

# expel<sup>®</sup>

World's first cleanable and  
resuable compressed air filter



EXPEL CONTINUALLY REMOVES **99.999%** OF...



...WATER



OIL EMULSION FLUIDS



SOLID PARTICULATES

**REDUCE COSTS**

Drastically **REDUCES** maintenance, repair and energy costs



Max. pressure bar drop is just 0.1 bar, which unlike traditional filters, never increases with use. This saves energy.



**NO** replacement filter elements required



**5 year** guarantee



**Robust and built to last**



**REDUCE DOWNTIME & MAINTENANCE**

Solves and prevents damage to equipment caused by liquid water



**NEVER** reduces in performance



Reduces maintenance of air tools



**Expel replaces...**

- Bulk water separator
- Particle filters to 1 micron
- Coalescent filters



**EFFICIENCY**

TRADITIONAL FILTER	60-80%
EXPEL	99.9999%

*"We finally have no water going to the guillotine, this is an excellent product"*  
Chris Kosolowski, Bar Line Production Manager, Nutrition Group Plc.

# Expel range

5 year guarantee

EXP EL 3	Part Number: 6000-019
Flow rate for a 7 bar (g) system	1-9 cfm
Operating pressure	1-15 bar(g)   15-218 psi(g)
Liquid water removal	Yes
Oil emulsion removal	Yes
Particulate removal	1 micron
Inlet/Outlet connection	¼" BSPT
Drain connection	½" (m) BSPT

EXP EL 10	Part Number: 6000-000
Flow rate for a 7 bar (g) system	4-10 cfm
Operating pressure	1-15 bar(g)   15-217 psi(g)
Liquid water removal	Yes
Oil emulsion removal	Yes
Particulate removal	1 micron
Inlet/Outlet connection	¼" BSPT
Drain connection	½" (m) BSPT

EXP EL 30	Part Number: 6000-003
Flow rate for a 7 bar (g) system	4-30cfm
Operating pressure	1-15 bar(g)   15-217 psi(g)
Liquid water removal	Yes
Oil emulsion removal	Yes
Particulate removal	1 micron
Inlet/Outlet connection	¾" BSPT – with ½" reducer
Drain connection	½" (m) BSPT

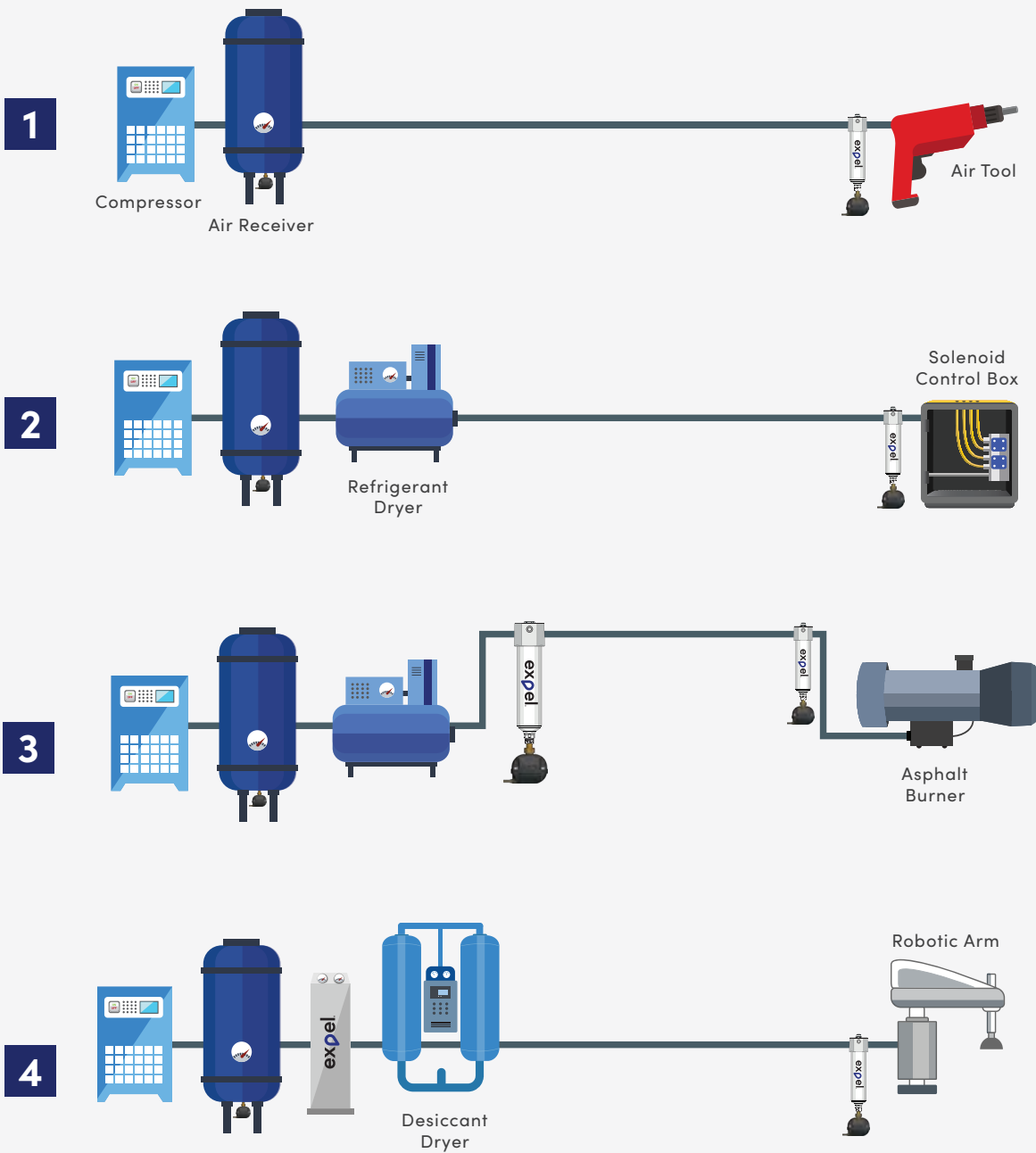
EXP EL 60M	Part Number: 6001-005
Flow rate for a 7 bar (g) system	4-68 cfm
Operating pressure	1-15 bar(g)   15-217 psi(g)
Liquid water removal	Yes
Oil emulsion removal	Yes
Particulate removal	1 micron
Inlet/Outlet connection	1" BSPT
Drain connection	½" (m) BSPT
Note	Units on a manifold

EXP EL 90M	Part Number: 6001-006
Flow rate for a 7 bar (g) system	4-102 cfm
Operating pressure	1-15 bar(g)   15-217 psi(g)
Liquid water removal	Yes
Oil emulsion removal	Yes
Particulate removal	1 micron
Inlet/Outlet connection	1" BSPT
Drain connection	½" (m) BSPT
Note	Units on a manifold



\* technical specifications available at [www.originalavg.com](http://www.originalavg.com)

# Where to Install Expel?



- NO ICE
- NO WATER
- NO OIL EMULSION FLUIDS
- NO RUST OR DIRT

*Please note: The flow rate of your compressor and piping size will determine which size Expel unit you require. Please contact us for further information.*

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*Expel is on all of my plants, I would highly recommend it and I have been recommending it too!*

Steve Pointon  
Operations manager - Aggregate Industries





# AVG Auto-Drains

AVG Auto-Drains are essential for your Expel unit to function correctly.

Other applications include:

- Inter-coolers
- After-coolers
- Dryers
- Air receiver tanks
- Drip legs



Automatic



Corrosion  
resistant



Cleanable



No electricity  
required



**AVG AD Zero Pressure Loss 1**  
**Part number: 5000-200**

- 1/2" top male inlet
- Discharge valve orifice 2mm
- 200 litres of condensate per hour
- Pressure range 0-16 bar
- Bottom outlet can be rotated 360° for installation simplicity
- Zero pressure loss
- Fit and forget
- Recommended if Expel is near a wall



**AVG AD Zero Pressure Loss 2**  
**Part number: 6100-032**

- Top and side 1/2" female inlets for installation flexibility and so a heater can be attached for those operating in particularly cold climates
- Discharge valve orifice 2mm
- 200 litres of condensate per hour
- Pressure range 0-16 bar
- Zero pressure loss
- Fit and forget
- Ideal for air receiver tanks with limited space underneath for drain



**AVG AD PRO**  
**Part number: 6100-033**

- Top and side 1/2" female inlets for installation flexibility and so a heater can be attached for those operating in particularly cold climates
- Discharge valve orifice 2mm
- Pressure range 3-16 bar
- 1062 litres of condensate per hour
- Can drain large solid particles
- Test button for routine maintenance
- Ideal for air receiver tanks with limited space underneath for drain
- Ideal for environments that have very wet, dirty airlines

\* technical specifications available at [www.originalavg.com](http://www.originalavg.com)

# AVG Regulators

Pneumatic regulators maintain constant output pressure when installed in pneumatic lines.

Temperature range -5 to +70 °C



**AVG Regulator 0.25**  
**Part number: 2514-006**

- Connection Size – ¼"
- Pressure regulation range (bar) – 0.5–12 bar
- Housing material – Zinc alloy



**AVG Regulator 0.5**  
**Part number: 2514-003**

- Connection Size – ½"
- Pressure regulation range (bar) – 0.5–12 bar
- Housing material – Zinc alloy



**AVG Regulator 0.75**  
**Part number: 2514-004**

- Connection Size – ¾"
- Pressure regulation range (bar) – 0.5–12 bar
- Housing material – Zinc alloy



**AVG Regulator 1**  
**Part number: 2514-007**

- Connection Size – 1"
- Pressure regulation range (bar) – 0.5–12 bar
- Housing material – Zinc alloy

\* technical specifications available at [www.originalavg.com](http://www.originalavg.com)



# AVG Oil/Water Separators

Environmental regulations strictly prohibit disposing of oil contaminated condensate without proper treatment to remove the oil.

All of our AVG Oil/Water Separators successfully remove:

- Mineral lubricants
- Synthetic lubricants
- Stable condensate emulsions
- Polyglycol, Roto-Inject, Sigma Mol



**AVG Oil/Water Separator 2**  
**Part number: 6100-036**

- Ideal for small, compressed air applications: Max compressor capacity 2m<sup>3</sup>/min (70cfm)
- Max. oil adsorption in the elements is 2 litres
- No separate replacement elements making servicing a quick and clean process
- The AVG Oil/Water Separator 2 does not incorporate a settling reservoir (no bacteria growth)
- Relevant fixings and installation bracket for wall mounting included
- Test valve and sample bottle to test oil ppm residue included as standard



**AVG Oil/Water Separator 3.5**  
**Part number: 6100-037**

- Max. compressor capacity 3.5 m<sup>3</sup>/min (125 cfm)
- Max. oil adsorption in the elements is 4 litres
- Simple, fast and clean installation and maintenance procedure
- Fixing bracket for wall mounting optionally available
- Test valve and sample bottle to test oil ppm residue included as standard

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# AVG Oil/Water Separators 5-60

- Five models covering up to 60m<sup>3</sup>/min (2500 cfm) compressor capacity offering sizing flexibility  
**Note:** For larger capacities (up to 60m<sup>3</sup>/min.) apply the AVG DISTRIBUTOR
- Element life indicator, offering you a visual indication of the element life status
- Simple installation and maintenance procedures
- Sectional service draining options during servicing
- Multiple condensate inlets with brass inserts for hard piping installations
- Large 1" output capacity
- 2 x ½" inlet ports
- Test valve and sample bottle to test oil ppm residue included as standard
- Service packs available



**AVG Oil/Water Separator 20**  
**Part number: 6100-040**

- Max. compressor capacity: 20m<sup>3</sup>/min (750cfm)
- Max. oil adsorption: 15 litres



**AVG Oil/Water Separator 5**  
**Part number: 6100-038**

- Max. compressor capacity: 5m<sup>3</sup>/min (175cfm)
- Max. oil adsorption: 5 litres



**AVG Oil/Water Separator 30**  
**Part number: 6100-041**

- Max. compressor capacity: 30m<sup>3</sup>/min (1250cfm)
- Max. oil adsorption: 25 litres



**AVG Oil/Water Separator 10**  
**Part number: 6100-039**

- Max. compressor capacity: 10m<sup>3</sup>/min (350cfm)
- Max. oil adsorption: 10 litres



**AVG Oil/Water Separator 60**  
**Part number: 6100-042**

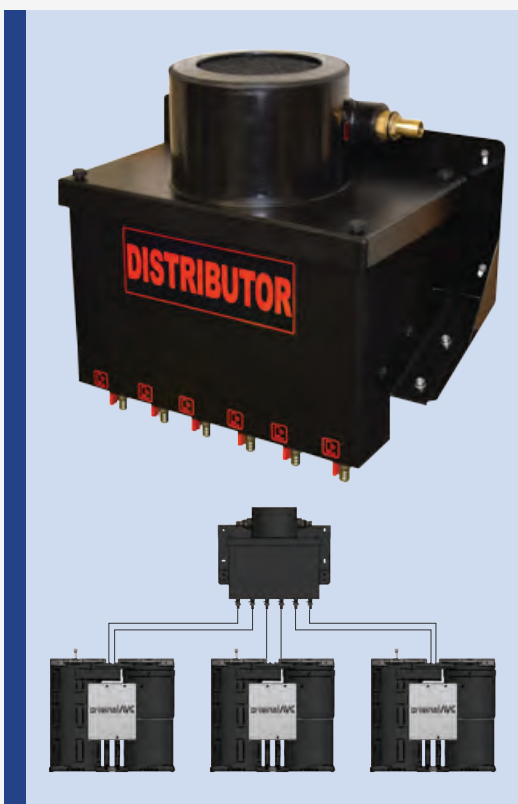
- Max. compressor capacity: 60m<sup>3</sup>/min (2500cfm)
- Max. oil adsorption: 50 litres





#### AVG Oil/Water Separator Service Packs

- The chosen element fibres have been specially selected and treated to maximise its supreme adsorbing performance
- Increased filtration efficiency and easy servicing procedures
- Protective clothing kit included
- Service friendly lifting handles



#### AVG Distributor Part number: 6100-044

Large compressor systems might require two or more oil/water separators to be installed to match the total compressor capacity of an installation.

To connect the oil/water separators together and to ensure an even distribution of condensate into the oil/water separators, you require the AVG DISTRIBUTOR.

- Allows you to connect up to 6 AVG Oil Separators
- The equal condensate distribution ensures even filter element saturation
- Streamlining of element servicing intervals
- Two 1" condensate inlet and six ½" outlet options
- Integrated ball valves allowing local shut-off for servicing purposes
- Supplied with complete installation kit

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***We finally have no water going to the guillotine. This is an excellent product.***

Chris Kosolowski  
Bar Line Production Manager - Nutrition Group Plc.





***"I'd recommend Expel to anyone who has fitting machines, MOT bays, or anywhere you have got compressed air lines."***

Trevor Standeven  
General Manager - Lodge Tyres





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