



AIRWIPES BROCHURE



www.marldon.com



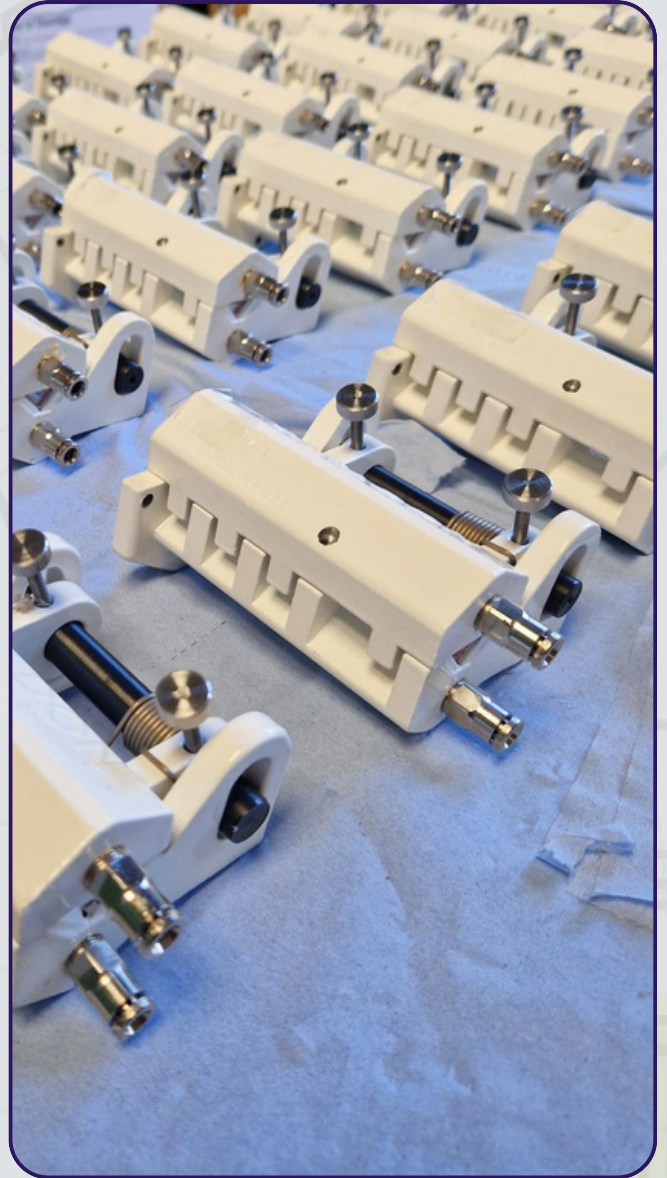
0151 632 3146

APPLICATION & PRINCIPLE

Following the extrusion of soft materials, typically involving insulated cables and tubes, the use of Airwipes becomes essential for eliminating cooling water droplets or films. This process is crucial for ensuring the efficient operation and protection of downstream in-line equipment.

The Marldon Airwipe range excels in achieving optimal wiping action while maintaining modest air consumption. This efficiency is attributed to their adjustability, allowing customisation to accommodate the diameter of the processed product. The quick and straightforward adjustment to the ideal orifice diameter ensures sufficient clearance for potential vibrations. Moreover, these Airwipes are designed to open as needed, facilitating the passage of knots or lumps through the system.

Air consumption varies directly with the orifice size; the smaller the orifice used, the lower the air consumption.



TYPES AVAILABLE

Marldon manufactures 3 types of airwipe covering a wide range of cable/tube sizes and line speeds.

① Adjustable Orifice Air Wipe



Model 688

from 2 to 12 mm at speeds up to 350 metres/min

Model 674

from 3 to 22 mm at speeds up to 350 metres/min

Model 685

from 12 - 65 mm at speeds up to 350 metres/min

② High-Speed Airwipe



Model 838

from 0.5 to 8 mm at speeds up to 1000 metres/min

③ Adjustable Post Airwipe



Model 115

from 50 to 115 mm at speeds up to 50 metres/min

Model 150

from 50 to 150 mm at speeds up to 50 metres/min

*Marldon airwipes cater for generally round materials - we offer no equipment specifically to handle flat or profiled materials although they may prove satisfactory.

PRODUCT DETAILS

Adjustable Orifice Models – 688 / 674 / 685

Material: stainless steel. Each model has 2 wheels, each with a groove of increasing depth cut around the circumference. The wheels are marked with diameter indications around the circumference to facilitate setting the airwipe for the appropriate cable diameter being processed. These indications are the largest cable diameter at that setting – not the orifice diameter. Each wheel can be positioned so that the contact point between the two wheels gives the chosen orifice for the cable being processed. The wheels index into fixed positions. The design gives a 360°, surround air jet, which is directed slightly upstream. Air only exits at the position where the cable passes through. One wheel is mounted on a hinged “floating” bracket which enables it to ride over knots or lumps.

High-Speed Model 838

Material: aluminium & ceramic. model, comprises an upper and lower section, with 9 air jets. Each section is fitted with ceramic protectors to prevent wear as the cable contacts the airwipe. Contact is intended as it facilitates water removal. The upper and lower sections are designed with exit vents to allow removed water to escape. The upper and lower halves are hinged and kept together by a spring, allowing the airwipe to open as necessary for the passage of knots and lumps. The airwipe is fitted with simple adjustment to modify the distance between the two sections to allow optimum settings for the cable diameter.

Adjustable Post Model 115 / 150

Material : stainless steel & brass. Two tubes are supported on hinged arms. Each tube comprises a central tube and an outer sleeve. The inner tube has an air exit slot (either 115mm or 150mm long) pointing towards the opposite tube. The outer sleeve has 4 slots, one slot at each 90° position around the sleeve. These slots are of different lengths and the required slot length for the cable diameter is chosen by rotating the sleeve. The tube support arms can be adjusted to rest at the customers chosen width apart, but are spring loaded to open wider and then return to rest to allow the passage of knots and lumps. A support roller is provided to carry the larger cables used on this size airwipe.

Installation

All models except the 838 are handed. The airwipe should be mounted so that the airflow is directed upstream. The airflow of the model 115 & 150 is towards the roller. The airflow of the models 688, 674 & 685 is towards the support bracket. If the airwipe must be placed in position which does not give the correct direction of airflow, the unit can be simply dismantled and rebuilt to change the direction. (Please contact Marldon).

Air Supply

All models require dry, filtered compressed air at 5 bar. The efficiency of operation will be entirely dependent upon the quality and pressure of the air and the correct setting and location of the airwipe. We also suggest that a pressure reducing valve is placed in the line if 5 bar is not necessary in the particular application.

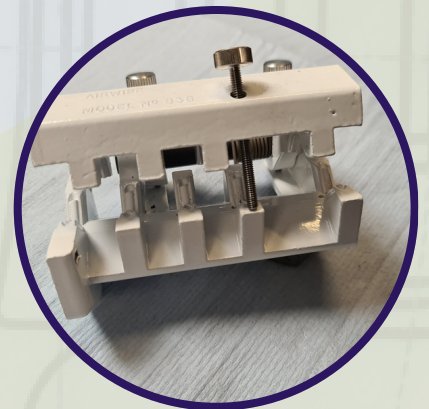
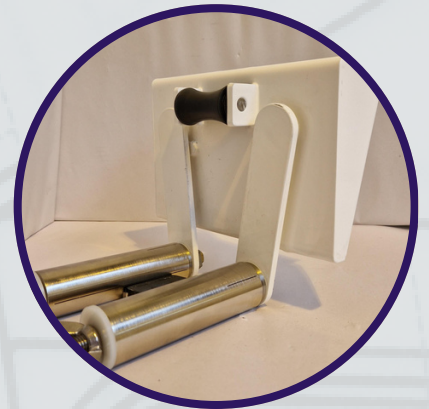
COMPETITIVE ADVANTAGE

Marldon Airwipes all offer the facility to vary the cable path orifice diameter thus allowing one Airwipe to cater for a range of cables with equal efficiency for each diameter cable. This contrasts with other manufacturers' products which usually offer fixed diameter orifices which means that a different unit will be needed to accommodate EACH cable diameter. By using a Marldon Airwipe you only need one unit to cover a range of diameters."

For high-speed Airwiping, the Marldon model 838 is the only Airwipe to break the surface tension of the water during the drying process - increasing efficiency.

"Just installed two Marldon model 674 Air Wipes on a jacketing line for a cabled product. We run a different product OD every day. This design is fantastic for adjusting to our needs. Additionally, the hinged feature is perfect for start-ups and splices. A clever design that solves a lot of common problems. Great product!"

Russ Johnson
Process Engineer
Southwire Company





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