

DRIVEN BY AIR.



## Dropout<sup>®</sup> Range

Dropout<sup>®</sup> offers an extremely high performance - ALL IN ONE solution.

A HORNGROUP BRAND

[www.pclairtechnology.com](http://www.pclairtechnology.com)

# DROPOUT® WATER SEPARATORS

Save money, save energy, save time

DRY AIR **GUARANTEED**



## Why choose a Dropout® unit?

**Dropout® offers an extremely high performance - ALL IN ONE solution.**

Dropout® removes liquid water and other contaminants at a wide range of flow rates without the need for replacement filter elements - a proven revolution in the treatment of compressed air.

Dropout's unique patented system solves contamination problems where other products fail. Robust and reliable performance coupled with particulate removal down to 0.5 microns and without the need for costly replacement consumables equals a significant reduction in whole life costs when compared with traditional air cleaning products.

### Benefits

- Removes 99.9999% liquid and particulates
- 1 micron particulate removal
- Complies to ISO 12500
- ATEX approved
- Maintenance free
- No consumables
- All in one solution
- Suitable for scalable flow rates
- Significantly lower life cycle costs

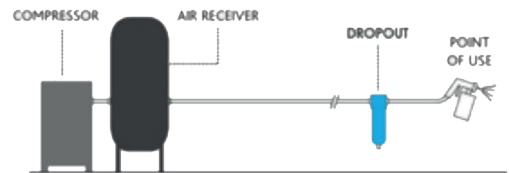


# UNIQUE PATENTED SYSTEM

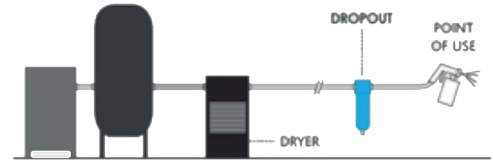
Dropout® has multiple applications acting not only as a stand-alone water separator or coalescing filter but also providing protection upstream of refrigerants dryers by (pre) filtering bulk liquid and other contaminants. Unlike traditional cyclonic separators which rely on constant and stable flows and fail miserably during stop/start, Dropout® has the ability to maintain its performance levels during start up where it reaches optimum performance in a fraction of a second.

## Installation options

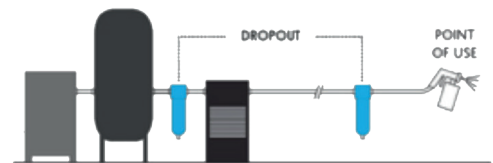
**A** Installed as a 'point of use' filter/liquid water separator where there is no existing provision.



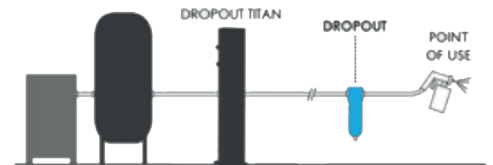
**B** Installed as a supplementary filter/liquid water separator where a dryer is already installed but liquid water is still evident.



**C** Installed as a cost effective alternative to existing water separators/coalescing filters as a single unit upstream of the existing dryer at 'point of use' or both

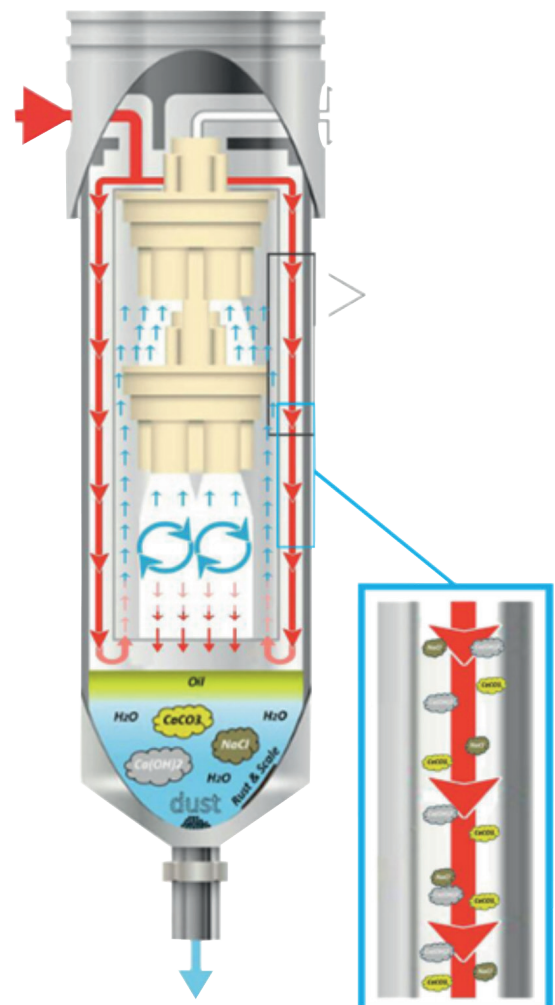


**D** For high flow applications install Titan to remove the bulk contamination and a compact unit at point of use as a final polisher.



## TECHNOLOGY AND PERFORMANCE

- Unique patent protected high performance technology
- No increase in pressure drop caused by blocked filters
- Performance does not depend on the compressed air having a stable flow rate or high velocity
- Sealed for life stainless steel housing
- Modular, scalable design delivers a wide flow rate product range without compromising the efficiency of removal of water and solid particles
- Operates far more efficiently than traditional air cleaning products





## Dropout® Point Of Use Liquid (Water & Oil) Remover

**Exceptional compressed air quality guaranteed with this 1/2" Compact Dropout® unit which is used as an inline point of use liquid water separator and contaminant remover.**

The unique multi-stage compressed air filter efficiently removes 99.9999% of Liquid (Water & Oil) & 99 % solid particulates down to 1 Micron. Featuring a built-in auto drain, once fitted the unit is maintenance free.

### Benefits

- Superior protection for your compressed air equipment at point of use
- Stand-alone replacement for water separators and/or coalescing filters
- Protection upstream of refrigerant and desiccant dryers
- Easy to install, no mains power and no consumables
- No increase in pressure drop caused by blocked filters
- Instantaneous recovery from pulsed flows or stop start
- Maintenance free with built-in auto-drain

Part No.	Inlet/ Outlet	Flow Rate
<b>PDO300PA</b>	1/2" BSPT	283 l/min / 11 cfm

Maximum Inlet Pressure: 16 bar / 232 psi  
 Water Storage: 50 cc  
 Drain Connection: 1/8 in Automatic  
 Material (housing): Nylon  
 Particle removal: 1 micron



## 3/4" Dropout® Water Separator

Exceptional compressed air quality guaranteed with the sealed for life aluminum 3/4" Dropout® unit.

### Benefits

- Guaranteed 99.9999% water removal
- Low cost of ownership
- Maintenance free
- Minimal inlet/outlet pressure drop

Part No.	Inlet/ Outlet	Flow Rate
<b>PDO600A</b>	3/4" BSPT	1000 l/min / 35.3 cfm

Maximum Inlet Pressure: 16 bar  
 Water Storage: 280 cc  
 Drain Connection: 1/2" Manual  
 Material (housing): Aluminium  
 Particle removal: 1 micron



## Dropout® Auto-drain

The Dropout® Auto-drain is designed to remove all contaminants from the Dropout units automatically.

### Benefits

- Easy to install
- Requires no power or batteries and once fitted is maintenance free
- Features two 1/2" inlet connections enabling flexible installation
- Supplied with a metal blanking plug to block unused port

Part No.	Inlet/ Outlet	Flow Rate
<b>PDOAD128</b>	1/2" / 1/8" BSPT	5760 l/min / 203 cfm

Maximum Inlet Pressure: 16 bar  
 Water Storage: 350 cc



Maximum Operating  
Pressure 15 Bar

dropout®

Drain Frequently

## Stainless Steel Dropout® Water Separator

The sealed for life Stainless Steel Grade 304 Dropout® Water Separator is available in a range of port sizes and flow rates.

This unique multi-stage compressed air filter efficiently removes 99.9999% liquid to 1 micron. Requiring no replacement filters, once fitted, the ongoing servicing costs are zero. Complete with a wall bracket and drain valve for manual drainage.

### Benefits

- Low cost of ownership and maintenance free
- Performance does not depend on the compressed air having a stable flow rate or high velocity
- No drop in liquid water or partial removal efficiency regardless of flow rate or duration of time installed
- No requirement for replacement filter cartridges

Part No.	Inlet / Outlet	Flow Rate	Water Storage
PDO60S	1/4"	90 l/min / 3.2 cfm	80 cc
PDO300S	1/2"	450 l/min / 15.9 cfm	270 cc
PDO600S	3/4"	900 l/min / 31.8 cfm	280 cc
PDO900S	3/4"	1350 l/min / 47.7 cfm	290 cc
PDO1500S	1"	2314 l/min / 81.7 cfm	450 cc
PDO2000S	1"	3085 l/min / 108.9 cfm	470 cc

Maximum Inlet Pressure: 15 bar  
Drain Connection: 1/2" Manual  
Material (housing): Stainless grade 304  
Particle removal: 1 micron



With built-in  
auto drain

## Dropout® Portable

This small and lightweight Dropout® Water Separator enables flexible installations for applications requiring a portable solution.

### Benefits

- Guaranteed 99.9999% water removal
- 'Plug and play' - transfer easily between applications
- Integrated auto drain to efficiently remove liquid water and contamination

Part No.	Inlet/ Outlet	Flow Rate
<b>PDO900T8/R</b>	3/4" BSPT	900 l/min / 32 cfm

Maximum Inlet Pressure: 15 bar  
 Water Storage: 640 cc  
 Drain Connection: 1/2" Automatic  
 Material (housing): Mild steel powder coated  
 Particle removal: 1 micron



## Dropout® Titan Water Separator

Designed to operate in environments where there is a relatively high flow of air.

### Benefits

- Guaranteed 99.9999% water removal
- Install at either point of use or down stream of air receiver tank
- Integrated auto drain

Part No.	Inlet/ Outlet	Flow Rate	Water Storage
<b>PDO4000T</b>	1" BSPT	4000 l/min / 141 cfm	790 cc
<b>PDO8000T</b>	2" BSPT	8000 l/min / 282 cfm	1580 cc

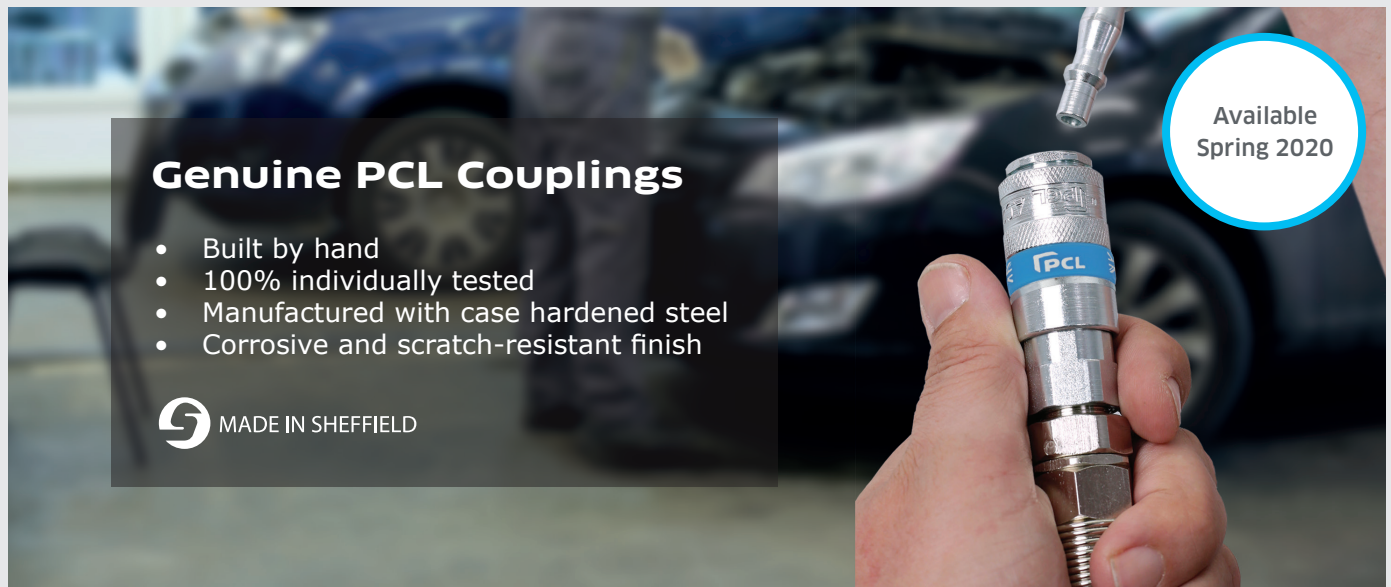
Maximum Inlet Pressure: 15 bar  
 Drain Connection: 1/2" Automatic  
 Material (housing): Mild steel powder coated  
 Particle removal: 1 micron



# DROPOUT® RANGE COMPARISON


Product Code	Flow Rate (l/min)	Water Storage (cc)	Inlet / Outlet connection (BSPT)	Drain Connection (BSPT)	Product Dimensions (mm)	Weight (kg)
PDO300PA	283	50	1/2"	1/8" Automatic	182.5 x 88 Ø	5.4
PDO60S	90	80	1/4"	1/2" Manual	230 x 34 Ø	0.51
PDO300S	450	270	1/2"	1/2" Manual	230 x 60.5 Ø	1.49
PDO600S	900	280	3/4"	1/2" Manual	270 x 60.5 Ø	1.93
PDO900S	1350	290	3/4"	1/2" Manual	310 x 60.5 Ø	2.08
PDO1500S	2314	450	1"	1/2" Manual	401 x 89 Ø	4.18
PDO2000S	3085	470	1"	1/2" Manual	465 x 89 Ø	4.52
PDO600A	1000	280	3/4"	1/2" Manual	353 x 102 Ø	1.0
PDOAD128	5760	350	1/2" / 1/8"	-	187 x 70 Ø	0.4
PDO900T8/R	900	640	3/4"	1/2" Automatic	520 x 320 x 235	9.5
PDO4000T	4000	790	1"	1/2" Automatic	765 x 320 x 300	12
PDO8000T	8000	1580	2"	1/2" Automatic	1000 x 380 x 445	26.5

## ALSO AVAILABLE



### Genuine PCL Couplings

- Built by hand
- 100% individually tested
- Manufactured with case hardened steel
- Corrosive and scratch-resistant finish

 MADE IN SHEFFIELD

Available  
Spring 2020

Explore the full range at [www.pclairtechnology.com](http://www.pclairtechnology.com)

All orders are subject to our standard terms and conditions - available on request. In line with our continuous improvement programme, we reserve the right to amend or revise the specification of our products without prior notice. Published January 2020. E. & O.E.

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