MICROCLEAN 2

ACCESSORY CATALOG





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Dry Ice Cleaning Equipment

This catalog contains Cold Jet's i³ MicroClean 2 product offerings and part numbers that were current at the time of catalog production. An item's display in this catalog does not guarantee the item's availability at any time in the future. Images shown are for representative purposes only. Products may vary from the images displayed. Cold Jet will always ship the latest version of an available part, part numbers may vary, and invoices will always reflect the latest revision numbers. Cold Jet is not liable for typographical errors or changes to specifications presented. Check www.coldjet.com for the most recent version of this document. Contact your Cold Jet representative for the most current information.

Notes

- i³ MicroClean 2 dry ice cleaning systems use dry ice blocks and 3 mm dry ice pellets
- Air consumption data listed for all parts are approximate and without guarantee
- Blasting pressure can differ from the operating pressure and can vary during use
- For technical questions, please consult Cold Jet application engineers

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MicroClean 2®



DIMENSIONS
Length x Width x Height:

FULL SYSTEM
31 x 25 x 47 in
(78 x 62 x 120 cm)
Weight: 190 lb (86 kg)

MACHINE ONLY
31 x 19 x 21 in
(78 x 48 x 51.5 cm)
Weight: 133.38 lb (60.5 kg)

CART ONLY
25 x 22 x 27 in
(64 x 56 x 68 cm)
Weight: 56.2 lb (25.5 kg)

POWER REQUIREMENTS
110/240V AC (50/60 Hz)

DRY ICE CAPACITY
25 lb. (11.3 kg)

FEEDER SYSTEM
Shaved dry ice
use blocks or pellets

HMI DISPLAY
7 in LCD Color Screen (17.8 cm)

FEED RATE
0-1.5 lb/min (0 - 0.7 kg/min)

BLAST PRESSURE RANGE
20-145 psi (1.4-10 bar)

COMPRESSED AIR SUPPLY
50-145 psi (3.4 - 10 bar)

NOZZLE AIR CONSUMPTION
12 - 54 cfm (0.3 - 1.5 m^3/min)
at 80 psi (5.5 bar)

BLAST FLOW PATH
0.5 in (1.3 cm)

Compliant with the EU Machinery Directive (CE) and UL Design Standard

Nozzles

Cold Jet's advanced and patented line of nozzles are designed to maximize performance and precision. Broad or precise cleaning, hard to reach areas or working in a confined space, our line of nozzles will exceed your expectations. Recommended operating parameters are shown in the tables for each nozzle.

Precision Applicator Nozzles

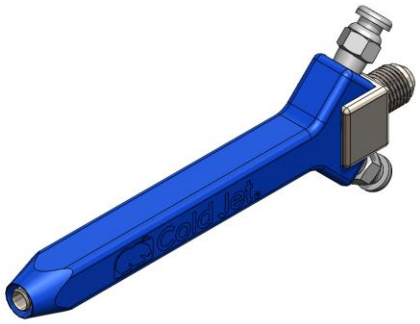
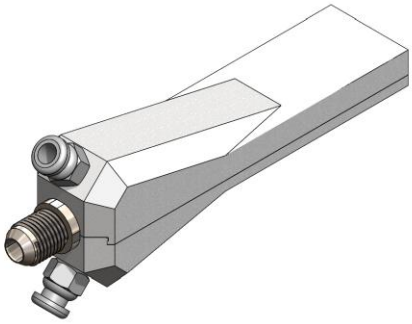
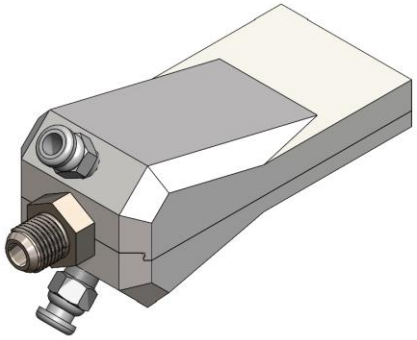
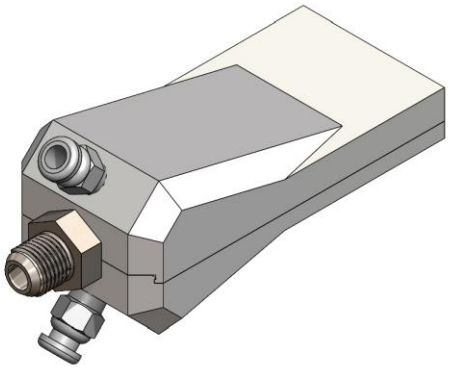
These precision nozzles have standard air consumption rates of 54 cfm or less at 80 psi (1.5m³/min @ 5.5 bar) for use with the MicroClean 2.



Nozzle	Part #	Air Consumption	Blast Swath	Dry Ice Feed Rate	Length	Material
(MC13) Yellow	13865-126	12cfm @80 psi (0.3 m³/min 5.5 bar)	0.13 in (0.3 cm)	0.1-0.4 lbs/min 0.05-0.2 kg/min	6 in (15.2 cm)	Plastic
(MC19) White	5E0478	30cfm @80 psi (0.8 m³/min 5.5 bar)	0.19 in (0.5 cm)	0.2-1.0 lbs/min 0.1-0.5 kg/min	6 in (15.2 cm)	Plastic
(MC31) Blue	13865-506	50cfm @80 psi (1.5 m³/min 5.5 bar)	0.31 in (0.8 cm)	0.5-1.2 lbs/min 0.2-0.6 kg/min	6 in (15.2 cm)	Plastic
Fan Nozzles						
(MC47)	5E0220	25cfm @80 psi (0.7 m³/min 5.5 bar) Fan	0.47 in (1.2 cm)	0.2-1 lbs/min 0.1-0.5 kg/min	6 in (15.2 cm)	Plastic & Aluminum
(MC28)	5E0218	25cfm @80 psi (0.7 m³/min 5.5 bar) Fan	0.28 in (0.7 cm)	0.2-1 lbs/min 0.1-0.5 kg/min	6 in (15.2 cm)	Plastic & Aluminum
(MC35)	5E0219	25cfm @80 psi (0.7 m³/min 5.5 bar) Fan	0.35 in (0.9 cm)	0.2-1 lbs/min 0.1-0.5 kg/min	6 in (15.2 cm)	Plastic & Aluminum
(MC88F)	5E0254	25cfm @80 psi (0.7 m³/min 5.5 bar) Fragmenting Fan	0.88 in (2.2) cm	0.2-1 lbs/min 0.1-0.5 kg/min	5 in (12.7 cm)	Plastic & Aluminum
(MC88)	5E0532	30cfm @80 psi (0.9 m³/min 5.5 bar) Fan	0.88 in (2.2 cm)	0.5-1.2 lbs/min 0.2-0.6 kg/min	5 in (12.7 cm)	Plastic & Aluminum
Angled Nozzles						
(MC25A45)	5E0223-A	25cfm @80 psi (0.7 m³/min 5.5 bar)	0.25 in (0.6 cm)	0.2-1 lbs/min 0.1-0.5 kg/min	6 in (15.2 cm)	Plastic & Aluminum
(MC25A90)	5E0227	25cfm @80 psi (0.7 m³/min 5.5 bar)	0.25 in (0.6 cm)	0.2-1 lbs/min 0.1-0.5 kg/min	6 in (15.2 cm)	Plastic & Aluminum
Advanced Nozzles						
(MC26M)	5E0284	35cfm @80 psi (1.0 m³/min 5.5 bar)	0.26 in (0.7 cm)	0.2-1.2 lbs/min 0.1-0.6 kg/min	5 in (12.7 cm)	Plastic & Aluminum
(MC29MH)	5E0248	50cfm @80 psi (1.5 m³/min 5.5 bar)	0.29 in (0.7 cm)	0.5-1.2 lbs/min 0.2-0.6 kg/min	6 in (15.2 cm)	Plastic & Aluminum
(MC50AL)	5E0358-B	25 cfm @ 80 psi (0.7 m³/min 5.5 bar)	0.50 in (1.3 cm)	0.2 - 1.2 lbs/min 0.1 - 0.5 kg/min	2.4 in (6.1 cm)	Aluminum
(MC31AL)	13817-001C	25cfm @80 psi (0.7 m³/min 5.5 bar)	0.31 in (0.8 cm)	0.2 - 1.2 lbs/min 0.1 - 0.5 kg/min	7.0 in (17.8 cm)	Aluminum
(MC57)	13819-001C	50cfm @80 psi (1.5 m³/min 5.5 bar)	0.57 in (1.4 cm)	0.5-1.2 lbs/min 0.2-0.6 kg/min	7.3 in (18.5 cm)	Aluminum
(MC138)	5E1105	54 cfm @80psi (1.5 m3/min 5.5 bar)	1.38 in (3.5 cm)	0.5-1.2 lbs./min (0.2-0.6 kg/min)	5 in (12.8 cm)	Stainless Steel

Shrouded Nozzles

- The shroud around the nozzle carries a secondary airflow of compressed air, which eliminates the issue of 'coning' at the exit plane of the nozzle and helps prevent clogging of the throat.
- At 40 psi (2.75 bar), the shrouded nozzles will use an extra 20-25 cfm (0.5-0.7m^3/min).
- Kit 2K0617 is required for the shrouded nozzles to work.

Part #	Image		Part #	Image
5E1232 NOZZLE, SHROUDED, MC13			5E1236 NOZZLE, SHROUDED, MC31	
5E1245 NOZZLE, MC88 W/ SHROUD			5E1254 NOZZLE, MC138 W/ SHROUD	
5E1251 NOZZLE, MC138F W/ SHROUD			2K0617 KIT, SHROUDED NOZZLE, EXTERNAL, AERO2 SERIES	

Applicators

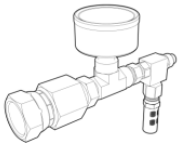
Product	
	**MicroClean 2 Precision Applicator, 1/2”** • Lightweight and compact design allows for easy use in tight-access applications • Ergonomically designed applicator allows for greater ease of use and increased control of blasting helping to reduce arm fatigue • Membrane switches that are smaller, more responsive and more reliable • Hopper level indicator that alerts the user when the dry ice supply is getting low • Two built-in, industrial grade lights offer three dimming options to illuminate surfaces • Designed for both right and left handed users
	Part #: 2E1561

Accessories

Product	
	**DX Kit** Enables the MicroClean 2 to use pellets and block dry ice • Preconfigured for easy installation • Works with blocks and pellets
	Part #: 2K0321
	**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 #: 3E0974-5
	Part #: 3E0974-10
	Part #: 3E0974-15
	**Rotary Adaptor** • Used to rotate nozzles • 3/8” (.95 cm) JICF to JICM • Lightweight • Hard-coat anodized Aluminum
	Part #: 2N0189
	**Angle Adaptors** • 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)
	**Adaptor** • Used to connect ½” to ½” and ½” to 3/8” (12.7 mm to 12.7 mm and 12.7 mm to 9.5 mm) blast hoses together
	Part #: 2N0633

Product	
	**Whip Check** • Protects operator should a hose disconnection occur • Recommended to have one whip check for each hose connection
	Part #: 4Z0051
	**Extension Cord & Reel** • 50’ (15.2 m) of electrical power cord used when additional length of cord is necessary ** Contact Customer Service for other voltage options*
	Part #: 2H0017-G1 (110 Volts)
	**Screen Protector** The anti-reflective screen protector can be installed over the 7” LCD color screen of MicroClean 2 machines in order to eliminate glare from the sun, lights and other reflective surfaces • The protector also offers a level of protection against scratches • The screen protector is easily removable and replaceable
	Part #: 3J3736
	**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
	**DX Safety Kit** The PPE kit meets OSHA requirements for operator noise, eye and hand protection. The kit includes: • Fully lined synthetic leather gloves that are elasticated 360° for flexibility • Clear anti-fog lens eyewear branded with the Cold Jet logo • Howard Leight Thunder T3 earmuffs • Plastic scoop for dry ice
	Part #: 2Z0036
	**Power Cord** Custom durable power cord replacement • America/Japan 110V • European 220V
	Part #: 2G1591 Plug & Cord, 110 Volt
	Part #: 2G1592 Plug & Cord, 220 Volt
	**MicroClean 2 Control Cable** • Used to connect an i3 MicroClean 2 machine, applicator or to an applicable accessory • 12’ (3.7m) • 14-Pin Control Cable
	Part #: 4G2477

Product	
	**Block Handler** Allows for easy handling of Dry Ice Block
	Part #: 70540-001
	**Ice Press** • High quality blocks • Uses pellet, nugget or scrap ice • Controlled outcome every time • 20 blocks/hr. • Low noise operation • Rugged construction • Mobile design
	Part #: 2A0168
	**MicroClean 2 Cart** • Aluminum frame with stainless steel panels • Contains two separate store areas: • Top drawer pullout can hold an applicator, nozzles, fittings, and control cable • Bottom cabinet doors can be opened to hold sections of blast hose and air hose
	Part #: 2A0620 Standard Cart
	**MicroClean 2 ThermoCart** • Aluminum frame with stainless steel panels • Contains two separate store areas: • Top drawer pullout can hold an applicator, nozzles, fittings, and control cable • Bottom drawer is insulated and can store dry ice
	Part #: 2A0592 ThermoCart
	**Blast Hose Assembly** • 3/8” (9.5 mm), 12’ (3.7 m) proprietary blast hose section with control cable and bonding cable • 1/2” (12.7 mm), 12’ (3.7 m) proprietary blast hose section with control cable and bonding cable • Flexible rubber blast hose with control cable and bonding cable
	Part #: 2N0602 Rubber Blast Hose 3/8 in
	Part #: 2N0588 Rubber Blast Hose 1/2 in
	**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
	**Foot Switch** Eliminates the need for a hand-held control switch. Allows nozzle to be attached directly to the blast hose for better ergonomics. “Deadman style” safety foot pedal
	Part #: 2G1680

Product	
	**Water Reservoir** • Accessory for the MicroClean2 cart which will allow the user to keep the area around the machine clean and dry by storing wastewater in a tank that can be emptied as needed.
	Part #: 2K0363
	**Applicator Holster** • KIT, HANGER, APPLICATOR, I3M2 • Part #: 2J1097
 	**Pressure Tester** • Use the pressure tester to pressure check the feeder system and determine whether the feeder system needs to be replaced. • In addition to the pressure tester, the appropriate adapter fitting (part number provided below) must be ordered.
	Part #: 2I0590 - Pressure Tester 2N0712 - Adapter Fitting - Use with MicroClean 2
	Kit, Precision Applicator Repair
	Part #: 2K0589
	Kit, Lower Pad/Rotor Replacement
	Part #: 81702-001
	Spare Parts, Electrical Package,
	Part #: 81703-001
	Spare Parts, Motor Package
	Part #: 81704-001
	Kit, Pneumatic Controls Package
	Part #: 81705-001
	AUTOMATION MODULE, PROFINET W/ STREAMGUARD TELEMETRY, i3 MICROCLEAN 2
	Part #: 2K0802
	AUTOMATION MODULE, ETHERNET IP W/ STREAMGUARD TELEMETRY, i3 MICROCLEAN 2
	Part #: 2K0803
	AUTOMATION MODULE, ETHERCAT W/ STREAMGUARD TELEMETRY, i3 MICROCLEAN 2
	Part #: 2K0804

	AUTOMATION MODULE, Modbus Integration W/ STREAMGUARD TELEMETRY, I3 MicroClean 2
	Part #: 2K0825

Cold Jet CONNECT®

	• Enhance productivity through an unrivaled intelligence, customer service and support platform • Enhanced troubleshooting and guided repair or service • Virtual access to Cold Jet technical experts • Easily request a quote for new parts & service • Over-the-air (OTA) firmware updates • Real-time machine data & analytics (dry ice usage, average feed rates, daily runtime, and more)
	Part #: 70982-001 Basic
	Part #: 70984-001 Enterprise
	Part #: 70985-001 Care

SCAN HERE FOR ACCESS

Cold Jet. CONNECT.
SERVICE AGREEMENTS

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+ Operator Manuals
+ Parts & Accessories Catalog

Standard 1 Year Warranty

Machine & Application Training
+ Videos On-Demand

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+ Historical Service Records & Maintenance Notifications
+ Remote Management of Application 'Recipes'
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FOR ESSENTIAL COVERAGE

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Discounted Parts & Accessories
+ Receive 10% Off On All Parts & Accessories

Priority Remote Assistance
+ Certified Cold Jet Technicians Accessible Via Phone, Messenger, or Video Call

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FOR MAXIMUM COVERAGE

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Discounted Parts & Accessories
+ Receive 10% Off On All Parts & Accessories

Priority Remote Assistance
+ Certified Cold Jet Technicians Accessible Via Phone, Messenger, or Video Call

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+ One Annual Training Performed by a Certified Cold Jet Technician

Spare Parts Kit Included
+ Uptime Critical Spare Parts Kit

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