



by Tyco Fire Suppression & Building Products

## WHY USE COMMERCIAL DRY SPRINKLERS IN RESIDENTIAL SYSTEMS?

### Introducing RAPID RESPONSE Dry-Type Residential Sprinklers

- ◆ An industry first for residential designs
- ◆ For use in wet pipe, dry pipe, and preaction systems
- ◆ All models available in white, chrome, or brass finishes; custom-finish available for the Domed Concealed Pendent
- ◆ Backed by the industry's best 10-Year Limited Warranty

The RAPID RESPONSE Series LFII Dry-Type Residential Sprinklers are UL Listed and designed for use in residential occupancies per NFPA 13D, 13R, and 13. The sprinklers can be installed in wet pipe, dry pipe, or preaction systems and have undergone special testing at UL to meet UL1626 test criteria. These sprinklers are ideal for installation in basements, garages, or portions of homes, apartments, dormitories, or hotels where sprinklers drop into or from unheated areas.

The Series LFII Dry-Type Residential Sprinklers include the Recessed Pendent, Domed Concealed Pendent, Horizontal Sidewall, and Recessed Horizontal Sidewall.

Each sprinkler is available in white, chrome, or brass finishes and has a temperature rating of 155°F (68°C). The cover plate assembly of the Domed Concealed Pendent is available in chrome, signal white, pure white, or a custom finish. The cover plate has a slightly lower temperature rating of 139°F (59°C).

## Series LFII Dry-Type Residential Sprinklers

**Recessed Pendent and  
Domed Concealed Pendent**

**4.9 K-factor**  
TFP460

**Horizontal Sidewall and  
Recessed Horizontal Sidewall**

**4.4 K-factor**  
TFP461



### TECHNICAL DATA

#### Recessed Pendent, TY2235 and Domed Concealed Pendent, TY2535

**Approvals:** UL Listed

**Maximum Working Pressure:** 175 psi (12,1 bar)

**Discharge Coefficient:**  $K=4.9 \text{ GPM/psi}^{1/2}$  (70,6 LPM/bar<sup>1/2</sup>)

**Inlet Thread Connection:** 1-inch NPT

**Temperature Rating:** 155°F (68°C)

**Finishes:** (SPRINKLER) White Polyester Coated, Chrome-Plated, or Natural Brass;  
(RECESSED ESCUTCHEON) White, Chrome, or Brass;  
(DOMED CONCEALED COVER PLATE) Chrome, Signal White, Pure White, or Custom

#### Horizontal Sidewall and Recessed Horizontal Sidewall, TY2335

**Approvals:** UL Listed

**Maximum Working Pressure:** 175 psi (12,1 bar)

**Discharge Coefficient:**  $K=4.4 \text{ GPM/psi}^{1/2}$  (63,4 LPM/bar<sup>1/2</sup>)

**Inlet Thread Connection:** 1-inch NPT

**Temperature Rating:** 155°F (68°C)

**Finishes:** White Polyester Coated, Chrome-Plated, or Natural Brass

Refer to **Technical Data Sheets TFP460 and TFP461** for complete descriptions of all listing criteria, design parameters, installation instructions, care and maintenance guidelines, and warranty information.

# Series LFII Dry-Type Residential Sprinklers

## ORDERING PROCEDURES

Contact your local distributor for availability. When placing an order, indicate the full product name and part number.

### LFII Dry-Type Residential Sprinklers Recessed Pendant and Domed Concealed Pendant, K=4.9 Horizontal Sidewall and Recessed Horizontal Sidewall, K=4.4

P/N 63 - XXX - X - XXX

		MODEL/SIN	TEMP. RATING	SPRINKLER FINISH	ESCUTCHEON FINISH	ORDER LENGTH (EXAMPLES)
10	Pendent w/ Recessed Escutcheon	TY2235	1 155°F (68°C)	9 Chrome Plated	Chrome	055 5.50"
11	Pendent for Use with Domed Concealed Cover Plate	TY2535		4 White Polyester Coated	White	082 8.25"
12	Horizontal Sidewall with Recessed Escutcheon	TY2335		2 Natural Brass	Brass Plated	180 18.00"
13	Horizontal Sidewall without Escutcheon	TY2335				187 18.75"
						240 24.00"

\* The Domed Concealed Cover Plate is Ordered Separately

### Cover Plates for Series LFII Domed Concealed Pendants

56-873-9-135	Chrome
56-873-3-135	Pure White
56-873-4-135	Signal (Bright) White
56-873-X-135	Special Order

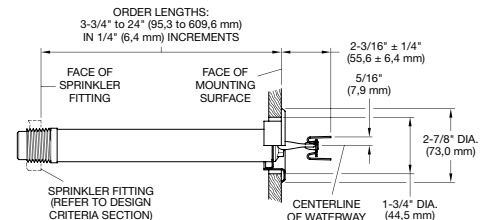
### Sprinkler Wrenches

56-000-6-387	W-Type 6 Wrench
56-850-4-001	W-Type 7 Wrench (Recessed & Concealed)

## Horizontal Sidewall and Recessed Horizontal Sidewall (TY2335)

Maximum Coverage Area <sup>(a)</sup> Width x Length <sup>(b)</sup> Ft. x Ft. (m x m)	Maximum Spacing Ft. (m)	Minimum Flow <sup>(c)</sup> and Residual Pressure for Horizontal Ceiling 155°F (68°C)			
		Top-of-Deflector to Ceiling: 4 to 6 Inches (100 to 150 mm)		Top-of-Deflector to Ceiling: 6 to 12 Inches (150 to 300 mm)	
		WET PIPE	DRY PIPE	WET PIPE	DRY PIPE
12 x 12 (3.7 x 3.7)	12 (3.7)	13 GPM (49.2 LPM) 8.7 psi (0.60 bar)	13 GPM (49.2 LPM) 8.7 psi (0.60 bar)	15 GPM (56.8 LPM) 11.6 psi (0.80 bar)	15 GPM (56.8 LPM) 11.6 psi (0.80 bar)
14 x 14 (4.3 x 4.3)	14 (4.3)	14 GPM (53.0 LPM) 10.1 psi (0.70 bar)	16 GPM (60.6 LPM) 13.2 psi (0.91 bar)	15 GPM (56.8 LPM) 11.6 psi (0.80 bar)	16 GPM (60.6 LPM) 13.2 psi (0.91 bar)
16 x 16 (4.9 x 4.9)	16 (4.9)	17 GPM (64.3 LPM) 14.9 psi (1.03 bar)	17 GPM (64.3 LPM) 14.9 psi (1.03 bar)	19 GPM (71.9 LPM) 18.6 psi (1.28 bar)	19 GPM (71.9 LPM) 18.6 psi (1.28 bar)
16 x 18 (4.9 x 5.5)	16 (4.9)	19 GPM (71.9 LPM) 18.6 psi (1.28 bar)	N/A	20 GPM (75.7 LPM) 20.7 psi (1.43 bar)	N/A
16 x 20 (4.9 x 6.1)	16 (4.9)	25 GPM (94.6 LPM) 32.3 psi (2.23 bar)	N/A	25 GPM (94.6 LPM) 32.3 psi (2.23 bar)	N/A

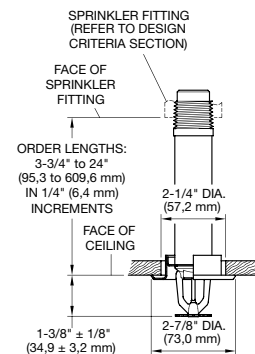
### Recessed Horizontal Sidewall Assembly (TY2335)



## Recessed Pendant and Domed Concealed Pendant (TY2235 and TY2535)

Maximum Coverage Area <sup>(a)</sup> Ft. x Ft. (m x m)	Maximum Spacing Ft. (m)	WET PIPE Minimum Flow and Residual Pressure for Horizontal Ceiling (Max. 2-inch Rise for 12-Inch Run)		DRY PIPE Minimum Flow and Residual Pressure for Horizontal Ceiling (Max. 2 Inch Rise for 12 Inch Run)	
		Recessed Pendant (TY2235)	Dome Concealed Pendant (TY2535)	Recessed Pendant (TY2235)	Dome Concealed Pendant (TY2535)
		155°F (68°C)	155°F (68°C) with 139°F (59°C) Cover Plate	155°F (68°C)	155°F (68°C) with 139°F (59°C) Cover Plate
12 x 12 (3.7 x 3.7)	12 (3.7)	13 GPM (49.2 LPM) 7.0 psi (0.48 bar)	13 GPM (49.2 LPM) 7.0 psi (0.48 bar)	13 GPM (49.2 LPM) 7.0 psi (0.48 bar)	13 GPM (49.2 LPM) 7.0 psi (0.48 bar)
14 x 14 (4.3 x 4.3)	14 (4.3)	14 GPM (52.9 LPM) 8.2 psi (0.57 bar)	14 GPM (52.9 LPM) 8.2 psi (0.57 bar)	14 GPM (52.9 LPM) 8.2 psi (0.57 bar)	14 GPM (52.9 LPM) 8.2 psi (0.57 bar)
16 x 16 (4.9 x 4.9)	16 (4.9)	15 GPM (56.8 LPM) 9.4 psi (0.65 bar)	15 GPM (56.8 LPM) 9.4 psi (0.65 bar)	15 GPM (56.8 LPM) 9.4 psi (0.65 bar)	15 GPM (56.8 LPM) 9.4 psi (0.65 bar)
18 x 18 (5.5 x 5.5)	18 (5.5)	18 GPM (68.1 LPM) 13.5 psi (0.93 bar)	20 GPM (75.7 LPM) 16.7 psi (1.14 bar)	18 GPM (68.1 LPM) 13.5 psi (0.93 bar)	20 GPM (75.7 LPM) 16.7 psi (1.14 bar)
20 x 20 (6.1 x 6.1)	20 (6.1)	21 GPM (79.5 LPM) 18.4 psi (1.3 bar)	22 GPM (83.3 LPM) 20.2 psi (1.39 bar)	21 GPM (79.5 LPM) 18.3 psi (1.3 bar)	22 GPM (83.3 LPM) 20.2 psi (1.39 bar)

### Recessed Pendant Assembly (TY2235)



## Tyco Fire Suppression & Building Products

Technical Services  
Phone: 800-381-9312 Fax: 800-791-5500

[www.Tyco-Fire.com](http://www.Tyco-Fire.com)

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