ONLINE DIRECTORIES

GAQFC.EX5248
Clean Agent Extinguishing System Units

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See General Information for Clean Agent Extinguishing System Units

MINIMAX GMBH & CO KG EX5248
INDUSTRIESTRASSE 10/12
23840 BAD OLDESLOE, GERMANY

Engineered Type

Engineered Models, Clean agent extinguishing system units, stored-pressure type, having nominal storage capacities of 18.6, 21.8, 22.1, 23.9, 27.9 or 28.3 kg of IG-01 (Argon). The units are pressurized to 16 MPa or 20 MPa (160 or 200 bar) at 15°C. Operating temperature range of -18°C to 50°C inclusive. The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid, and Class C fires occurring within an enclosure.

These system units are intended to be designed and installed in accordance with the listee's Installation and Maintenance Manual (P/N 99-0600-05) dated April 22, 2010, and Design Manual (P/N 99-0500-04) dated April 22, 2010. These installations require the listee's Design Program, Version 3.10, and Argon Design Program Installation and Operation Manual (P/N UL calculations program), dated April 22, 2010. Copies of these manuals may be obtained from the above listee.

AGENT STORAGE CONTAINER ASSEMBLY

Weight of Agent (lbs/L)	Part No.
41.0 (18.6 kg, 67.5L, 160 bar)	870381, 885978, 885982
48.1 (21.8 kg, 79L, 160 bar)	885980, 885985
48.7 (22.1 kg, 80L, 160 bar)	871381
52.7 (23.9 kg, 67.5L, 200 bar)	887434, 885979, 885983
61.5 (27.9 kg, 79L, 200 bar)	885981, 885986
62.4 (28.3 kg, 80L, 200 bar)	887435, 887410

Engineered, Models MX1230 Engineered Clean Agent Extinguishing System Units containing 3M™ Novec™ 1230 Fire Protection Fluid (FK-5-1-12), stored pressure type, incorporating DOT 4BW-500 storage containers, having nominal storage capacities of 140, 280, 390 and 500 lbs (52, 106, 147 and 180 L). The units are super-pressurized with dry nitrogen to 360 psig (25 bar) at 70°F (21°C) with operating temperatures of +32°F to +120°F (0°C to 50°C). The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and Class C fires occurring within an enclosure.

These systems are intended to be designed and installed in accordance with the Listee's Design manual, Part No. 88 9334, Rev. 04, issued March 2013; Installation manual, Part No. 88 9327, Rev. 04, issued March 2013; MX Design Manager Flow Calculation Program - Flow Calculation Math Kernel: MxCalc 1230 , Version 1.1.

AGENT STORAGE CONTAINER ASSEMBLY

Weight of Agent (lbs/L)	Part No.
60 (22)	91 4147
140 (52)	88 9109
280 (106)	88 9111, 91 4151
390 (147)	88 9113, 91 4152
500 (180)	91 0510, 91 4153

Engineered, Models MX1230 Engineered Clean Agent Extinguishing System Units containing 3M™ Novec™ 1230 Fire Protection Fluid (FK-5-1-12), stored pressure type, incorporating DOT 3AA-870/TPED storage containers, having nominal storage capacities of 60, 100, 220, 270, 390 and 500 lbs (22, 40, 80, 100, 140 and 180 L). The units are super-pressurized with dry nitrogen to 360, 610, or 725 psig (25, 42, or 50 bar) at 70°F (21°C) with operating temperatures of +32°F to +120°F (0°C to 50°C). The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and Class C fires occurring within an enclosure.

These systems are intended to be designed and installed in accordance with the Listee's Design manual, Part No. 88 9334, Rev. 04, issued March 2013; Installation manual, Part No. 88 9327, Rev. 04, issued March 2013; MX Design Manager Flow Calculation Program - Flow Calculation Math Kernel: MxCalc 1230, Version 1.1.

AGENT STORAGE CONTAINER ASSEMBLY

Weight of Agent (lbs)	Part No.
60 (22)	88 8488
60 (22)	88 8492
60 (22)	88 8497
100 (40)	88 8490
100 (40)	88 8495
100 (40)	88 8499
220 (80)	88 8502
	88 8578
220 (80)	88 8508
	88 8585
220 (80)	88 8515
	88 8591
270 (100)	88 8504
270 (100)	88 8510
270 (100)	88 8517
390 (140)	88 8580
390 (140)	88 8587
390 (140)	88 8593
500 (180)	88 8582
500 (180)	88 8589
500 (180)	88 8595

Engineered, Models MX200 Engineered Clean Agent Extinguishing System Units containing HFC-227ea, stored pressure type, incorporating DOT 4BW-500 storage containers, having nominal storage capacities of 140, 280, 390 and 500 lbs (52, 106, 147 and 180 L). The units are super-pressurized with dry nitrogen to 360 psig (25 bar) at 70°F (21°C) with operating temperatures of +32°F to +120°F (0°C to 50°C). The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and Class C fires occurring within an enclosure.

These systems are intended to be designed and installed in accordance with the Listee's Design manual, Part No. 88 9336, Rev. 01, issued March 2012; Installation manual, Part No. 88 9331, Rev. 01, issued March 2012; MX Design Manager Flow Calculation Program - Flow Calculation Math Kernel: MxCalc 200, Version 1.0, 2010-12-15.

AGENT STORAGE CONTAINER ASSEMBLY

Weight of Agent (lbs)	Part No.
140 (52)	88 9098
280 (106)	88 9100
390 (147)	88 9103
500 (180)	91 0508

Engineered, Models MX200 Engineered Clean Agent Extinguishing System Units containing HFC-227ea, stored pressure type, incorporating DOT 3AA-870/TPED storage containers, having nominal storage capacities of 60, 100, 220, 270, 390 and 500 lbs (22, 40, 80, 100, 140 and 180 L). The units are super-pressurized with dry nitrogen to 360, 610, or 725 psig (25, 42, or 50 bar) at 70°F (21°C) with operating temperatures of +32°F to +120°F (0°C to 50°C). The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and Class C fires occurring within an enclosure.

These systems are intended to be designed and installed in accordance with the Listee's Design manual, Part No. 88 9336, Rev. 01, issued March 2012; Installation manual, Part No. 88 9331, Rev. 01, issued March 2012; MX Design Manager Flow Calculation Program - Flow

Calculation Math Kernel: MxCalc 200, Version 1.0, 2010-12-15.

AGENT STORAGE CONTAINER ASSEMBLY

Weight of Agent (lbs)	Part No.
60 (22)	88 8454
60 (22)	88 8459
60 (22)	88 8463
100 (40)	88 8457
100 (40)	88 8461
100 (40)	88 8465
220 (80)	88 8467
	88 8557
220 (80)	88 8475
	88 8565
220 (80)	88 8482
	88 8571
270 (100)	88 8471
270 (100)	88 8477
270 (100)	88 8484
390 (140)	88 8561
390 (140)	88 8567
390 (140)	88 8574
500 (180)	88 8563

Last Updated on 2014-10-07

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