



Streamtek Corp. brings you solutions for a new economy.

360° Regular Air Wipe

Technical Guide

Regular Air Wipe provide a uniform 360° airflow ideal for cooling, blowoff, cleaning, and drying of cable, wire, hose, extruded shapes, pipe and more. The open and shut 2-piece design allows for easy placement of products.



Version 1.0



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A high-pressure cell, likely a diamond anvil cell (DAC), is shown. It consists of two diamond anvils (top and bottom) that compress a sample. The sample is surrounded by a pressure-transmitting fluid. The cell is connected to a pressure-transmitting fluid system, which is used to generate and maintain high pressure. The cell is made of a material that is transparent to X-rays, such as sapphire, to allow for X-ray diffraction measurements.



Materials:

Mounting:

Shims:

Compressed Air Inlet(s):

Air Filtration:

Pressure Regulation:

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Air Consumption*: Regular Air Wipe						
	Air Consumption per inch. With .002" (0.05mm) Shim					
PRESSURE SUPPLY	1/2"	1"	2"	3"	4"	6"
20 PSIG (1.4 Bar)	4 (133 SLPM)	11 (311 SLPM)	15 (425 SLPM)	19 (538 SLPM)	23 (651 SLPM)	30 (849 SLPM)
40 PSIG (2.8 Bar)	7 (198 SLPM)	17 (481 SLPM)	23 (651 SLPM)	29 (821 SLPM)	35 (991 LPM)	47 (1330 SLPM)
60 PSIG (4.1 Bar)	11 (311 SLPM)	24 (679 SLPM)	32 (906 SLPM)	40 (1132 SLPM)	48 (1358 SLPM)	64 (1811 SLPM)
80 PSIG (5.5 Bar)	13 (368 SLPM)	32 (906 SLPM)	42 (1187 SLPM)	52 (1472 SLPM)	56 (1585 SLPM)	84 (2377 SLPM)
100 PSIG (6.4 Bar)	17 (481 SLPM)	36 (1019 SLPM)	48 (1358 SLPM)	61 (1726 SLPM)	73 (2066 SLPM)	97 (2745 SLPM)
120 PSIG (8.4 Bar)	20 (566 SLPM)	42 (1132 SLPM)	57 (1613 SLPM)	71 (2009 SLPM)	85 (2406 SLPM)	114 (3226 SLPM)

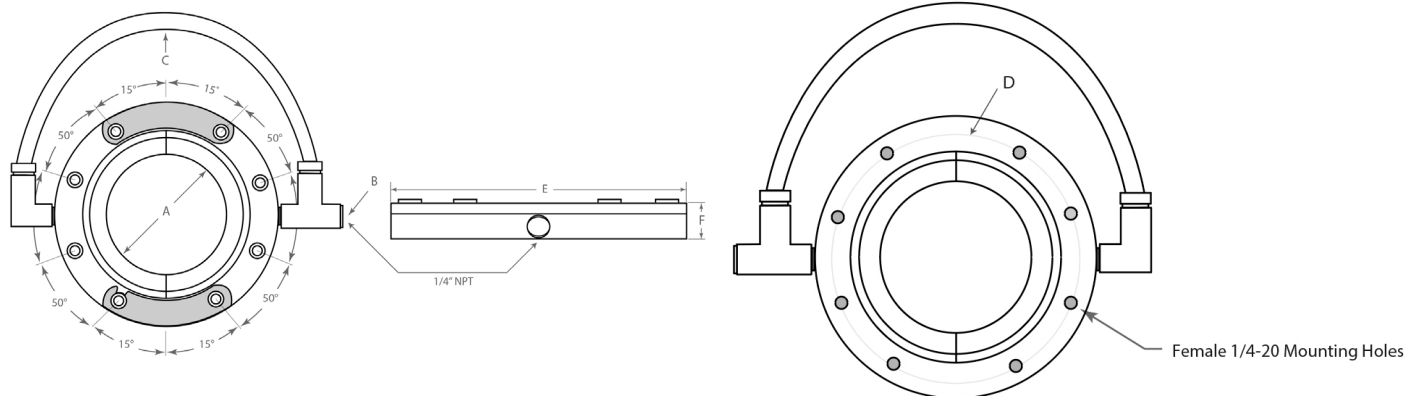
* Based on Amplification Ratio 30:1. The Airflow out would be 30x the above:

Regular Air Wipe – Drilled Pipe Air Consumption**										
	1/16" (1.59mm) Diameter Hole		3/32" (2.38mm) Diameter Hole		1/8" (3.18mm) Diameter Hole		3/16" (4.76mm) Diameter Hole		1/4" (6.35mm) Diameter Hole	
PRESSURE SUPPLY	SCFM	SLPM	SCFM	SLPM	SCFM	SLPM	SCFM	SLPM	SCFM	SLPM
20 PSIG (1.4 Bar)	1.5	42.4	3.4	96.2	6.3	178.3	14.7	416.0	26.0	735.8
40 PSIG (2.8 Bar)	2.1	65.0	5.5	155.7	10.1	285.8	23.0	650.9	40.0	1132.0
60 PSIG (4.1 Bar)	3.1	87.7	7.5	212.3	14.2	401.9	31.0	877.3	54.0	1528.2
80 PSIG (5.5 Bar)	3.9	110.4	9.4	266.0	17.5	495.3	40.0	1132	70.0	1981.0
100 PSIG (6.4 Bar)	4.6	130.2	11.7	331.1	21.7	614.1	47.5	1344.3	83.0	2348.9
120 PSIG (8.4 Bar)	5.4	152.8	13.9	393.4	25.9	733.0	56.3	1593.3	96.0	2716.8

**Compressed Air Flows Through A Hole in Standard Cubic Feet Per Minute (SCFM)

2 Regular Air Wipe

Dimensions



DIMENSIONS: Regular Air Wipe & Hi-Temp Air Wipe

SIZES	A	B (Inlet)	C (Hose)	D	E	F
1/2"	0.5" (12 mm)	1/4" NPTF	3/8" I.D.	2.625"	3.25" (82.5 mm)	1" (25 mm)
1"	1.00" (25 mm)	1/4" NPTF	3/8" I.D.	3"	3.75" (95 mm)	1" (25 mm)
2"	2.00" (51 mm)	1/4" NPTF	3/8" I.D.	4"	4.75" (101 mm)	1" (25 mm)
3"	3.00" (76 mm)	1/4" NPTF	3/8" I.D.	5"	5.75" (146 mm)	1" (25 mm)
4"	4.00" (102 mm)	1/4" NPTF	3/8" I.D.	6"	6.75" (171 mm)	1" (25 mm)
5"	5.00" (127 mm)	1/4" NPTF	3/8" I.D.	7"	7.75" (196 mm)	1" (25 mm)
6"	6.00" (152 mm)	1/4" NPTF	3/8" I.D.	8"	8.75" (222 mm)	1" (25 mm)

3 Regular Air Wipe

Installation & Maintenance



01 Recommended Hose Runs

Up to 3" Air Wipe

- Less than 50ft run (3/8" or 1/2" hose). More than 50ft (use 1/2" hose or larger)

More than 4" Air Wipe

- More than 50ft (use 1/2" hose or larger)

02 Compressed Air Supply

**All filters should be installed within 10-15ft of the Air Wipe. It's important to use supplied fittings to minimize possibility of air restriction.

Water removal

Minimum 10 micron filter, with an automatic (float type) drain.

Oil removal

Use an Oil filter installed downstream from the water filter if oil is a concern. Again this should be fitted with an automatic (float type) drain.

03 General Operation

To increase force

- Dismantle Air Wipe, install an extra .002" shim and reassemble. This will increase the flow rate, velocity, and force but also increase the compressed air consumption. Assume the doubling of air use and size accordingly.

To decrease force

- A regulator may be added downstream from the oil/water filters to reduce the force required.

04 Cleaning

Simply disassemble the unit, and clean all surfaces using a mild solvent and rag. Be careful to not damage the shim (or shims) when reassembling. To prevent contaminants from entering the Air Wipe, pass compressed air through the unit.

05 Troubleshooting

There are many factors that can cause the reduction in flow or force. Undersized airlines, restrictive fittings, or clogged filter elements are common areas to check. If you suspect below average performance, install a pressure gage at the inlet of the Air Wipe.