

Down Draft Air Wipers

Air Miser™

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

The down drafter is an innovative new design that incorporates air jets at both ends of the wiper and a center bottom drain that is threaded to allow the user to hook up a vacuum unit, piping, or a tube to return the liquid back to the process system. This design allows for multiple ganging of units within a system without excessive “blow back” onto the following air wipers, thus increasing drying efficiency. This unit also has enhanced performance over our standard air miser as a stand alone or a single unit on a process line.

Customers find that its unique properties make it ideal for many process applications at high speeds where improved drying prior to printing applications or spooling is critical.

Features

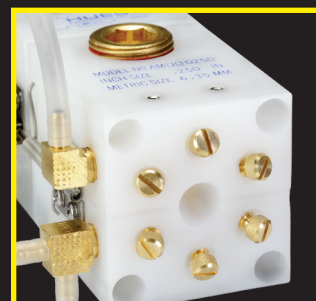
Highly Efficient

- 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)

Down Draft Air Wipers



Extremely Quiet

- Low airflow provides a measurable decrease in noise level output. Produces only 75 dB at 3.5 bar (50 PSI). Based on standard Air Miser™

Versatile Applications

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

Non-Corrosive Materials

- Solid UHMW polyethylene bodies, removable brass jets, nonmarking 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.

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 in (177.8 mm) diameter available

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.

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Specifications

Down Draft	Opening Size	Max. Wire Size	Min. Wire Size	Jet No.	Bracket Model
AMDD0062	.0625 in (1.59 mm)	.031 in (.787 mm)	N/A	4	AW463
AMDD0125	.125 in (3.18 mm)	.093 in (2.36 mm)	.031 in (.787 mm)	6	AW463
AMDD0187	.187 in (4.75 mm)	.156 in (3.96 mm)	.093 in (2.36 mm)	6	AW463
AMDD0250	.250 in (6.35 mm)	.219 in (5.56 mm)	.156 in (3.96 mm)	6	AW463
AMDD0375	.375 in (9.53 mm)	.343 in (8.71 mm)	.281 in (7.14 mm)	6	AW463
AMDD0500	.500 in (12.7 mm)	.469 in (11.91 mm)	.406 in (10.31 mm)	6	AW463
AMDD0625	.625 in (15.88 mm)	.594 in (15.09 mm)	.469 in (11.91 mm)	6	AW463
AMDD0750	.750 in (19.05 mm)	.719 in (18.26 mm)	.594 in (15.09 mm)	6	AW463
AMDD1000	1.00 in (25.4 mm)	.969 in (24.61 mm)	.719 in (18.26 mm)	6	AW463
AMDD1250	1.25 in (31.75 mm)	1.187 in (30.15 mm)	.969 in (24.61 mm)	8	AW463

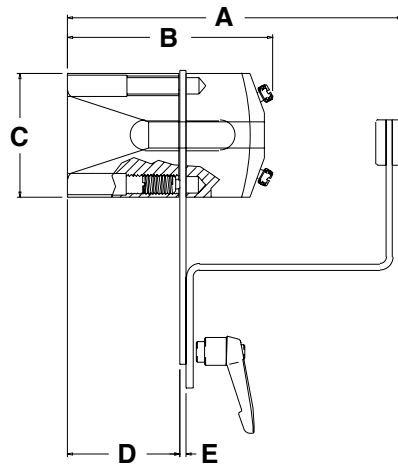
Air Flow	Air Miser* Flow per Jet	dB* Level
10 PSI (0.7 bar)	.238 SCFM (.0067 m ³ /min)	74.5
20 PSI (1.4 bar)	.354 SCFM (.0100 m ³ /min)	74.5
30 PSI (2.1 bar)	.460 SCFM (.0130 m ³ /min)	74.5
40 PSI (2.8 bar)	.557 SCFM (.0158 m ³ /min)	74.8
50 PSI (3.5 bar)	.653 SCFM (.0185 m ³ /min)	75.0
60 PSI (4.2 bar)	.751 SCFM (.0213 m ³ /min)	76.0
70 PSI (4.9 bar)	.843 SCFM (.0239 m ³ /min)	77.5
80 PSI (5.6 bar)	.948 SCFM (.0268 m ³ /min)	80.0

*Per each .75" (19.05 mm) empty Air Wipe. Results may vary.

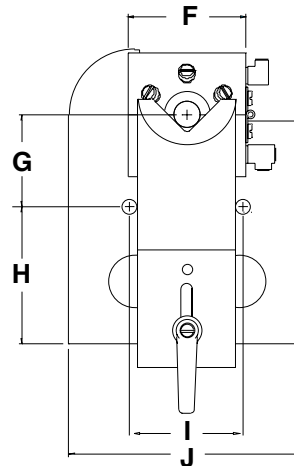
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Specifications (Continued)

Air Miser Size Range	Bracket Model	A	B	C	D	E	F	G	H	I	J
.125–1.25 in (3.18–31.75 mm)	AW463	6.39 in (162.3 mm)	3.92 in (99.57 mm)	2.38 in (60.45 mm)	2.15 in (54.61 mm)	.12 in (3.05 mm)	2.25 in (57.15 mm)	1.75 in (44.45 mm)	2.63 in (66.8 mm)	2.00 in (50.8 mm)	4.50 in (114.3 mm)



Side View Air Miser
with Bracket



Front View Air Miser
with Bracket