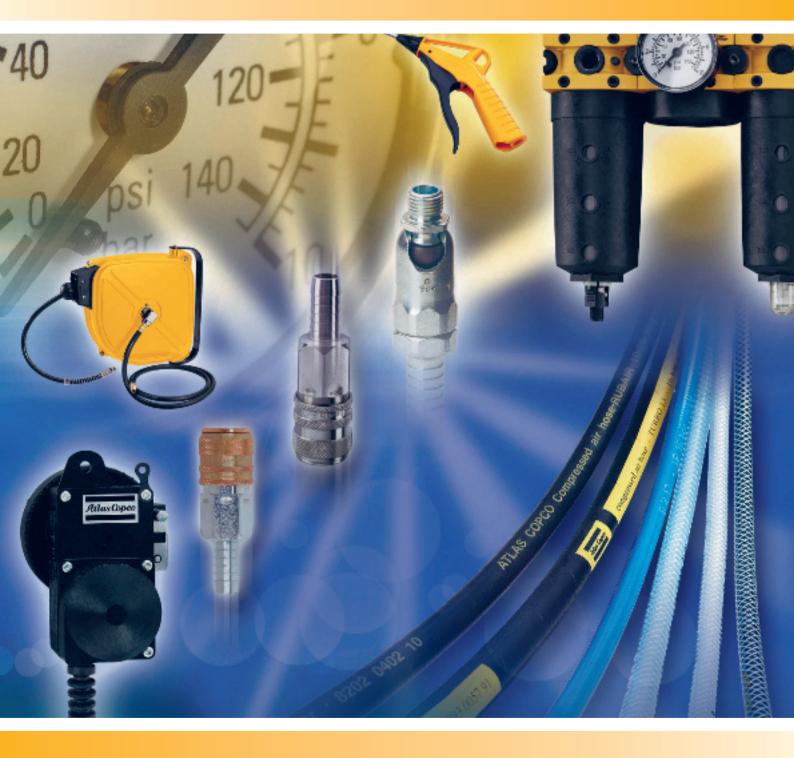
# **Atlas Copco Air Line Accessories**





# Get maximum productivity from your tools

Atlas Copco air preparation units are designed to help you get maximum productivity from your tools. They ensure minimal pressure drop and thus minimum energy losses in the air distribution system, benefiting the environment and cutting your operating costs. The lifetimes of your tools will be extended by using air preparation units and with that comes lower repair costs and less downtime. A correct air installation ensures productivity and good total economy.

### Filter – FIL

Water and dirt in your compressed air system will cause extensive corrosion damage and wear.

### Productivity

Atlas Copco filters are equipped with a cyclone system. Using centrifugal force, this separates out a high percentage of the heavier solid water particles, while the filter ensures that the amount of dirt entering your tool is kept to a minimum. This means longer working cycles for the tools and minimum service time.

### **Regulator- REG**

Atlas Copco regulators ensure optimal flow at the specific flow rates required by Atlas Copco tools, or any other pneumatic tools.

### **Energy efficiency**

By installing a regulator you will ensure that there will not be any unnecessary consumption of compressed air. The regulators reduce a variable primary pressure to a practically constant secondary pressure with a minimum of pressure drop.

### Productivity

The regulator will optimize the performance of your tool, ensure torque accuracy and boost productivity.

### Lubricator – DIM

Atlas Copco oil lubricators ensure a long, efficient and trouble-free life for your pneumatic tools and components.

### Productivity

The use of a lubricator will increase the power in vane motors by about 10-15%.

### **Energy efficiency**

With the use of a lubricator you will prolong the lifetime of a vane motor up to three times and the motor will work much more efficiently, and with less friction.



Filter – FIL



Regulator - REG



### MINI K - 1/4" BSP

### **Air Preparation Units**

Air preparation unit MINI-K's main application is to prepare the air for pneumatic components. MINI-K units have a 1/4" BSP connection thread, a composite housing made of polyamide 66 and the bowls are made of polycarbonate.

**Working temperature** 0°C to +50°C at 10 bar

**Operating pressure** Inlet pressure 0-10 bar Outlet pressure 0.5-8 bar

Standard filter 30 µm

Pressure gauge 1/8" BSP



Model	Economical air flow I/s	Maximum air flow I/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
Filters				_			_	_
MINI FIL 08K-B	12	30	Polycarbonate	Manual	12	-	0.1	9092 0000 01
Regulators								
MINI REG 08K	10	20	-	-	-	-	0.11	9092 0000 61
Lubricators								
MINI DIM 08K	9	23	Polycarbonate	-	-	35	0.09	9092 0000 91
Filter/regulator								
MINI F/R 08K	12	17	Polycarbonate	Manual	12	-	0.12	9092 0001 21
Filter/regulator+lubricat	or							
MINI F/RD 08K	9	14	Polycarbonate	Manual	12	35	0.32	9092 0001 51

ACT A start from: 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.
Maximum air flow: 10 bar inlet pressure,

6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. MINI-K F/RD unit is delivered complete with mounting bracket, assembly kit and pressure gauge.

## **Air Preparation Units**

Air preparation unit MINI-B's main application is to prepare the air for pneumatic components and tools with low air consumption. MINI-B has a 1/4" BSP connection thread and the housing is made of diecast zinc. The bowls are made of polycarbonate or the unit has metal bowls in zinc.

### Working temperature

0°C to +50°C at 10 bar

**Operating pressure** Inlet pressure 0-16 bar Outlet pressure 0.5-8 bar

Standard filter 30 µm

Pressure gauge 1/8" BSP



	Economical air flow	Maximum air flow		Filter condensate	Max condensate capacity	Max oil capacity	Weight		
Model	l/s	l/s	Bowl	drainage	cm <sup>3</sup>	cm <sup>3</sup>	kg	Ordering No.	
Filters									
MINI FIL 08B-B	12	24	Polycarbonate	Semi/automatic	22	-	0.25	9093 0032 11	
MINI FIL 08B-C	12	24	Polycarbonate	Manual	22		0.25	9093 0032 41	
MINI FIL 08B-D	13	24	Metal	Manual	22		0.25	9093 0032 71	
Regulators									
MINI REG 08B	9	47.5	-	-	-	-	0.30	9093 0033 01	
MINI REG 08B-LP	9	47.5	-	-	-	-	0.30	9093 0073 21	
MINI REG 08P	8	47.5	-	-	-	-	0.30	9093 0000 31	
Lubricators									
MINI DIM 08B	12	23	Polycarbonate	-	-	45	0.25	9093 0033 31	
MINI DIM 08B-D	12	23	Metal	-	-	45	0.25	9093 0033 61	
Filter/regulator									
MINI F/R 08B-B	9	38	Polycarbonate	Semi/automatic	22	-	0.35	9093 0033 91	
MINI F/R 08B-C	9	38	Polycarbonate	Manual	22	-	0.35	9093 0034 21	
			,						
Filter/regulator+lubrica	ator								
MINI F/RD 08B-B	9	14.8	Polycarbonate	Semi/automatic	22	45	0.75	9093 0034 51	
MINI F/RD 08B-C	9	14.8	Polycarbonate	Manual	22	45	0.75	9093 0034 81	
Filter+regulator+lubric	ator								
MINI FRD 08B-B	9	13.8	Polycarbonate	Semi/automatic	22	45	0.95	9093 0062 11	
MINI FRD 08B-C	9	13.8	Polycarbonate	Manual	22	45	0.95	9093 0062 41	

NOTE: Economical air flow: 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow**: 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MINI F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge. The MIDI Optimizer is suitable for more than 90% of the Atlas Copco tool range and is the best choice for assembly tools, percussive tools, drills, nibblers and grinders up to Turbo. The MIDI Optimizer has a 1/2" BSP connection thread and a housing and bowl of high-tech polymer. The bowl has a highly chemical resistant polypropylene insert and the bowl is directly screwed to the housing for easy handling.

#### MIDI Optimizer self-regulating nanolubricator

Adjusts automatically to the flow demand and ensures that the right amount of oil is supplied to the motor at all flow rates. This minimizes the lubrication needed. The nano oil mist, with a particle size of 200 nm, can be transported by the air stream up to 40 m. This means there is no oil in the hose and direct lubrication is not necessary. The lubricator can be refilled during operation.

#### Working temperature

-40°C to +60°C at 10 bar +2°C to +60°C at 10 bar for filters NOTE: For dry compressed air, ice formation must be avoided.

### **Operating pressure**

Inlet pressure 0-16 bar Outlet pressure 0.5-8 bar

### Standard filter

30 µm

### Pressure gauge

1/4" BSP Included in F/RD and FRD units

Model	Economical air flow I/s	Maximum air flow I/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
	1/3	1,0	50	didinago	011	0111	Ng	Ordering ite.
Filters		447			00		0.0	5000 0004 04
MIDI Optimizer FIL A	-	117	Polymer, plastic insert	Automatic	60	-	0.3	9093 0021 01
MIDI Optimizer FIL M/S	-	117	Polymer, plastic insert	Manual/semi auto	60	-	0.3	9093 0021 02
Regulators								
MIDI Optimizer REG	-	97	-	-	-	-	0.35	9093 0021 05
MIDI Optimizer REG LP	-	97	-	-	-	-	0.35	9093 0021 06
Lubricators								
MIDI Optimizer DIM	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 1
Filter/regulator								
MIDI Optimizer F/R A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 12
MIDI Optimizer F/R M/S	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 13
Filter/regulator+lubricate	or							
MIDI Optimizer F/RD A	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 1
MIDI Optimizer F/RD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 1
Filter+regulator+lubricat	tor							
MIDI Optimizer FRD A	31	55	Polymer, plastic insert	Automatic	60	90	1.1	9093 0021 2
MIDI Optimizer FRD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.1	9093 0021 2

NOTE: Economical air flow: 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow**: 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MIDI Optimizer F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.



# **Air Preparation Units**

The high flow MAXI-B air preparation unit's main application is to prepare the air for pneumatic tools which are large air consumers when long distribution hoses and multi connectors are used. A good example is Atlas Copco Turbo grinders. The MAXI-B has a diecast zinc housing and aluminum bowls with polypropylene inserts and the bowl is directly screwed to the housing for easy handling.

### Working temperature

-10°C to +50°C at 10 bar NOTE: For dry compressed air, ice formation must be avoided.

**Operating pressure** Inlet pressure 0-17.5 bar Outlet pressure 0.5-12 bar

Standard filter 30 µm

Pressure gauge

1/4" BSP



	Economical air flow	Maximum air flow		Filter condensate	Max condensate capacity	Max oil capacity	Weight	
Model	l/s	l/s	Bowl	drainage	cm <sup>3</sup>	cm <sup>3</sup>	kg	Ordering No.
Filters								
MAXI FIL 25B-B	106	190ª	Metal	Semi/automatic	130	-	0.9	9093 0074 21
Regulators								
MAXI REG 25B	85	333	-	-	-	-	1.2	9093 0074 61
MAXI REG 25B-LP	85	333	-	-	-	-	1.2	9093 0074 81
Lubricators								
MAXI DIM 25B	87	295	Metal	-	-	500	0.8	9093 0075 21
Filter/regulator								
MAXI F/R 25B-B	84	316	Metal	Semi/automatic	130	-	1.5	9093 0075 51
Filter/regulator+lubrica	ator							
MAXI F/RD 25B-B	82	244	Metal	Semi/automatic	130	500	2.8	9093 0075 81
MAXI FRD 25B-B	81	209	Metal	Semi/automatic	130	500	3.3	9093 0076 01

<sup>a</sup> 8 bar inlet pressure, 1 bar pressure drop.

NOTE: Economical air flow: 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow**: 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure droo.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MAXI F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

### **Optional Accessories**

### Common accessories

		Ordering No.						
Designation	MINI-K	MINI-B	MIDI OPTIMIZER	MAXI-B				
Mounting bracket kit	9090 1902 00	9092 0063 01	9093 0022 01	9093 0076 15				
Assembly kit	9090 1901 90	9092 0062 71	9093 0022 02	9093 0076 31				
Are included in combination units (FD, FTD, F/RD and FRD) Common accessories have to be ordered separately for separate units.								

Filter (FIL) accessories (30 µm filter element is included with all filters)

		Ordering No.					
Designation	MINI-K	MINI-B	MIDI OPTIMIZER	MAXI-B			
Filter element							
30 µm	9090 1898 00	9092 0063 31	9093 0023 04	9093 0076 61			
5 µm		9092 0063 61	9093 0023 05	9093 0076 71			
Bowl guard		9092 0063 91					

### Regulator (REG) accessories

			Ordering	g No.	
Designati	on	MINI-K	MINI-B	MIDI OPTIMIZER	MAXI-B
Pressure 0-10 bar	e gauge				
0-16 bar	Ø 40 mm Ø 50 mm	9090 1907 00	9090 1907 00 9090 1172 00	9090 2052 00	
0-10 Dai	Ø 49 mm Ø 50 mm Ø 63 mm		9090 1657 00	9090 0239 00	9090 0239 00 9093 0076 45
Panel m 0-10 bar	ounting press	ure gauge			9093 0070 43
0-16 bar	Ø 50 mm Ø 63 mm		9090 1173 00	9090 1173 00	9093 0076 43
Key lock	for regulator	-LP	9092 0074 11	9092 0074 11	9092 0074 11

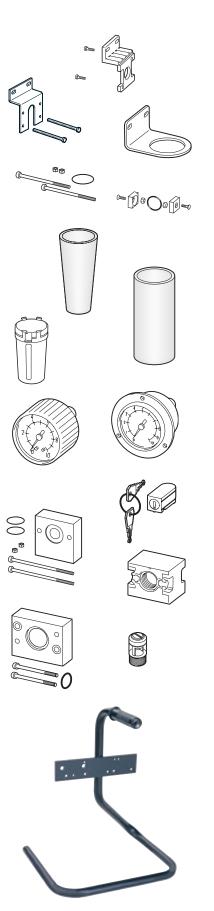
Pressure gauge 0-10 bar is included in the combination units (F/RD and FRD) Pressure gauge has to be ordered separately for separate units.

### Lubricator (DIM) accessories

	Ordering No.						
Designation	MINI-K	MINI-B	MIDI OPTIMIZER	MAXI-B			
Air distribution block kit	9090 1900 90	9092 0064 51	9093 0022 03	9093 0076 41			
Bowl guard		9092 0063 91					
Glass sight dome		9090 1121 00		9090 1873 00			

### FRL stand

Designation	Ordering No.
Suits all models	9090 2101 00



# **Optimizer Air Tool Oil**

### Optimizer air tool oil

Atlas Copco Optimizer air tool oil is a white, oil based lubricant for pneumatic tools. It has excellent antiwear properties and contains additives preventing oxidation and foaming. Optimizer air tool oil provides a better working environment, compared to conventional mist lubrication oils and is recommended when stringent demands are placed on the working environment.

- Provides a better working environment.
- Excellent antiwear properties.
- Minimizes wear on components.



### **Technical Data**

Temperature range Density at 15°C	-25°C to +70°C 869 kg/m <sup>3</sup>
Viscosity at 40°C Pour point	22 mm²/s -48°C
Flash point COC	>170°C

С		
- 1 <sup>3</sup>	Model	Ordering No.
s	Optimizer 0.5 liter	9090 0000 02
C	Optimizer 1 liter	9090 0000 04
	Optimizer 4 liter	9090 0000 06
0	Optimizer 10 liter	9090 0000 08

### Single point lubricator DOSOL

Accurate lubrication for tools in intermittent service.

The Atlas Copco DOSOL system for direct lubrication is based on an injector pump which meters out the oil in exact doses, actuated by pulses of compressed air. The oil dosage can be regulated from a fraction of a drop to a full drop.

- Exact amount Precision injector, adjustable for exact amount of oil.
- Oil directly at the tool The oil is conveyed through a capillary tube directly to the lubrication point.

A single-point lubricator (SPL) consists of an injector pump fitted to a valve body, converting interruptions in compressed air flow into pulses. In the majority of cases, an oil bowl is fitted on each lubricator.

Every DOSOL SPL unit can be finely tuned to inject from 1 to 1/10 of a drop of oil in 40 steps (30 to 3 mm<sup>3</sup>). Every DOSOL SPL unit includes as standard a counter with a switch that allows the lubricator to operate every first, fifth or tenth tool cycle.

The adjusting knob features a positive stop at both maximum and minimum settings, which means that a zero setting is not possible.

The preset quantity of oil is supplied to the tool through a small-bore nylon tube inside the air hose. 7.5 m of oil-filled nylon tubing is included as standard.



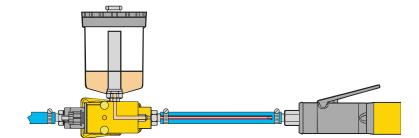
#### Multiple-point lubricator DOSOL

For supplying lubricant to an unlimited number of lubrication points on a machine or in a pneumatic system.

The DOSOL multiple-point lubricator (MPL) consists of a number of JECT 01 oil metering pumps assembled into a "package" with a common BASE baseplate. A stack may contain up to ten JECT 01 units. Several such assemblies may be used together.

- All oil pumps are supplied with oil via the BASE from an oil container or central oil reservoir. A line for pneumatic signals from the equipment to be lubricated is also connected to the BASE.
- The lubricant is conveyed through small-bore nylon tubing which should be ended with check valves.
- With the TEN counter the lubricator can be actuated every first, fifth or tenth tool cycle.

Every DOSOL MPL unit can be finely tuned to inject from 1 to 1/10 drop of oil in 40 steps (30 to 3 mm<sup>3</sup>). This helps to minimize the oil dose. The adjusting knob features a positive stop at both maximum and minimum settings, which means that zero setting is not possible.



### Single-point lubricator, DOS

	Connection thread BSP	Air fl	ow I/s	Working pressure b		Temperature range °C	
Model	in	min	max <sup>a</sup>	min m	ax	min max	Ordering No.
DOS 15B-C <sup>b</sup>	1/2	2.3	45	3.2 1	0	-30° +60°	8202 4201 73
DOS 15B-CR°	1/2	2.3	45	3.2 1	0	-30° +60°	8202 4202 72
DOS 20B-C <sup>b</sup>	3/4	2.3	53	3.2 1	0	-30° +60°	8202 4201 81
DOS 20B-CR°	3/4	2.3	53	3.2 1	0	-30° +60°	8202 4202 80

<sup>a</sup> At 6 bar and DP = 0.2 bar.

<sup>b</sup> With counter and 7.5 m oil-filled nylon tubing.

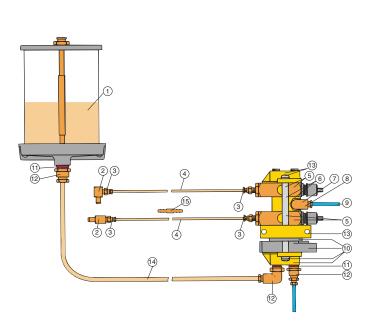
° With 0.3 I oil container counter and 7.5 m oil-filled nylon tubing.

### Accessories

### **Optional Accessories**

### FOR SINGLE POINT LUBRICATOR DOSOL

Designation	Ordering No.
Nylon tubing 3.2 mm outside diameter	
7.5 m, oil-filled 7.5 m, without oil 100 m, with oil	9090 1418 00 9090 1419 00 9090 1420 00
Barbed nipple for joining of 3.2 mm tubes	9090 1423 00
Check valve for outer end of nylon tubing, dia ext. 3.2 mm	9090 2050 00



### FOR MULTI POINT LUBRICATOR DOSOL

### Multiple-point lubricator, BASE, JECT 01

Designation		BSP in	Ordering No.
BASE baseplate	Plate		8202 4205 04
	Oil port	1/4	
	Air port	1/4	
	Clamp		
	Oil port	1/4	
	Air port	1/4	
JECT 01 oil pump	Oil delivery port	1/8	8202 4203 10

### **TEN-counter**

When lubricating equipment with a very low air consumption or very short time in operation it may be difficult to set a sufficiently small dose of oil. In such cases a counter is connected underneath the base plate BASE. The oil pumps will then be actuated only on each, every fifth or every tenth air pulse. The air signal is connected to the clamp underneath the counter. Ordering No. 8202 4206 03

### Side-ported air block kit

If all pumps are not to be actuated simultaneously, a signal block is installed between the oil pumps in the stack. The pumps below the signal block will then be actuated via the base plate BASE and those above it from a separate signal via the signal block.

Ordering No. 8202 4206 03

**NOTE:** When the counter TEN is used in MPL installations an intermediate, black plastic part is used (supplied with all TEN counters) between BASE and TEN.

Ref in fig	No. gure Designation	Ordering No.
1	Oil container 0.3 I for direct mounting	9090 1415 00 9090 1416 00
	0.95 I for wall mounting (1/4" BSP female) 1.9 I for wall mounting (1/4" BSP female)	9090 1418 00 9090 1417 00
2	Check valve 1/8" BSPT 90° elbow male x 1/8" BSP female 1/8" BSPT, straight male x 1/8" BSP female	9090 1427 00 9090 1426 00
3	Male adapter 1/8" BSPT, straight for tube outer diameter 3.2 mm	9090 1425 00
4	Capillary tubing 7.5 m, outer dia. 3.2 mm prefilled with oil 7.5 m, outer dia. 3.2 mm without oil 100 m, outer dia. 3.2 mm with oil	9090 1418 00 9090 1419 00 9090 1420 00
5	JECT 01 kit <sup>a</sup>	8202 4203 10
6	Side-ported air block kit	9090 1424 00
7	Fiber packing for 1/8" BSP	0657 5742 00
8	Male adapter 1/8" BSP, straight for	
	tube outer diameter 5 mm	9090 0714 00
9	Nylon tube outer diameter 5 mm (sold by the meter)	9030 0059 00
10	Counter TEN kit	8202 4206 03
11	Fiber packing for 1/4" BSP	0657 5764 00
12	Male adapter 1/4" BSP, straight for tube outer diameter 8 mm	9090 0715 00
13	BASE kit	8202 4205 04
14	Nylon tube, outer diameter 8 mm	9030 0060 00
15	(sold by the meter) Barbed nipple for joining of nylon tubes outer diameter 3.2 mm	9090 1423 00

<sup>a</sup> With high temperature Viton seals 8202 4203 15.