Features

Proper conditioning of compressed air is essential to ensure maximum performance and service life for pneumatic power tools and equipment. The small initial investment for installation of air preparation units in an air line system will pay long-term dividends in increased productivity, consistent quality and decreased maintenance costs.
Ingersoll-Rand's extensive line of air line filters, regulators and lubricators, including individual units, piggyback and combos, have been designed to meet every air preparation requirement.



C28121-800

Filters

Ingersoll-Rand compressed air filters are designed to remove airborne solid and liquid contaminates which may plug small orifices and hinder performance, or cause excessive wear and premature equipment failure. Several filter elements are offered, including models with coalescing elements for removal of oil aerosols and particles down to .3 micron.

- Available pipe sizes from 1/8" thru 2" NPT



C28221-810

Regulators

Ingersoll-Rand air line regulators provide controlled, consistent air pressure as required for specific pneumatic equipment when connected to the complete compressed air system.

- Available pipe sizes from 1/8" thru 1-1/2" NPT
- Flows to 440 CFM
- Maximum Inlet pressures to 250 PSIG

F-R-L Product Selection

When selecting an FRL or individual filter, regulator and lubricator units, the air consumption of the tools or equipment to be serviced should be correlated with the flow capacity of the FRL. Please reference flow capacity chart below.



C28453-810

Series	Net Port Size	FLOW CAPACITY (CFM)					Pressure Range PSIG
		Filter (Particulate)	Filter (Coalescing)	Regulator	Piggy Back	Lubricator	
Module	1/8"	28	15	13	12	41	0-125
Air 1000	1/4"	38	17	13	12	60	0-125
Module/	1/4"	54	40	100	93	75	0-200
Air 2000	3/8"	100	51	135	135	100	0-200
	1/2"	122	53	140	140	110	0-200
Super-Duty	3/4"	345	50	180	–	150	0-250
	1"	345	150	200	–	300	0-250

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Ordering

Standard Filters

Designed to remove rust, scale, condensed water and other debris from compressed air lines which may cause wear and premature failure of tools, valves, cylinders and other penumatic equipment.

Port Size	Model	Filter Element	Flow* cfm	Bowl	Bowl Size	Drain	Max. Inlet Pressure
1/8" & 1/4" Port - ARO Module/Air 1000 Series							
1/8"	**F25111-200**	20 Micron	28	Polycarbonate/Guard	1.0 oz.	Manual	200 PSIG
1/4"	**F25121-200**	20 Micron	38	Polycarbonate/Guard	1.0 oz.	Manual	200 PSIG
1/4" & 3/8" & 1/2" Port - ARO Module/Air 2000 Series							
1/4"	**F25221-110**	40 Micron	54	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
3/8"	**F25231-110**	40 Micron	100	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
1/2"	**F25241-110**	40 Micron	122	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
3/4" & 1" Port - ARO Super-Duty Series							
3/4"	**F25451-020**	40 Micron	345	Metal w/sight glass	32 oz.	Manual	250 PSIG
1"	**F25461-020**	40 Micron	345	Metal w/sight glass	32 oz.	Manual	250 PSIG

* Air Flow is at 90 PSI Inlet and 5 PSI pressure drop.





F25121-200

Coalescing Filters

Designed for paint spraying, instrumentation, controls and other applications where the delivered air must be free of oil and fine particles. Effective in removing 99.9% of oil aerosols. Also effective in removing debris particles down to .3 micron. Recommended for use in conjunction with an upstream filter to maximize the life of replacement element.

Port Size	Model	Filter Element	Flow* cfm	Bowl	Bowl Size	Drain	Max. Inlet Pressure
1/8" & 1/4" Port - ARO Module/Air 1000 Series							
1/8"	**F25111-300**	Coalescing	15	Polycarbonate	1.0 oz.	Manual	200 PSIG
1/4"	**F25121-300**	Coalescing	17	Polycarbonate	1.0 oz.	Manual	200 PSIG
1/4" & 3/8" & 1/2" Port - ARO Module/Air 2000 Series							
1/4"	**F25221-310**	Coalescing	40	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
3/8"	**F25231-310**	Coalescing	51	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
1/2"	**F25241-310**	Coalescing	53	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
3/4" & 1" Port - ARO Super-Duty Series							
3/4"	**F25452-310**	Coalescing	50	Metal w/sight glass	32 oz.	Manual	250 PSIG
1"	**F25462-310**	Coalescing	150	Metal w/sight glass	32 oz.	Manual	250 PSIG

* Air Flow is at 90 PSI Inlet and 5 PSI pressure drop.



F25221-110



F25451-020

Accessories

Part Number	Description
ARO Module/Air 1000 Series	
29660-2	20 Micron Element
29586	Coalescing Element
104257	Service Kit
104264	Auto Drain Kit
104258	Polycarbonate Bowl
104259	Composite Bowl

Part Number	Description
ARO Module/Air 2000 Series	
100031-1	40 Micron Element
100032	Coalescing Element
104068	Auto Drain Kit
104204	Metal w/sight glass
104176	Service Kit
ARO Super/Duty Series	
104119	40 Micron Element
10423	Coalescing Element
104116	Service Kit
104068	Auto Drain
104163	Sight Glass Kit

Ordering

Piggyback Filter/Regulators

Combined air filtration and regulation in a single, compact unit. Saves space for added system design flexibility. Piggyback Filter Regulators supplied with pressure gauge.

Port Size	Model	Pressure Range	Filter Element	Flow* cfm	Bowl	Bowl Size	Drain	Max. Inlet Pressure
1/8" & 1/4" Port - ARO Module/Air 1000 Series								
1/8"	**P29112-600**	5-125 PSIG	20 Micron	12	Polycarbonate/Guard	1.0 oz.	Manual	200 PSIG
1/4"	**P29122-600**	5-125 PSIG	20 Micron	12	Polycarbonate/Guard	1.0 oz.	Manual	200 PSIG
1/4" & 3/8" & 1/2" Port - ARO Module/Air 2000 Series								
1/4"	**P29221-610**	5-125 PSIG	40 Micron	93	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
3/8"	**P29231-610**	5-125 PSIG	40 Micron	135	Metal w/sight glass	6.0 oz.	Manual	175 PSIG
1/2"	**P29241-610**	5-125 PSIG	40 Micron	140	Metal w/sight glass	6.0 oz.	Manual	175 PSIG

* Air Flow is at 90 PSI Inlet and 5 PSI pressure drop.



P29122-600 P29221-610

Accessories

ARO Module/Air 2000 FRL Components

A. Threaded Pipe Adapters - Model 104168 ( )

Pipe adapters allow a single component or assembled combo to be removed for service without distrubing hard piping. Also allows for different pipe diameters (in and out) in the plumbing installation. Kit includes two adapters and two spacer kits.

Port Size	Model
1/4"	**104168-2**
3/8"	**104168-3**
1/2"	**104168-4**
3/4"	**104168-5**



B. Safety Shutoff, Lockout Valve - Model 104174 ( )

Exhaust-type safety shutoff valve can be used in either amodular arrangement, with out FRL's or as a stand alone unit. Should be installed upstream from the FRL, and is ideal for isolating and depressurizing a downstream unit requiring maintenance. Valve may be locked in the exhaust position.

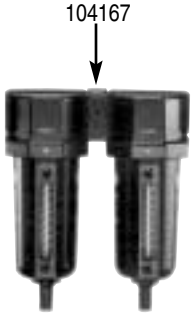
Port Size	Model
1/4"	**104174-2**
3/8"	**104174-3**
1/2"	**104174-4**



104174-2

C. Modular Spacer Kit - Model 104167

One spacer kit is required to connect any two components or accessories. Kit includes the spacer block, two clamps and two O-rings. Fits all port sizes.



D. T-Type Wall Mounting Bracket - Model 104171

T-Type Brackets provide heavy duty wall mounting of a single unit or multiple units in a modular arrangement. Kit includes a spacer, bracket and clamp.



E. Modular Manifold Block - Model 104170

Provides four additional 1/4" NPT ports for greater circuit design flexibility. Kit includes manifold, two spacer kits and three hole plugs.



104170

F. Wall Mounting Kit - Model 104172

May be used to mount FRL combo units which include a regulator, "Piggyback" Filter/Regulator units, or individual regulators. Kit includes Model 29623 Bracket and Model 104173 Panel Mounting Nut. Bracket and Nut may be ordered individually.



104172