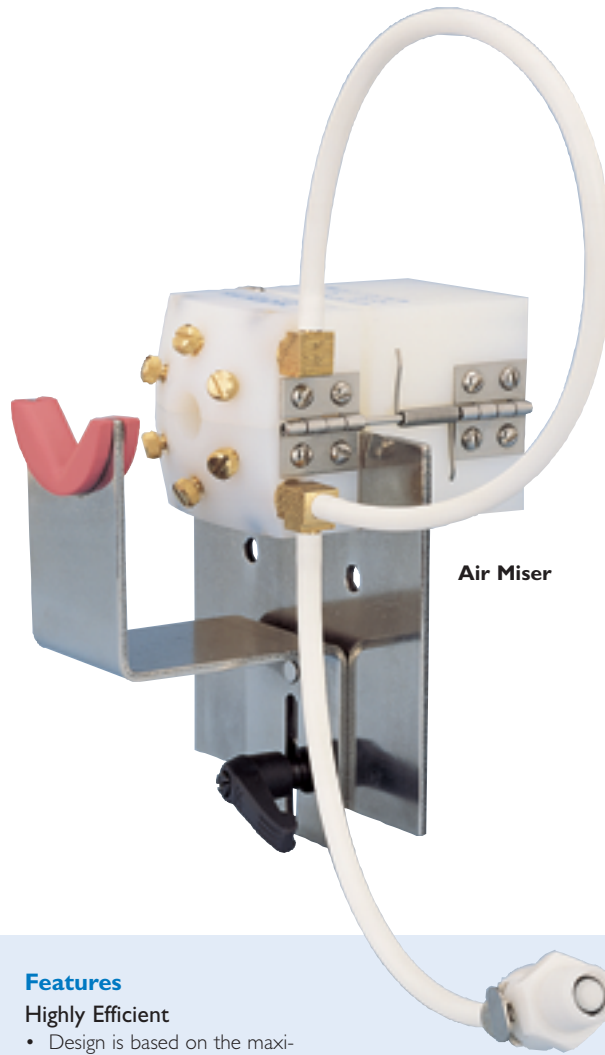




Air Wipes specifications

Air Wipes

Air Miser™, Mini Wipe™ & Rectangular Air Wipes



Air Miser

Drying wire, cable and other extrusions can be a tricky, expensive business. Huestis Industrial Air Wipes use precision controlled air flow to save air, reduce noise and dramatically cut energy consumption.

Air Miser™ automatically passes knots and splices and features quick bracket and air disconnects to make size changes a snap. Mini Wipe™ features protective ceramic inserts for bare wire applications, while Rectangular Wipes handle strip and other profiles.

All versions feature very efficient, economical and quiet operation.

Features

Highly Efficient

- Design is based on the maximization of controlled, properly directed air flow.
- A Venturi effect is also created further increasing airflow.
- Uses much less air than an open pressurized line or adjustable model.

Very Economical

- Significantly cuts operating costs vs. adjustables or centrifugal blowers.
- Uses approximately .016 m³/min. per air jet at 2.8 bar (.56 SCFM at 40 PSI).

Extremely Quiet

- Low airflow provides a measurable decrease in noise level output.
- Produces only 75 dB at 3.5 bar (50 PSI).

Versatile Applications

- Dries wire, cable, plastic, tubing, strip, and extrusions after cooling immersion.
- Ensures proper inspection, testing, printing, packaging and storage.

Non-Corrosive Materials

- Solid UHMW polyethylene bodies, removable brass jets, non-marking ceramic guides, stainless brackets.
- Custom Teflon®, stainless or aluminum bodies and stainless jets available.

Critical Sizing

- Properly sized tolerances dry various products better than adjustable models.
- Quick-disconnect air line fittings and brackets allow fast size changes.

Air Miser

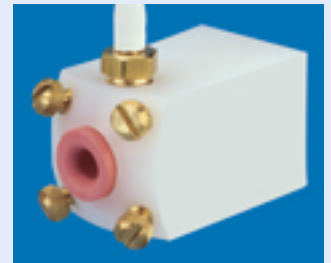
- Split block, spring-hinged design allows knots, splices and other oversize irregularities to pass through without stopping production.
- Easily opened bodies allow quick thread up or line replacement.
- Snap-on mounting brackets offer quick changes and allow either right-left or left-right line direction.
- Three bracket sizes handle the full range of standard Air Misers.
- Adjustable centering guide with long wearing ceramic cradle offers proper exit alignment.
- Convenient handle offers quick, easy guide adjustments without tools.

Mini Wipe

- Ceramic inserts offer chafe protection needed for bare wire applications.
- Non-opening, low profile body easily fits into tight process lines.
- Offered with either flat or angled (90°) mounting brackets.

Rectangular Air Wipe

- Rectangular Wipe handles strip, multiple lines and custom shapes.
- Standard .125" - .250" (3.2 - 6.4 mm) high openings are available in widths from 1.00" - 4.00" (25.4 - 101.6 mm).
- Split block, spring-hinged design simplifies thread-up.
- Custom sizes and profiles available.



Mini Wipe

Designed for bare wire applications, Mini Wipe features protective ceramic inserts and low profile bodies.



Rectangular Wipe

Rectangular Wipe features .125" - .250" (3.2 - 6.4 mm) high slot openings from 1.00" - 4.00" (25.4 - 101.6 mm) wide.

Drying Theory

Controlled Air Flow

- Air is channeled through a manifold in the body and distributed to a ring of jets.
- Jet orifices restrict airflow to provide efficient drying at the lowest possible air consumption.
- Turbulence created by controlling air flow and direction removes water from the material surface.
- A Venturi effect is also created within the air wipe further increasing airflow.
- Sizes are recommendations only. Specific applications may require less or greater clearance for proper drying.
- Custom openings up to 7" (177.8 mm) dia. available.



Air Miser Drying Cycle

Wet material enters rear of Air Miser from a cooling trough or quenching tank. Material is then exposed to a ring of drying air jets. Dry material exits the Air Miser, aided by an adjustable ceramic centering guide.

Air Flow/Noise

Efficient, Quiet Operation

- Most manufacturing plants already use compressed air making conversion to Air Wipes both quick and cost effective.
- Very often, a change to Air Wipes has resulted in reducing the number of compressors on line.

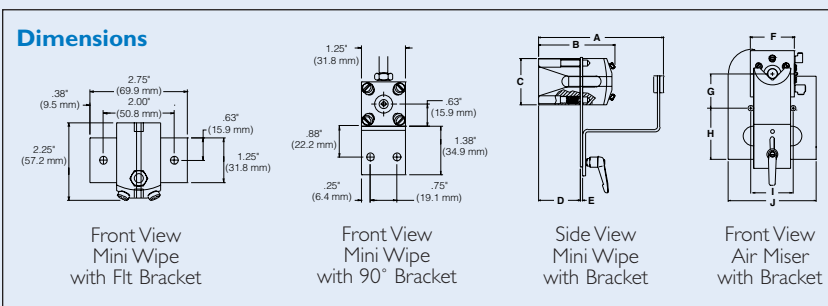
- Air Wipes require only a fraction of the horsepower needed to generate equal electrical requirements of a centrifugal blower.
- Air Wipes controlled airflow produces much lower noise levels than open lines or adjustable models.

| Air Flow | Air Miser* Flow per Jet | Mini Wipe* Flow per Jet | dB* Level |
|------------------|---------------------------------------|---------------------------------------|-----------|
| 10 PSI (0.7 bar) | .238 SCFM (.0067 m ³ /min) | .227 SCFM (.0064 m ³ /min) | 74.5 |
| 20 PSI (1.4 bar) | .354 SCFM (.0100 m ³ /min) | .336 SCFM (.0095 m ³ /min) | 74.5 |
| 30 PSI (2.1 bar) | .460 SCFM (.0130 m ³ /min) | .454 SCFM (.0128 m ³ /min) | 74.5 |
| 40 PSI (2.8 bar) | .557 SCFM (.0158 m ³ /min) | .579 SCFM (.0164 m ³ /min) | 74.8 |
| 50 PSI (3.5 bar) | .653 SCFM (.0185 m ³ /min) | .673 SCFM (.0190 m ³ /min) | 75.0 |
| 60 PSI (4.2 bar) | .751 SCFM (.0213 m ³ /min) | .770 SCFM (.0218 m ³ /min) | 76.0 |
| 70 PSI (4.9 bar) | .843 SCFM (.0239 m ³ /min) | .870 SCFM (.0246 m ³ /min) | 77.5 |
| 80 PSI (5.6 bar) | .948 SCFM (.0268 m ³ /min) | .984 SCFM (.0278 m ³ /min) | 80.0 |

*Per ea. 750" (19.1 mm) empty Air Wipe. Results may vary.

| Air Miser Size Range* | Bracket Model | A | B | C | D | E | F | G | H | I | J |
|---------------------------------|---------------|------------------|------------------|------------------|-----------------|---------------|------------------|------------------|-----------------|------------------|------------------|
| .125" - 1.25" (3.2 - 31.8 mm) | AW463 | 6.39" (162.3 mm) | 3.92" (99.6 mm) | 2.38" (60.5 mm) | 2.15" (54.6 mm) | .12" (3.0 mm) | 2.25" (57.2 mm) | 1.75" (44.5 mm) | 2.63" (66.8 mm) | 2.00" (50.8 mm) | 4.50" (114.3 mm) |
| 1.50" - 3.00" (38.1 - 76.2 mm) | AW484 | 5.95" (151.1 mm) | 4.75" (120.7 mm) | 4.50" (114.3 mm) | 2.15" (54.6 mm) | .12" (3.0 mm) | 4.50" (114.3 mm) | 3.19" (81.0 mm) | 3.31" (84.1 mm) | 2.00" (50.8 mm) | 5.50" (139.7 mm) |
| 3.50" - 4.00" (88.9 - 101.6 mm) | AW495 | 5.95" (151.1 mm) | 4.75" (120.7 mm) | 7.00" (177.8 mm) | 2.15" (54.6 mm) | .12" (3.0 mm) | 7.00" (177.8 mm) | 4.00" (101.6 mm) | 3.75" (95.3 mm) | 5.50" (139.7 mm) | 7.50" (190.5 mm) |

*Please contact Huestis Industrial for Rectangular Wipe sizes and dimensions.



Models *Mini Wipe offered in six std. sizes. **AW165 is 90° - AW166 is flat.

| Air Miser/Mini Wipe* | Opening Size | Max Wire Size | Min Wire Size | Jet No. | Bracket Model** |
|----------------------|------------------|--|-------------------|---------|----------------------|
| AMS0062 MW0062* | .062" (1.6 mm) | .031" (0.8 mm) | N/A | 4 2 | AW463 AW165/166** |
| AMS0125 MW0125* | .125" (3.2 mm) | .093" (2.4 mm) | .031" (0.8 mm) | 6 4 | AW463 AW165/166** |
| AMS0187 MW0187* | .187" (4.7 mm) | .156" (4.0 mm) | .093" (2.4 mm) | 6 4 | AW463 AW165/166** |
| AMS0250 MW0250* | .250" (6.4 mm) | .219" (5.6 mm) | .156" (4.0 mm) | 6 4 | AW463 AW165/166** |
| AMS0312 MW0312* | .312" (7.9 mm) | .281" (7.1 mm) | .219" (5.6 mm) | 6 4 | AW463 AW165/166** |
| AMS0375 MW0375* | .375" (9.5 mm) | .343" (8.7 mm) | .281" (7.1 mm) | 6 4 | AW463 AW165/166** |
| AMS0438 | .438" (11.1 mm) | .406" (10.3 mm) | .343" (8.7 mm) | 6 | AW463 |
| AMS0500 | .500" (12.7 mm) | .469" (11.9 mm) | .406" (10.3 mm) | 6 | AW463 |
| AMS0625 | .625" (15.9 mm) | .594" (15.1 mm) | .469" (11.9 mm) | 6 | AW463 |
| AMS0750 | .750" (19.1 mm) | .719" (18.3 mm) | .594" (15.1 mm) | 6 | AW463 |
| AMS1000 | 1.00" (25.4 mm) | .969" (24.6 mm) | .719" (18.3 mm) | 6 | AW463 |
| AMS1250 | 1.25" (31.8 mm) | 1.187" (30.1 mm) | .969" (24.6 mm) | 8 | AW463 |
| AMS1500 | 1.50" (38.1 mm) | 1.469" (37.3 mm) | 1.187" (30.1 mm) | 8 | AW484 |
| AMS2000 | 2.00" (50.8 mm) | 1.969" (50.0 mm) | 1.469" (37.3 mm) | 8 | AW484 |
| AMS2500 | 2.50" (63.5 mm) | 2.469" (62.7 mm) | 1.969" (50.0 mm) | 12 | AW484 |
| AMS3000 | 3.00" (76.2 mm) | 2.969" (75.4 mm) | 2.469" (62.7 mm) | 12 | AW484 |
| AMS3500 | 3.50" (88.9 mm) | 3.469" (88.1 mm) | 2.969" (75.4 mm) | 12 | AW495 |
| AMS4000 | 4.00" (101.6 mm) | 3.969" (100.8 mm) | 3.469" (88.1 mm) | 12 | AW495 |
| AMS4500 | 4.50" (114.3 mm) | 4.469" (113.5 mm) | 3.969" (100.8 mm) | 14 | AW495 |
| AMS5000 | 5.00" (127.0 mm) | 4.969" (126.2 mm) | 4.469" (113.5 mm) | 16 | AW495 |
| AMS5500 | 5.50" (139.7 mm) | 5.469" (138.9 mm) | 4.969" (126.2 mm) | 16 | AW503 |
| AMS6000 | 6.00" (152.4 mm) | 5.969" (151.6 mm) | 5.469" (138.9 mm) | 18 | AW503 |
| AMS6500 | 6.50" (165.1 mm) | 6.469" (164.3 mm) | 5.969" (151.6 mm) | 20 | AW503 |
| AMS7000 | 7.00" (177.8 mm) | 6.969" (177.0 mm) | 6.469" (164.3 mm) | 22 | AW503 |
| Rectang. Wipe | Std. Open Height | Std. Opening Length (Custom available) | | Jet No. | Bracket Model |
| RWO125- | .125" (3.2 mm) | 1.00" - 4.00" (25.4 - 101.6 mm) | | 4-16 | N/A |
| RWO250- | .250" (6.4 mm) | 1.00" - 4.00" (25.4 - 101.6 mm) | | 4-16 | N/A |

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