



**HALE HAMILTON**<sup>®</sup>  
Excellence in Pressure & Flow Control  
A CIRCOR International, Inc. Company

## Portable Charging Units

### Description

By using a carbon fibre/epoxy resin composite gas cylinder and a light but strong aluminium case we have made a Portable Charging Unit the size and weight of a small suitcase.

The unit incorporates all the valves, regulators and gauges that are needed to supply gas under pressure safely and accurately. There is space to store up to 5metres of hose and other accessories.

Because of its potential for use on airfields, all small removable parts are retained by chains to prevent foreign object damage (FOD).

The inlet includes an easily removable filter.

Materials are flame retardant and are suitable for breathing Oxygen where necessary.

The units are certified to TPED (Transportable Pressure Equipment Directive).

Full military standard documentation can be provided.

The configurations shown here are examples – we will design a system to meet your specific requirements.



Example colours – other colours can be supplied

### Standard Specification

- Cylinder charge pressure: 280bar
- Design pressure: 350bar
- Cylinder capacity: 6.8l (liquid), 1800l (gas at STP)
- Temperature range: -34 to +60°C

### Options

Please contact us for details

- Various outlet pressure ranges can be supplied
- We can design or source charging fittings or tools and arrange stowage in the case
- Ports: alternative port configurations including quick connectors can be supplied
- Materials: suitable combinations of materials can be supplied for various applications
- The case can be lightweight for easy handling or heavy duty for better survival under field conditions

### Standard Materials

Alternative materials can be supplied

- Case: polyester powder coated Aluminium
- Tubing: Copper with Brass fittings
- Elastomers: EPDM, Nylon back up rings
- Valve seats: PEEK
- Handwheels: Aluminium on regulators, plastic on stop valves

### Ordering Information

Please supply the following information when ordering

- Outlet pressure ranges
- Number of outlet pressure ranges
- Lightweight or heavy duty case
- Wheels and handle
- Flow medium
- Port configuration
- Case colour and markings
- Operating and storage temperature ranges
- Certification and QA requirements

In addition to our standard product range, we have an extensive range of special designs and offer a custom build service. Contact our Sales office if you don't see what you want in our catalogue. The information contained within this catalogue is for reference purposes only and is subject to change.

When selecting a product, the total system design must be considered to ensure safe, trouble free performance. Component function, material compatibility, adequate ratings, proper installation, operation and maintenance are the responsibility of the system designer and user.

As Australian in-country partner :

HIFraser

6/5 Vuko Place, Warriewood NSW 2102

T +61 2 9970 7322 E [bd@hifraser.com](mailto:bd@hifraser.com)

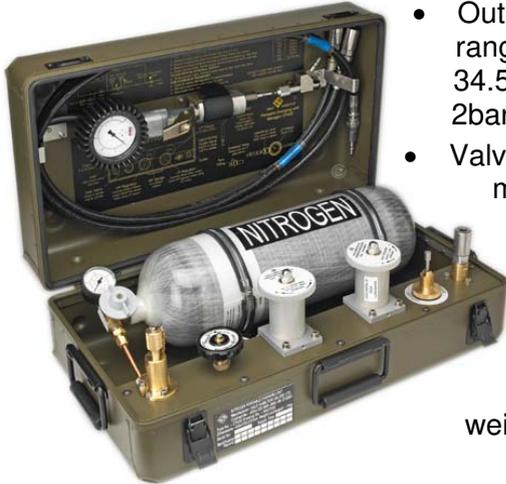
[www.hifraser.com](http://www.hifraser.com)



## Nitrogen unit – Dual Range

### Specification

NSN 3655-99-2125901

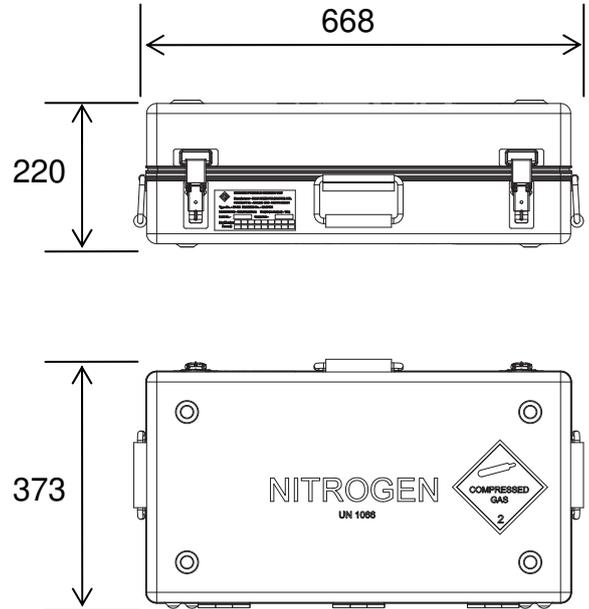


- Outlet pressure ranges: 0 to 34.5bar and 0 to 2bar
- Valve body material: Brass except regulator bodies which are Aluminium to reduce weight

- A 3m outlet hose, tyre inflator and special tyre adaptor are stowed in the case lid. These items have quick fit connectors for easy assembly.
- The tyre inflator is fitted with an automatic shut off device to prevent over inflation.
- Weight: 19kg (uncharged), 21.5kg (charged)

### Typical Dimensions

in mm except where shown otherwise



- Additional handles are fitted to allow for two-man lifting.

## Oxygen unit – Single Range

### Specification

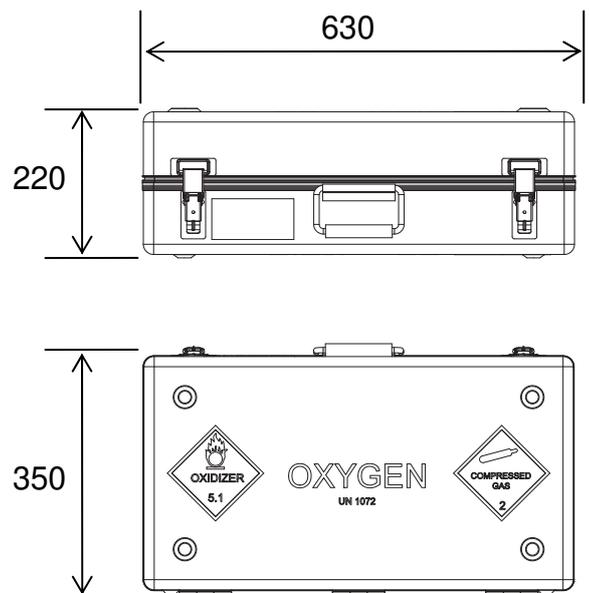
NSN 3655-99-6659781



- Outlet pressure range: 0 to 220bar
- Valve body material: Brass
- A 5m outlet hose is stowed in the case lid
- Weight: 16.5kg (uncharged), 19kg (charged)

### Typical Dimensions

in mm except where shown otherwise



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## Portable Charging Units

### Nitrogen unit Dual Range – Heavy Duty

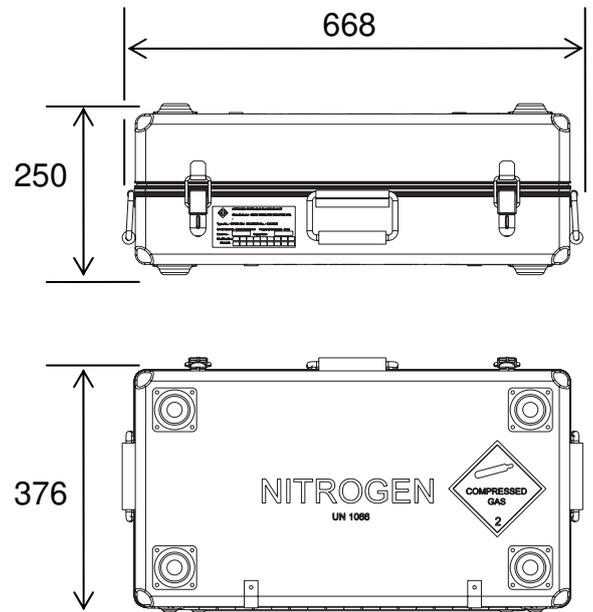
#### Specification



- Outlet pressure ranges: 0 to 207bar and 0 to 35bar
- Valve body material: Brass except regulator bodies which are Aluminium to reduce weight
- This unit uses a heavier gauge material for the case and includes protective steel feet
- A 3m outlet hose and high-pressure hand-held inflator are stowed in the case lid. These items have quick fit connectors for easy assembly.
- The inflator is fitted with two pressure gauges to give accurate readings over a wide range of pressures.
- Weight: 24kg (uncharged), 26.5kg (charged)
- Additional handles are fitted to allow for two-man lifting.

#### Typical Dimensions

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## Portable Charging Units

### Wheeled Option

### Typical Dimensions

in mm except where shown otherwise



For ease of transport we can now supply the PCU fitted with wheels and an extendable handle. These can be fitted to any configuration of PCU and a retrofit kit is available. Both the wheels and the handle are selected from proven applications and are both rugged and practical.

The handle has two extension positions and when retracted it does not increase the length of the case. The handle extends to about 950mm from the floor with an intermediate stop at 850mm. The handle is positively locked in all positions and the lock is released by a convenient press button in the handle.

Extended feet are added to protect the case and the handle mechanism. Additional feet are also fitted on the top of the case, so that the lid lies flat when open. These feet add to the height by about 30mm on each face. The wheels are recessed into the case.

- Additional weight: approximately 1kg



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## Portable Charging Units

### Ordering Information

These configurations are examples of units that we have provided to meet various customer requirements. We can configure a system to meet your requirements.

Type Number	Part number	First Outlet Max. Pressure bar (psi)	Second Outlet Max. Pressure bar (psi)	Medium	Hose	Case Colour	Weight (kg)	Accessories
CP433	NA57000	35 (500)	2 (30)	N2	2m	Green	19.3	Tyre adaptor
CP433 Mk1	N102133	220 (3200)	none	N2	5m	Blue	16.6	none
CP433 Mk2	N102729	105 (1500)	6 (87)	N2	2m	Green	21.1	Inflator
CP433 Mk3	N103273	15 (220)	2 (30)	N2	2m	Blue	22	Inflator, Tyre adaptor
CP433 Mk4	N104346	207 (3000)	35 (500)	N2	2m	Blue	24	Dual gauge inflator
CP433 Mk5	N104586	207 (3000)	none	N2	2m	Yellow	18.5	Schrader Goose neck
CP433 Mk6	N107031	50 (725)	none	N2	3m	Blue	18.7	Schrader valve
CP433 Mk7	N107542	35 (500)	2 (30)	N2	2m	Green	19.6	Tyre adaptor
CP433 Mk8	N107850	35 (500)	none	N2	3m	Blue	18.5	Schrader valve
CP433 Mk9	N108559	31 (450)	7 (100)	N2	3m	Blue	20.8	Tyre adaptor
CP433 Mk10	N108615	31 (450)	7 (100)	N2	3m	Blue	22.5	Tyre adaptor, Wheels
CP433 Mk11	N109845	207 (3000)	none	Air	3m	Blue	21	Schrader valve
CP433 Mk12	N109929	207 (3000)	35 (500)	N2	3m	Blue	21	Schrader valve
CP433 Mk13	N109980	207 (3000)	2 (30)	N2	3m	Blue	22.9	Schrader valve, Wheels
CP433 Mk14	N110403	220 (3200)	35 (500)	N2	2m	Yellow	19.6	Schrader valve
CP433 Mk15	N111046	241 (3500)	35 (500)	N2	3m	Yellow	23.3	Schrader valve, Wheels
CP433 Mk16	N111182	50 (725)	15 (220)	N2	3m	Green	20.4	Tyre adaptor
CP433 Mk17	N111502	220 (3200)	35 (500)	N2	2m	Green	19.6	Schrader valve, Wheels
CP433 Mk18	N114612	207 (3000)	none	Air	none	Black	19.1	Wheels
CP434	NA57010	220 (3200)	none	O2	5m	Green	18.1	none
CP434 Mk4	N107335	220 (3200)	none	O2	5m	Blue	19.7	none
CP434 Mk5	N109065	42 (610)	none	O2	2 x 3m	Green	25.8	Switchable restrictor
CP434 Mk6	N109070	138 (2000)	31 (450)	O2	3m	Green	22.5	none
CP434 Mk7	N111662	138 (2000)	0.7 (10)	O2	5m	Green	22.5	Wheels
CP434 Mk8	N112347	220 (3200)	none	O2	5m	Green	18.1	37°SAE connection

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