



# SERIES PCU

Portable Nitrogen Charging Unit



YOUR CREATIVE ENGINEERING PARTNER

# SERIES PCU

## Portable Nitrogen Charging Unit

Our range of Portable Charging Units are used worldwide by both commercial and military customers. The PCU's support a range of applications across commercial airliners, business jet/helicopter operators as well as military assets including helicopters, transport planes and UAV's.

Whenever you need to top-up tires, suspension struts, accumulators, emergency inflation systems and many other nitrogen charging requirements, the PCU can fulfil your needs.

### HIGHLIGHTS

- > Single or dual pressure outlets
- > Over-pressure protection
- > Charge pressure indication
- > Hose vent feature
- > On-board particulate filtration
- > High-pressure hose, with a range of accessories
- > Ergonomic, portable design, made easier with optional wheels and a telescopic handle
- > Cylinder Volume: 6.8 Litres
- > TPED Approved

### IDEAL USES

- > Inflating Tires
- > Charging Suspension Struts
- > Servicing Airbag Landing Systems
- > Charging Accumulators



Maximum  
Cylinder Pressure:  
**300**  
barg

High-Pressure  
Outlet:  
**207**  
barg

Low-Pressure  
Outlet:  
**35**  
barg

# FEATURES AND SPECIFICATIONS

Note: HP - High-Pressure,  
LP - Low-Pressure

## 1. Charge Connection

## 2. Shut-off Valve

## 3. Pressure Regulator (HP)

Range: 0 to 207 barg  
(0 to 3000 psig)

## 4. Outlet Connection (HP)

## 5. Pressure Regulator (LP)

Range: 0 to 35 barg  
(0 to 500 psig)

## 6. Outlet Connection (LP)

## 7. Flexible Hose

Fitted with hose end Schrader Valve to facilitate charging

## 8. Polyethylene Case

- > UV Resistant & Antistatic
- > Waterproof, Fireproof, Dustproof, Fungus- Proof & Moisture-Proof



## PRODUCT SPECIFICATION

Series PCU	Dual Outlet HP & LP	Single Outlet HP	Single Outlet LP
<b>Inlet Pressure</b>	300 barg (4350 psig)		
<b>Outlet Pressure</b>	HP: 207 barg (3000 psig) LP: 35 barg (500 psig)	207 barg (3000 psig)	35 barg (500 psig)
<b>Temperature Range</b>	-34 to +60°C (-29 to +140°F)		
<b>Inlet Connection</b>	G 1/4" (Male)		
<b>Hose End Connection</b>	Quick Connector G1/4" (Male) Valve Plug. Inflating Connectors		
<b>Hose Length</b>	3 or 5 Meter		
<b>Drop Test</b>	Compiled with MIL-STD-810G		
<b>Handle Option</b>	With or Without Wheels		
<b>Medium Type</b>	Nitrogen		

**Note:** The Nitrogen PCU comes in a range of configurations including, Dual Outlet satisfying both high-pressure and low-pressure requirements, single high-pressure outlet and single low-pressure outlet.

## ORDERING INFORMATION

Your PCU Assembly can be selected in full using the ordering system set out below.

Alternatively, you can contact Hale Hamilton sales at ([sales@halehamilton.com](mailto:sales@halehamilton.com)) with information on your requirements and application (i.e. tell us what you're trying to achieve).

**Note:** Standard configuration options are highlighted below in '**Bold**'. Additional configurations may occur extended lead-times.

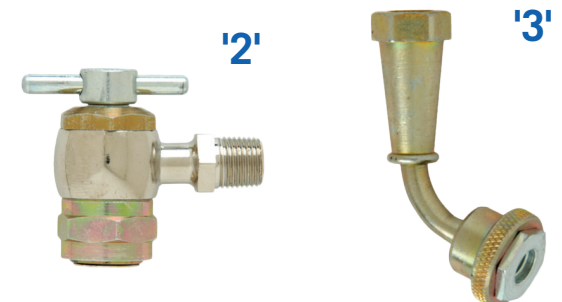
'N128347'	'N'	'YW'	'5'	'2'	'2'
Type	Medium	Case Configuration	Hose Length	Hose to Panel Connection	Outlet Hose Connection (See Below Table)
'N128347' Dual Outlet	'N' Nitrogen	'YW' Bright Yellow with Handle & Wheels	'3' 3 Meter	'1' G1/4" (M)	'1' G1/4" (F)
'N128746' HP Outlet	'H' Helium	'Y' Bright Yellow	'5' 5 Meter	'2' Quick Connector	'2' Tyre Adaptor with Air Line Connection (90°)
'N128778' LP Outlet		'BW' Bright Blue with Handle & Wheels			'3' Tyre Adaptor with Air Line Connection (70°)
		'B' Bright Blue			
		'OW' Olive Green with Handle & Wheels			
		'O' Olive Green			

Connection	Description
'2'	Air line connection: 90° to axis of valve
'3'	Air line connection: 70° to axis of valve

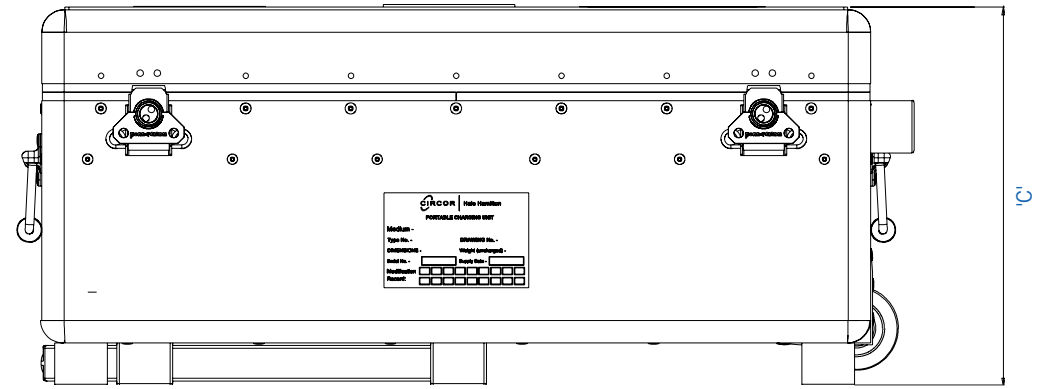
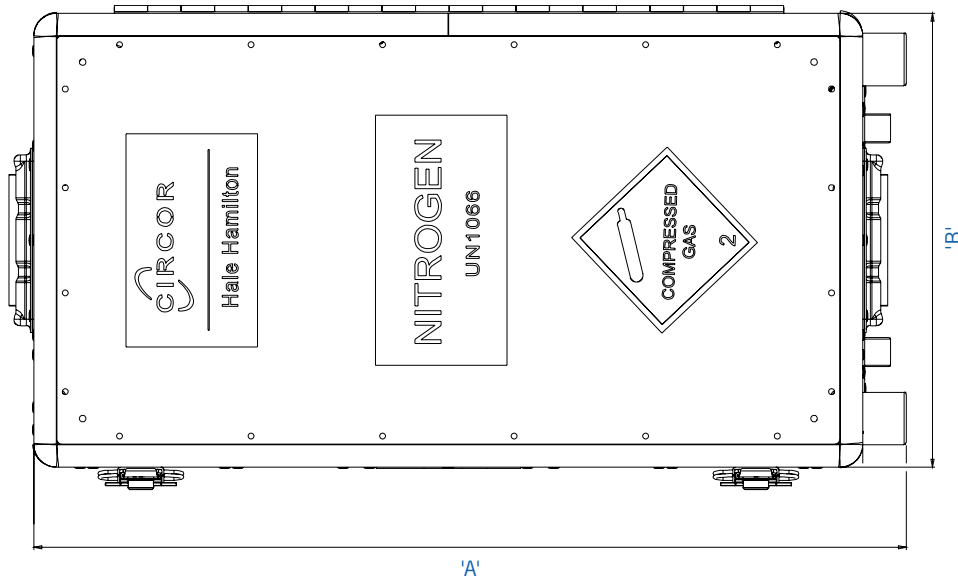
## STANDARDS AND SUPPORTING DOCUMENTATION

- > ICAO Document 2984 AN/905: Technical Instruction for the Transportation of Dangerous Goods by Air. Built-in accordance with this requirement, the PCU can fly on an aircraft fully charged.
- > Product is FOD (Foreign Object Damage) compliant. All equipment for use on an airfield must be FOD compliant thus ensuring parts on the unit will not detach, possibly being drawn into aircraft engines causing damage.
- > Product assessed in accordance with The Transportable Pressure Equipment Directive 2010/35/EU
- > Product assessed in accordance with The Transportable Pressure Vessels Regulations 2001.
- > Air Publications supporting military use are available for defence applications. Hale Hamilton Operating, Service & Maintenance instructions are provided with every unit.



# INSTALLATION DIMENSIONS

All dimensions in mm.



# PRODUCT DIMENSIONS

Series PCU	Dimensions	Weights (Charged)	
		Dual Outlet	Single Outlet
'A'	663 mm		
'B'	345 mm	With Wheel: 25 kg (55 lb)	With Wheel: 25 kg (55 lb)
'C'	288 mm	Without Wheel: 23 kg (51 lb)	Without Wheel: 23 kg (51 lb)



For further information visit  
[www.circor.com](http://www.circor.com)  
or call **+44 (0)1895 236 525**

