

## Miscellaneous Products

The information in this catalog section pertains to important cable pressurization products, books and training aids that do not logically fit into any of the other product sections of this book. Additional information about these items, including pricing and availability, can be obtained by contacting System Studies Incorporated or your product procurement staff.

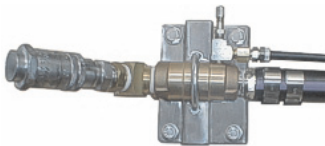
### 9800-0911 Miscellaneous Products, 0911 Emergency Air Dryer



The 0911 Emergency Air Dryer is a portable, light weight air dryer assembly that works in conjunction with the 0911 Emergency Air Dryer Protection System design. Its 3-component air filtering assembly and membrane drying cylinder clean and dry air supplied by a commercial air compressor, such as an Ingersol-Rand. The compressor and emergency air dryer make it possible to supply continuous filtered, dry air to central office air pipes and cables if C.O. air dryers fail due to natural or man-made disasters. The product can be set up for operation at a designated location outside of the central office.

The unit is mounted to a sturdy hand truck with standard toe plate and stair climber. It includes air input shutoff valve, filter assembly, membrane dryer, control panel assembly (with compressor input pressure gauge, output pressure gauge and flow gauge), and 30 feet of 3/4-inch output tubing. The entire assembly weighs less than 70 pounds and can be transported and placed into operation by one technician. Supplies dryer air to central office panels at up to 60 pounds per square inch (PSI). Does not require electrical pairs.

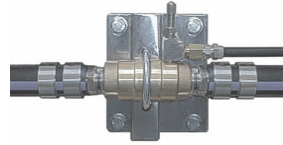
### 9800-0901 Miscellaneous Products, Emergency Air Feeder Assembly



Designed for utility hole or central office exterior installations, the 9800-0901 Emergency Air Feeder Assembly provides the means of hooking up the 3/4" pressure tubing from the 0911 Emergency Air Dryer.

The hardware assembly consists of a dryer input fitting, check valve, pressure testing valve, and bleeder vent (3/8" plastic tubing). A stainless steel mounting bracket provides a convenient means of mounting the unit to a flat vertical or horizontal surface. Two or more Emergency Air Feeder Assemblies installed at different locations in the field provide multiple options for quick dryer setup and emergency air pressure response.

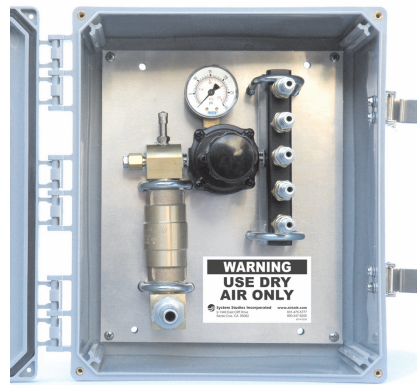
### 9800-0902 Miscellaneous Products, Emergency Air Receiver Assembly



The 9800-0902 Emergency Air Receiver Assembly, designed for C.O. installations provides the means for hooking up the one inch feeder air pipe from the field to the central office

panel equipment manifold. The unit includes a check valve to prevent leakage if the one inch pipe breaks. A 3/8" tubing connector fitting provides the means of hooking up a pressure tube from the office distribution panel to prevent moisture build-up in the feeder pipe. A 20 SCFH flow limiter in the 3/8" tubing connector prevents a major central office drain if a leak were to occur in the one inch pipe. A stainless steel mounting bracket is included to provide a means of mounting the unit to a flat vertical surface on the field side of the C.O. manifold near the distribution panel.

### 9800-0905 Miscellaneous Products, Emergency Air Delivery Access Cabinet (EADA)



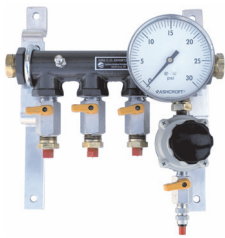
The Emergency Air Delivery Access Cabinet is a rugged, hinged plastic enclosure designed for installation on an accessible exterior central office wall. It offers an outside access point for emergency CO panel air delivery. The cabinet contains an Emergency Air Feeder Assembly (P/N 9800-0901),

which includes fittings to accommodate incoming air feed from a System Studies 911 Emergency Air Dryer (P/N 9800-0911), a portable nitrogen tank, or a maintenance truck air tool (five automotive interchange coupler plugs provided, each with a check valve). The Emergency Air Feeder Assembly also includes a 0-30 psi gauge and pressure regulator to adjust delivery pressure for the truck air tool hookups.

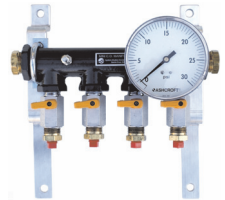
Air delivery from the cabinet to the central office panels is achieved using one inch nyla-braid poly (PVC) tubing (not supplied). The one inch tubing is connected to the Emergency Air Feeder Assembly through the back of the cabinet via a 3/4" NPT-M barbed connector fitting (P/N 6240-0009). The one inch tubing is routed through the exterior and interior walls of the CO to the central office manifold.

The Emergency Air Delivery Access Cabinet is supplied with four 1/4" holes on the back so that it can be mounted to a vertical wall surface.

**9800-5422** Miscellaneous Products, Mini CO Manifold w/reg  
**9800-5429** Miscellaneous Products, Mini CO Manifold



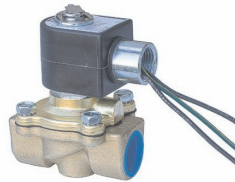
A smaller option to the 9800-5432 Balance Manifold, the 9-inch wide, 2-inch diameter air dryer balance manifold has two plugged 3/4" end inlets and four downward facing ports with shutoff valves. Also included is a large-face 0-30 psi pressure gauge and a standard tank valve. The Mini CO Manifold has two optional specifications for the four downward facing ports.



**9800-5422** Includes 3 downward facing 1/4" NPT-F ports and one pressure regulator with 3/8" tubing connector.

**9800-5429** Includes 4 downward facing 1/4" NPT-F ports.

**9800-0550** Miscellaneous Products, Purge Valve Assembly, Replacement



This Purge Valve replacement is designed for use in all McIntire XE water-sealed dryers. This System Studies version offers superior functional performance and significantly extends the interval between required maintenance of the OEM valve. It includes the 3/4" NPT Brass Control Valve and Control Valve Solenoid.

**9900-1500** Miscellaneous Products, Purge Valve Service Kit

This rebuild kit for the Purge Valve Assembly (9800-0550) is offered to extend the life of a System Studies Purge Valve installed in the McIntire XE Series water sealed air dryer. Our suggested rebuild times are every two years, based on quarterly inspection evaluation.

**6550-0004** Miscellaneous Products, 0-30 PSI Air Pressure Regulator



This high quality, non-relieving 0-30 psi pressure regulator is a key component on all of System Studies' Pipe Panels and Distribution Panels, both digital and non-digital. It is also used on the Emergency Air Delivery Access (EADA) Cabinet and other air delivery products supplied by System Studies Incorporated.

The product offers high accuracy and fine adjustment sensibility for maintaining the desired air delivery pressure. Its rugged construction incorporates a cast aluminum housing which is finished with black vinyl paint to resist scratches, weathering and potential damage from challenging environmental conditions. The use of quality materials, inside and out, ensure trouble-free, precision operation. Input and output ports are 1/4" NPT-Female.

**9800-0915** Miscellaneous Products, EADA 3-Port Air Tool Hookup Extender

The 3-Port Air Tool Hookup Extender provides the ability to add three additional maintenance truck air tool connections when supplying air delivery to CO panels via the Emergency Air Delivery Access Cabinet. Included with P/N 9800-0915 is a 3-port cross adapter equipped with three 1/4-inch NPT-M automotive interchange coupler plugs, 25 feet of flexible 5/8" nyla braid tubing, and a 3/4-inch industrial quick-connect air fitting coupler, which attaches to the large coupler plug in the EADA cabinet. Also included are three replacement 1/4-inch NPT-M industrial interchange coupler plugs for maintenance trucks that require this type of coupler.

**TRAINING-RELATED ITEMS**

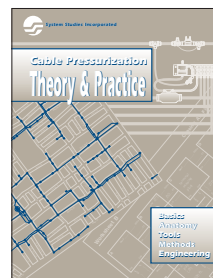
**9800-1100** Miscellaneous Products, Theory & Practice Package for Training Class



This training package consists of a *Cable Pressurization Theory & Practice* Book, a set of Leak Locating Worksheets, a solar-powered calculator, Pocket Pressurization Calculator

Card and Cable Identification card.

**9800-1125** Miscellaneous Products, Cable Pressurization Theory & Practice Book



System Studies' 300-page cable pressurization reference book is possibly the most comprehensive resource for cable pressurization ever compiled into one volume. It provides detailed information on the following topics: The Basics of Pressure, Tools of the Trade, System Anatomy, Engineering, and Maintenance & Repair. This invaluable field guide and resource is also

offered with each of the System Studies Training classes.

**9800-1900** Miscellaneous Products, Solar Cell Calculator



This small pocket calculator card, which is included with the Part No. 9800-1100 Training Class package, can also be purchased separately. It measures approximately 4 1/2" by 2 5/8" by 1/4" and is supplied with a protective vinyl case.

**9800-1901 Miscellaneous Products, Pocket Pressurization Calculator Card**

**ZERO LEAK PROJECTION**  
 • Gives Area of Search.

**BACK PROJECTION**  
 • Single feed only.  
 • Must do 23.2" feed.  
 • Gives exact location of leak.

**CALCULATING AIR FLOW (CFM)**  
 • How much air is going where?

**PULP CABLE RESISTANCE**

NUMBER OF PARS	19	22	24	26
3000	0.8	0.9	1.0	1.1
2000	0.6	0.7	0.8	0.9
1500	0.4	0.5	0.6	0.7
1000	0.3	0.4	0.5	0.6
500	0.2	0.3	0.4	0.5
200	0.1	0.2	0.3	0.4
100	0.05	0.1	0.15	0.2
50	0.02	0.05	0.07	0.1
25	0.01	0.02	0.03	0.05

**PIC CABLE RESISTANCE**

NUMBER OF PARS	19	22	24	26
3000	0.1	0.1	0.1	0.1
2000	0.1	0.1	0.1	0.1
1500	0.1	0.1	0.1	0.1
1000	0.1	0.1	0.1	0.1
500	0.1	0.1	0.1	0.1
200	0.1	0.1	0.1	0.1
100	0.1	0.1	0.1	0.1
50	0.1	0.1	0.1	0.1
25	0.1	0.1	0.1	0.1

Log onto our Website: [www.aif-stall.com](http://www.aif-stall.com)

One of the most important leak locating aids provided in System Studies' Training Classes is the Pocket Pressurization Calculator Card. This durable, water-resistant reference card includes pneumatic resistance charts for the most common PIC

and pulp cables, plus the following leak locating formulas: Zero Leak Projection, Back Projection, and Air Flow Calculation.

**9800-1902 Miscellaneous Products, Pocket Cable Identification Card**

**Calculating a Leak Location in a Dual Feed Pressure System**

**Cable Identification Chart**

**ADML**

**1st Letter** - Not needed for pneumatic resistance.

**2nd Letter** - Identifies the type of insulation. In the case of the equation in part 1.

**3rd Letter** - Denotes the gauge size of the conductor. "R" represents copper with a 24 gauge.

**4th Letter** - Specifies the sheath type. In the equation, the sheath is "R".

**Number** - Indicates number of cable pairs x 100. Cable with less than 100 pairs use the actual pair quantity (i.e. 10 pairs).

FIRST LETTER (Insulation)	SECOND LETTER (Conductor)	THIRD LETTER (Sheath)	FOURTH LETTER (Gauge)
A	P	C	1
B	P	C	12
C	P	C	16
D	P	C	18
E	P	C	20
F	P	C	22
G	P	C	24
H	P	C	26
I	P	C	28
J	P	C	30
K	P	C	32
L	P	C	34
M	P	C	36
N	P	C	38
O	P	C	40
P	P	C	42
Q	P	C	44
R	P	C	46
S	P	C	48
T	P	C	50
U	P	C	52
V	P	C	54
W	P	C	56
X	P	C	58
Y	P	C	60
Z	P	C	62

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Another important leak locating tool, the Pocket Cable Identification Card provides the information needed to determine the type of insulation, conductor material and gauge, and sheath designation of most types of telephone cables.

Once this information is known, it is possible to use the charts on the Part No. 9800-1901 Pocket Pressurization Calculator Card to determine a cable's pneumatic resistance. The backside of this water repellent card contains a formula for calculating the location of a leak in a section of dual-fed cable, based on pressure drop and distance measurements.

