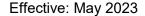


APPROVED Data Sheet UFS-600C Rev 3.03 Page 1 of 2





NITROGEN-PAC[™] MODEL SC-W

FEATURES

- FM Approved
- CSFM Listing No. 7510-2143:0501
- Fully factory assembled, adjusted and tested
- No field assembly required
- Mounts on wall no floor space required
- Nitrogen storage receiver mounts on wall or sprinkler riser the ONLY unit available requiring no floor space for nitrogen receiver
- Membrane based nitrogen generation

BENEFITS

- Saves installation, assembly, and testing time
- Quick installation just mount, connect, and it's ready
- Nitrogen generation and sprinkler initial-fill (per NFPA 13) from just one unit
- Reliable, long-lasting nitrogen generation
- No floor space needed for generator or nitrogen receiver

Description

The **FM Approved UNITED Fire Systems NITROGEN-PAC™ Model SC-W** is a completely self-contained nitrogen-based sprinkler corrosion inhibiting system. The unit is factory assembled and tested, and is ready for connection to sprinkler system riser(s). The system contains an air compressor, filters, and a membrane device to perform nitrogen separation. The system provides dry air for system initial-fill and nitrogen for filling the interior of a dry or preaction sprinkler system with nitrogen at 98% or greater purity.

SC-W Cabinet

See **Figure 1.** The **Model SC-W** Cabinet contains the basic hardware for proper nitrogen generation, a manually-operated valve for directing the air compressor output to the nitrogen generation system or sending compressed air directly to the cabinet outlet, and manual adjustments for commissioning. See **Table 3** for features included in Model **SC-W** systems.

SC-W Nitrogen Receiver

Each **Model SC-W** system requires one of two compatible nitrogen receivers: **UNITED Fire Systems Model NR-5** or **NR-10**. This provides a reservoir of nitrogen, and reduces the number of compressor starts and the total compressor run time. This lengthens the life of the compressor and reduces utility and maintenance costs.

Specifications

System Sizing – See **Table 1**. Component Dimensions and Weights – See **Table 2**.

IMPORTANT

UNITED Fire Systems recommends performing an air leakage test on each sprinkler system, and correcting excess leakage, before designing, installing, and commissioning a NITROGEN-PAC[™] Model SC-W system.

UNITED Fire Systems

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- Long-life low maintenance oilless air compressor
- Rugged steel construction
- Built-in active air compressor cooling
- · Built-in particulate and coalescing filters
- Aftercooler with fan and water separator for effective moisture removal
- Single drain connection
- Lift-off door hinge pins for easy removal
- Lift-off door allows mounting anywhere with 6 or more inches of clearance – even directly behind sprinkler riser
- Easy inspection and maintenance
- Reliable, dependable protection that functions as designed
- Expert technical support

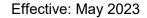


For downloadable architect's specifications and drawing details, go to: unitedfiresystems.com/sc-w

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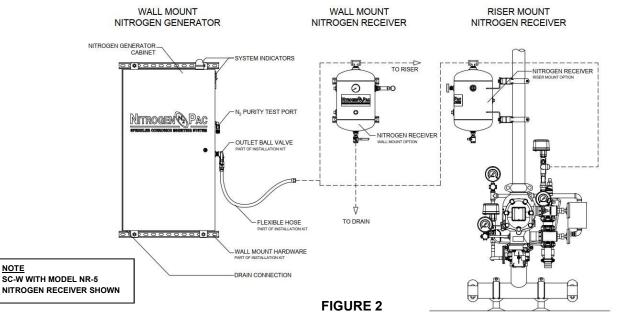








NITROGEN-PAC[™] MODEL SC-W



NITROGEN-PAC™ MODEL SC-W Schematic

Table 1 – System Sizing

	FOR NITROG	EN GENERATION	FOR INITIAL FILL** WITH AIR		
Model No.	Maximum Volume [*] – All	Guideline – Maximum	Maximum Volume – Largest	Maximum Volume – Largest	
	Sprinkler System Risers	Number of Sprinkler Risers	Riser Filled to 20 PSIG	Riser Filled to 40 PSIG	
SC-W	900 Gallons	2	500 Gallons	200 Gallons	

* Maximum volume values are based on sprinkler piping leakage not exceeding NFPA 13– 2016 25.2.2 acceptance requirement of maximum 1-1/2 PSIG air pressure loss in 24 hours starting at 40 PSIG.

** Initial-fill capacity in 30 minutes or less with air per NFPA 13 – 2016 7.2.6.3.2.2

Table 2 – Component Dimensions, Weights, and Current Draw Specification

Item	Height	Width or Diameter	Depth	Approx. Shipping Weight	Approx. Installed Weight	Approx. Current Draw (115 VAC 60 Hz. Single-Phase Three- Wire)
Model SC-W Cabinet	42 in.	24 in.	8.5 in.	150 lbs.	125 lbs.	6 A

Table 3 – Ordering Information

P/N	Data Sheet	Includes		
	UFS-600C	Model SC-W Cabinet – 115 VAC 60 Hz Single-Phase – FM Approved		
SC-W	0F3-0000	Model SC-W Installation, Commissioning, Operation Manual		
	UFS-316B	Model NA-2 Hand-Held Nitrogen Analyzer		
NR-5	UFS-313D	Model NR Nitrogen Receiver – Wall- or Riser-Mount		
NR-10	UFS-313F	Model NR Nitrogen Receiver – Floor-Mount		
NAMD-1	UFS-318B	Model NAMD-1 Nitrogen / Air Maintenance Device – FM Approved		
PVA-4	UFS-314D	Model PVA Purge Vent Assembly – Manual Purity Checking		
PVA-2	01-3-3140	Model PVA Purge Vent Assembly – For Use with Model TAP-G3		
TAP-G3	UFS-317B	Model TAP-G3 TRUE ADVANCED PURGE™ (TAP) Device		
CMA-1 UFS-315A		Model CMA-1 Corrosion Monitor Assembly		

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