



**MICROCLEAN<sup>®</sup>**

PRODUCT CATALOG



This catalog contains all of Cold Jet's i<sup>3</sup> MicroClean® product offerings and all part numbers that were current at the time of catalog production.

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# MICROCLEAN<sup>®</sup>

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 i<sup>3</sup> MicroClean system includes:

- i<sup>3</sup> 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



## i<sup>3</sup> MicroClean Deluxe (DX)

Experience Cold Jet's patented shaved MicroParticle technology with your i<sup>3</sup> 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 i<sup>3</sup> 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)

# 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<sup>3</sup>/min)  
Yellow color  
Blast swath 0.13" (3.2 mm)  
6" (15 cm) length  
**Part #: 13865-126 (MC13)**

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

50 CFM (1.5 m<sup>3</sup>/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<sup>3</sup>/min) MERN  
Blast swath 0.26" (6.6 mm)  
5" (12.7 cm) length  
**Part #: 5E0284 (MC26M)**

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



### Fan Nozzles

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

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

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

30 CFM (0.9 m<sup>3</sup>/min) Fan  
Blast swath 0.88 in (22 mm)  
5" (12.7 cm) length  
**Part #: 5E0532 (MC88)**

25 CFM (0.7 m<sup>3</sup>/min) Fragmenting Fan  
Blast swath 0.88" (22 mm)  
5" (12.7 cm) length  
**Part #: 5E032 (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)**



# 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 and bonding cable.

**Part #: 2N0217**



## 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**



### \*Bond Cable Shaft Collar

*One shaft collar is required per hose run.*

**Part #: 3N0086 (13/16" bore for 3/8" hose)**

# 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**



Effectively use our MicroParticle Technology with Pellets & Nuggets

The i<sup>3</sup> 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: 9lbs/4kg	0-0.5 lbs/min (0-0.23 kg/min) <i>Will vary, dependent on pellet/nugget size and age</i>	30-50 scfm @ 80psig (0.85 - 1.4m <sup>3</sup> /min@ 5.5bar) <i>Dependent on nozzle selection</i>



## **i<sup>3</sup> ICEPRESS**

Block dry ice on demand.

Making your own dry ice blocks on demand has never been easier. The revolutionary Cold Jet i<sup>3</sup> 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 construction
- Mobile design

DIMENSIONS	WEIGHT	BLOCK WEIGHT	AIR PRESSURE RANGE	BLOCK SIZE
21 x 25 x 43 in	215 lbs	14.5 lbs	14.5 lbs	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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