

## Filter-Regulator-Lubricator

Combination units in ports sizes from 1/8" to 1-1/2".

<b>07 Series Filter-Regulator-Lubricator</b>	
Combination Units 1/8" and 1/4" port sizes	.....ALE-22-2
<b>Excelon 72 Filter-Regulator-Lubricator</b>	
Combination Units 1/4" and 3/8" port sizes	.....ALE-22-4
<b>Excelon 73 Filter-Regulator-Lubricator Combination</b>	
Units 1/4", 3/8", and 1/2" port sizes	.....ALE-22-8
<b>Excelon 74 Filter-Regulator-Lubricator Combination</b>	
Units 3/8", 1/2", and 3/4" port sizes	.....ALE-22-12
<b>17 Series Filter-Regulator-Lubricator Combination</b>	
Units 3/4", 1", 1-1/4", and 1-1/2" Port Sizes	.....ALE-23-16
<b>Olympian 64 Filter-Regulator-Lubricator Combination</b>	
Units 1/4, 3/8", 1/2", and 3/4" Port Sizes	.....ALE-22-18



**07 Series  
F-R-L**



**72 Series  
F-R-L**



**73 Series  
F-R-L**



**74 Series  
F-R-L**



**64 Series  
F-R-L**



**17 Series  
F-R-L**

## P1A Combination Unit

### 07 Series Filter-Regulator-Lubricator 1/8" and 1/4" Port Sizes

- **Compact design**
- **Filter removes liquids and solid particles down to 5 µm**
- **Push to lock adjusting knob with tamper resistant option**
- **Micro-Fog lubricator provides air line lubrication to one or more air driven tools or other devices**
- **Nearly constant oil density output with varying air flow**
- **Can be disassembled without the use of tools or removal from the air line**



**Ordering Information.** Models listed include PTF threads, transparent bowls, filter with automatic drain, 5 µm element; regulator with relieving diaphragm, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range\*, gauge; lubricator with manual drain.

Port Size	Model Numbers	Weight lbs (kg)
1/8"	P1A-100-A1AA	1.17 (0.53)
1/4"	P1A-200-A1AA	1.17 (0.53)

#### Alternative Models

P 1 A - ★ ★ ★ - ★ ★ ★ ★

Port Size	Substitute
1/8"	1
1/4"	2

Filter Bowl	Outlet Pressure Adjustment Range*		Relief Type	Gauge	Substitute
	psig	bar			
Transparent	5 to 100	0.3 to 7	Relieving	With	00
Transparent	5 to 100	0.3 to 7	Relieving	Without	01
Transparent	5 to 100	0.3 to 7	Non-relieving	Without	02
Transparent	5 to 100	0.3 to 7	Non-relieving	With	03
Transparent	5 to 50	0.3 to 3.5	Relieving	Without	04
Transparent	5 to 50	0.3 to 3.5	Relieving	With	05
Transparent	5 to 50	0.3 to 3.5	Non-relieving	Without	06
Transparent	5 to 50	0.3 to 3.5	Non-relieving	With	07
Metal / no sight glass	5 to 100	0.3 to 7	Relieving	With	40
Metal / no sight glass	5 to 100	0.3 to 7	Relieving	Without	41
Metal / no sight glass	5 to 100	0.3 to 7	Non-relieving	Without	42
Metal / no sight glass	5 to 100	0.3 to 7	Non-relieving	With	43
Metal / no sight glass	5 to 50	0.3 to 3.5	Relieving	Without	44
Metal / no sight glass	5 to 50	0.3 to 3.5	Relieving	With	45
Metal / no sight glass	5 to 50	0.3 to 3.5	Non-relieving	Without	46
Metal / no sight glass	5 to 50	0.3 to 3.5	Non-relieving	With	47

Threads	Substitute
PTF	A
ISO Rc taper	B
ISO G parallel	G

Lubricator Reservoir	Substitute
Transparent with drain	A
Transparent without drain	Q
Metal with drain	M
Metal without drain	F

Filter Element	Substitute
5 µm	1
100 µm	5

Filter Drain	Substitute
Automatic	A
Manual	M

\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**See Section ALE-25 for Accessories**



## Technical Data

Fluid: Compressed air

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature\*

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 150°F (-20° to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

## Filter

Partial removal: 5 µm or 40 µm. Within ISO 8573-1, Class 3 and Class 5

Automatic drain operation: Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

## Regulator

Recommended regulating pressure ranges†:

5 to 100 psig (0.3 to 7 bar) standard

5 to 50 psig (0.3 to 3.5 bar) optional

† Outlet pressures can be adjusted to pressures in excess of, and less than those specified.

Do not use these units to control pressures outside of the specified ranges.

Gauge ports:

1/8" PTF with PTF main ports

1/8" ISO Rc with ISO Rc main ports

1/8" ISO Rc with ISO G main ports

## Lubricator

Start point (i.e. minimum flow required for lubricator operation): 0.5 scfm (0.24

dm³/s) at 90 psig (6.3 bar) inlet pressure

Nominal bowl size: 1 fluid ounce (31 ml)

Recommended lubricants: See Section ALE-29.

Materials

Bodies: Zinc

Filter/Regulator bonnet: Acetal

Filter/Regulator valve: Brass/nitrile

Filter/Regulator valve seat: Acetal

Bowls

Transparent: Polycarbonate

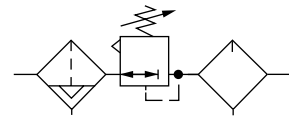
Metal: Zinc

Lubricator sight-feed dome: Transparent nylon

Filter element: Sintered polypropylene

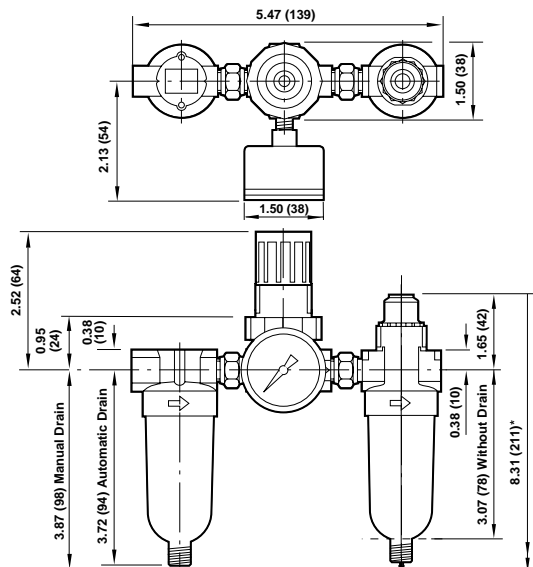
Elastomers: Nitrile

## ISO Symbols



Filter with automatic drain, relieving regulator, lubricator with manual drain.

All Dimensions in Inches (mm)



\* Minimum clearance to remove bowl.

\*\* Use 2" (51 mm) long screws, 5/32" diameter, to mount PTA Unit to wall.

- **True modularity with Norgren Quikclamp™ connections**
- **Quick release bayonet bowl**
- **Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows**
- **All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment**
- **Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure**

Use Micro-Fog models in applications containing one or more points of lubrication.

Use Oil-Fog models to lubricate a single tool, cylinder, or other air driven device.

### Technical Data

Fluid: Compressed air

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl (Manual or semi automatic drain): 250 psig (17 bar)

Automatic drain: 150 psig (10 bar)

Operating temperature\*

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 150°F (-20° to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal: 5 µm, 25 µm, or 40 µm filter element

Manual drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Semi automatic drain connection: Push on 5/16" (8 mm) ID tube

Semi automatic drain operating conditions (pressure operated)

Bowl pressure required to close drain: Greater than 1.5 psig (0.1 bar)

Bowl pressure required to open drain: Less than 1.5 psig (0.1 bar)

Minimum air flow required to close drain: 1 scfm (0.5 dm³/s)

Manual operation: Lift stem to drain bowl

Automatic drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain operating conditions (float operated)

Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)

Bowl pressure required to open drain: Less than 3 psig (0.2 bar)

Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl

Nominal bowl size

Short bowl: 1.9 fluid ounce (56 ml)

Long bowl: 2.2 fluid ounce (65 ml)

Gauge ports: 1/8 PTF with PTF main ports

Rc1/8 with ISO Rc main ports

Rc1/8 with ISO G main ports

Recommended lubricants: See Section ALE-29.

Materials

Body: Zinc

Bonnet: Acetal

Regulator valve: Brass

Regulator bottom plug: Acetal

Bowl

Transparent: Polycarbonate

Transparent with guard: Polycarbonate, zinc guard

Metal: Zinc

Metal bowl liquid level indicator lens: Transparent nylon

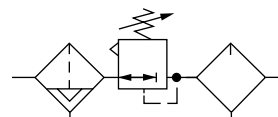
Sight-Feed dome: Transparent nylon

Element: Sintered polypropylene

Elastomers: Neoprene, nitrile



### ISO Symbols



Filter with automatic drain, relieving regulator,  
lubricator with manual drain.

**See Section ALE-25 for Accessories**



**Ordering information.** Models listed include PTF threads. Filter (F) includes automatic drain, long transparent bowl without guard, and a 40µm element. Regulator (R) is relieving type with knob adjustment, 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and long transparent bowl without guard.

Combination Unit Type	Port Size	Model	Weight lb (kg)
Filter-Regulator-Lubricator (F-R-L)	1/4"	C72A-2AK-AL3-RMG-QLN	3.23 (1.47)
	3/8"	C72A-3AK-AL3-RMG-QLN	3.23 (1.47)

### Alternative Models

★ 7 2 ★ - ★ ★ ★ - ★ ★ ★ - ★ ★ ★ - ★ ★ ★

Shutoff/Lockout Valve, Quikmount	Substitute	Accessories	Substitute
Standard Combination (No Shutoff/Lockout Valve, no Quikmount)	C	Quikclamp wall brackets	B
With Shutoff/Lockout valve on inlet	D	No accessories	N
With Quikmount pipe adapters on inlet and outlet	E	Lubricator Bowl	Substitute
With Shutoff/Lockout Valve on inlet and Quikmount pipe adapter on outlet	G	Short metal with liquid level indicator	D
		Long metal with liquid level indicator	E
		Short transparent without guard	T
		Long transparent without guard	L
		Long transparent with guard	W
Combination Unit Type	Substitute	Lubricator Drain	Substitute
Micro-Fog F-R-L	A	Closed bottom	E
Oil-Fog F-R-L	B	Manual, 1/4 turn	Q
Port Size	Substitute	Regulator Gauge	Substitute
1/4"	2	With gauge	G
3/8"	3	No gauge	N
Threads	Substitute	Regulation spring **	Substitute
PTF	A	5 to 30 psig (0.3 to 2 bar)	C
ISO Rc taper	B	5 to 60 psig (0.3 to 4 bar)	F
ISO G parallel	G	5 to 150 psig (0.3 to 10 bar)	M
Pressure Adjustment	Substitute	Regulator Diaphragm	Substitute
Knob	K	Non-relieving	N
T-bar	T	Relieving	R
Filter Drain	Substitute	Filter Element	Substitute
Automatic †	A	5 µm	1
Manual, 1/4 turn	Q	25 µm	2
Semi automatic	S	40 µm	3
Filter Bowl	Substitute		
Short metal with liquid level indicator	D		
Long metal with liquid level indicator	E		
Short transparent without guard	T		
Long transparent without guard	L		
Long transparent with guard	W		

\*\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Supplied in long bowl options only.

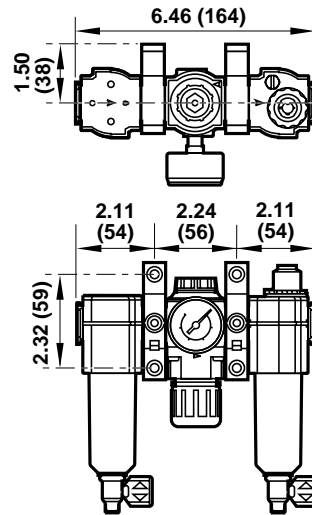


## F72G-R72-L72 Combination Unit

All Dimensions in Inches (mm)

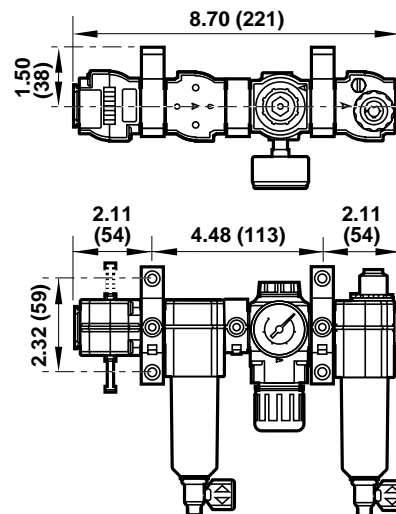
### Standard Micro-Fog Type C72A- Standard Oil-Fog Type C72B-

Shown with optionala Quikclamp wall  
bracket.



### Alternative Micro-Fog Type D72A- Alternative Oil-Fog Type D72B- Includes Shutoff/Lockout valve.

Shown with optional Quikclamp wall  
brackets.



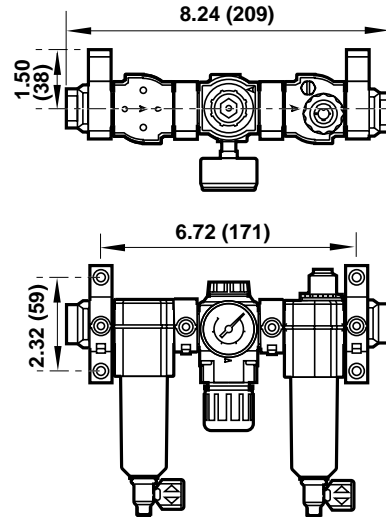
## F72G-R72-L72 Combination Unit

All Dimensions in Inches (mm)



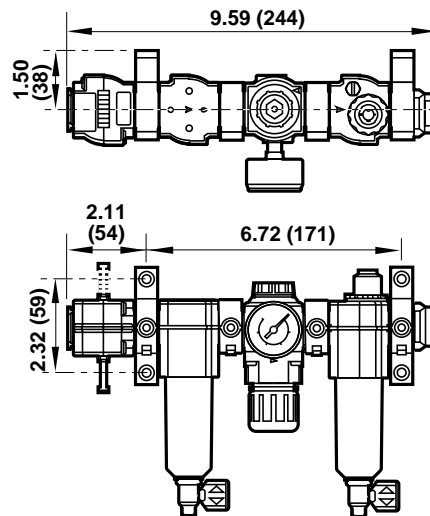
**Alternative Micro-Fog Type E72A-  
Alternative Oil-Fog Type E72B-  
Includes Quikmount pipe adapters.**

Shown with optional gauge and  
Quikclamp wall brackets.



**Alternative Micro-Fog Type G72A-  
Alternative Oil-Fog Type G72B-  
Includes Shutoff/Lockout valve and Quikmount pipe adapter.**

Shown with optional gauge and  
Quikclamp wall brackets.



## F73G, R73, L73 Combination Units

Excelon 73 Filter-Regulator-Lubricator  
1/4", 3/8", 1/2" Port Sizes

- True modularity with Norgren Quikclamp™ connections
- Quick release bayonet bowl
- Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows
- All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment
- Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure

Use Micro-Fog models in applications containing one or more points of lubrication.

Use Oil-Fog models to lubricate a single tool, cylinder, or other air driven device.



### Technical Data

Fluid: Compressed air

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature\*

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 175°F (-20° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal: 5 µm, 25 µm, or 40 µm filter element

Manual drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain operating conditions (float operated)

Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)

Bowl pressure required to open drain: Less than 3 psig (0.2 bar)

Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl

Nominal bowl size: 3.5 fluid ounce (0.1 liter)

Gauge ports:

1/4 PTF with PTF main ports

ISO Rc1/4 with ISO Rc main ports

ISO Rc1/8 with ISO G main ports

Recommended lubricants: See Section ALE-29.

Materials

Body: Aluminum

Bonnet: Aluminum or Zinc

Regulator valve: Brass

Regulator bottom plug: Acetal

Bowl

Transparent: Polycarbonate

Transparent with guard: Polycarbonate, steel guard

Metal: Aluminum

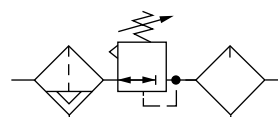
Metal bowl liquid level indicator lens: Transparent nylon

Sight-Feed dome: Transparent nylon

Element: Sintered plastic

Elastomers: Neoprene and nitrile

### ISO Symbols



Filter with automatic drain, relieving regulator,  
lubricator with manual drain.

See Section ALE-25 for Accessories





## Ordering information

Models listed in order table have PTF threads. Filter (F) has automatic drain, metal bowl with liquid level indicator, and a 40 µm element.

Regulator (R) has knob adjustment, relieving diaphragm, 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with liquid level indicator.

Combination Unit Type	Port Size	Model	Weight lb (kg)
Filter-Regulator-Lubricator (F-R-L)	1/4"	C73A-2AK-AD3-RMG-QDN	4.36 (1.98)
	3/8"	C73A-3AK-AD3-RMG-QDN	4.36 (1.98)
	1/2"	C73A-4AK-AD3-RMG-QDN	4.36 (1.98)

## Alternative Models

Alternative Models		★	7	3	★	-	★	★	★	-	★	★	★	-	★	★	★	-	★	★	★	-	★	★	★	-	★	★	★
Lockout Valve/ Quikmount		Substitute																											
Standard Combination (No Lockout Valve, no Quikmount)		C																											
With Lockout valve on inlet		D																											
With Quikmount pipe adapters on inlet and outlet		E																											
With Lockout valve on inlet and Quikmount pipe adapter on outlet		G																											
Combination Unit Type		Substitute																											
Micro-Fog F-R-L		A																											
Oil-Fog F-R-L		B																											
Port Size		Substitute																											
1/4"		2																											
3/8"		3																											
1/2"		4																											
Threads		Substitute																											
PTF		A																											
ISO Rc taper		B																											
ISO G parallel		G																											
Pressure Adjustment		Substitute																											
Knob		K																											
T-bar		T																											
Filter Drain		Substitute																											
Automatic		A																											
Manual, 1/4 turn		Q																											
Filter Bowl		Substitute																											
Metal with liquid level indicator		D																											
Transparent with steel guard		P																											
Transparent		T																											
Accessories		Substitute																											
Accessories <b>B</b> and <b>D</b>		A																											
Quikclamp wall brackets		B																											
Accessories <b>B</b> and <b>Q</b>		C																											
Filter service indicator		D																											
Accessories <b>B</b> , <b>D</b> , and <b>Q</b>		H																											
No accessories		N																											
Lubricator quick fill nipple		Q																											
Lubricator Bowl		Substitute																											
Metal with liquid level indicator		D																											
Transparent with guard		P																											
Transparent		T																											
Lubricator Drain		Substitute																											
Closed bottom		E																											
Manual, 1/4 turn		Q																											
Regulator Gauge		Substitute																											
With gauge		G																											
No gauge		N																											
Regulation spring *		Substitute																											
5 to 60 psig (0.3 to 4 bar)		F																											
5 to 150 psig (0.3 to 10 bar)		M																											
10 to 250 psig (0.7 to 17 bar)**		S																											
Regulator Diaphragm		Substitute																											
Non-relieving		N																											
Relieving		R																											
Filter Element		Substitute																											
5 µm		1																											
25 µm		2																											
40 µm		3																											

\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

\*\* Units with 250 psig (17 bar) outlet pressure range are available only with the standard metal bowl.

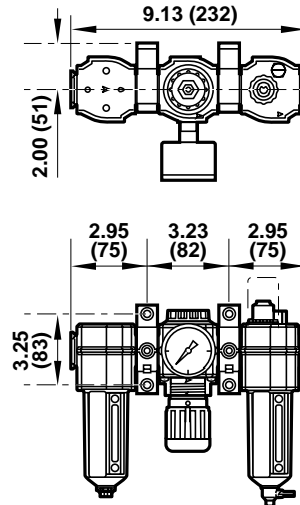


## F73G-R73-L73 Combination Unit

All Dimensions in Inches (mm)

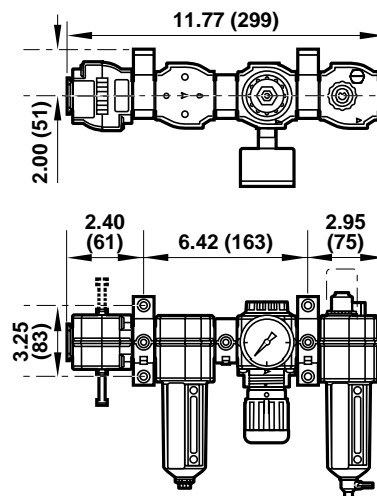
### Standard Micro-Fog Type C73A- Standard Oil-Fog Type C73B-

Shown with optional Quikclamp  
wall bracket.



### Alternative Micro-Fog Type D73A- Alternative Oil-Fog Type D73B- Includes lockout valve.

Shown with optional  
Quikclamp wall bracket.



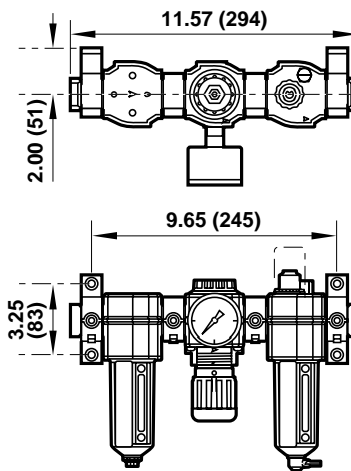
## F73G-R73-L73 Combination Unit

All Dimensions in Inches (mm)



**Alternative Micro-Fog Type E73A-  
Alternative Oil-Fog Type E73B-  
Includes Quikmount pipe adapters.**

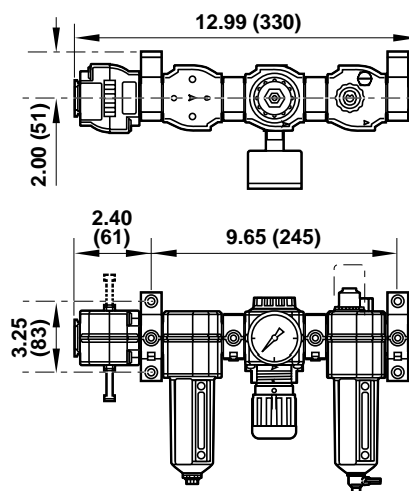
Shown with optional  
Quikclamp wall bracket.



**Alternative Micro-Fog Type G73A-  
Alternative Oil-Fog Type G73B-**

**Includes lockout valve and  
Quikmount pipe adapter.**

Shown with optional  
Quikclamp wall bracket.



## F74G, R74, L74 Combination Units

Excelon 74 Filter-Regulator-Lubricator  
3/8", 1/2", 3/4" Port Sizes

- True modularity with Norgren Quikclamp™ connections
- Quick release bayonet bowl
- Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows
- All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment
- Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure

Use Micro-Fog models in applications containing one or more points of lubrication.

Use Oil-Fog models to lubricate a single tool, cylinder, or other air driven device.



### Technical Data

Fluid: Compressed air

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature\*

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 175°F (-20° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal: 5 µm, 25 µm, or 40 µm filter element

Manual drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain operating conditions (float operated)

Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)

Bowl pressure required to open drain: Less than 3 psig (0.2 bar)

Minimum air flow required to close drain: 2 scfm (1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl

Nominal bowl size:

Standard: 7 fluid ounce (0.2 liter)

Optional size for lubricator: 1 quart US (1 liter)

Gauge Ports:

1/4" PTF with PTF main ports

Rc 1/4 with ISO Rc main ports

Rc 1/8 with ISO G main ports

Recommended lubricants: See Section ALE-29.

Materials

Body: Aluminum

Bonnet: Aluminum

Regulator valve: Brass

Regulator bottom plug: Acetal

Bowl

Transparent: Polycarbonate with steel bowl guard

Metal: Aluminum

Metal bowl liquid level indicator lens:

7 fluid ounce (0.2 liter): Transparent nylon

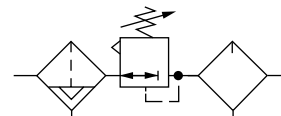
1 quart US (1 liter): Pyrex

Sight-Feed dome: Transparent nylon

Element: Sintered polypropylene

Elastomers: Neoprene and nitrile

### ISO Symbols



Filter with automatic drain, relieving regulator, lubricator with manual drain.

See Section ALE-25 for Accessories



**Ordering information.** Models listed include Micro-Fog lubricator, PTF threads, knob pressure adjustment, metal filter bowl with liquid level indicator and automatic drain, 40 µm filter element, relieving diaphragm, 150 psig (10 bar) regulating spring, gauge, 7 fluid oz. (0.2 liter) metal lubricator bowl with liquid level indicator and 1/4 turn manual drain.

Combination Unit Type	Port Size	Model	Weight lb (kg)
Filter-Regulator-Lubricator (F-R-L)	3/8"	C74A-3AK-AD3-RMG-QDN	6.22 (2.82)
	1/2"	C74A-4AK-AD3-RMG-QDN	6.04 (2.74)
	3/4"	C74A-6AK-AD3-RMG-QDN	5.91 (2.68)

### Alternative Models

★ 7 4 ★ - ★ ★ ★ - ★ ★ ★ - ★ ★ ★ - ★ ★ ★			
Lockout Valve/ Quikmount	Substitute		Accessories
Standard combination (no lockout valve or Quikmount)	C		Quikclamp wall brackets and filter service indicator
With lockout valve on inlet	D		Quikclamp wall brackets
With Quikmount pipe adapters on inlet and outlet	E		Quikclamp wall brackets and lubricator quick fill nipple
With Lockout valve on inlet and Quikmount pipe adapter on outlet	G		Filter service indicator
			Quikclamp wall brackets, filter service indicator and lubricator quick fill nipple
			No accessories
			Lubricator quick fill nipple
Combination Unit Type	Substitute		
Micro-Fog F-R-L	A		
Oil-Fog F-R-L	B		
Port Size	Substitute		Lubricator Bowl
3/8"	3		1 quart US (1 liter) metal with liquid level indicator
1/2"	4		7 fluid oz. (0.2 liter) metal with liquid level indicator
3/4"	6		7 fluid oz. (0.2 liter) transparent with zinc guard
Threads	Substitute		
PTF	A		Lubricator Drain
ISO Rc taper	B		Closed bottom
ISO G parallel	G		Manual, 1/4 turn
			Remote fill ††
Pressure Adjustment	Substitute		
Knob	K		Regulator Gauge
T-bar	T		With gauge
			No gauge
Filter Drain	Substitute		
Automatic	A		Regulation spring **
Manual, 1/4 turn	Q		5 to 60 psig (0.3 to 4 bar)
			5 to 150 psig (0.3 to 10 bar)
Filter Bowl	Substitute		10 to 250 psig (0.7 to 17 bar)†
Metal with liquid level indicator	D		
Transparent with guard	P		Regulator Diaphragm
			Non relieving
Filter Element	Substitute		Relieving
5 µm	1		
25 µm	2		
40 µm	3		

\*\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Units with 250 psig (17 bar) outlet pressure range are available only with the T-bar adjustment; therefore substitute **T** at the 7th position and **S** at the 12th position.

†† Use remote fill only with 7 fluid oz. (0.2 liter) bowls.

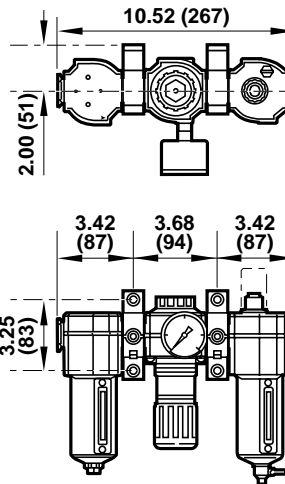


## F74G-R74-L74 Combination Unit

All Dimensions in Inches (mm)

### Standard Micro-Fog Type C74A- Standard Oil-Fog Type C74B-

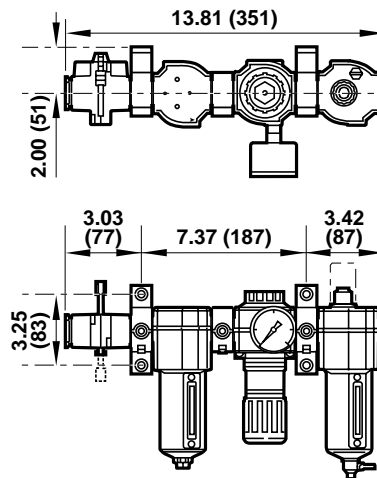
Shown with optional Quikclamp  
wall bracket.



### Alternative Micro-Fog Type D74A- Alternative Oil-Fog Type D74B-

Includes Shutoff/Lockout valve.

Shown with optional Quikclamp wall  
brackets.



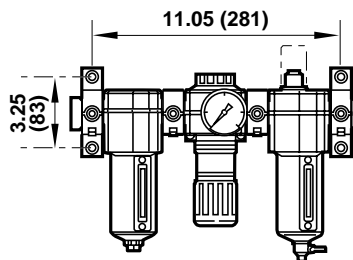
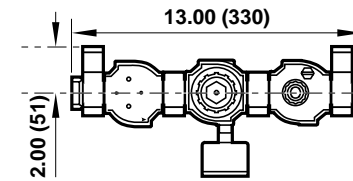
## F74G-R74-L74 Combination Unit

All Dimensions in Inches (mm)



**Alternative Micro-Fog Type E74A-  
Alternative Oil-Fog Type E74B-  
Includes Quikmount pipe adapters.**

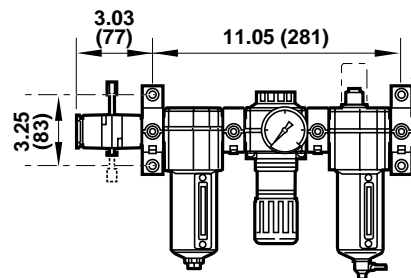
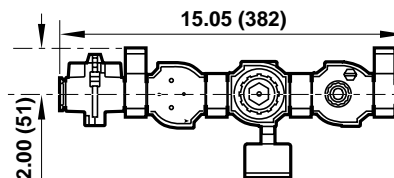
Shown with optional Quikclamp wall brackets.



**Alternative Micro-Fog Type G74A-  
Alternative Oil-Fog Type G74B-**

**Includes Shutoff/Lockout valve  
and Quikmount pipe adapter.**

Shown with optional Quikclamp wall brackets.



## P8A, P8B Combination Units

**17 Series Filter-Regulator-Lubricator**  
**3/4", 1", 1-1/4" and 1-1/2" Port Sizes**

- **Depth type, 40 µm filter element**
- **Balanced regulator valve minimizes effect of changes in inlet pressure on outlet pressure**
- **Low torque, non-rising regulator pressure adjusting knob**
- **All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment**
- **Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows**

Use Micro-Fog combinations in applications containing one or more points of lubrication

Use Oil-Fog combinations to lubricate a single tool, cylinder, or other air driven device



### Technical Data

Fluid: Compressed air

Maximum pressure: 250 psig (17 bar)

Operating temperature\*: 0° to 175°F (-20° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Start point (minimum flow required for lubricator operation): 8 scfm (3.8 dm³/s) at 90 psig (6.3 bar) inlet pressure

Regulator gauge ports:

1/4" PTF with PTF main ports

R1/4 with ISO Rc, ISO G, and BSPP main ports

Nominal bowl size: 1 quart US (1 liter)

Manual drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain operating conditions (float operated)

Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)

Bowl pressure required to open drain: Less than 3 psig (0.2 bar)

Minimum air flow required to close drain: 2 scfm (1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl

Recommended lubricants: See Section ALE-29.

#### Materials

Bodies, bowls, regulator bonnet: Aluminum

Bowl sight glass: Pyrex

Filter element: Sintered bronze

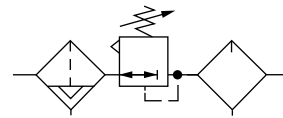
Regulator bottom plug: Acetal

Regulator valve: Aluminum and nylon

Lubricator sight-feed dome: Transparent nylon

Elastomers: Neoprene and nitrile

### ISO Symbols



Filter with automatic drain, relieving regulator, lubricator with manual drain

**See Section ALE-25 for Accessories**





**Ordering Information.** Models listed have PTF port threads. Filters and lubricators have metal bowl with sight glass. Filters have 40 µm element and automatic drain. Lubricators have manual drain. Regulators are relieving type with gauge, knob adjustment, and outlet pressure adjustment range of 5 to 125 psig (0.3 to 8.5 bar)\*.

Port Size	Micro-Fog Models	Oil-Fog Models	Weight lbs (kg)
3/4"	P8A-660-A3DA	P8B-660-A3DA	6.69 (3.03)
1"	P8A-860-A3DA	P8B-860-A3DA	6.29 (2.85)
1-1/4"	P8A-A60-A3DA	P8B-A60-A3DA	7.51 (3.41)
1-1/2"	P8A-B60-A3DA	P8B-B60-A3DA	6.88 (3.12)

\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

### Alternative Models

Regulator Adjustment		Substitute	
T-bar		H	
Knob		P	
Lubricator Type		Substitute	
Micro-Fog		A	
Oil-Fog		B	
Port Size		Substitute	
3/4"		6	
1"		8	
1-1/4"		A	
1-1/2"		B	
	Outlet Pressure Adjustment Range*	Relief	

Threads		Substitute	
PTF		A	
ISO Rc taper		B	
BSP (1-1/2" ported units only)		C	
ISO G parallel (not available with 1-1/2" ported units)		G	
Lubricator Reservoir		Substitute	
1 quart US (1 liter) metal, drain, sight glass		D	
Filter Element		Substitute	
40 µm		3	
Filter Drain		Substitute	
Automatic		A	
Manual		M	

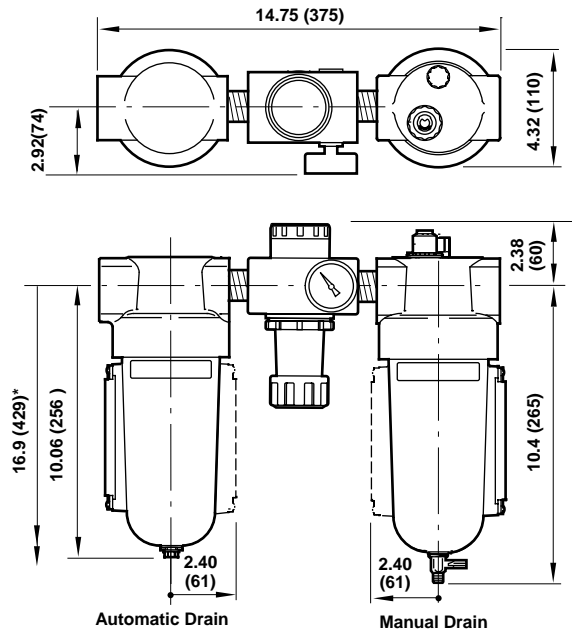
### Service Kits

Item	Type	Part Number
Lubricator service kit	All o-rings, seals, gaskets	5771-02
Filter service kit	All o-rings, seals, gaskets	5578-05
	40 µm element	5311-03
Replacement drain	Automatic	3000-10
Sight glass kit *	Pyrex	2273-22
Regulator service kit **	Relieving	5578-02
	Non relieving	5578-01
Replacement drain	1/4 Turn	619-50

\* Sight glass kit contains bowl o-ring plus all o-rings, seals, screws, glass, and glass guard.

\*\* Regulator service kit contains, diaphragm, all o-rings, valve, and valve spring.

All Dimensions in Inches (mm)



\* Minimum clearance required to remove bowl.

## 64 Series F-R-L Combination Units

64 Series Filter-Regulator-Lubricator  
1/4", 3/8", 1/2", and 3/4" Port Sizes

- Olympian Plus plug in design
- High Efficiency water and particle removal
- Quick release bayonet bowls
- High visibility prismatic sight glass
- Push to lock adjusting knob with tamper resistant option
- Constant oil density output with varying flow



### Technical Data

Fluid: Compressed air

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature\*:

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 175°F (-20° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal: 5 µm, 25 µm, or 40 µm filter element

Manual drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: Greater than 5 psig  
(0.3 bar)

Bowl pressure required to open drain: Less than 3 psig (0.2 bar)

Minimum air flow required to close drain: 2 scfm (1 dm<sup>3</sup>/s)

Manual operation: Depress pin inside drain outlet to drain bowl

Nominal bowl size:

Standard: 7 fluid ounce (0.2 liter)

Optional size for lubricator: 1 quart (1 liter)

Gauge Ports:

1/4" PTF with PTF main ports

Rc 1/8 with ISO Rc main ports

Rc 1/8 with ISO G main ports

Recommended lubricants: See Section ALE-29.

Materials

Body and yoke: Zinc

Bonnet: Aluminum

Regulator valve: Brass

Bowl:

Transparent: Polycarbonate

Metal: Aluminum

Metal bowl liquid level indicator lens:

7 fluid ounce (0.2 liter): Transparent nylon

1 quart (1 liter): Pyrex

Sight-Feed dome: Polycarbonate

Element: Sintered polypropylene

Elastomers: Neoprene and nitrile

**See Section ALE-25 for Accessories**



**Ordering information.** Models listed include Micro-Fog lubricator, yoke with PTF threads, knob adjustment, filter with auto drain, metal bowl with liquid level indicator, 40 µm element; regulator with relieving diaphragm, 10 bar (150 psig) regulating spring, gauge; lubricator with 1/4 turn manual drain, 7 fluid ounce (0.2 liter) metal bowl with liquid level indicator.

Combination Unit Type	Port Size	Model	Weight lb (kg)
Filter-Regulator-Lubricator (F-R-L)	1/4"	C64A-2AK-AD3-RMG-QDN	10.2 (4.61)
	3/8"	C64A-3AK-AD3-RMG-QDN	9.7 (4.42)
	1/2"	C64A-4AK-AD3-RMG-QDN	9.6 (4.35)
	3/4"	C64A-6AK-AD3-RMG-QDN	8.8 (3.97)

### Alternative Models

★ 6 4 ★ - ★ ★ ★ - ★ ★ ★ - ★ ★ ★ - ★ ★ ★

Lockout Valve	Substitute	Accessories	Substitute
No lockout valve	C	B and D	A
With lockout valve on inlet	D	Wall brackets	B
Combination Unit Type	Substitute	B and Q	C
Standard Micro-Fog F-R-L	A	Filter service indicator	D
Standard Oil-Fog F-R-L	B	B and L *	F
Port Size	Substitute	B, D, and Q	H
1/4"	2	B, D, and L	K
3/8"	3	Lubricator low oil level switch *	L
1/2"	4	No accessories	N
3/4"	6	Lubricator quick fill cap	Q
Threads	Substitute	Lubricator Bowl	Substitute
PTF	A	1 quart (1 liter) metal with pyrex liquid level indicator	A
ISO Rc taper	B	7 fluid oz. (0.2 liter) metal with plastic liquid level indicator	D
ISO G parallel	G	7 fluid oz. (0.2 liter) metal without liquid level indicator	M
Pressure Adjustment	Substitute	7 fluid oz. (0.2 liter) transparent with guard	P
Knob	K	7 fluid oz. (0.2 liter) metal with pyrex liquid level indicator	R
T-bar	T	Lubricator Drain	Substitute
Filter Drain	Substitute	Manual, petcock	D
Automatic	A	Closed bottom	E
Manual, petcock	D	Manual, 1/4 turn	Q
Manual, 1/4 turn	Q	Remote fill ††	R
Filter Bowl	Substitute	Regulator Gauge	Substitute
Metal with liquid level indicator	D	With gauge	G
Metal, no liquid level indicator	M	No gauge	N
Transparent with guard	P	Regulation spring **	Substitute
Metal with pyrex liquid level indicator	R	5 to 60 psig (0.3 to 4 bar)	F
Filter Element	Substitute	5 to 150 psig (0.3 to 10 bar)	M
5 µm	1	10 to 250 psig (0.7 to 17 bar)†	S
25 µm	2	Regulator Diaphragm	Substitute
40 µm	3	Non relieving	N
75 µm	4	Relieving	R

\* Lubricator low oil level switch available only with 1 quart (1 liter) bowl.

\*\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Regulator with 250 psig (17 bar) regulating spring available only the T-bar adjustment .

†† Lubricator with remote fill available only with 7 fluid oz. (0.2 liter) bowls.



## 64 Series F-R-L Combination Unit

All Dimensions in Inches (mm)

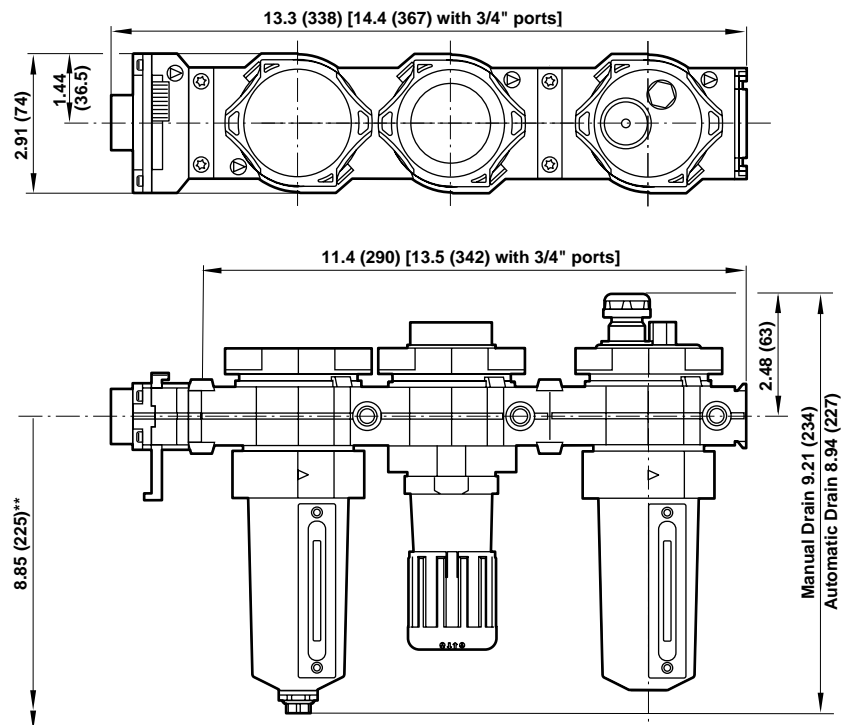
### Service Kits

Item	Type	Part number
Service kit	Filter	4380-200
Service kit	Relieving Regulator	4381-200
Service kit	Non-relieving Regulator	4381-201
Service kit	Lubricator	4382-200
Replacement elements	40 $\mu$ m	4338-02
	5 $\mu$ m	4338-01
Replacement sight glass	B64, plastic	4380-040
	L64, plastic	4380-042
	B64 & L64, pyrex	4380-041
	L64, 1 quart, pyrex	2273-22
Replacement drains	Automatic	3000-10
	Manual, 1/4 turn	619-50
Filter service indicator		5797-50

Filter service kit includes port seals, louver 'O' ring, bowl 'O' ring and drain gasket.

Regulator service kit includes port and bottom plug, 'O' rings, valve assembly, valve spring and diaphragm.

Lubricator service kit includes all seals, flow sensor, eyelet, dome screen, ball and spring.



\*\*Minimum clearance required to remove bowl.