

MIST TEC





PRODUCT OVERVIEW

Mist Tec units are manufactured from 1.2 mm stainless steel 304 grade and are designed to extinguish live sparks and embers during solid fuel and charcoal cooking applications, as well as to reduce fire risk in commercial kitchen exhaust systems. Mist Tec units have also been installed in coffee roasters, fire testing labs, and plasma cutting factories.

Mist Tec models include the 2500, 3000, and 4000, with standard airflow ranging from 300 L/s to 1500 L/s. Custom engineered, designed, and manufactured Mist Tec models are also available.

The Mist Tec unit's duct intake point has a stainless steel perforated pre filter as the first step of filtration to capture large soot and ashes particles. The stainless steel perforated pre filter is intended to gather soot and embers, which are washed away by a continuous water spray and mist from the spray nozzles that also clean and cool the airstream.

The second stage of filtering contains a stainless water baffle filter located inside the Mist Tec, which retains a small quantity of water to prevent flame penetration while also acting as a spark arrestor. The final level of filtration is the after filter, which captures any remaining soot and grease particulates in the airstream. All stainless steel perforated pre and after filters are washable and reusable.

The temperature of the burning timber in the woodfired pizza oven was around 400–450 degrees Celsius once filtered by mist and water and entering through the water stainless steel baffle and exiting the mister at 35 degrees Celsius. The ductwork temperature is also reduced due to the constant water spray and mist is cooling inside the Mist Tec unit.

The Mist Tec unit is considered as an engineered solution or alternative solution as per AS 1668 which allows the cooking process to be exhausted back into the common ductwork.

MIST TEC

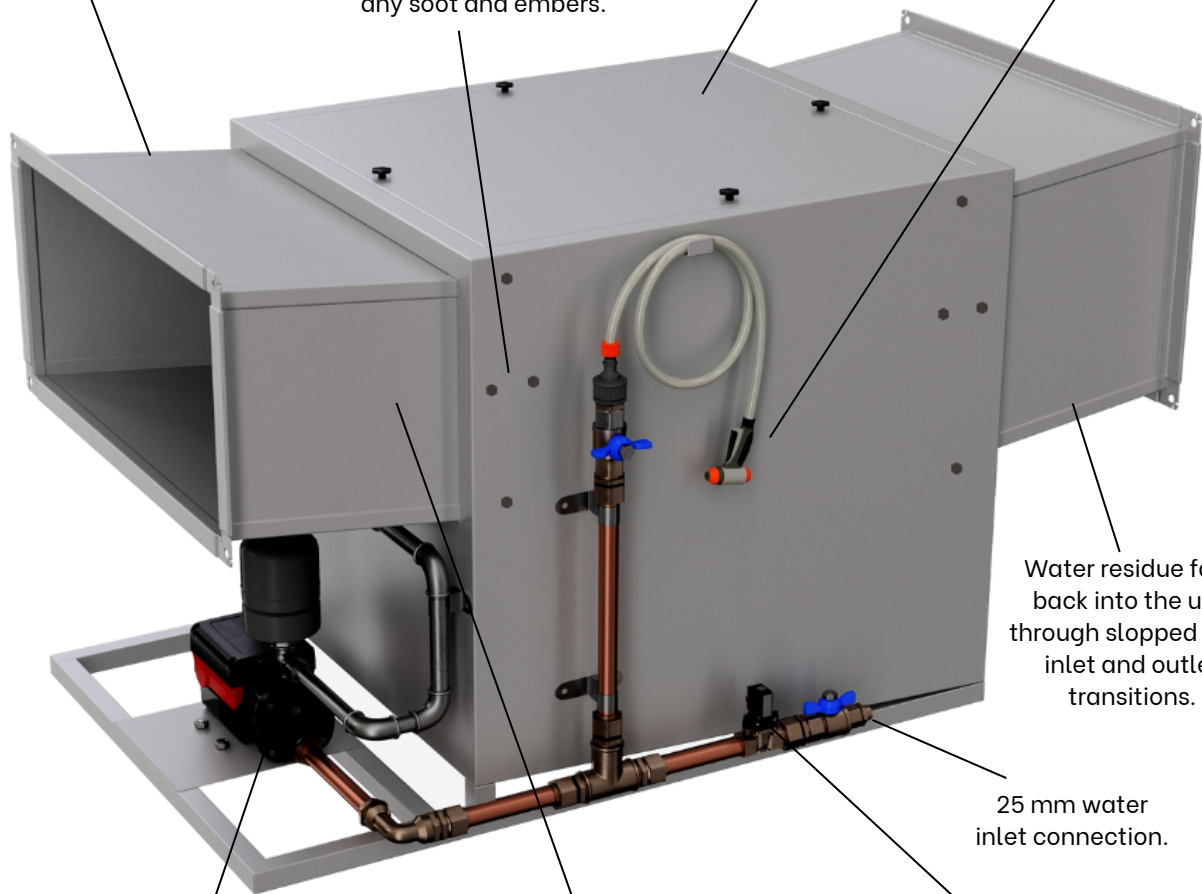
FEATURES & BENEFITS

According to the client's specifications, inlet and outlet duct transition connections can be square or circular.

To capture large grease, soot, and ashes, there are stainless steel perforated pre and after filters that are accessible through a removable side access panel on the inlet and outlet sides. These filters also get a water spray to wash and clear away any soot and embers.

Top and side access panels are removable for filter maintenance. If the top is obstructed, a side access panel is provided.

For maintenance purposes, a spray hose is attached to the side of the Mist Tec unit.



Water residue falls back into the unit through sloped duct inlet and outlet transitions.

25 mm water inlet connection.

Water pump 1- 10 bar with VSD control that is not dependent on mains water pressure. For water pump status, a remote monitor with a wall panel is available, as is bluetooth for remote connection / information.

Integration of spray nozzles for constant water spray and mist and located inside a stainless steel water baffle filter that retains water. The continuous water spray also keeps the ductwork temperature cool.

Open and close solenoid valve designed for water costs savings.



MIST TEC MODELS



Mist Tec models are certified independently by



Mist Tec Model	Dimensions	Pressure Drop	Power	L/S
Mist Tec 2500	1166 mm long 600 mm wide 740 mm high	130 Pa	x 2 - 240V connections (Plug & Play) 3.45 Amps	300 - 600 L/s
Mist Tec 3000	1400 mm long 800 mm wide 885 mm high	130 Pa	x 2 - 240V connections (Plug & Play) 3.45 Amps	600 - 1100 L/s
Mist Tec 4000	1607 mm long 952 mm wide 1035 mm high	130 Pa	x 2 - 240V connections (Plug & Play) 3.45 Amps	1100 - 1500 L/s

Note: Over 1500 L/s Mist Tec custom manufactured and engineered.



Tel: (02) 9721 0020

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Email: info@aosaus.com.au

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Web: www.aosaus.com.au