

## 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



Lubricator – DIM

## Air Preparation Units

## MIDI Optimizer – 1/2" NPT

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" NPT 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 NANO-LUBRICATOR**

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 130 ft. This means there is no oil in the hose and direct lubrication is not necessary. The lubricator can be refilled during operation. EP-versions are adjusted for use with impulse tools.



#### **WORKING TEMPERATURE**

-40°F to +140°F at 145 psi

+35°F to +140°F at 145 psi for filters

**NOTE:** For dry compressed air, ice formation must be avoided.

#### **OPERATING PRESSURE**

Inlet pressure 0-232 psi

Outlet pressure 7-116 psi

#### **STANDARD FILTER**

30 µm

#### **PRESSURE GAUGE**

1/4" BSP

Included in F/RD and FRD units

Model	Economical air flow cfm	Maximum air flow cfm	Bowl material	Filter condensate drainage	Max condensate capacity oz	Max oil capacity oz	Weight lb	Ordering No.
<b>Filters</b>								
MIDI Optimizer FIL M/S	-	248	Polymer, plastic insert	Manual/semi auto	2	-	0.66	9093 0021 04
MIDI Optimizer FIL A	-	248	Polymer, plastic insert	Automatic	2	-	0.66	9093 0021 03
<b>Regulators</b>								
MIDI Optimizer REG	-	206	-	-	-	-	0.77	9093 0021 07
MIDI Optimizer REG LP	-	206	-	-	-	-	0.77	9093 0021 08
<b>Lubricators</b>								
MIDI Optimizer DIM	66	254	Polymer, plastic insert	-	-	3	0.66	9093 0021 11
<b>Filter/regulator</b>								
MIDI Optimizer F/R M/S	-	190	Polymer, plastic insert	Manual/semi auto	2	-	1.1	9093 0021 15
MIDI Optimizer F/R A	-	190	Polymer, plastic insert	Automatic	2	-	1.1	9093 0021 14
<b>Filter/regulator+lubricator</b>								
MIDI Optimizer F/RD A	66	116	Polymer, plastic insert	Automatic	2	3	2.2	9093 0021 18
MIDI Optimizer F/RD M/S	66	116	Polymer, plastic insert	Manual/semi auto	2	3	2.2	9093 0021 19
MIDI Optimizer F/RD A EP	66	116	Polymer, plastic insert	Automatic	2	3	2.2	9093 0021 37
MIDI Optimizer F/RD M/S EP	66	116	Polymer, plastic insert	Manual/semi auto	2	3	2.2	9093 0021 38
<b>Filter+regulator+lubricator</b>								
MIDI Optimizer FRD M/S	66	116	Polymer, plastic insert	Manual/semi auto	2	3	2.4	9093 0021 27
MIDI Optimizer FRD A	66	116	Polymer, plastic insert	Automatic	2	3	2.4	9093 0021 26

**NOTE:** Economical air flow: 116 psi inlet pressure, 91 psi outlet pressure, 3 psi pressure drop.

Maximum air flow: 145 psi inlet pressure, 91 psi outlet pressure, 15 psi pressure drop.

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

EP For pulse tools, lubricator adjusted for impulsing tools  
A Automatic  
M/S Manual/semi automatic  
LP Lockable regulator

# MAXI-B – 1" NPT

## 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

14°F to 122°F at 145 psi

**NOTE:** For dry compressed air, ice formation must be avoided.

### OPERATING PRESSURE

Inlet pressure 0-254 psi

Outlet pressure 7-174 psi

### STANDARD FILTER

30 µm

### PRESSURE GAUGE

1/4" BSP



Model	Economical air flow cfm	Maximum air flow cfm	Bowl	Filter condensate drainage	Max condensate capacity oz	Max oil capacity oz	Weight lb	Ordering No.
<b>Filters</b>								
MAXI FIL 25BU-B	225	636	Metal	Semi/automatic	4.4 oz	-	2	9093 0074 31
<b>Regulators</b>								
MAXI REG 25BU	180	566	-	-	-	-	2.6	9093 0074 71
<b>Lubricators</b>								
MAXI DIM 25BU	184	636	Metal	-	-	16.9	1.8	9093 0075 31
<b>Filter/regulator</b>								
MAXI F/R 25BU-B	178	485	Metal	Semi/automatic	4.4 oz	-	3.3	9093 0075 61
<b>Filter+regulator+lubricator</b>								
MAXI FRD 25BU-B	171	328	Metal	Semi/automatic	4.4 oz	16.9	7.3	9093 0076 11

**NOTE:** Economical air flow: 116 psi inlet pressure, 91 psi outlet pressure, 3 psi pressure drop.

Maximum air flow: 145 psi inlet pressure, 91 psi outlet pressure, 15 psi pressure drop.

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

## Accessories

## Air preparation units

### Optional Accessories

#### COMMON ACCESSORIES

Designation	Ordering No.	
	MIDI OPTIMIZER	MAXI-B
<b>Mounting bracket kit</b>	9093 0022 01	9093 0076 15
<b>Assembly kit</b>	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)

Designation	Ordering No.	
	MIDI OPTIMIZER	MAXI-B
<b>Filter element</b>		
30 µm	9093 0023 04	9093 0076 61
5 µm	9093 0023 05	9093 0076 71

#### REGULATOR (REG) ACCESSORIES

Designation	Ordering No.	
	MIDI OPTIMIZER	MAXI-B
<b>Pressure gauge</b>		
0-140 psi		
Ø 50 mm	9090 2052 00	
Metal housing	9090 2052 01	
0-230 psi		
Ø 49 mm	9090 0239 00	9090 0239 00
Ø 63 mm		9093 0076 45
<b>Panel mounting pressure gauge</b>		
0-140 psi		
Ø 50 mm	9090 1173 00	
0-230 psi		
Ø 63 mm		9093 0076 43
<b>Key lock for regulator -LP</b>	9092 0074 11	

Pressure gauge 0-140 psi is included in the combination units (F/RD and FRD)

Pressure gauge has to be ordered separately for separate units.

#### LUBRICATOR (DIM) ACCESSORIES

Designation	Ordering No.	
	MIDI OPTIMIZER	MAXI-B
<b>Air distribution block kit</b>	9093 0022 03	9093 0076 41
<b>Glass sight dome</b>		9090 1873 00

#### FRL STAND

Designation	Ordering No.
<b>Suits all models</b>	9090 2101 00
<b>FRL-stand <sup>a</sup></b>	9090 3030 01

<sup>a</sup> For impact wrenches and pulse tools up to 1/2" NPT air inlet, and maximum air flow 65 cfm. Includes: large metal gauge up to 145 psi, ErgoQIC 10US coupling, 16.9 oz of Optimizer oil, Turbo 13 hose with length 16.4 ft. The FRL-stand has NPT connection.

