

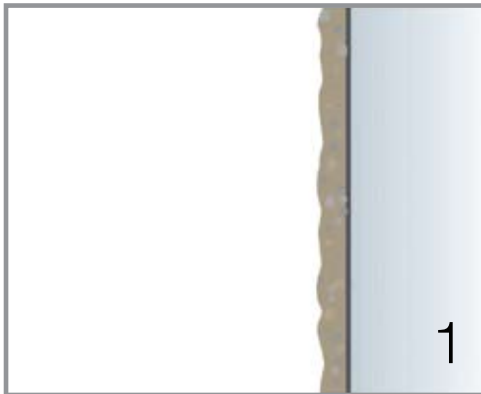
Ice Blaster IB 15/80

Industrial | Restoration | Manufacturing

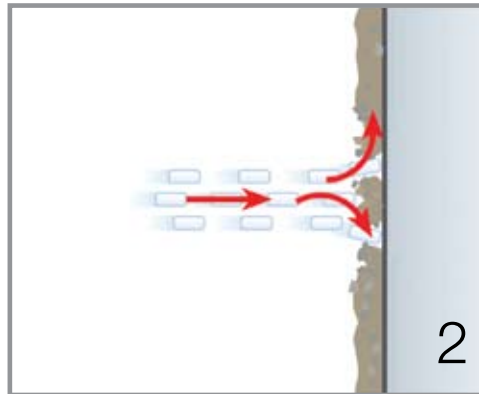


How does dry ice cleaning work?

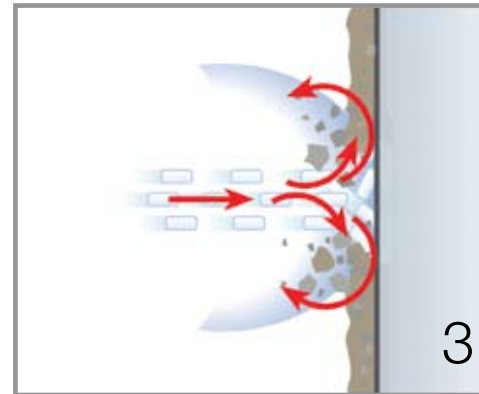
No dampness, no waste water, no wear, no erosion, no chemicals.



1
Dry ice cleaning works on the principle of 3mm dry ice pellets being propelled from the gun at supersonic speed (>800mph) and impacting the contaminated surface.



2
The very cold temperature of the dry pellets (-79°C) freezes the surface and delamination of the contaminant creates cracks.



3
Pellets break into the rifts of the contaminant and then expand by about 400 times, lifting the contaminant from the surface.



4
In the process the dry ice sublimates (turns into gas without becoming a liquid), leaving only the contaminant that has been removed behind, which can be easily swept from the floor.

Key benefits:

Mechanical action

- no chemicals required
- no chemical storage
- no chemical disposal
- no chemical safety issues

Very low temperature

- reduces wear
- ideal for tools and moulds where dimensional accuracy is required

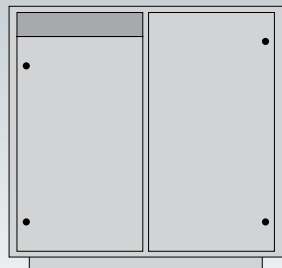
Sublimation

- Ice pellets transform into gas without becoming a liquid
- saves water
 - no change in humidity
 - no wet floors and surfaces

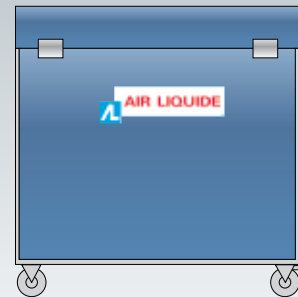
Minimal waste

- reduced down time
- no drying out time required
- reduced dismantling/reassembly time

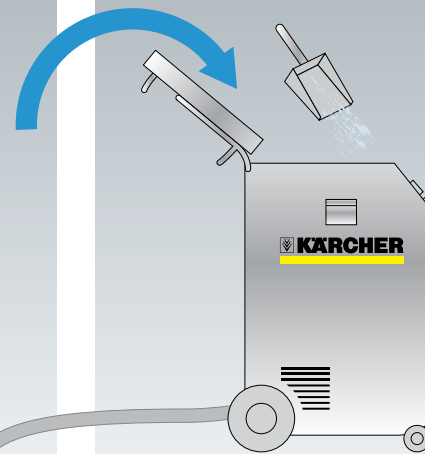
The complete system Ideal for use on site or on location



Compressor



Pellet box



IB 15/80



Range of accessories
to suit applications



Manufacturing

The minimal abrasion of dry ice cleaning means that tools, dies and moulds last longer and makes cost effective sense.



Printing & Paper

With other cleaning systems, relative humidity can be a problem which can affect other processes on site.



Buildings

Ideal for sensitive projects where water would cause problems and sandblasting would damage the original surfaces.



Dry ice cleaning



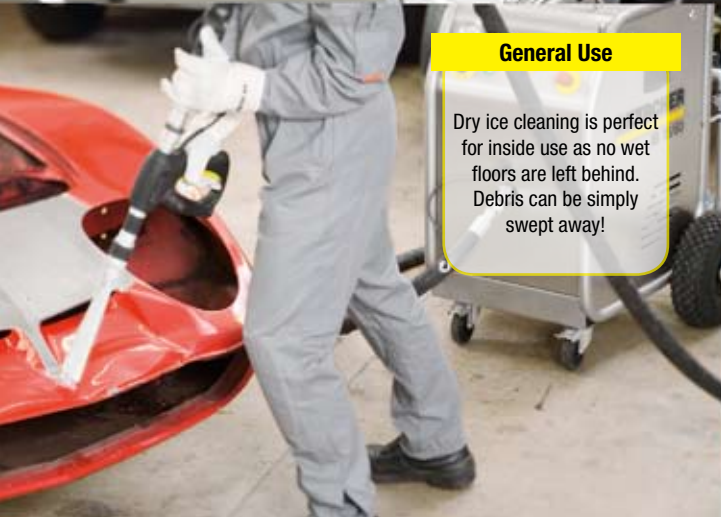
Nuclear

Precision and heat sensitive equipment remains safe with dry ice cleaning. No contaminant disposal costs.



Ovens

Ovens & Furnaces can be cleaned while still hot as no steam is created using dry ice.



General Use

Dry ice cleaning is perfect for inside use as no wet floors are left behind. Debris can be simply swept away!



Authorities

High mobility makes dry ice cleaning perfect for local authority use.

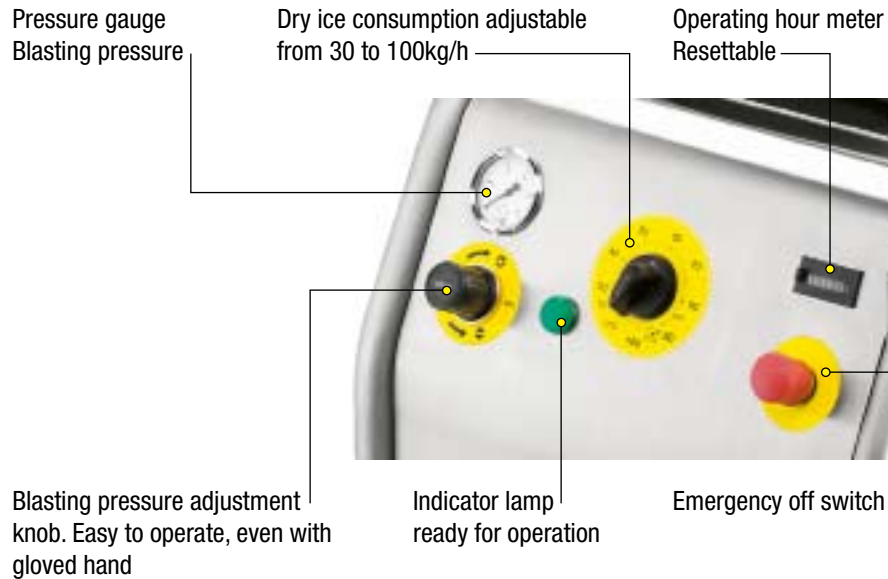
before...

and after



In focus: the Ice Blaster 15/80

The IB 15/80 is not only mobile and versatile, but also user friendly and easily maintained.



When you require dry ice
for your machine, just contact **Air Liquide**

0800 917 1313 who will
deliver the required amount to your
premises in thermally efficient containers - ready to use!

Product features:

- Push handle for convenience and mobility, cart principle
- Removable nozzle case for quick access to different blasting nozzles and accessories
- Blasting hose holder
- Blasting gun holder for fast nozzle changes
- Recessed handle for side panel
- Robust stainless steel housing with easily-removable side panel

Technical data

		IB 15/80 110v	IB 15/80 240v
Order No.		9.533-643	9.533-644
Power supply	Ph/V/Hz	1/110/50	1/240/50
Connected load	kW	0.6	0.6
Dimensions	B x T x H in mm	720 x 850 x 1100	720 x 850 x 1100
Weight (dry)	kg	90	90
Sound pressure	dB(A)max	125	125
Housing/frame		stainless steel (1.4301)	stainless steel (1.4301)

Compressed air

Hose coupling		Claw coupling (DIN 3238)	Claw coupling (DIN 3238)
Operating pressure	bar/MPa	3-16/0.3-1.6	3-16/0.3-1.6
Flow rate	m ³ /min	3-11	3-11
Air quality		min. Class 3, ISO 8573-1	min. Class 3, ISO 8573-1

Dry ice blasting

Blasting pressure	bar/MPa	3-16/0.3-1.6	3-16/0.3-1.6
Dry ice pellet	ø in mm	3	3
Dry ice consumption	kg/h	30-100	30-100
Dry ice tank capacity	kg	35	35

Ergonomically shaped Gun:

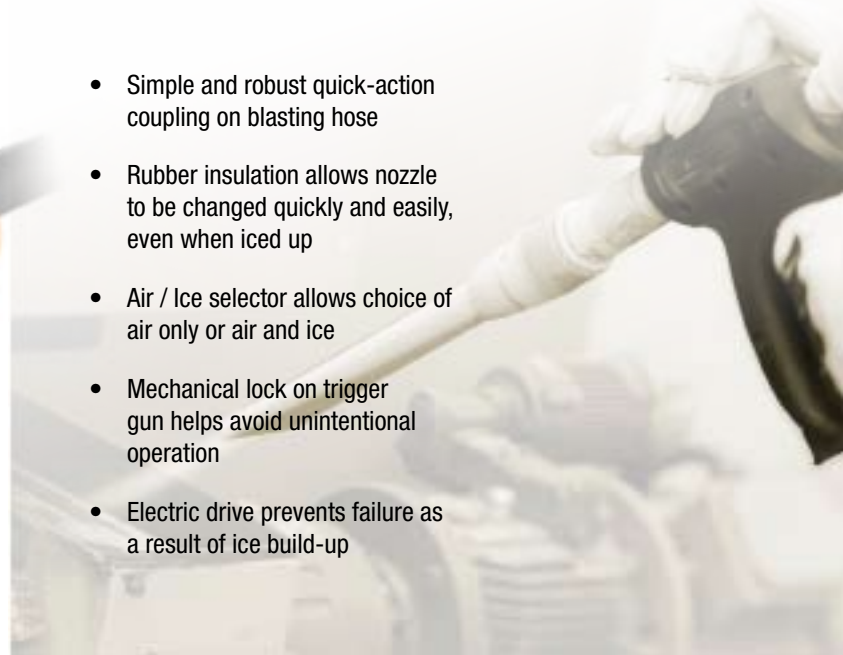
The robust material and ergonomic design of the blasting gun guarantee long periods of fatigue-free operation. Many innovative features and safety items are integrated into the product for optimum efficiency and comfort.

Special nozzles and handles

KÄRCHER offers accessories to suit all applications



- Simple and robust quick-action coupling on blasting hose
- Rubber insulation allows nozzle to be changed quickly and easily, even when iced up
- Air / Ice selector allows choice of air only or air and ice
- Mechanical lock on trigger gun helps avoid unintentional operation
- Electric drive prevents failure as a result of ice build-up



Accessories





Note: items shown are not to scale

	Standard accessories	Order No.	Description / function
1	Blasting gun	4.775-566	Ergonomically shaped housing, easy nozzle changeover, selector for compressed air and ice or air only
2	Blasting hose	4.013-039	7m, with quick-action coupling and electric connection
3	Pencil jet nozzle, small	4.130-418	For extreme contamination as well as low compressor power
4	Fan jet nozzle	4.130-423	High area coverage with good cleaning power
5	Fan jet nozzle, 10mm	4.130-422	Changes flow rate
6	Nozzle grease	6.288-072	Silicone grease for aluminium threads of nozzles
7	Nozzle case	6.421-311	With foam liner
8	Water separator	2.641-249	Filter included
	Optional accessories	Order No.	Description / function
9	Angled blasting nozzle	4.321-203	90 degree nozzle, can be used in combination with all available nozzles. Connector 4.130-425 required
10	Angled blasting nozzle	4.321-204	105 degree nozzle, can be used in combination with all available nozzles. Connector 4.130-425 required
11	Angled nozzle connector	4.130-425	Necessary to connect all angled nozzles. (4.321-203 and 4.321-204)
12	Pencil jet nozzle, large	4.130-419	For lighter soiling
13	Fan jet nozzle insert, 6mm	4.130-421	Changes flow rate
14	Fan jet nozzle insert, 8mm	4.130-420	Changes flow rate
15	Scrambler	4.110-015	Reduces the size of dry ice pellets into finer particles. Ideal for cleaning highly sensitive surfaces
16	Nozzle extension	4.130-417	Makes operation easier in special applications
17	Handle	6.321-206	For use with nozzle extension
18	Dry ice shovel	4.321-198	Stainless steel with insulated handle
19	Earmuffs	6.321-207	Full cups enclose ears
20	Goggles	6.321-208	With side protection and elastic headband
21	Protective gloves	6.321-210	One size fits all
22	Wrench	7.815-009	Flat wrench for nozzle changes (2 required)



Ice Blaster -Dry Ice Cleaning Specialist

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