

# CLEAN AGENT FIRE EXTINGUISHING SYSTEM

## MX 200 Discharge Nozzles

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The technical data described herein is for components of the Minimax Fire Products MX 200 Clean Agent System. For design, installation, and operation instructions, refer to the latest edition of the original source documents: Installation and Service Manual (Part No. 889331), Design Manual (Part No. 889336), and Operation Manual (Part No. 889329).

### 1. DESCRIPTION

In the MX 200 Fire Extinguishing System, discharge nozzles are used to apply the extinguishing agent within the calculated flooding time and to distribute it uniformly in the protected enclosure.

Two types of nozzles are available for the MX 200 Fire Extinguishing System:

- 180° nozzles that spray the extinguishing agent in a semicircle around the discharge nozzles
- 360° nozzles that spray the extinguishing agent in a full circle around the discharge nozzles

### 2. LISTINGS AND APPROVALS

- UL Listed:** Clean Agent Extinguishing System Unit
- FM Approved:** Clean Agent Fire Extinguishing System

### 3. TECHNICAL DATA

#### Specifications

- Minimum and Maximum Agent Storage Temperatures: 0 °F to 122 °F (-18 °C to 50 °C)
- Minimum and Maximum Temperatures of Protected Spaces per UL and FM: 60 °F to 80 °F (15.6 °C to 26.7 °C)
- Minimum Operating Pressure: 131 psi (9 bar)
- Maximum Operating Pressure: 870 psi (60 bar)
- Radius 180° Discharge Nozzle: 36'-8" (11.2 m)
- Radius 360° Discharge Nozzle: 23'-1" (7.1 m)
- Maximum Effective Nozzle Height: 16.4' (5.0 m)
- Maximum Extinguishing Agent Quantity per Nozzle: 407.8 lbs (725 psi) 338.4 lbs (360 psi)
- Nozzle Orifice Diameters: Refer to Table 1 for limits. NOTE: Orifice diameter gradations are in 0.001 inch increments.
- Thread sizes: 1/2", 1", and 1-1/2" NPT

**NOTE:** The discharge nozzle is identified with the manufacturer, part number, and bore diameter.

#### Material Standards

Nozzle: Brass UNS-C36000

#### Ordering Information

To order the Minimax Fire Products MX 200 Fire Extinguishing System Discharge Nozzles, refer to the following part numbers:

**NOTE:** The nozzle base part number is followed by a three-digit number that refers to the orifice diameter.

*Example:* A 1/2" NPT nozzle with a 180° pattern, and orifice diameter of 0.118" = Part No. 889036-0118.

**Adjustable Spanner Wrench** (optional, for nozzle installation): Part number 18038



Minimax Technical Data may be found on Minimax Fire Products' Web site at <http://www.minimaxfp.com/>. The Web site may include a more recent edition of this Technical Data Page.

**TABLE 1: DISCHARGE NOZZLE PART NUMBERS**

Thread Size	Min. Orifice Diameter		Max. Orifice Diameter		Part No. 180° Spray Angle		Part No. 360° Spray Angle	
	180°	360°	180°	360°	# of Orifices	Part No.	# of Orifices	Part No.
<b>1/2" NPT</b>	0.138"	0.118"	0.228"	0.197"	3	889036	4	889037
<b>1" NPT</b>	0.220"	0.189"	0.402"	0.346"	3	889040	4	889041
<b>1-1/2" NPT</b>	0.327"	0.283"	0.598"	0.520"	3	889044	4	889045

**NOTE:** Orifice diameter gradations are in 0.001 inch increments.