

WHY USE expel®



REMOVES 99.999% OF PARTICULATES TO 1 MICRON

- Achieves clean air by removing a significant percentage of solid particulates from the air.
- Protects equipment from a build up of solid contaminants that can cause blockages and damage.

EXTREMELY LOW PRESSURE DROP ACROSS UNIT (MAX 0.1 BAR)

- Reduction in energy usage and more efficient compressed air usage.
- Reduction in energy costs due to the compressor not having to work so hard to maintain system pressure.

REMOVES 99.999% OF ALL LIQUID WATER

- Achieves liquid free, dry air.
- Protects tools and equipment from water ingress, corrosion and expensive maintenance and repair costs.

COMBINED REMOVAL OF LIQUIDS AND PARTICULATE CONTAMINANTS FROM ONE FILTER

- Can replace up to 3 traditional compressed air filters in one unit.
- Initial purchase costs and lifetime operation costs reduced.

INTERNAL FILTER CAN BE REMOVED, CLEANED AND REFITTED

- No replacement filter elements required and reduced waste.
- Significant cost savings that are commonly associated with replacement filter elements and labour.

MANUFACTURED FROM STAINLESS STEEL 304

- Highly robust, durable and corrosion resistant material.
- Suitable for a number of specialty applications within industries such as medical, food and beverage, offshore oil and gas.

EASY TO DISMANTLE

- Allows routine inspection and cleaning to be undertaken with ease, minimal downtime and disruption.
- Saves time associated with regular maintenance where required and allows for ease of removing any blockages that may occur from debris within the air system — the element does not require replacement.

NO DIRECT POWER SOURCE REQUIRED

- Allows installation where electrical power sources are unavailable.
- No electrical energy costs associated with the operation of the unit.

PRESSURE INDICATOR FITTED AS STANDARD

- Provides a clear visual indication when the unit is under pressure.
- Acts as a warning not to open pressurized vessel for health and safety benefits. Unit cannot be opened when more than 0.5 bar pressure is applied.

QUICK LOCKING COUPLING BETWEEN HEAD AND BODY

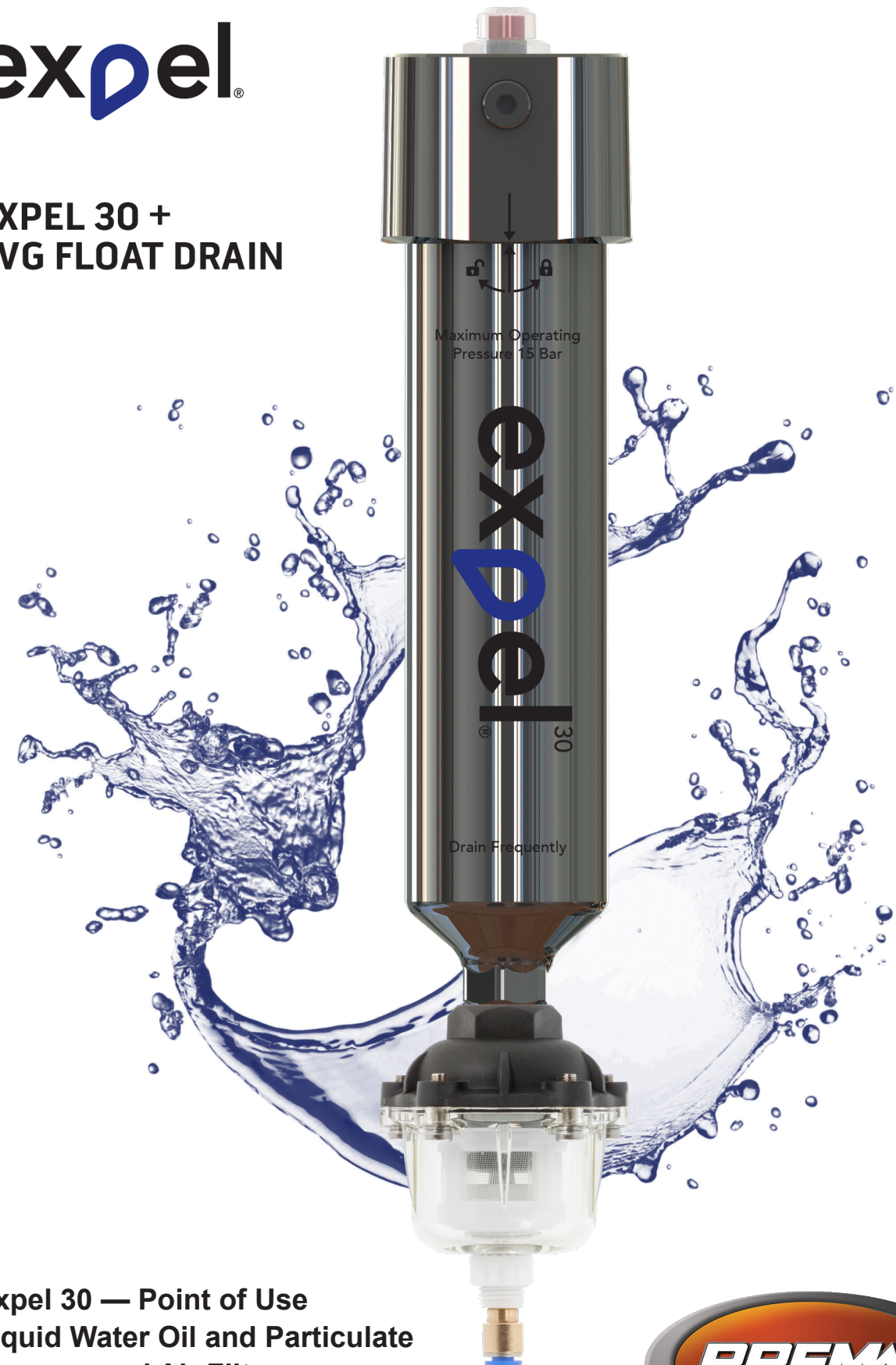
- Ease of opening, closing and locks unit when under minimum 0.5 bar pressure.



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expel®

EXPEL 30 + AVG FLOAT DRAIN



Expel 30 — Point of Use
Liquid Water Oil and Particulate
Compressed Air Filter



www.premacanada.ca

TECHNICAL DATA

Exceptional compressed air quality guaranteed
Expel will dramatically improve compressed air systems throughout the industry. The unique patented design allows it to efficiently remove 99.9999% of liquid, oil, water and removes other contaminants down to 1 micron when installed at point of use.

PRODUCT OVERVIEW

- 30 cfm max rated flow rate
*See technical data below
- 15 bar(g) - 217 psi(g) maximum pressure
- 2 year manufacturer's warranty
- ½" & ¾" BSPT / NPT inlet / outlet connections
- Removes 99.9999% all liquid water, oils, and filters particulates down to 1 micron
- Grade 304 stainless steel body and head
- Pressure indicator as standard
- Optional pressure gauge.
- ½" BSPT / NPT male drain port

FEATURES

- Tested to ISO 12500 - part 3 & 4 standard
- Worlds first cleanable, reusable compressed air filter
- No increase in pressure drop caused by contaminated filters
- No power source required
- Significantly reduced life cycle costs
- Easy to install & maintain
- Instantaneous recovery from pulsed flows or stop start
- All spare parts available
- Fully dismantlable
- No decrease in performance over lifetime of well maintained filter

OPERATIONAL SPECIFICATION

Flow rate for a 7 bar(g) system	0.14 - 0.85m³/min
	8.5 - 51 m³/hr
	5 - 30 cfm
	141 - 850 litres/min
Operating pressure	1 - 15 bar(g)
	15 - 217 psi(g)
Operating temperature	>0 to +80 °C
	>32 to 176 °F
Maximum recommended inlet temperature	35 °C
	95 °F

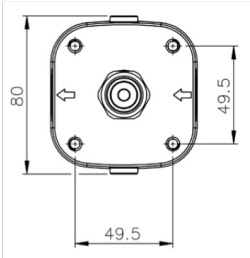
PRODUCT LINE DRAWING*



MECHANICAL SPECIFICATION

Product code - ½"	6000-002-AA
Product code - ¾"	6000-003-AA
Inlet/Outlet connection	½" or ¾" BSPT/NPT
Drain connection	½" (m) BSPT/NPT
Weight	2.08 kg
Product dimensions	293 mm x 80 mm
Particulate removal	> 1 micron
Material (housing)	Stainless Steel 304
Material (internal)	ABS

LINE DRAWING FOR MOUNTING*



BOX CONTENTS

QTY

Expel 30 Unit	1
Mounting bracket	1
Bolts M6 x 8 mm	4
Fixing Screws	4
Wall Plugs	4
Manual	1

Manual and Automatic drains available contact us or visit our website www.originalavg.com

*Not to scale

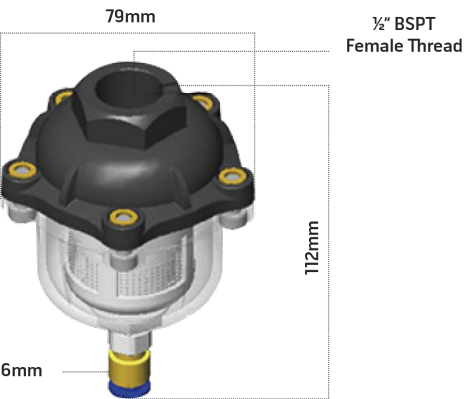
AVG FLOAT DRAIN

The new EXPEL automatic float drain is designed to discharge liquids and particulates extracted from your compressed air system by the EXPEL range of compressed air filters.

A 6 mm diameter pipe can be connected to the base of the drain to control the flow of the discharged fluid into a suitable container for disposal.

KEY FEATURES

- No power source required.
- Automatic condensation drain.
- Clear bowl enables visibility of drain operation.
- Unit can be easily dismantled for servicing and cleaning if required.
- Operating pressures up to 16 bar.
- 1/2" BSPT female thread inlet connection.
- Manual override for immediate condensate discharge.



Part Number	Inlet Thread	Outlet	Min. Working Pressure	Max. Working Pressure	Min. Working Temp.	Max. Working Temp.	Initial Discharge Value	Maximum discharge Capacity
3112645	½" Female BSPT	6mm Diameter	1.5 Bar	16 Bar	1.5°C	85°C	22ml	84 L/H



EXPEL 30 - POINT OF USE LIQUID WATER, OIL & PARTICULATE COMPRESSED AIR FILTER



EXPEL INCREASES LIFE WHILST REDUCING OPERATING COSTS

MAXIMUM OPERATING PRESSURE
- 15 Bar or 217 Psi

MAXIMUM OPERATING FLOW
- 30 CFM or 850 Ltrs/Min



A unique patent protected product designed to revolutionise the compressed air industry

- Expel removes 99.9999% of all liquids (water & oils)
- Expel removes all particulates down to 1 micron – 99.9999%
- No reduction in performance regardless of flow and pressure
- 3 patents pending
- The world's first cleanable reusable filter
- No power source required
- 2 years manufacturer's warranty
- Easy to fit / install
- Easy to dismantle and service – lift, twist, pull
- Pressure indicator fitted as standard
- Option to fit pressure gauge
- Manufactured in stainless steel 304
- Optional – manual drain tap or autodrain
- Tested to ISO 12500 standards
- All spare parts available should you ever need them