

# UNITOR

## REFRIGERATION HANDY TOOLS



**Engineering  
«Best Practise» requires  
the use of correct tools**

**The Unitor Refrigeration Handy Tools case contains both specialised refrigeration tools and some general hand tools that are necessary for day to day shipboard operation and maintenance of refrigeration systems and their associated control circuits.**

**The Unitor Refrigeration Handy Tools case:**

- Provides engineers with the correct tool for each individual job
- Prevents temptation to «make do» with any available tool that is neither appropriate nor designed for the task at hand
- Provides convenience for the engineers as frequent trips to the engine room tool store can be avoided
- Prevents potential damage to equipment concerned
- Improves maintenance levels
- Is robust and easy to carry
- Is lockable for security



**Barwil Unitor  
Ships Service**

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## REFRIGERATION HANDY TOOLS

### COMPLETE LIST OF ENCLOSED TOOLS

#### Specialised Refrigeration Tools

- Tube Cutter
- Tube Cutter «Mini»
- Reamer
- Flaring Tool «Diamond Head»
- Reversible Ratchet Wrench Hex 1/2" & 5/16" with Square 3/16" & 1/4"
- Reversible Ratchet Wrench Square 3/16" & 1/4" with Square 3/8" & 5/16"
- Schrader Valve Core Removal Tool
- Solenoid Valve Operating Magnet
- Evaporator Fin Straightener (Comb)

#### Hose Kit for Recovery, Vacuum & Charging (606 743211)\*

- Hose 1.8m W/Ball Valve & Sight Glass, 1/4" SAE, 800psi
- Hose W/Ball Valve, 1/4" SAE, 800psi
- Hose 0.9m, 1/4" SAE, 800psi
- Ut-04 1/4" SAE Male T-Piece

#### Additional Equipment Included:

Adaptors For Unitor Top Valve	<b>609 544932*</b>
Unitor Refrigeration Handling Guide	<b>Id.No 802140*</b>
Barwil Unitor Ball Pen	<b>Id.No 812743*</b>
Unicool Refrigerant Slide	<b>Id.No 811224*</b>
Refrigeration Fault Diagnostic Slide	<b>Id.No 802080*</b>
Unitor Infra-Red Thermometer	<b>606 737668*</b>
Volt Stick & Magnetic Field Stick	<b>606 743476*</b>

#### General Hand Tools

- Screw Driver (-)
- Screw Driver (+)
- Small Screw Driver (-)
- Small Screw Driver (+)
- Long Nose Pliers
- Split Joint Pliers
- Combination Pliers
- Angle Nose Pliers
- Adjustable Wrench

\* These items are also available separately

**Please contact your local BUCC or Account Manager for ordering this complete set of Unitor Refrigeration Handy Tools, quoting Part No 606-752154.**

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### SOME APPLICATIONS

#### Specialised Refrigeration Tools

##### Tube cutter

A clean and easy way of cutting copper pipes from 1/8" to 1 1/8" in diameter. Ideal where access is restricted.

##### Flaring tool

Gives a clean and even flare in copper tube ends to prevent leaks

##### Reversible Ratchet Wrenches

No more rounding off of charging valve spindles by the use of a shifting spanner.

##### Schrader Valve Core Removal Tool

Handy tool for removing Schrader valves from hoses to allow faster recovery, vacuuming and charging.

##### Solenoid valve operating magnet

This is used to manually operate solenoid valves and keep the refrigeration system operating in an emergency if the electrical control system fails. The control system must be repaired as soon as possible.

##### Evaporator Fin Straightener (Comb)

Use this multi-sized tool to straighten out compressed Air Handling Unit evaporator fins.

##### Hose Kit for Recovery, Vacuum & Charging

Complete with fittings for use in the «Push Pull» recovery method. The full flow Ball valves help eliminate the chance of refrigerant burns and prevent release of refrigerant into the atmosphere. Hoses come with knurled brass nuts for easy finger tightening. Handy sight glass helps to visually confirm flow of refrigerant.

##### Infrared Thermometer

Aim and read off temperatures in a range of -50°C to +500°C (-58°F to +932°F).

##### Volt and magnet stick set (batteries included)

##### Volt stick

A quick and easy way of detecting AC voltage in cables, sockets, switches, etc without metal contact. Range 110 to 1000VAC.

##### Magnet stick

Used for checking the operation of solenoid valves and relays.



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