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3M™ Modulair Airline Trolley System

Technical Data Sheet

Description

The Modulair by 3M™ is a compact, easy to use airline trolley system designed to provide portable clean air in restricted access areas.

Versatile and robust, it consists of a lightweight stainless steel hose reel unit and cylinder frame that can be used independently or together.

The frame is designed to carry a pair of cylinders and where required an additional frame can be vertically stacked to allow connection of up to four cylinders.

This in conjunction with proven 300 bar high performance pneumatics delivering up to 1000 litres of breathing air per minute, permits four people to work at the same time.

Long duration operation is made simple through adjustable cylinder bands and high pressure cylinder connectors to accommodate a variety of cylinder sizes at both 200 and 300 bar.

Non-return bleed valves fitted to the cylinder connectors enable cylinders to be replaced independently for continuous operation.

Applications

The 3M™ Modulair is suitable for use in situations where clean and adequate oxygen levels air cannot be guaranteed or portability is essential.

Standards

The Modulair by 3M™ is certified to AS/NZS 1716:2012
The Modulair is also CE marked in accordance with EN139

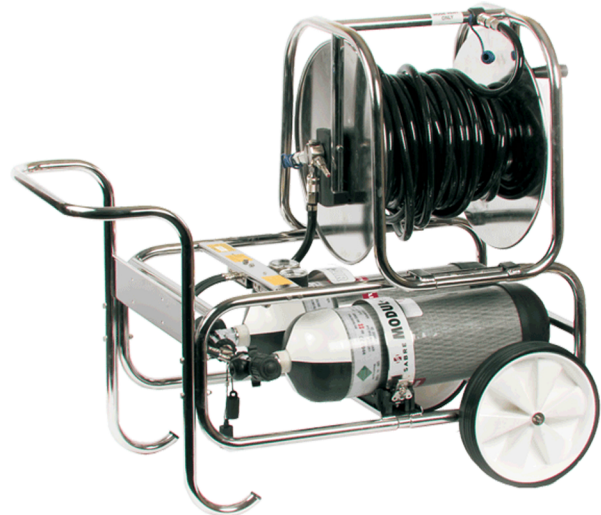
Operation/Cleaning/Service/Training

Users need to be trained in the safe operation of this equipment. Routine checks must be carried out in accordance with the user instructions. Cleaning should also only be carried out as specified in the user instructions.

For training requirements please contact 3M Training Department on Phone: 1800 445 867 or
Email: anzfallprotectiontraining@mmm.com

All servicing must be carried out by trained personnel who have been trained and are deemed competent by the manufacturer and hold a current 3M/ Scott Safety SCBA technician's certificate.

For Annual SCBA Servicing requirements please contact 3M Scott fire & Safety Service department on



Specifications

Frame	Stainless Steel
Hose Reel Drum	Stainless Steel
Wheels	Polypropylene
CEN Couplings Male	Stainless Steel
CEN Couplings Female	Nickel plated brass with stainless steel locking balls
Manifold	Nickel plated brass
Pressure Reducing Valve	Nickel plated brass
Reducing Valve Seat	Polyamide (Nylon)
O-Rings	Nitrile, Silicone, EPDM
Reducing Valve Springs	Stainless Steel
HP Pressure Gauge	Stainless Steel, Polycarbonate Lens
HP Pressure Gauge Cover	Neoprene
MP Air Supply Hose Fittings	Nickel plated brass
MP Air Supply Hose	PVC
HP Air Hose	PTCFE liner, stainless steel braiding, Estane sleeve
Valve Handwheel	Glass Filled Polyamide
Cylinder Band	Stainless Steel
Cylinder	Steel or Composite
Cylinder Valve	Nickel plated brass
Rust Tube	Brass
Airline Hose Standard	PVC



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3M™ Anti-Static Airline Hose

Technical Data Sheet

Description

Constructed from Neoprene (CR), these 3M™ hoses are suitable for general industrial use as well as specialist work eg, tank cleaning work, oil and gas etc.

Hoses are ISO Marked and approved with the full range of 3M™ Airline Breathing Apparatus.

Each hose is fitted with a male and a female CEN double action type coupling.

Applications

The airline hose is specifically designed to transfer air between an air source and the wearer of a breathing apparatus or an airline system.

The 3M™ hose can be used in conjunction with accessories such as a Y-piece to allow splitting of the hose.

Specifications

Components	Materials
Cover Material	Black Neoprene with stripe
Lining Material	Nitrile (NBR)
Reinforcement	Polyester 2 ply
Male Coupling	Stainless Steel
Female Coupling	Plated brass body with Stainless Steel Bearings

Couplings	Materials
Colour	Black with stripe
Female Coupling	CEN pattern, CEJN 340 or Rectus series 95 compatible
Male Coupling	CEN pattern, CEJN 340 or Rectus series 95 compatible
Working Pressure	1.8 Mpa
Burst Pressure	5.0 Mpa
Outer Diameter	17.4 - 19.2mm



Couplings	Materials
Bore Diameter	9.4 - 10.0mm
Weight	Approx 250g per metre
Electrical Resistance	Approx 103 Ohms

Standards

Certified to ISO standard.

Ordering Information

Scott Code	3M Code	Description
1051482	XP100069234	10 metre Black Anti-Static Hose with CEN couplings
1051486	XP100069259	20 metre Black Anti-Static Hose with CEN couplings
1051488	XP100069267	30 metre Black Anti-Static Hose with CEN couplings
1051493	XP100069283	50 metre Black Anti-Static Hose with CEN couplings

Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



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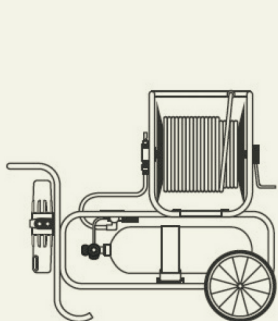
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Modulair

Airline trolley system

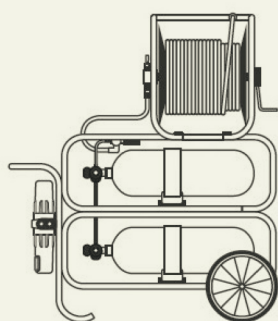


MODULAIR CONFIGURATIONS



M-FRM-2-2-HRT-AFU

Hose reel trolley assembly
– with additional AFU & MP
whistle – 2 cylinders



M-FRM-2-2-HRT-AFU

Hose reel trolley assembly
– with additional AFU & MP
whistle – 4 cylinders



STEEL CYLINDER - 6.0 litre, 300 bar

- CE specification, painted to BS specification
- complete with cylinder valve fitted with safety locking handwheel
- 1640 litre free air capacity providing total duration of 41 minutes, duration calculated using an average wearer consumption rate of 40 litres per minute
- Dimensions: 140mm diameter x 610mm long
- Fully Charged Weight: 11.9kg

INTRODUCTION

The Sabre **Modulair** is a compact, easy to use airline trolley system designed to provide portable clean air in restricted access areas.

Versatile and robust, it consists of a lightweight stainless steel hose reel unit and cylinder frame that can be used independently or together. The frame is designed to carry a pair of cylinders and, where required, an additional frame can be vertically stacked to allow connection of up to four cylinders.

This, in conjunction with proven 300 bar high performance pneumatics delivering up to 1000 litres of breathing air per minute, permits four people to work at the same time.

Long duration operation is made simple through adjustable cylinder bands and high pressure cylinder connectors to accommodate a variety of cylinder sizes at both 200 and 300 bar. Non-return bleed valves fitted to the cylinder connectors enable cylinders to be replaced independently for continuous operation.

To safeguard against any drop in air supply pressure the **Modulair** can be fitted with a medium pressure warning whistle or a DS4 (automatic distress signal unit) for both audible and visual alarms if the airline supply pressure falls below 3.8-4.1 bar (55-60 psi).

In either case, the operation of the alarm informs safety rescue personnel to switch over to the reserve air supply, change cylinders or initiate evacuation procedures as appropriate.

Modulair main advantages:

- Robust and reliable, stainless steel construction
- 2 or 4 man operation
- 2 or 4 cylinder capability
- High performance pneumatics



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Storage

The airline trolley must be stored in a clean dry environment away from direct heat and sunlight. Storage temperature should not exceed 0°C to +40°C.

Disposal

Decontaminated equipment should be dismantled and disposed of as solid waste. Empty cylinders should be treated as special waste and disposed of according to local and state guidelines.

Reducing Valve

First stage pressure reducing valve featuring non-adjustable, spring loaded piston mechanism and outlet supply protected by pressure relief valve. Valve body and cap machined from nickel-plated brass with stainless steel spring and hose retainer U-clips.

Outlet Pressure

200 bar inlet	5.5 to 9.5 bar
300 bar inlet	6.0 to 11.0 bar
Pressure relief valve protected	Approx. 13.5 bar
Flow restrictor to gauge and whistle	<25 litres per minute

Pressure Indicator & Warning Whistle

Bourdon tube type dial indicator

Heat & Impact resistant Polycarbonate Lens

Safety blow out vent in rear of gauge

Hoses

Stainless Steel Swivel Hose Fittings

Medium Pressure Hose

Maximum working pressure	16 bar
Minimum burst pressure	80 bar

High Pressure Hose

Maximum working pressure	450 bar
Minimum burst pressure	800 bar



Ordering Information

Scott Code	3M Code	Description
1051844	XP100069671	Modulair Trolley With Hose Reel 2P 2Cylinder
1051880	XP100069812	Modulair Trolley With Hose Reel 4P 4Cylinder
1051945	XP100069861	Modulair 2 Person 2 Cylinder
1051902	XP100069846	Modulair Hose Reel Only
1118245T	AT010700113	Cylinder 6.8L 300Bar Carbon Fibre (T Valve)
1127413T	AT010700121	Cylinder 9L 300Bar Carbon Fibre (T Valve)

Hoses & Accessories

Scott Code	3M Code	Description
1051463	XP100069127	10 Mtr Black Pvc Hose With Cen Couplings
1051467	XP100069143	20 Mtr Black Pvc Hose With Cen Couplings
1051471	XP100069168	30 Mtr Black Pvc Hose With Cen Couplings
1051477	XP100069200	50 Mtr Black Pvc Hose With Cen Couplings
2003397	XP100100336	Y Piece With Cen Couplings
1023353	XP100060530	Inline Whistle With Cen Couplings
1051526	XP100069333	High Pressure Reducer Whistle Pin
1051528	XP100069341	High Pressure Reducer Din 300 Bar
RXMCT	AT010700477	Airline Fitting Female With Male Thread
1051482	XP100069234	10M Hose Airline Antistatic With Stripe
1051486	XP100069259	20M Hose Airline Antistatic With Stripe
1051488	XP100069267	30M Hose Airline Antistatic With Stripe
1051493	XP100069283	50M Hose Airline Antistatic With Stripe

* Airline hose and Cylinders purchased separately

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