



AIRWIPES

Application & Principle

After extrusion of soft materials (usually insulated cables and tubes”), airwipes are necessary to remove cooling water droplets or films to facilitate the proper operation of, and protection of, downstream in-line equipment. The Marldon airwipe range achieves maximum wiping action with modest air consumption because they are adjustable to suit the diameter of the product being processed. Quick and simple adjustment to the optimum orifice diameter allows enough clearance to allow for vibration. They also open when necessary to allow the passage of knots or lumps.

Air consumption varies directly with the orifice size; the smaller the orifice used, the lower the air consumption. A table of illustrations of air consumption is given overleaf.

Competitive Advantage

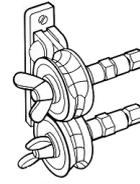
Other manufacturers’ airwipes usually have fixed diameter orifices, so a different unit is needed to satisfactorily wipe EACH cable diameter. One Marldon airwipe will effectively wipe a range of diameters. And for high speed airwiping, the Marldon model 838 is the only airwipe to break the surface tension of the water during the drying process - increasing efficiency.

Types Available

Marldon manufactures 3 types of airwipe covering a wide range of cable / tube diameters

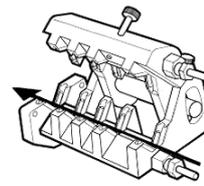
Adjustable Orifice Air Wipe

<u>Model Ref:</u>	<u>Cable Diameter</u>	<u>Maximum Speed</u>
688	2mm - 12mm	350 m/min
674	3mm - 22mm	300 m/min
685	12mm - 65mm	200 m/min



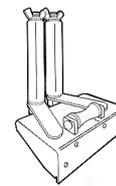
High Speed Airwipe

<u>Model Ref:</u>	<u>Cable Diameter</u>	<u>Maximum Speed</u>
838	0.1 mm - 8mm	1000 m/min



Adjustable Post Airwipe

<u>Model Ref:</u>	<u>Cable Diameter</u>	<u>Maximum Speed</u>
115	50mm - 115mm	50 m/min
150	50mm - 150mm	50 m/min



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

Tel: +44 (0)870 907 0017 · Email: sales@marldon.com · Website: www.marldon.com



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. Marldon offers a control panel to control the air supply, incorporating a moisture filter, pressure reducing valve (with pressure indicated gauge) and electric shut-off valve (24, 110 or 240 volt). (See separate literature).