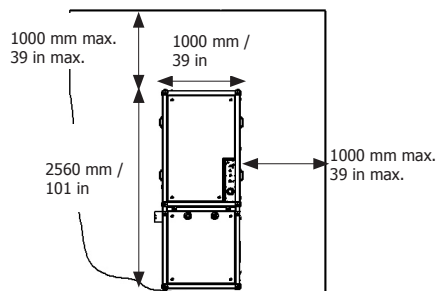
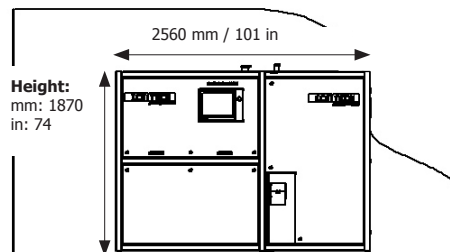
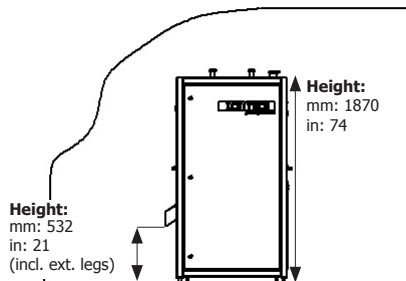
3 x 400 V AC + N + PE, 50Hz
TN-S Earthing system
Imax.: 32A
Ipk: 10 kA
480V AC Solidly Grounded Wye Source
3 Phase + GND wire, 60Hz Imax.: 32A
Control Panel SCCR: 25kA rms symmetrical
480VAC

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.