

**HOLMAN**

# 7m Misting Kit with SwapLock® Fittings



PRODUCT CODE

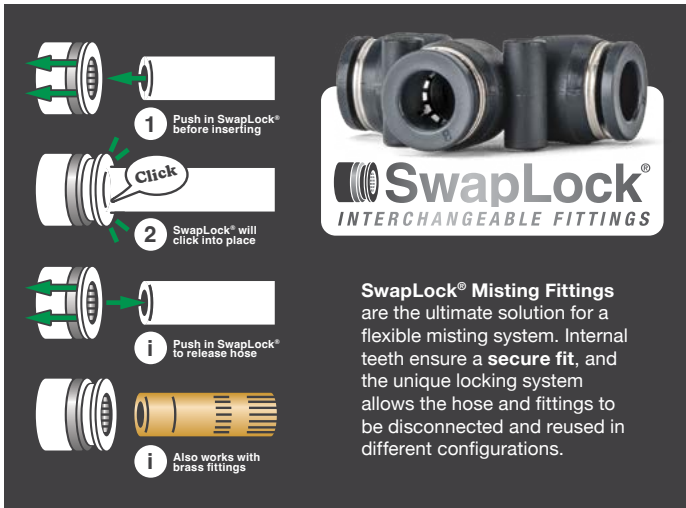
**MK31007**

[www.holmanindustries.com.au](http://www.holmanindustries.com.au)

## User Guide

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# Overview

## Outdoor Cooling Misting System

### ⚠️ PLEASE READ INSTRUCTION MANUAL BEFORE USE

- ✔️ Your **7m Misting system** features 7mm diameter high **PRESSURE TUBING** with **PRESS-RELEASE FITTINGS** that are made to match this tubing
- ✔️ These **FITTINGS** are designed to grip the **HOSE** and **NOZZLES** internally and release when the **FITTING END PIECE** is pressed, allowing systems to be adjusted and changed. No clamps are required
- ✔️ Your **7m Misting system** can be expanded with more **Holman misting parts** by purchasing the **Holman Misting Expansion Kit**, available at your Holman stockist

## The Way it Works

- ❗ Your **misting system** cools air by evaporating fine water particles emitted by **MISTING NOZZLES**
- ❗ Misting nozzles emit small amounts of water. It also breaks the water into very small droplets or a mist
- ❗ In hot conditions, small water droplets evaporate almost instantaneously. In cooler or humid conditions the evaporation rate is slower
- ⚠️ **Do not run your misting system continuously. It dampens the surrounding area**
- ❗ Solve this issue by using a **Holman Misting Timer**

# Overview (continued)

## Benefits of a Misting Tap Timer

- ✔️ To achieve the best misting results install a **MISTING TIMER**
- ✔️ Regulate the amount of water entering a space by adjusting the **ON** times and **OFF** times of the timer
- ✔️ **MISTING TIMERS** allow you to make these settings in seconds, where other timers may not have this feature
- ✔️ We have several Tap Timers available with misting settings:

**BX1**  
Bluetooth Tap Timer



Our single outlet **BX1 Bluetooth® Tap Timer** includes a Misting Timer function and is the perfect companion to your **Charcoal Misting Kit**.



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**WX1**  
Wi-Fi Tap Timer



Our **WX1 Wi-Fi Tap Timers** include a Misting Timer function and are the perfect companion to your **Charcoal Misting Kit**.



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Also available:

**MISTING  
TAP TIMER**

CO1609



Beat the heat and complete your outdoor misting setup! Perfect for the short-burst intervals needed to create a cool environment outdoors.



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# Overview (continued)

## Components

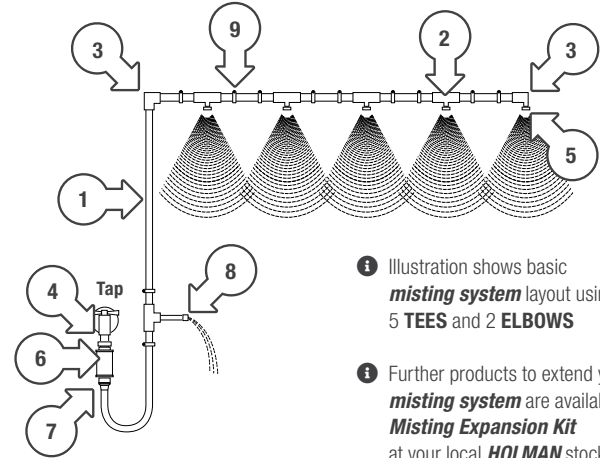
1. 1× 7m Misting Hose
2. 5× SwapLock® Tees
3. 2× SwapLock® Elbows
4. 1× Universal Tap Adaptor
5. 5× SwapLock® Brass Misting Nozzles
6. 1× Misting Filter
7. 1× SwapLock® Hose Adaptor
8. 1× SwapLock® Auto Drain Valve
9. 15× Hose Clamps



# Installation

## Plan Your Misting Installation

- i** Take 5 minutes to work out how you will run the misting **PIPEWORK**
- i** Consider where to position **MISTING JETS**, where your **WATER SOURCE** will come from and where the supply **PIPELINE** will run
- i** Position **MISTING JETS** to create a “mist curtain” surrounding your outdoor entertainment area
- i** Position **MISTING JETS** away from tables, chairs and sitting areas as **MISTING JETS** may drip water
- i** Work out what you can attach the **PIPEWORK** to and plan a route that makes attaching **PIPEWORK** easy



- i** Illustration shows basic **misting system** layout using 5 **TEES** and 2 **ELBOWS**
- i** Further products to extend your **misting system** are available in the **Misting Expansion Kit** at your local **HOLMAN** stockist

# Installation (continued)

## Water Supply

**⚠** Use only fresh tap water. Bore or dam water may contain sediment and block jets

**i** Your **7m Misting system** uses very little water volume. Each jet uses 2L/hr

**i** Your **7m Misting system** works best with a high pressure water supply

**i** The higher the pressure the more effective the droplet evaporates and cools an area

**i** Normal household water supply is usually at an adequate pressure

**i** Connect **MISTING TUBE** [1], **HOSE ADAPTOR** [7] and **FILTER** [6] directly to **GARDEN TAP**, or use a **GARDEN HOSE** to bring water from a tap in the area to the start of the misting **PIPEWORK**

**i** Use **UNIVERSAL TAP ADAPTOR** [4] if connecting to 25mm **GARDEN TAP**



**i** If **HOSE** is running in the sun, ensure it is a good quality **HOSE** to withstand the pressure when water and **HOSE** are heated—refer to page 11 for [Garden Hose connection](#)

**i** **HINT:** easily maintain the use of your garden tap for other uses, install a [Holman 2 way](#) or [4 way Tap outlet](#) and fit the misting system to one outlet

# Installation (continued)

## Positioning Misting Jets

**i** Factors to consider are:

- Spacing of **MISTING JETS**
- Location of **MISTING JETS** over tables or chairs
- How many **MISTING JETS** in a particular area

**i** There are no fixed rules to how you position the **MISTING JETS**

**i** More **MISTING JETS** means more water used and the cooler the space will become

**⚠** Too much water can be a problem—the air can become saturated and wet people and objects in the space

**i** We recommend the following:



✓ Space **MISTING JETS** [5] between 600mm and 1000mm of **TUBE** [1]

✓ Locate **MISTING JETS** away from tables and sitting areas

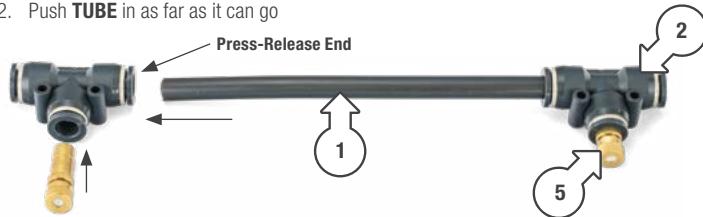
✓ Create a curtain of mist on at least two sides of the area being cooled

✓ Install a **Holman Misting Timer** to regulate the amount of water entering a space by adjusting the **ON** and **OFF** times. You would have more **ON** time on a hot dry day than a cool moist day

# Installation (continued)

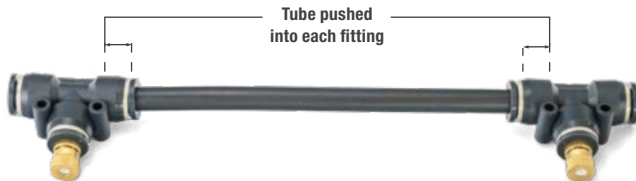
## Installing the Fittings

- 1 Your **7m MISTING SYSTEM** features **SwapLock® FITTINGS** [2]. These **FITTINGS** feature an internal ring of metal “teeth” to grip **MISTING TUBE** and **NOZZLES** and prevent them coming loose or leaking water
  - 2 The metal “teeth” release the **TUBE** [1] and **NOZZLES** [5] when the end of the **FITTING** is pressed, allowing modification of the system
  - 3 Cut the **TUBE** “square” and “burr free” to ensure a good joint
- 1 To install a **SwapLock® FITTING**, bring end of **TUBE** and **FITTING** together, level and straight, pressing the end of the **FITTING**
  - 2 Push **TUBE** in as far as it can go



- 3 Do the same for the **NOZZLE**, ensuring the end of the **FITTING** is pressed

- 4 Attempting to insert or remove the **NOZZLE** or **TUBE** without pressing the release-end of the **FITTING** can damage the internal metal teeth



# Installation (continued)

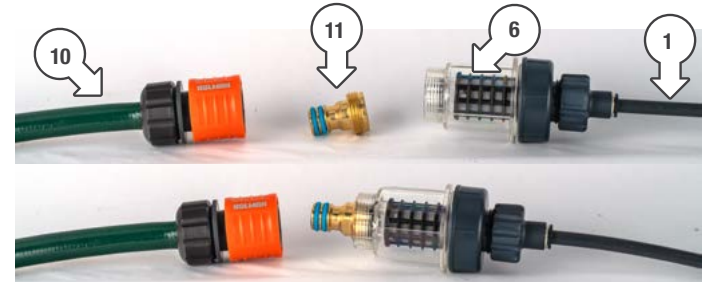
## Installing the Misting System

- 1 Each section of **TUBE** should be connected before attempting to pin your **7m MISTING SYSTEM** to walls or beams

- 1 Start at the garden tap or water source point

- 2 If using a **GARDEN HOSE** [10], install a **12mm SPRINKLER ADAPTOR** [11] into the **MISTING FILTER** [6] as shown

- 3 Run the **MISTING TUBE** [1] to the position you want your first **MISTING JET**. Use **SwapLock® TEES** or **SwapLock® ELBOWS** to go around corners or split the pipe runs



12mm  
**Sprinkler  
Adaptor**  
8010HB

The Quick Release  
snap-on fitting makes  
installing and swapping  
between hose end  
products to your garden  
hose, quick & easy!



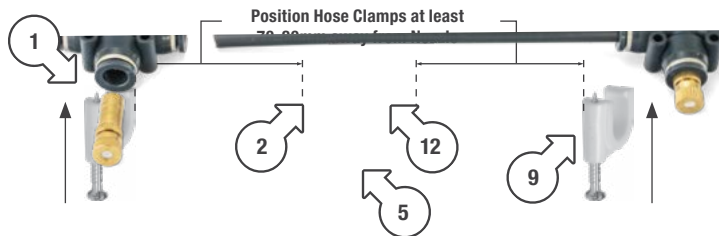
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# Installation (continued)

## Installing the Misting System (continued)

2. Work out the spacing of the **MISTING JETS** [5] and cut the **MISTING TUBE** [1] to length and install the relevant **TEES** [2]
3. Finish each line with an **ELBOW** and **MISTING JET**
4. Use the **HOSE CLAMPS** [9] to attach the **MISTING TUBE** to the wall or beams
5. The **HOSE CLAMPS** use a very strong masonry nail that should not bend when you hammer it into timber or masonry



- HINT 1:** for a discrete *misting system*, discard **HOSE CLAMPS** and install  $\varnothing 3.2 \times 30$ mm masonry nails into holes directly on **MISTING FITTINGS** [12]
- HINT 2:** run **PIPEWORK** along mortar joints in brickwork. Hammer the **HOSE CLAMPS** into the brickwork for a reliable result
- HINT 3:** use a **HOSE CLAMP** on each side of a **MISTING TEE** to ensure the **TEE** is firmly positioned and misting in the correct direction
- HINT 4:** if hammering into metal, the correct nails will need to be purchased
- HINT 5:** avoid installing the **MISTING TUBE** in direct sunlight as this may cause the **TUBE** to go brittle over time

# Installation (continued)

## Flushing the System

- i** Perhaps the most important part of the installation process is to properly flush the system
1. Remove ALL **MISTING JETS** and connect the water and run for 4 or 5 min.
    - i** This will ensure all dirt and pipe swarf is flushed from the system. If this is not done, **MISTING JETS** will clog and not work correctly
    - i** The hole size in the **MISTING JETS** is extremely small. It is like this to ensure that the water particle is very small—like a mist
  2. After misting system has been flushed, attach **MISTING JETS** to **FITTINGS**

## Water Filter

- A** It is highly recommended that the filter be installed immediately after the connection to the water source
- i** The principle of evaporative cooling relies on very small volumes of water evaporating and absorbing the ambient heat, it is critical the water entering your **7m Misting System** is clean and free of all particles that will not pass through the very small hole in the misting jet
- i** From time to time it may be necessary to clean the filter. This is best done by using cleaning solution like vinegar, available at your hardware store
- i** This will not only assist cleaning solid particles away, but it will dissolve calcium and iron deposits that build up as water evaporates in the filter and **MISTING JETS**

# Installation (continued)

## Auto Drain Valve

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- ⚠ Do not remove the end of AUTO DRAIN VALVE unless blocked. There is a very small ball inside and if opened the ball will fall out**
- i** The **AUTO DRAIN VALVE** is an important component in your **7m misting system**
- i** It stops **MISTING JETS** from “dripping” and “dribbling”
- i** The **VALVE** also stops the build up of precipitated salts (like calcium and iron) in the **MISTING PIPEWORK**
- i** Install your **AUTO DRAIN VALVE** at a low point in the system
- i** The **AUTO DRAIN VALVE** will automatically release the pressure in the line and then “dump” water in the **MISTING TUBE** “above” the level of the **AUTO DRAIN VALVE** when water is turned off
- i** Position **AUTO DRAIN VALVE** where water can run freely—for example, let it “dump” water into a drain or garden area

# Maintenance

## Drain Water from your System

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- i** When your **7m Misting system** is not in use, drain all water from it
- i** If using an **AUTOMATIC DRAINING VALVE**, this job will happen automatically

## Clean Nozzles

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- i** Periodically clean all **NOZZLES** by soaking them in a solution of vinegar, or similar calcium and iron remover

## Flush System

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- i** Periodically remove all **NOZZLES** and flush your **misting system** by running water through it for 4 or 5 min.

## Clean Filter

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- i** Periodically clean the **MISTING FILTER** by soaking in a solution of vinegar to remove calcium and iron build up

## Clean Nozzles

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- i** If **NOZZLES** are “dripping” or not misting properly, remove them and soak in cleaning solution like vinegar or similar calcium and iron remover
- i** If this fails to clean the **MISTING JET**, it is highly recommended to purchase the Holman Misting Expansion Kit and replace jets as required

## Need help? Just ask!

The Holman website has a host of additional information on features. Head to [support.holmanindustries.com.au](https://support.holmanindustries.com.au) for more tips, tricks and support content.

If you still need help, feel free to email our friendly Customer Service team at [support@holmanindustries.com.au](mailto:support@holmanindustries.com.au) or call at **08 9416 9999**.



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#SMARTGARDENER**



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and would like to say thank you for choosing us.**

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