i3 MICROCLEAN®

PRODUCT CATALOG



PC.MC.160527

Cold Jet®
the force of nature

This catalog contains all of Cold Jet's i³ MicroClean® product offerings and all part numbers that were current at the time of catalog production.
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i³ MICROCLEAN®

This unique cleaning system capitalizes on Cold Jet's patented shaved ice and feeder technologies to deliver a complete precision cleaning solution. It is an ergonomic and intuitive system that utilizes a readily available blast medium, and is fast, effective and proven reliable. Its unparalleled low air and ice consumption provides cost-effective operation in an almost noise-free environment.

The i³ MicroClean system includes:
- i³ MicroClean blast machine
- One length of dry ice blast hose
- One length of air hose
- Applicator
- Customer-specified nozzles
  (MC35 where none is specified)
- Transport cart



i³ MicroClean Deluxe (DX)
Experience Cold Jet's patented shaved MicroParticle technology with your i³ MicroClean Deluxe (DX), an optional upgrade that shaves both pellets and nuggets. MicroParticles allow you to clean and prepare surfaces with more precision, more delicacy, less air and less noise than traditional dry ice pellet blasters. Understanding and operating the i³ MicroClean with pellets or nuggets is simple.

SPECIFICATIONS

Hopper capacity ..... approximately 20 lbs (9.1 kg) capacity
Variable feed rate ..... 0 to 1.2 lbs/min (0 to 0.6 kg/min)
Blast pressure range ..... 20 to 140 psi (1.4 to 9.7 bar)
Air supply pressure range ..... 50 to 140 psi (3.4 to 9.7 bar)
Weight..... 130 lbs (59 kg)
Size (L x W x H)..... 22" x 16" x 21" (56 cm x 41 cm x 53 cm)
Power..... 100-140 VAC, 1 Ø 50/60 Hz, 5 amps
(200-240 VAC, 1 Ø 50/60 Hz, 5 amps)

Handles Block Sizes:
6" x 6" x 12"
(150 mm x 150 mm x 300 mm)
or
5" x 5" x 10"
(127 mm x 127 mm x 254 mm)
(with available insert)

Internal air filter designed to remove water, oil, rust and other articles from the air supply
12-month warranty (extended warranty packages available)

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MicroClean Applicator

Our applicator is light weight, ergonomically designed with high visibility lighting that enables blasting at various angles and in any environment. High intensity LED lights on the applicator face provide ample lighting for dark surfaces being cleaned. Includes air-only feature and safety trigger switch.

Part #: 2E0881 - MicroClean Applicator



Nozzles

Full-pressure precision blast nozzles.

Air consumption rates indicated are based on standard 80 psi (5.5 bar) blast pressure.

Precision Nozzles

12 CFM (0.3 m^3/min)
Yellow color
Blast swath 0.13" (3.2 mm)
6" (15 cm) length
Part #: 13865-126 (MC13)

30 CFM (0.8 m^3/min)
White color
Blast swath 0.19" (4.7 mm)
6" (15 cm) length
Part #: 5E0478 (MC19)

50 CFM (1.5 m^3/min)
Blue color
Blast swath 0.31" (7.9 mm)
6" (15 cm) length
Part #: 13865-506 (MC31)



Advanced Nozzles

Nozzles using advanced MERN technology for superior performance.

35 CFM (1.0 m^3/min) MERN
Blast swath 0.26" (6.6 mm)
5" (12.7 cm) length
Part #: 5E0284 (MC26M)

50 CFM (1.5 m^3/min) MERN
Blast swath 0.29" (7.4 mm)
6" (15 cm) length
Part #: 5E0248 (MC29MH)



Fan Nozzles

25 CFM (0.7 m^3/min) Fan
Blast swath is .28" (0.7 cm)
6" (15.2 cm) length
Part #: 5E0218 (MC28)



25 CFM (0.7 m^3/min) Fan
Blast swath 0.35" (8.9 mm)
6" (15 cm) length
Part #: 5E0219 (MC35)

25 CFM (0.7 m^3/min) Fan
Blast swath 0.47" (11.9 mm)
6" (15 cm) length
Part #: 5E0220 (MC47)

30 CFM (0.9 m^3/min) Fan
Blast swath 0.88 in (22 mm)
5" (12.7 cm) length
Part #: 5E0241 (MC88)



25 CFM (0.7 m^3/min) Fragmenting Fan
Blast swath 0.88" (22 mm)
5" (12.7 cm) length
Part #: 5E0254 (MC88F)

Angled Nozzles

Recommended for use with 0.38" (0.97 cm) Rotary Union Part #: 2N0189

45° Angled Nozzle

Blast swath 0.25" (6 mm)
1" (2.54 cm) cavity opening
6" (15 cm) length
Part #: 5E0223 (MC25A45)

90° Angled Nozzle

Blast swath 0.25" (6 mm)
1" (2.54 cm) cavity opening
6" (15 cm) length
Part #: 5E0227 (MC25A90)



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Nozzle Accessories

Extension Tubes



- Used to extend nozzles
- Connects directly to nozzle and applicator
- Available in three lengths:
  - 5" (12.7 cm)
  - 10" (25.4 cm)
  - 15" (38.1 cm)

Part #: 3E0974-Length

Rotary Union

- Used to rotate nozzles
- 3/8" (9.5 mm) JICF to JICM
- Lightweight
- Hard-coat anodized Aluminum

Part #: 2N0189



Angle Adapters

- Allows any MicroClean nozzle to be used at a 45 or 90 degree angle for tight-access cleaning
- Machined to offer free particle flow through angle
- Use with any MicroClean nozzle extension to manage variability (5", 10" or 15")

Part #: 3N0066 (45 Degree)
Part #: 3N0067 (90 Degree)



Hoses

Blast Hose Assembly*

3/8" (9.5 mm), 12' (3.7 m) proprietary blast hose section with control cable and bonding cable.
Part #: 2N0455-G2



Silicone Hose
Flexible silicone blast hose with control cable an bonding cable.
Part #: 2N0217

*Bond Cable Shaft Collar
One shaft collar is required per hose run.
Part #: 3N0086 (13/16" bore for 3/8" hose)

Air Hose

1/2" (12.7 mm) ID, 25' (7.6 m) length.
Used to carry pressurized air from air source to blast unit.
Includes quick disconnects.
Part #: 2N0184



Accessories

Block Handler

Allows for easy handling of Dry Ice Block.
Part #: 70540-001



Mobility/Storage Cart

Basic Mobility Cart and Ice Storage Cooler
Basic frame cart for transport, comes standard with machine and includes ice storage cooler.
Part #: 80748-001-A (shown)

Replacement ice cooler
Ice Storage cooler only.
Part #: 3Z0083



Safety Accessories

Safety Kit

- Meets United States Occupational Safety & Health Association (OSHA) requirements for operator noise protection (with the use of properly rated and worn ear plugs).

- Kit includes the following:
  - 100 sets of ear plugs
  - 2 ear protectors
  - Eye protector shield
  - Gloves
  - Block handler

Part #: 2Z0001-1 - Safety Kit with Block handler



Foot Switch

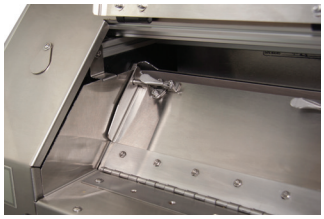
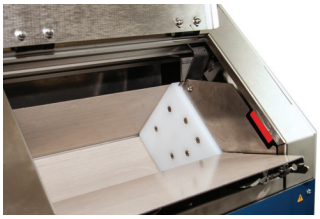
Eliminates the need for hand-held control switch. Allows nozzle to be attached directly to the blast hose for better ergonomics. "Deadman style" safety foot pedal.
Part #: 2G1299



MICROCLEAN® DX

Effectively use our MicroParticle Technology with Pellets & Nuggets

The i³ MicroClean Deluxe (DX) is available as a new unit or upgrade option.



- A unique pusher plate is installed to ensure consistent pellet and nugget media feeding
- Secondary door prevents free media from falling out of the hopper
- Simplified feed rate dial
- Compressed air nozzle to eliminate moisture in the trough



DRY ICE CAPACITY	VARIABLE FEED RATE	AIR CONSUMPTION RANGE
Pellets/Nuggets: 9 lbs/4kg	0-0.5 lbs/min (0-0.23 kg/min) *Will vary, dependent on pellet/nugget size and age*	30-50 scfm @ 80psig (0.85-1.4m³/min @ 5.5bar) *Dependent on nozzle selection*



i³ ICEPRESS

Block dry ice on demand.

Making your own dry ice blocks on demand has never been easier. The revolutionary Cold Jet i³ IcePress creates a consistent high-quality dry ice block from pellets, nuggets and/or scrap dry ice in under three minutes.

- High quality blocks
- Uses pellet, nugget or scrap ice
- Controlled outcome every time
- 20 blocks/hr
- Low noise operation
- Rugged construction
- Mobile design

DIMENSIONS	WEIGHT	BLOCK WEIGHT	AIR PRESSURE RANGE	BLOCK SIZE
21 x 25 x 43 in	215 lbs	14.5 lbs	80 - 250 psi	5.75 x 5.75 x 10 in
54 x 65 x 109 cm	97.5 kg	6.6 kg	5.5 - 17.2 bar	14.6 x 14.6 x 25.4 cm

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