

In the box:

- TriDri - Complete with attached cable and USB plug
- 1 USB Plug top power supply
- 1 Length of double sided "Hook & Loop" strap, length 0.65m

For details of each part see Specifications.

Please keep all packaging to store the components when not in use.

The problem with Drysuits

Drysuits often get damp inside from:

- Perspiration
- Washing
- Even Leaks

Drying the inside, particularly the boots, can be difficult and can take up to 2 weeks if soaking wet.
(see Drying Times)

Dampness may result in discomfort, unpleasant odours and even mould growth

The Solution

TriDri is a simple to use telescopic tube device with a small low voltage fan powered from any USB socket.

TriDri arrives ready to use out of the box with cable, UK Mains power supply and instructions.

TriDri can dry a soaking wet boot in 2 hours. (see Drying Time)

This is a really useful addition to your SCUBA kit.

By making a TriDri part of your SCUBA Equipment, you will never have to put on a damp drysuit again!

TriDri Specifications

TriDri

- Length Extended.....227.5cm
- Length shortened.....73cm
- Length Cable.....400cm
- Boxed dimensions.....76cm x 11.5cm x 12.5cm
- Weight TriDri.....975g
- Weight boxed.....1350g

Fan

- Rated Voltage.....5 VDC
- Operating Voltage.....4.5-5.5 VDC
- Starting Voltage.....4 VDC
- Input Current.....250 mA
- Input Power.....1.25 W
- Noise Level.....30.3 dBA
- Life Expectance.....25,000 Hours

(Continuous operating 25°C and 65%RH)

Cable

- Permanently connected to the fan
- Two core cable (4m) terminated with standard USB plug

(Standard USB sockets are rated to supply a current of 500mA and many power supplies can deliver much more.)

USB Plug-Top Supply

Input

- Input Voltage Rating 100 - 240 VAC
- Input Frequency50 / 60 Hz
- Plug Type..... Fixed Standard UK 3pin plug

Output

- Output Voltage+5 VDC
- Nominal Load Current1 Amp
- Nominal Load Power5 Watts

Other

- Output Connection StyleUSB
- Operating Temperature -10 °C to +45 °C
- Safety..... CE compliant

Velcro-type Strap (Hook & Loop Strap)

Double sided 'Hook & Loop' strap

- Length.....0.65 m

TriDri Key Design Features

Basic Physics

Water evaporation is accelerated by airflow.

The introduction of a relatively small air flow to the boot reduces the Drying Time very significantly. The outlet at the top of TriDri is directed towards the toe of the boot and so drying starts there. Otherwise this will be the last part of the suit to dry.

A drysuit dries more efficiently when hung upside down from the boots. This is why TriDri operates the way it does; it supports the suit and no other hanger is required, only a wall to lean it against.

A “hook & Loop” (known colloquially as Velcro®) is supplied to fix the boots together so that the “inactive” boot and leg also drain.

Damp air is heavier than dry air so will tend to “fall” out of the suit. Evaporation causes cooling and as cooler air is more dense, this also assists the air to “fall” out of the suit. As the boot dries, the air passing down the leg & through the rest of the suit gets gradually drier and progressively dries the rest of the suit.

Dimensions

The Extended length is approximately 2.2 meters so that the arms hang down to allow draining. The TriDri telescopes down to 0.73 meters for easy storage and transportation and it weighs less than 1 kg. The telescopic system has another advantage which is to reduce the room length needed when inserting the TriDri.

Electrical

The fan is low voltage for obvious electrical safety reasons. The low current/power consumption is very economical, see specifications. These factors allow a standard USB supply to be used; it can be run from a car phone charger plugged into a 'cigarette lighter socket' or any other USB supply.

Shape

The soft rubber bottom forms a seal that stops drips from running onto the fan. This bottom is also resilient and gives impact protection to the more rigid plastic underneath. The triangular shape of the bottom and the tubes is important in order to maintain the orientation of TriDri during use. The

outlet at the top must be directed towards the toe of the boot to allow free flow of air and efficient drying. The orientation of the outlet is always the same as the orientation of the base unit (The outlet being the same as the chamfered/sloping corner) The triangular section of the tubes also means that they always lock together when extended and do not require any twisting to locate pins. A two pronged device was prototyped to dry both legs simultaneously but was found to be too cumbersome and difficult to use. The top of TriDri is notched so that the cable can be easily and loosely wrapped from end to end for tidy storage; there are also soft clips to keep the end of the cable tidy. As with any electrical/electronic cables, sharp and or repeated bending must be avoided, so as to not to damage the conducting wires. Therefore wrapping must be done loosely to avoid any damage.

No Heat

The very low energy consumption is also an environmental consideration. We chose not to use any heating in the drier for environmental reasons and also for the integrity of Drysuits. Heat is not good for suits particularly the seals; there is no risk of overheating with TriDri.

Versatility

TriDri can be partially extended or not extended at all and still operates efficiently. Therefore it is not only a useful addition to your SCUBA equipment, it can be used to dry numerous other items:

SCUBA Equipment	Basic sausage style DSMB
Footwear	Wellington boots
Ski Equipment	Ski boots
Fishing Equipment	Waders

As drysuits are used in many other sports it can become part of your:

Sailing Equipment

Canoeing Equipment

TriDri Maintenance

TriDri is virtually maintenance free if used as per instructions.

The TriDri locks are designed so that if the tubes get contaminated with dirt, grit or sand, you can easily take the tubes apart by squeezing the “lock levers/locking buttons” while extending the tubes. To re-insert, put the smaller tube into the end of the next one and when correctly aligned (and inserted about one mm), gently squeeze the “lock levers/locking buttons”. The tubes will slide easily into each other.

- Wipe with a damp cloth
- Do not use solvents
- Keep the fan, cable, USB plug and plug-top power supply dry
- As with any electrical/electronic cables, sharp and or repeated bending must be avoided so as not to damage the conducting wires inside

TriDri Warranty

TriDri is guaranteed against manufacturing defects for a period of one year from purchase.

Your statutory rights are not affected.

Always follow the instructions

- Do not place the cable where it can be a trip hazard
- Do not allow water to get on the mains plug/power supply
- Do not use the device in a hazardous location
- Do not position the device so that it can fall in a hazardous way
- Do not position near a heat source
- Do not position where water can come into contact with any electrical device or fitting
- Do not immerse the device in any liquid
- Do not allow children to play with the device
- Use the device only for its intended purpose

TriDri Instruction Sheet

(A paper copy is supplied with every TriDri)

TriDri® Instructions

V2

Safety Information

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More information is available on the Website



www.tridridiving.com

Contents of Package

1) TriDri, 2) PSU, 3) Velcro-type Strap, 4) instructions, 5) Packaging. Retain packaging for future use.

How to use TriDri

The TriDri is extended by pulling out the tubes one at a time starting with the smallest one whilst holding the next one by the rubber ring. Gently squeeze the rubber ring above the buttons and you will feel the locking pins engage with a satisfying click. Do not squeeze the "lock levers/locking buttons" when extending. The TriDri is shortened by squeezing the "lock levers/locking buttons" and pushing the tubes one at a time into the next larger one, usually starting with the largest tube.

The TriDri locks are designed so that if the tubes get contaminated with dirt, grit or sand, you can easily take the tubes apart by squeezing the "lock levers/locking buttons" while extending the tubes. To re-insert, put the smaller tube into the end of the next one and when correctly aligned, gently squeeze the "lock levers/locking buttons". The tubes will slide easily into each other.

To dry a suit with one TriDri

Lay the drysuit on the floor with the feet towards a convenient wall toes upward. Attach the boots together using the Velcro-type strap provided. Extend the tubes one at a time into the suit through the zip opening into one leg of the suit. Always ensure that the outlet at the top of the TriDri is pointing towards the toe of the boot; this outlet has the same orientation as the front of the base unit which is the chamfered/sloping corner.

Grip the suit and tube firmly with 2 hands about a foot either side of its centre, lift it and lean against the wall. Arrange the suit to give good draining of water drops and so there are no folds to collect puddles. Connect the USB plug to the mains adapter and switch on power. A USB car charger can also be used.

Leave the suit drying for a few hours until the leg containing the TriDri is dry to the touch inside. This can be checked by reaching up inside the suit through the zip while the suit is still supported by the TriDri.

When the leg containing TriDri is dry, grip the suit and tube firmly again and lay it down. Remove the TriDri and insert it into the other leg and boot and lean against the wall as before.

To dry a suit with two TriDri units proceed as above but put one TriDri into each leg.

The drying time depends on a number of factors including: Temperature, Humidity, the initial wetness of suit, how well it is hung to drain and the amount of wobbling. As a guide, in trials, a suit was washed, inside and out, and rinsed with cold water. TriDri dried one boot and leg completely to the crotch in 6 hours in an unheated garage (-12°C). After changing the TriDri to the other leg, that leg and the rest of the suit dried in another 5 Hours. Using 2 units is quicker.

Maintenance

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- Wipe with a damp cloth
- Do not use solvents
- Keep the fan, cable, USB plug and plug-top power supply dry



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