



1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ½ – 8"/DN40 – DN200

Application

- The Victaulic® FireLock™ Series 745 *Fire-Pac* is a completely pre-assembled and tested fire protection valve with trim and optional components enclosed in a metal cabinet.
- The *Victaulic FireLock Fire-Pac* include a water supply shutoff valve, the sprinkler system fire protection valve, alarm line pressure switches, air supervisory pressure switches, a valve position supervisory switch, and pressure gauges that are easily viewed through a window in the cabinet door.
- All electrical connections from inside the *Fire-Pac* to the control panel are pre-wired. Electrical connections are accessed inside the cabinet in a wiring panel box. Bulkhead fittings are factory provided for external hook-ups. All electrical component literature is included with the *Fire-Pac* cabinet.
- The manual pull station, mounted on the front of the *Fire-Pac* cabinet, is accessible through a sealed door. Once the door to the manual pull station is opened, the valve can be manually tripped.
- The pipe feed and drain connections can be located on either the left side, right side, or bottom of the enclosure. For ease of maintenance, the side and back panels of the cabinet can be removed for easy access to service equipment.
- Use with *Victaulic FireLock* grooved pipe couplings and fittings.

Installation Options

- **The FireLock™ *Fire-Pac* can incorporate any of the following available valve configurations:**
 - Wet
 - Dry – Actuated and/or Accelerated
 - Deluge – Wet pilot, dry pilot, and electric actuation
 - Preaction – Non-interlock, Single Interlock, and Double-Interlock
 - Preaction – AutoConvert preaction to dry

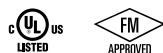
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

1.0 PRODUCT DESCRIPTION (CONTINUED)

Installation Options

- If required, the system can be supplied with an additional shutoff valve installed above the sprinkler system fire protection valve. This additional shutoff valve can provide greater system integrity during trip tests.
NOTE: All shutoff valves are pre-wired for supervisory alarms.
- When system air pressure is required, a compressor, Series 7G7 Nitrogen Fill Kit, or other external air/gas source can be supplied with an optional air tank and air maintenance device for complete system integration.
- The Notifier RP-2001 conventional releasing panel is the standard releasing panel, a compact single enclosure, containing the power supply, standby batteries and a battery charger as well as connections for the detectors, water flow and tamper switches, and the solenoid valve. The Notifier RP-2001 conventional releasing panel is software-programmed for field setting as two area or single area cross-zoned control. Mounting slots are provided for optional module boards.
- The *Fire-Pac* is for indoor or outdoor use (outdoor use when ordered with the optional weatherproofing). Optional weatherproofing is available when the enclosure is constructed for indoor or outdoor use to provide a degree of protection for the equipment inside the enclosure against the ingress of solid foreign objects or water, and that will be undamaged by the external formation of ice on the enclosure.
- Optional heater and insulation available. Heater trips at 50°F (10°C), while a temperature alarm switch will activate at 40°F (4.5° C). 20°F (-6.7°C) minimum ambient operating temperature. R3.2 ½" foil faced insulation is applied to all enclosure sides.

2.0 CERTIFICATION/LISTINGS



3.0 SPECIFICATIONS - MATERIAL

Cabinet Specifications

Configuration:

16-fold frame
Door(s) with foamed-in-place polyurethane gasket
4-pt locking system
Roof and rear wall

Material:

Sheet steel
Frame, roof, rear wall, floor: 16 gauge (1.5 mm)
Door: 14 gauge (2.0 mm)

Finish:

Frame: Dipcoat-primed
Door, roof, rear wall: Dipcoat-primed, powder-coated in textured RAL 3020 (traffic red)

Device Specifications

Body: Ductile iron, ASTM A536 Grade 65-45-12

Clapper: Aluminum bronze UNS-C95500

Shafting: Shafts are 17-4 stainless steel

Latch: Aluminum bronze UNS-C95500

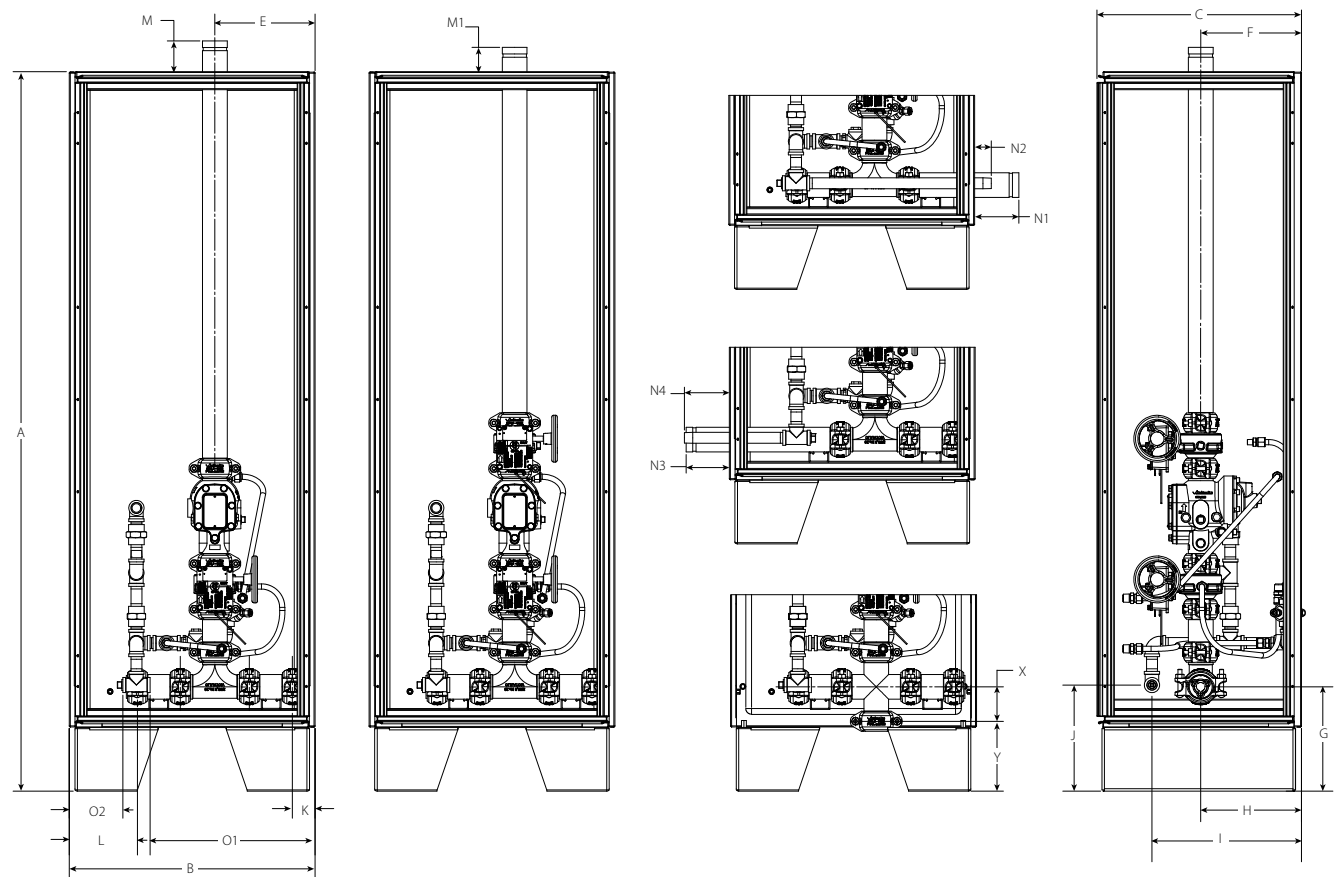
Clapper Seal: EPDM, ASTM D2000

Seat and Bushing Seals: Nitrile

Springs: Stainless steel (300 Series)

4.0 DIMENSIONS

Fire-Pac Cabinets Containing 1½ – 2"/DN40 – DN50 Valve Sizes



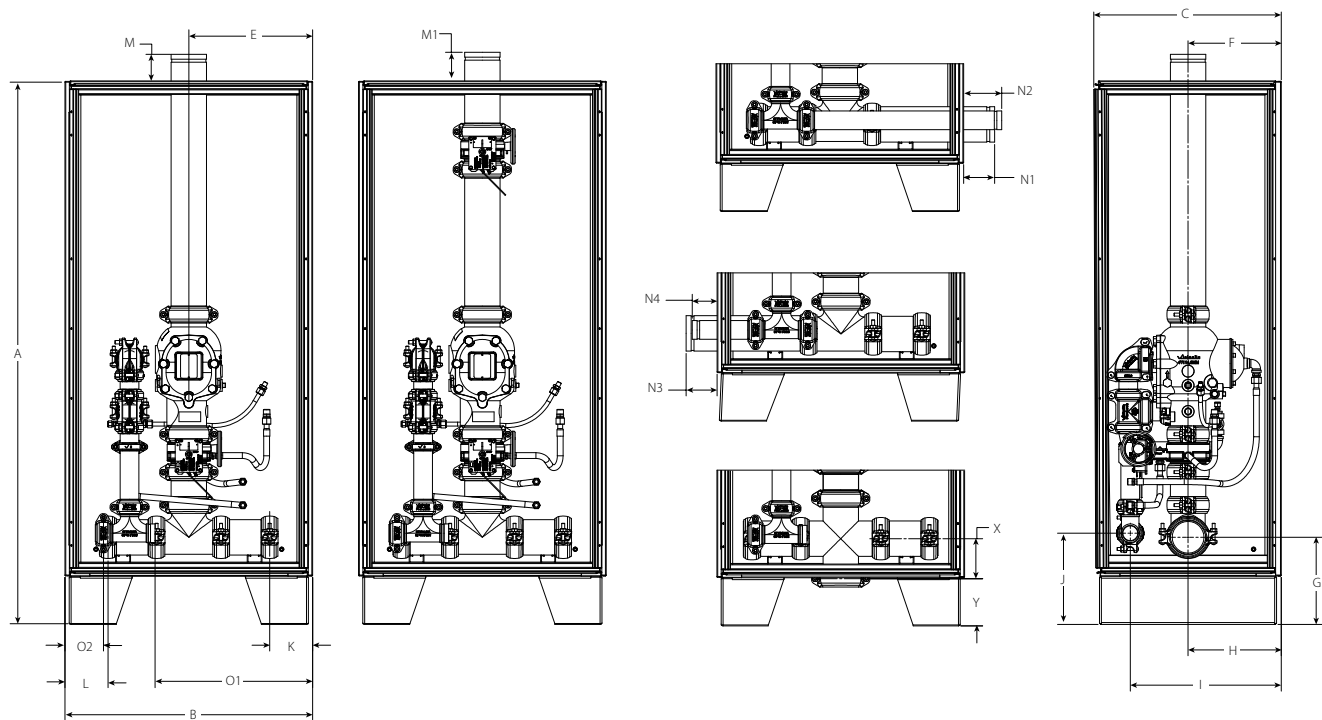
Nom. Valve Size inches DN	Dimensions																					Weight			
	A	B	C	E	F	G	H	I	J	K	L	M Riser Only		M1 With Added Control Valve		N1	N2	N3	N4	O1	O2	P ¹	X	Y	Approx. (Each) lb kg ²
												Tee Supply	Cross Supply	Tee Supply	Cross Supply										
1 ½ DN40	69.1 1755	23.6 599	19.9 505	9.6 244	9.7 246	9.8 249	9.7 246	14.4 366	10.4 264	2.7 69	7.1 180	4.5 114	4.5 114	4.5 114	4.5 114	4.2 107	3.6 91	4.4 112	4.3 109	13.8 351	7.2 183	12.1 307	2.8 71	7.0 178	430.0 195
2 DN50	69.1 1755	23.6 599	19.9 505	9.6 244	9.7 246	10.0 254	9.7 246	14.4 366	10.2 259	2.2 56	6.5 165	2.9 74	2.9 74	2.3 58	2.3 58	4.3 109	1.6 41	4.1 104	4.3 109	15.9 404	5.1 130	12.1 307	3.3 84	6.7 170	470.0 213

1 Dimension P applies only to the cabinet with nitrogen bracket option.
2 Approximate weight applies only to Fire-Pac cabinets that do not contain the nitrogen option.

- NOTES
- Dimensions may vary due to tolerances during manufacturing and assembly.
 - The nitrogen cylinder is not provided with the nitrogen fill kit.
 - Bolt hole placement 4 ½" in from the sides, and 2" in from the front and back with 1/8" diameter.

4.0 DIMENSIONS (CONTINUED)

Fire-Pac Cabinets Containing 2½ – 8" / 73.0 mm – DN200 Valve Sizes



Nom. Valve Size inches DN	Dimensions																								Weight
	A	B	C	E	F	G	H	I	J	K	L	M Riser Only		M1 With Added Control Valve		N1	N2	N3	N4	O1	O2	P ¹	X	Y	Approx. (Each) lb kg ²
												Tee Supply	Cross Supply	Tee Supply	Cross Supply										
2 ½	69.1 1755	31.5 800	23.8 605	15.8 401	11.8 300	10.3 262	11.8 300	19.2 488	12.6 320	4.6 117	4.6 117	3.1 79	3.8 97	3.1 79	3.9 99	3.9 99	4.4 112	3.9 99	3.8 97	19.2 488	6.7 170	12.1 307	3.8 97	6.5 165	516.0 234
3 DN80	69.1 1755	31.5 800	23.8 605	15.8 401	11.8 300	10.6 269	11.8 300	19.2 488	12.8 325	5.2 132	5.2 132	3.8 97	4.6 117	3.8 97	4.7 119	4.0 102	4.4 112	4.0 102	3.8 97	19.2 488	6.7 170	12.1 307	4.3 109	6.3 160	522.0 237
4 DN100	69.1 1755	31.5 800	23.8 605	15.8 401	11.8 300	11.1 282	11.8 300	19.2 488	12.6 295	5.5 140	5.5 140	3.4 86	4.4 112	3.6 91	4.6 117	3.9 99	4.9 124	3.9 99	3.2 81	20.0 508	4.9 124	12.1 307	5.1 130	6.0 152	600.0 272
165.1 mm	69.1 1755	31.5 800	23.8 605	15.8 401	11.8 300	12.1 307	11.8 300	19.2 488	12.4 315	4.0 102	4.0 102	4.9 124	5.9 159	4.7 119	5.7 145	5.7 145	6.2 157	5.7 145	5.1 130	19.9 505	5.0 127	12.1 307	6.6 168	5.5 140	660.0 299
	69.1 1755	31.5 800	23.8 605	15.8 401	11.8 300	12.2 310	11.8 300	19.2 488	12.5 318	4.1 102	4.1 104	6.3 160	7.3 185	6.6 168	7.6 193	5.7 145	5.7 145	5.7 145	5.6 142	20.4 518	4.5 114	12.1 307	6.6 168	5.6 142	660.0 299
8 DN200	69.1 1755	31.5 800	23.8 605	15.5 394	11.8 300	13.2 335	11.8 300	19.2 488	12.5 318	2.5 64	2.5 64	4.6 117	5.4 137	4.7 119	5.5 140	5.6 142	4.9 124	5.6 142	4.7 119	21.3 541	3.7 94	12.1 307	7.9 201	5.3 135	940.0 426

¹ Dimension P applies only to the cabinet with nitrogen bracket option.
² Approximate weight applies only to Fire-Pac cabinets that do not contain the nitrogen option.

NOTES

- Dimensions may vary due to tolerances during manufacturing and assembly.
- The nitrogen cylinder is not provided with the nitrogen fill kit.
- Bolt hole placement 4 ½" in from the sides, and 2" in from the front and back with ⅝" diameter.

5.0 PERFORMANCE

Compressor Requirements

115V, 60 HZ

Model	HP	Voltage	Gallons W/O Vent 0 – 18 PSIG	Gallons W/O Vent 0 – 30 PSIG	Gallons W/Vent 0 – 18 PSIG	Gallons W/Vent 0 – 30 PSIG	Open Flow	Avg. CFM 18 PSIG	Avg. CFM 30 PSIG	Amps @ Open Flow	Amps @ 18 PSIG	Amps @ 30 PSIG
VIC16A	1/8	115/230/60/50	276	164	187	127	1.6	1.4	1.2	2.4	2.9	3.0
VIC25A	1/4	115/230/60/50	406	237	256	177	2.3	2.0	1.7	2.9	3.3	3.5
VIC50A	1/2	115/230/60/50	600	338	456	291	3.3	2.9	2.6	2.7	3.5	3.8
VIC75A	3/4	115/230/60/50	840	500	675	440	4.4	4.1	3.8	6.7	7.8	8.5
VIC100A	1.0	115/230/60/50	1170	690	1020	610	6.0	5.6	5.3	7.5	8.5	9.2

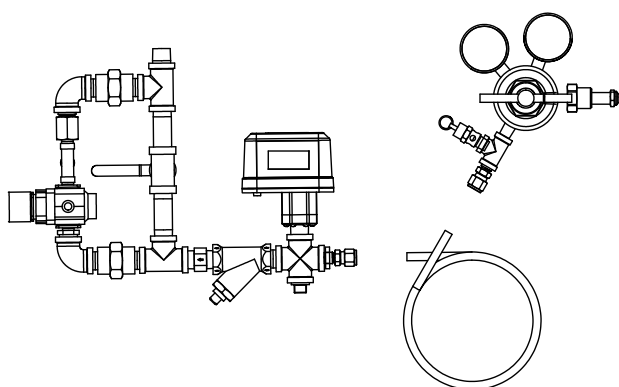
230V, 50 HZ

Model	HP	Voltage	Gallons W/O Vent 0 – 18 PSIG	Gallons W/O Vent 0 – 30 PSIG	Gallons W/Vent 0 – 18 PSIG	Gallons W/Vent 0 – 30 PSIG	Open Flow	Avg. CFM 18 PSIG	Avg. CFM 30 PSIG	Open Flow Amps	Amps @ 18 PSIG	Amps @ 30 PSIG
VIC16A	1/8	115/230/60/50	231	135	140	91	1.3	1.2	1.0	0.9	1.2	1.3
VIC25A	1/4	115/230/60/50	315	184	200	140	1.9	1.7	1.4	1.0	1.3	1.5
VIC50A	1/2	115/230/60/50	490	275	330	220	2.7	2.4	2.0	1.2	1.5	1.7
VIC75A	3/4	115/230/60/50	680	400	500	320	3.5	3.2	2.9	2.5	2.7	2.9
VIC100A	1.0	115/230/60/50	940	550	830	490	4.7	4.4	4.1	2.9	3.1	3.4

NOTES

- Installations for 1/4 hp compressors can only be configured as base mounted or with a switch; air maintenance trims with tank options are not available.
- VIC25A and VIC25AC have maximum pressure of 30 PSIG. All other compressors are rated at 60 PSIG Maximum.

Nitrogen Requirements



13 psi fill Victaulic:		Freezer Temperature (Deg F)				
System Size (gallons)						Approx. Fill Time (minutes)
	20	0	-20	-40	-60	
	Nitrogen Supply (lbs)					
250	5.0	5.3	5.5	5.8	6.0	1
500	10.1	10.5	11.0	11.5	12.1	2
750	15.1	15.8	16.5	17.3	18.1	3
1000	20.2	21.0	22.0	23.0	24.2	4

NOTES

- 7G7 Nitrogen requirements when nitrogen is fed to 745 by N2 high pressure cylinders (This does not apply totally to nitrogen regen system integration).
- For Nitrogen Regeneration systems with a tank, utilize 757 Air Maintenance Device. Option 2 under "Air Maintenance Selection" in order sheet on page 6.

6.0 NOTIFICATIONS

WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- These products shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA) standards, or equivalent local and national fire protection standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.
- The installer shall understand the use of this product and why it was specified for the particular application.
- The installer shall understand common industry safety standards and potential consequences of improper product installation.
- It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

Series 745 FireLock™ Fire-Pac Panel Options

Name/Company: _____

E-mail: _____

Phone: _____

FireLock™ Series 745 Fire-Pac Order Form

Figure 1. Hierarchical clustering of the taxa. The taxa are labeled from left to right: S, an empty box, 745, an empty box, an empty box, an empty box, an empty box, an empty box, an empty box, and an empty box. The dendrogram shows that 'S' and the first empty box cluster together, then '745' and the second empty box cluster together. These two pairs then merge. The remaining taxa form a large cluster that joins the first group at the top.

Class	Type	Size	Style Number	Trim Selection	Panel Design	Applicable Wiring Code	Compressor Selection	Air Maintenance Selection	Cabinet Options/ Color Selector
S	A - Dry	014 1 1/2"	745	01 - Dry Actuated	A - No Panel	1 - Std. (US) IUL Class B	B - 1/6 hp	1 - Base Mounted Air Compressor ³	1 - Red, Pipe Feed and Drain
	D - Deluge	020 2"		1A - Dry Actuated with Added Control Valve	B - RP-2001 Panel (Includes Two - 12V, 1.2AH Batteries)	2 - Canada IUL Class B	C - 1/4 hp ¹⁸	2 - Regulated Air Maintenance Trim	2 - Right
	P - Preaction	024 2 1/8"		02 - Dry Actuated/Accelerated ³	C - RP-2001 Panel/AXTM	3 - US/220V 60Hz Class B	E - 1/2 hp	3 - Assembly Without Compressor ⁴	3 - Weatherproof Pipe
	W - Wet	030 3"		2A - Dry Actuated/Accelerated with Added Control Valve ²	D - RP-2001 Panel/AXTM/ANN-I/O	4 - Standard Class A	F - 3/4 hp ⁴	3 - Regulated Air Maintenance Trim	3 - Feed and Drain Left
		040 4"		3 - Deluge Pneumatic Pilot Line	E - RP-2001 Panel/AXTM/ANN-I/O	5 - Canadian Class A	G - 1 hp ¹⁴	4 - No Compressor or Regulated Air	4 - Weatherproof Pipe
	165 165.1mm ²⁰	3A - Deluge Pneumatic Pilot Line with Added Control Valve		F - RP-2001 Panel/AXTM/ANN-R/LY	6 - 220V 60Hz Class A ¹³	H - None	4 - Maintenance Trim Assembly	4 - Feed and Drain Right	
	060 6"	3B - Deluge Wet Pilot		G - RP-2001 Panel/AXTM/ANN-R/LY	7 - 220V 50 Hz Class A ¹³	I - 1/2 hp with Hour Meter	N - Nitrogen Regulator and AWD Kit for Connecting Line 310 S/C Cylinder	5 - Feed and Drain Bottom	
	080 8" x 10"	3C - Deluge Wet Pilot Line with Added Control Valve		H - RP-2001 Panel/AXTM/ANN-80/ANN-R/LY	8 - 220V 50 Hz Class B ¹³	J - 1/4 hp with Hour Meter	6 - Air Dryer/Filter with Base-Mounted Air Compressor	5 - Pipe Feed and Drain Bottom	
		04 - Deluge Electric		I - RP-2001 Panel/AXTM/ANN-I/O/ANN-R/LY	Wiring	K - Addressable Style 4	L - 1/2 hp with Hour Meter	A - Red, Pipe Feed and Drain Left	
		4A - Deluge Electric with Added Control Valve		J - RP-2001 Panel/ANN-80	Wiring	M - Addressable Style 6	M - 3/4 hp with Hour Meter	B - Insulated and Heated, Weatherproof Pipe	
		4B - Deluge Electric with Added Control Valve		K - RP-2001 Panel/ANN-80/ANN-I/O	Wiring	C - Addressable Style 7	N - 1 hp with Hour Meter ⁴	Feed and Drain Bottom ²	
		5A - Preaction Single - Interlocked Electric		L - RP-2001 Panel/ANN-80/ANN-R/LY	Wiring	N - 220V 50 Hz Class A New Zealand - Monitor	O - 1 hp with Hour Meter ⁴	L - Insulated and Heated, Weatherproof Pipe	
		5B - Preaction Auto/Convert Single - Interlocked Electric ¹¹		M - RP-2001 Panel/ANN-80/ANN-I/O/ANN-R/LY	Wiring	P - 220V 50 Hz Class B New Zealand - Monitor	9 - Special ¹	Feed and Drain Left ⁹	
		5C - Preaction Auto/Convert Single - Interlocked Electric with Added Control Valve ¹¹		N - RP-2001 Panel/ANN-I/O	Wiring	Q - RP-2001 Panel/ANN-I/O/ANN-R/LY	A - Base-Mounted Air Compressor with On/Off Switch	R - Insulated and Heated, Weatherproof Pipe	
		06 - Preaction Single - Interlocked Electric with Panel Cross Zone ³		P - RP-2001 Panel/ANN-I/O	Wiring	R - Notifier 320 - Addressable Panel ¹⁰	C - Regulated Air Maintenance Trim Assembly with Tank and Compressor with Optional On/Off Switch	9 - Special - Any Other Color and/or Special Options ¹	
		6A - Preaction Single - Interlocked Electric with Panel Cross Zone with Added Control Valve ³		Q - RP-2001 Panel/ANN-I/O/ANN-R/LY	Wiring	S - Secondary Addressable Ready			
		6B - Preaction Single - Interlocked Electric with Panel Cross Zone ³		R - Notifier 320 - Addressable Panel ¹⁰	Wiring	T - Notifier MS-320C Addressable Canadian Panel ¹⁰			
		6C - Preaction Auto/Convert Single - Interlocked Electric with Panel Cross Zone ³		S - Secondary Addressable Ready	Wiring	U - Notifier MS-320E - Addressable European Panel			
		7A - Preaction Double-Interlocked Pneumatic ²⁷		70 - Preaction Single - Interlocked Pneumatic ¹⁹	Wiring	220V 50 Hz ¹⁰			
	7B - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	71 - Preaction Single - Interlocked Pneumatic with Added Control Valve ¹⁹	Wiring	9 - Special ¹					
	7C - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	72 - Preaction Single - Interlocked Pneumatic with Added Control Valve ¹⁹	Wiring						
	7D - Preaction Double-Interlocked Pneumatic ¹⁹	73 - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	Wiring						
	7E - Preaction Single - Interlocked Pneumatic with Added Control Valve ¹⁹	74 - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	Wiring						
	7F - Preaction Auto/Convert Double - Interlocked Pneumatic ^{11, 17}	75 - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	Wiring						
	7G - Preaction Auto/Convert Double - Interlocked Pneumatic ^{11, 17}	76 - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	Wiring						
	7H - Preaction Auto/Convert Double - Interlocked Electric-Pneumatic ^{11, 16}	77 - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	Wiring						
	7I - Preaction Auto/Convert Double - Interlocked Electric-Pneumatic ^{11, 16}	78 - Preaction Double-Interlocked Electric-Pneumatic ¹⁶	Wiring						
	7J - Preaction Auto/Convert Double - Interlocked Electric-Pneumatic ¹⁵	79 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8A - Preaction Double-Interlocked Pneumatic ¹⁵	80 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8B - Preaction Double-Interlocked Pneumatic ¹⁵	81 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8C - Preaction Double-Interlocked Pneumatic ¹⁵	82 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8D - Preaction Double-Interlocked Pneumatic ¹⁵	83 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8E - Preaction Double-Interlocked Pneumatic ¹⁵	84 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8F - Preaction Double-Interlocked Pneumatic ¹⁵	85 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8G - Preaction Double-Interlocked Pneumatic ¹⁵	86 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8H - Preaction Double-Interlocked Pneumatic ¹⁵	87 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8I - Preaction Double-Interlocked Pneumatic ¹⁵	88 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8J - Preaction Double-Interlocked Pneumatic ¹⁵	89 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8K - Preaction Double-Interlocked Pneumatic ¹⁵	90 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8L - Preaction Double-Interlocked Pneumatic ¹⁵	91 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8M - Preaction Double-Interlocked Pneumatic ¹⁵	92 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8N - Preaction Double-Interlocked Pneumatic ¹⁵	93 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8O - Preaction Double-Interlocked Pneumatic ¹⁵	94 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8P - Preaction Double-Interlocked Pneumatic ¹⁵	95 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8Q - Preaction Double-Interlocked Pneumatic ¹⁵	96 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8R - Preaction Double-Interlocked Pneumatic ¹⁵	97 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8S - Preaction Double-Interlocked Pneumatic ¹⁵	98 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8T - Preaction Double-Interlocked Pneumatic ¹⁵	99 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8U - Preaction Double-Interlocked Pneumatic ¹⁵	100 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8V - Preaction Double-Interlocked Pneumatic ¹⁵	101 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8W - Preaction Double-Interlocked Pneumatic ¹⁵	102 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8X - Preaction Double-Interlocked Pneumatic ¹⁵	103 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8Y - Preaction Double-Interlocked Pneumatic ¹⁵	104 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8Z - Preaction Double-Interlocked Pneumatic ¹⁵	105 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AA - Preaction Double-Interlocked Pneumatic ¹⁵	106 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AB - Preaction Double-Interlocked Pneumatic ¹⁵	107 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AC - Preaction Double-Interlocked Pneumatic ¹⁵	108 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AD - Preaction Double-Interlocked Pneumatic ¹⁵	109 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AE - Preaction Double-Interlocked Pneumatic ¹⁵	110 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AF - Preaction Double-Interlocked Pneumatic ¹⁵	111 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AG - Preaction Double-Interlocked Pneumatic ¹⁵	112 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AH - Preaction Double-Interlocked Pneumatic ¹⁵	113 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AI - Preaction Double-Interlocked Pneumatic ¹⁵	114 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AJ - Preaction Double-Interlocked Pneumatic ¹⁵	115 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AK - Preaction Double-Interlocked Pneumatic ¹⁵	116 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AL - Preaction Double-Interlocked Pneumatic ¹⁵	117 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AM - Preaction Double-Interlocked Pneumatic ¹⁵	118 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AN - Preaction Double-Interlocked Pneumatic ¹⁵	119 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AO - Preaction Double-Interlocked Pneumatic ¹⁵	120 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AP - Preaction Double-Interlocked Pneumatic ¹⁵	121 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AQ - Preaction Double-Interlocked Pneumatic ¹⁵	122 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AR - Preaction Double-Interlocked Pneumatic ¹⁵	123 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AS - Preaction Double-Interlocked Pneumatic ¹⁵	124 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AT - Preaction Double-Interlocked Pneumatic ¹⁵	125 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AU - Preaction Double-Interlocked Pneumatic ¹⁵	126 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AV - Preaction Double-Interlocked Pneumatic ¹⁵	127 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AW - Preaction Double-Interlocked Pneumatic ¹⁵	128 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AX - Preaction Double-Interlocked Pneumatic ¹⁵	129 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AY - Preaction Double-Interlocked Pneumatic ¹⁵	130 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8AZ - Preaction Double-Interlocked Pneumatic ¹⁵	131 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BA - Preaction Double-Interlocked Pneumatic ¹⁵	132 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BB - Preaction Double-Interlocked Pneumatic ¹⁵	133 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BC - Preaction Double-Interlocked Pneumatic ¹⁵	134 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BD - Preaction Double-Interlocked Pneumatic ¹⁵	135 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BE - Preaction Double-Interlocked Pneumatic ¹⁵	136 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BF - Preaction Double-Interlocked Pneumatic ¹⁵	137 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BG - Preaction Double-Interlocked Pneumatic ¹⁵	138 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BH - Preaction Double-Interlocked Pneumatic ¹⁵	139 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BI - Preaction Double-Interlocked Pneumatic ¹⁵	140 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BJ - Preaction Double-Interlocked Pneumatic ¹⁵	141 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BK - Preaction Double-Interlocked Pneumatic ¹⁵	142 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BL - Preaction Double-Interlocked Pneumatic ¹⁵	143 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BM - Preaction Double-Interlocked Pneumatic ¹⁵	144 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BN - Preaction Double-Interlocked Pneumatic ¹⁵	145 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BO - Preaction Double-Interlocked Pneumatic ¹⁵	146 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BP - Preaction Double-Interlocked Pneumatic ¹⁵	147 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BQ - Preaction Double-Interlocked Pneumatic ¹⁵	148 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BR - Preaction Double-Interlocked Pneumatic ¹⁵	149 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BS - Preaction Double-Interlocked Pneumatic ¹⁵	150 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BT - Preaction Double-Interlocked Pneumatic ¹⁵	151 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BU - Preaction Double-Interlocked Pneumatic ¹⁵	152 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BV - Preaction Double-Interlocked Pneumatic ¹⁵	153 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BW - Preaction Double-Interlocked Pneumatic ¹⁵	154 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BX - Preaction Double-Interlocked Pneumatic ¹⁵	155 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BY - Preaction Double-Interlocked Pneumatic ¹⁵	156 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8BZ - Preaction Double-Interlocked Pneumatic ¹⁵	157 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CA - Preaction Double-Interlocked Pneumatic ¹⁵	158 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CB - Preaction Double-Interlocked Pneumatic ¹⁵	159 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CC - Preaction Double-Interlocked Pneumatic ¹⁵	160 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CD - Preaction Double-Interlocked Pneumatic ¹⁵	161 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CE - Preaction Double-Interlocked Pneumatic ¹⁵	162 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CF - Preaction Double-Interlocked Pneumatic ¹⁵	163 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CG - Preaction Double-Interlocked Pneumatic ¹⁵	164 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CH - Preaction Double-Interlocked Pneumatic ¹⁵	165 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CI - Preaction Double-Interlocked Pneumatic ¹⁵	166 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CJ - Preaction Double-Interlocked Pneumatic ¹⁵	167 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CK - Preaction Double-Interlocked Pneumatic ¹⁵	168 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CL - Preaction Double-Interlocked Pneumatic ¹⁵	169 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CM - Preaction Double-Interlocked Pneumatic ¹⁵	170 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CN - Preaction Double-Interlocked Pneumatic ¹⁵	171 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CO - Preaction Double-Interlocked Pneumatic ¹⁵	172 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CP - Preaction Double-Interlocked Pneumatic ¹⁵	173 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CQ - Preaction Double-Interlocked Pneumatic ¹⁵	174 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CR - Preaction Double-Interlocked Pneumatic ¹⁵	175 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CS - Preaction Double-Interlocked Pneumatic ¹⁵	176 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CT - Preaction Double-Interlocked Pneumatic ¹⁵	177 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CU - Preaction Double-Interlocked Pneumatic ¹⁵	178 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CV - Preaction Double-Interlocked Pneumatic ¹⁵	179 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CW - Preaction Double-Interlocked Pneumatic ¹⁵	180 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CX - Preaction Double-Interlocked Pneumatic ¹⁵	181 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CY - Preaction Double-Interlocked Pneumatic ¹⁵	182 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8CZ - Preaction Double-Interlocked Pneumatic ¹⁵	183 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DA - Preaction Double-Interlocked Pneumatic ¹⁵	184 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DB - Preaction Double-Interlocked Pneumatic ¹⁵	185 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DC - Preaction Double-Interlocked Pneumatic ¹⁵	186 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DD - Preaction Double-Interlocked Pneumatic ¹⁵	187 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DE - Preaction Double-Interlocked Pneumatic ¹⁵	188 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DF - Preaction Double-Interlocked Pneumatic ¹⁵	189 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DG - Preaction Double-Interlocked Pneumatic ¹⁵	190 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DH - Preaction Double-Interlocked Pneumatic ¹⁵	191 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DI - Preaction Double-Interlocked Pneumatic ¹⁵	192 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DJ - Preaction Double-Interlocked Pneumatic ¹⁵	193 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DK - Preaction Double-Interlocked Pneumatic ¹⁵	194 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DL - Preaction Double-Interlocked Pneumatic ¹⁵	195 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DM - Preaction Double-Interlocked Pneumatic ¹⁵	196 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DN - Preaction Double-Interlocked Pneumatic ¹⁵	197 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DO - Preaction Double-Interlocked Pneumatic ¹⁵	198 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DP - Preaction Double-Interlocked Pneumatic ¹⁵	199 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DQ - Preaction Double-Interlocked Pneumatic ¹⁵	200 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DR - Preaction Double-Interlocked Pneumatic ¹⁵	201 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DS - Preaction Double-Interlocked Pneumatic ¹⁵	202 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DT - Preaction Double-Interlocked Pneumatic ¹⁵	203 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DU - Preaction Double-Interlocked Pneumatic ¹⁵	204 - Preaction Double-Interlocked Electric-Pneumatic ¹⁵	Wiring						
	8DV - Preaction Double-Interlocked Pneumatic ¹⁵	205 - Preaction Double-Interlocked Electric-Pne							

These Fire-Pac options do not carry a UL Listing/FM Approval as an assembly; components are UL Listed/FM approved and installed as per the manufacturer's recommendations. All sizes of addressable panel options require the larger cabinet due to panel size not fitting in smaller cabinet. The RP-2001 Panel option is strongly recommended for any AutoConvert trim configurations.

² Available in 3-8-inch/88.9-219.1-mm sizes only.

³ Not available in the US or Canada.

⁴ 1 HP compressor options shall require an Air Maintenance Device. Not available in the US or Canada.

⁵ Utilizes the Vitruvian Series 798 Pneumatic actuator for use with a dry pilot line.

- ⁶ Utilizes Victaulic High Pressure Solenoid and second air port

Utilizes Victaulic High Pressure Solenoid and second air pressure

⁸ Utilizes Vitaulic Series 767 Electric Pneumatic actuator.

¹⁰When a 7461 P4 accelerator is required to meet trim times, option #3 on the air maintenance selection is required.

¹⁰ Supplied with 165.1 mm couplings.

¹⁰ Supplied with 165.1 mm couplings

Contact Victaulic for pricing and availability.

Requires a Regulated Air Maintenance Trim Assembly (Option 3) with a tank

Electric Release with panel cross-zoned

Applies to Fire-Pac cabinets containing 2½ - 8-inch/73.0 - 219.1-mm valve sizes only

WARNING: Valves equipped with an accelerator require Air Maintenance Selection #2 or #3 applies to the 4" at cabinets containing 2.72 to 3-inch/73.0 to 2.13, 1-inch valve sizes only

Regulated Air Maintenance Trim Assembly with an external air source.

Nitrogen Regeneration System with Tank, or a tank supplied gas source regulated to under 125 psi/8.6 Bar.

8-inch/219.1-mm valve trim may be re-piped from standard takeouts to accommodate cabinet fitting and chosen options. Follow flowpaths for setup.

Option N requires Option H for Compressor Selection. Option N has nitrogen pressure switch to augment in series the low air pressure switch.

Option N requires option H for compressor selection. Option N has nitrogen pressure switch to augment in series the low air pressure switch (signal when nitrogen tank cannot maintain 100 psi/6.9 Bar inlet pressure to AMD). NOTE: The nitrogen cylinder is not provided with the nitrogen fill kit.

signal when nitrogen tank cannot maintain 100-psi/6.9-bar inlet pressure to AWD), NO IE: The nitrogen cylinder is not provided with the nitrogen fill kit.

All insulated and heated options to have low temperature alarms wired into panel or as auxiliary contact.

All insulated and heated options to have low temperature alarms wired into panel or as auxiliary contact.

7.1 REFERENCE MATERIALS

FireLock™ Fire-Pac Fire Alarm Control Panel (FACP) Options

Option ⁵	Panel Design	Description
A	NO PANEL	This option includes a terminal block for wiring connections only.
B	NOTIFIER ³ RP-2001 ⁴ Panel with Two 12-Volt, 12AH Batteries ⁶	This option includes the base panel with two 12AH batteries. The base panel provides the alarm and trouble relays. The alarm indicates when the valve trips, and the trouble indicates a technical difficulty (e.g. loss of power, loose wire, etc.). Three programmable relay contacts are provided for remote signaling.
C	NOTIFIER ³ RP-2001 ⁴ Panel with 4XTM	This option includes option "B", plus a supervised output for local energy municipal box transmitter and alarm and trouble reverse polarity.
D	NOTIFIER ³ RP-2001 ⁴ Panel with 4XTM/ANN-80	This option includes option "C", plus a remote LCD annunciator that mimics the information displayed on the FACP LCD display.
E	NOTIFIER ³ RP-2001 ⁴ Panel with 4XTM/ANN-I/O	This option includes option "C", plus an LED driver that can be used as an interface with the FACP to drive most customized graphic annunciators.
F	NOTIFIER ³ RP-2001 ⁴ Panel with 4XTM/ANN-RLY	This option includes option "C", plus 10 additional, programmable Form-C relays.
G	NOTIFIER ³ RP-2001 ⁴ Panel with 4XTM/ANN-80/ANN-I/O	This option combines the features of option "D" and option "E".
H	NOTIFIER ³ RP-2001 ⁴ Panel with 4XTM/ANN-80/ANN-RLY	This option combines the features of option "D" and option "F".
I	NOTIFIER ³ RP-2001 ⁴ Panel with 4XTM/ANN-I/O/ANN-RLY	This option combines the features of option "E" and option "F".
J	NOTIFIER ³ RP-2001 ⁴ Panel with ANN-80	This option includes option "B", plus a remote LCD annunciator that mimics the information displayed on the FACP LCD display.
K	NOTIFIER ³ RP-2001 ⁴ Panel with ANN-80/ANN-I/O	This option includes option "B", plus a remote LCD annunciator that mimics the information displayed on the FACP LCD display and an LED driver that can be used as an interface with the FACP to drive most customized graphic annunciators.
L	NOTIFIER ³ RP-2001 ⁴ Panel with ANN-80/ANN-RLY	This option includes option "B", plus a remote LCD annunciator that mimics the information displayed on the FACP LCD display and 10 additional, programmable Form-C relays.
M	NOTIFIER ³ RP-2001 ⁴ Panel with ANN-80/ANN-I/O/ANN-RLY	This option includes option "K", plus 10 additional, programmable Form-C relays.
N	NOTIFIER ³ RP-2001 ⁴ Panel with ANN-I/O	This option includes option "B", plus an LED driver that can be used as an interface with the FACP to drive most customized graphic annunciators.
P	NOTIFIER ³ RP-2001 ⁴ Panel with ANN-RLY	This option includes option "B", plus 10 additional, programmable Form-C relays.
Q	NOTIFIER ³ RP-2001 ⁴ Panel with ANN-I/O/ANN-RLY	This option combines the features of option "K" and option "P".
R	NOTIFIER ³ NFS-320 with Addressable Panel	This option includes a NOTIFIER* NFS-320 addressable panel capable of networking with 318 intelligent devices through the NOTI-FIRE-NET protocol and contains two, 12AH batteries. All of the trouble and supervisory alarms are discretely wired and factory programmed to alert to specific issues with the Fire-Pac. Any applicable solenoid releases are factory wired for release. Commissioning and programming of this option shall be completed by a NOTIFIER* approved contractor. Contact Victaulic for additional information.
S	Secondary Addressable-Ready Unit (No Panel, NOTIFIER* XP10-M Ten-Input Monitor Module)	This option has all of the trouble and supervisory alarms discretely wired to a NOTIFIER* XP10-M board. It is ready to interface to a contractor-supplied NOTIFIER* NFS-320 or compatible addressable panel through its Signaling Line Circuit (SLC) loop. In addition, any applicable solenoid releases are factory wired for release. Commissioning and programming of this option shall be completed by a NOTIFIER* approved contractor. Contact Victaulic for additional information.

³ NOTIFIER is a registered trademark of the Honeywell International Inc.

⁴ RP-2001 is designated as RP-2001C for Canada, and RP-2001E for Europe.

⁵ This designation corresponds with the "Panel Design" section of the Figure Number System chart.

⁶ It is the sole responsibility of the Fire Alarm system designer, Licensed electrician, or Certified installer to properly calculate the detection, maximum devices per circuit, and the battery requirements in accordance with NFPA 72 and all other applicable National, State, and local codes in accordance with the AHJ's requirements. For calculating battery size, you need to add a 2.35mA draw for the electrical components in the cabinet to your overall calculations.

NOTES

- **FACP** – Fire Alarm Control Panel
- **LCD** – Liquid Crystal Display
- **LED** – Light Emitting Diode
- **Class B** – 2-wire configuration
- **Class A** – 4-wire configuration
- This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

7.1 REFERENCE MATERIALS (CONTINUED)

FireLock™ *Fire-Pac* Fire Alarm Control Panel (FACP) Options

Option ⁵	Panel Design	Description
T	Notifier NFS-320C Addressable Canadian Panel	This option includes a NOTIFIER* NFS-320C addressable panel capable of networking with 318 intelligent devices through the NOTI-FIRE-NET protocol and contains two, 12AH batteries. All of the trouble and supervisory alarms are discretely wired and factory programmed to alert to specific issues with the Fire-Pac. Any applicable solenoid releases are factory wired for release. Commissioning and programming of this option shall be completed by a NOTIFIER* approved contractor. Contact Victaulic for additional information.
U	Notifier NFS-320E - Addressable European panel 220V 50 Hz	This option includes a NOTIFIER* NFS-320E addressable panel capable of networking with 318 intelligent devices through the NOTI-FIRE-NET protocol and contains two, 12AH batteries. All of the trouble and supervisory alarms are discretely wired and factory programmed to alert to specific issues with the Fire-Pac. Any applicable solenoid releases are factory wired for release. Commissioning and programming of this option shall be completed by a NOTIFIER* approved contractor. Contact Victaulic for additional information.
9	Special	

³ NOTIFIER is a registered trademark of the Honeywell International Inc.

⁴ RP-2001 is designated as RP-2001C for Canada, and RP-2001E for Europe.

⁵ This designation corresponds with the "Panel Design" section of the Figure Number System chart.

⁶ It is the sole responsibility of the Fire Alarm system designer, Licensed electrician, or Certified installer to properly calculate the detection, maximum devices per circuit, and the battery requirements in accordance with NFPA 72 and all other applicable National, State, and local codes in accordance with the AHJ's requirements. For calculating battery size, you need to add a 2.35mA draw for the electrical components in the cabinet to your overall calculations.

NOTES

- **FACP** – Fire Alarm Control Panel
- **LCD** – Liquid Crystal Display
- **LED** – Light Emitting Diode
- **Class B** – 2-wire configuration
- **Class A** – 4-wire configuration
- This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

7.2 REFERENCE MATERIALS

Series 745 FireLock™ Cabinet Options

Option ⁷	Cabinet Options/Color Selector	Description
1	Red	Pipe feed and drain on the right side of the cabinet.
2	Weatherproofing, Pipe feed and drain left	Weatherproof enclosures constructed for either indoor or outdoor use to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); and that will be undamaged by the external formation of ice on the enclosure. Pipe feed and drain will be located on the left side of the enclosure.
3	Weatherproofing, Pipe feed and drain right	This option includes option "2" but pipe feed and drain will be located on the right side of the enclosure.
4	Weatherproofing, Pipe feed and drain bottom	This option includes option "2" but pipe feed and drain will be located on the bottom of the enclosure. Factory provided panel skirts and insulation from floor to bottom of the cabinet shall also be provided.
5	Pipe feed and drain bottom	Pipe feed and drain will be located on the bottom of the cabinet.
A	Red, pipe feed, and drain left	Pipe Feed and drain will be located on the left side of the enclosure.
B	Insulated and Heated, Weatherproofing, Pipe feed and drain bottom	This option includes option "4", plus a heater and insulation. Heater trips at 50°F (10°C), while a temperature alarm switch will activate at 40°F (4.5°C). 20°F (-6.7°C) minimum ambient operating temperature. R3.2 ½" foil faced insulation is applied to all enclosure sides.
L	Insulated and Heated, Weatherproofing, Pipe feed and drain left	This option includes option "2", plus a heater and insulation. Heater trips at 50°F (10°C), while a temperature alarm switch will activate at 40°F (4.5°C). 20°F (-6.7°C) minimum ambient operating temperature. R3.2 ½" foil faced insulation is applied to all enclosure sides.
R	Insulated and Heated, Weatherproofing, Pipe feed and drain right	This option includes option "3", plus a heater and insulation. Heater trips at 50°F (10°C), while a temperature alarm switch will activate at 40°F (4.5°C). 20°F (-6.7°C) minimum ambient operating temperature. R3.2 ½" foil faced insulation is applied to all enclosure sides.
9	Special	Any other color and/or special options
N	NFPA 72 Bypass Test Switch Option	

⁷ This designation corresponds with the "Cabinet Options/Color Selector" section of the Figure Number System chart.

7.3 REFERENCE MATERIALS

[30.01: Victaulic® FireLock™ Alarm Check Valve and European Alarm Check Valve Stations Series 751](#)

[30.84: Victaulic FireLock NXT™ Actuated Valve with Preaction AutoConvert Trim](#)

[31.80: Victaulic FireLock NXT Dry Valve Series 768N](#)

[31.82: Victaulic FireLock NXT Preaction Trim Series 769N](#)

[I-745: Victaulic Series 745 FireLock Fire-Pac for FireLock NXT Valves](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [victaulic.com](#).

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Intellectual Property Rights

No statement concerning the use of any material, product, service, or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Victaulic or any of its affiliates, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries. Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.

Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.