

Technical Data Sheet: Sprinkler Wrenches and Cabinets

1. DESCRIPTION

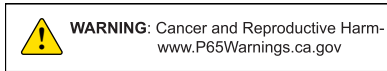
Sprinkler Cabinets

Minimax Fire Protection sprinkler cabinets are metal enclosures constructed to store an emergency supply of spare sprinklers and a sprinkler installation wrench.

NFPA 13 requires a representative number of each type and temperature rating of sprinkler head to be kept in a cabinet on the premises. NFPA 13 also requires a special sprinkler wrench to be provided in the cabinet. This allows for immediate removal and replacement of sprinklers that have operated or that have become damaged.

Stock of spare sprinklers should include sprinklers of all the types and temperature ratings as are installed in the sprinkler system, in the following quantities:

Number of Sprinklers in the System	Minimum Number of Spare Sprinklers Required
Under 300	6
300-1,000	12
Over 1,000	24



Sprinkler Wrenches

Minimax Fire Protection sprinkler wrenches are special installation tools specifically designed for use with the various Minimax Fire Protection sprinklers and spray nozzles. The appropriate wrenches must be used with the indicated sprinklers and nozzles to provide the proper leverage when tightening sprinklers or nozzles and to minimize slippage during installation.

Using wrenches other than the ones designated for installation may damage the sprinkler. Refer to Tables 2a and 2b and the appropriate sprinkler or spray nozzle data page for the correct installation wrenches that must be used.

Wrenches 21475MB, 10896WB, 07297WB, 05118CWB, and 13635WB, provide the amount of leverage needed to tighten sprinklers and spray nozzles into pipe fittings while preventing sprinkler damage. No additional tools are necessary with these wrenches.

The following wrenches require a separate 1/2" ratchet (not available from Minimax Fire Protection) to provide the correct amount of leverage: 07565WB, 11663WB, 13032WB, 13577WB, 13623WB, 15467WB, 13655WB, 14047WB, and 16208WR.

The internal diameters of sprinkler wrenches 16208WR s designed for use with the sprinkler contained in the protective shell. (A protective shell should be retained in the spare sprinkler cabinet.)

2. LISTINGS AND APPROVALS

Refer to the specific sprinkler or spray nozzle technical data pages for sprinkler listings and approvals.

3. TECHNICAL DATA

Specifications:

Sprinkler Cabinets: Designed with four 3/16" diameter holes in back. Spacing of mounting holes: 3-1/2" (88.9 mm) length, 3-1/2" (88.9 mm) height. The sprinkler cabinet should be located adjacent to the main system riser.

Material Standards:

Sprinkler Cabinets: Cold Rolled Steel. Finish: Painted high-gloss red enamel interior and exterior, chrome plated door knob.

Wrenches: Ductile Iron, Steel, Acetal, or 50% glass filled nylon (for head cabinet wrenches)

Ordering Information:

A. Sprinkler Cabinets

- Determine appropriate cabinet from Table 1 on this page for use with the specific model/number of sprinklers to be contained in the cabinet.
- Specify cabinet part number and quantity needed.

B. Sprinkler Wrenches

- Determine the appropriate wrench for use with the given sprinkler or spray nozzle model from Tables 2a and 2b.
- Specify the wrench part number and quantity needed.

NOTE: Sprinklers and sprinkler wrenches are not supplied with the cabinets; they must be ordered separately.

4. INSTALLATION

Refer to the appropriate sprinkler or spray nozzle technical data page.

5. OPERATION

Refer to the sprinkler or spray nozzle technical data page for the particular model used.

6. INSPECTIONS, TESTS, AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY

The Minimax Fire Protection sprinkler wrenches and cabinets are available through a network of domestic and international distributors. See Minimax Fire Protection web site for the closest distributor or contact Minimax Fire Protection.

8. GUARANTEE

For details of warranty, refer to the current list price schedule or contact us directly.

Table 1: Sprinkler Cabinet Ordering Information and Dimensions

For Sprinkler Models:	Cabinet Capacity	Cabinet Part No.	Size		
			Length	Height	Depth
Frame style	6 sprinklers	61398	10-3/16" (259 mm)	4-11/16" (103 mm)	2-9/16" (65 mm)
Frame style ESFR K14 K16.8 (pendent) K25.2 EC	12 sprinklers (6 K25.2 EC sprinklers)	61399	10-3/16" (259 mm)	8-9/16" (217 mm)	2-9/16 (65 mm)
Concealed Flush ESFR K25.2 & K22.4 (pendent) K19.6 CMSA	5-6 sprinklers	61414	13-13/16" (351 mm)	5-11/16" (144 mm)	3" (76 mm)
Upright ESFR Intermediate Level	6 sprinklers	61415	12-5/8" (321 mm)	9-1/8" (232 mm)	4-1/8" (105 mm)

CAUTION

When replacing automatic sprinklers in an existing system, be sure to replace with sprinklers of the correct type, thread size, orifice size, temperature rating, and finish.

IMPORTANT

- Always refer to Bulletin Form No. FX_091699 - Care and Handling of Sprinklers. Also refer to the appropriate sprinkler data page. Minimax Fire Protection sprinklers and spray nozzles are designed to be installed in accordance with the latest edition of Minimax Fire Protection technical data, the latest standards of NFPA, FM Global, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards whenever applicable. The use of certain types of sprinklers may be limited due to occupancy and hazard. Refer to the Authority Having Jurisdiction prior to installation.
- The sprinkler cabinet should be easily accessible.
- The sprinkler cabinet must not be exposed to corrosive atmospheres or temperatures above 100 °F (38 °C).
- The stock of spare sprinklers should include an adequate number of sprinklers of each type and temperature rating.
- The stock of sprinklers must be in good condition.
- A sprinkler wrench of the appropriate type must be included in the cabinet.
- Orient sprinklers and sprinkler wrench as indicated in Figure 1 below.

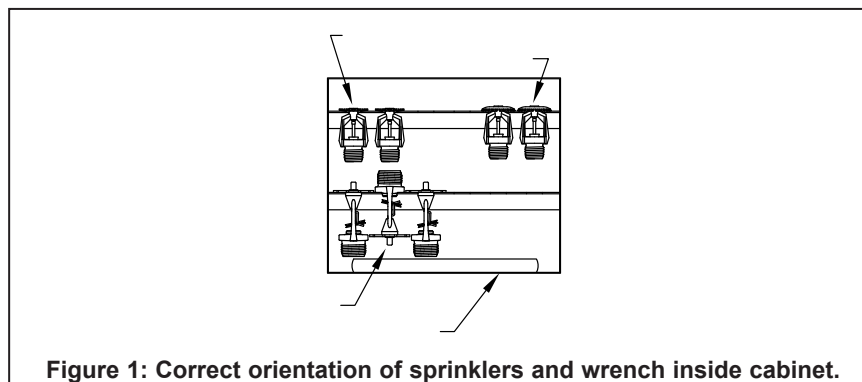
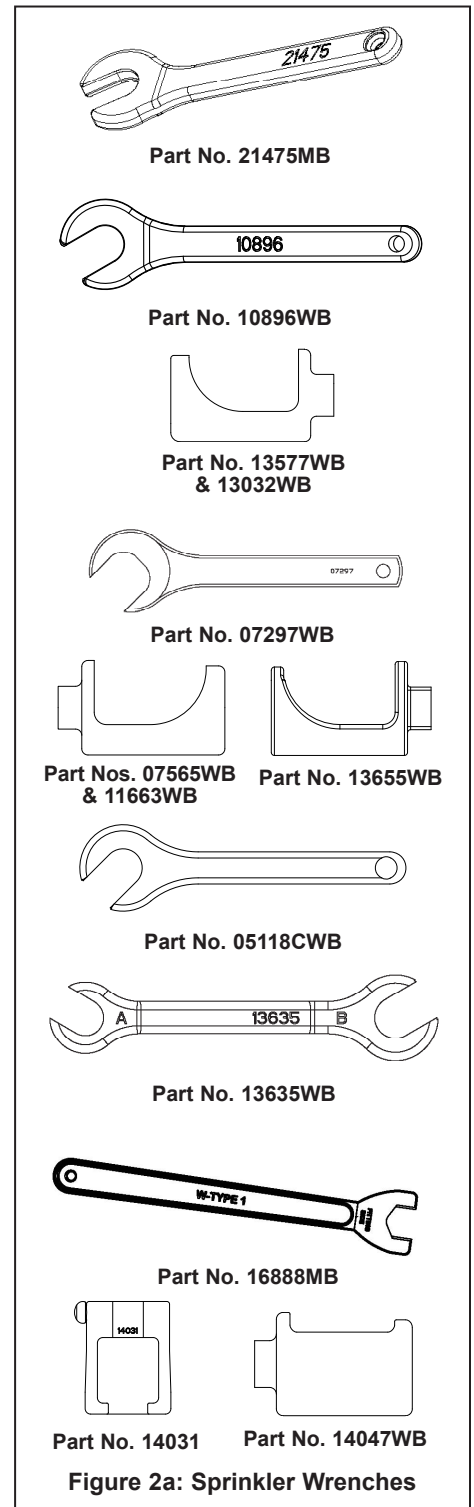


Figure 1: Correct orientation of sprinklers and wrench inside cabinet.

For Sprinkler Models:	Use Wrench:
Frame-style sprinklers and spray nozzles	21475MB
Wax coated Frame-style sprinklers and spray nozzles	10896WB
Wax coated sprinklers and domed concealed pendent sprinklers	13577WB
Recessed horizontal sidewall sprinklers with protective shields, domed concealed horizontal sidewall sprinklers, and recessed pendent sprinklers	13655WB
Coated and recessed ECOH K14 sprinkler	13032WB
Standard adjustable and plain barrel dry sprinklers, K16.8 and ECOH K14 sprinklers	07297WB
Recessed and domed concealed dry sprinklers	07565WB
Upright ESFR sprinklers, and ELO sprinklers**	05118CWB
Coated, recessed, and domed concealed ELO sprinklers	11663WB
Pendent K14 and K16.8 ESFR sprinklers	13635WB double ended (use Side A)
Pendent K25.2, K22.4 ESFR sprinklers and K19.6 CMSA Sprinkler MX8592	13635WB double ended (use Side B)
Upright EC K25.2 sprinklers	16888MB
QR and EC Concealed Sprinklers MX8461, MX8462, MX8463, MX8464, MX8465, MX8632, and MX8634 (also optional for cap removal)	14031†
QR and EC Concealed Sprinklers MX8461, MX8462, MX8463, MX8464, MX8465, MX8632, and MX8634	14047WB (heavy duty)
Residential Concealed Sprinklers MX8456, MX8457, MX8474, and MX8488 (also optional for removal of protective caps)	13619† (red)
†Ideal for sprinkler cabinets.	



For Sprinkler Models:	Use Wrench:
Residential Concealed Sprinklers MX8456, MX8474, and MX8488	13623WB (heavy duty)
Residential Concealed HSW Sprinkler MX8480	16267† or 16208WR (heavy duty)
QR ELO Concealed Sprinklers MX8636 and MX8469 (also optional for removal of protective caps)	15466†
QR ELO Concealed Sprinklers MX8636 and MX8469	15467WB (heavy duty)
Concealed and flush style sprinklers	08336WB (heavy duty)
Concealed and flush style sprinklers	10366WB†
Residential Flush Pendent Sprinklers MX8476 and MX8478	15209WR (heavy duty)
Recessed Flush Dry Sprinklers MX8482	18315 (heavy duty)
Concealed Sprinklers MX8461, MX8462, MX8463, MX8464, MX8465, MX8469, MX8474, MX8632, MX8634, MX8636, and MX8488 (optional concealed cover installer tool)	14412†, or 14867 for the large diameter cover
Shipping Cap Remover/ Escutcheon Installer (optional***)	15915†
Institutional style flush sprinklers (for installation of the escutcheon plate)	10551WB
Institutional style flush sprinklers (spanner wrench for escutcheon plate removal)	10729
***Allows removal of sprinkler caps and installation of E-1 and F-1 escutcheons on frame style pendent sprinklers from the floor. †Ideal for sprinkler cabinets.	

