



IQS, A Division of Degree Controls, Inc.
257 Simarano Drive
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AIR|GUARD®

Air Guard Extreme Independent Cable Grommet Test Results

The Air Guard Extreme cable grommet was tested by an independent, certified testing lab. The results found were favorable to this new Air Guard design. In this test, the Air Guard Extreme was measured against the Koldlok Model 1010. The results discovered that the Extreme out performed the Koldlock in all (3) testing criteria:

Test 1 - each unit without any cable penetrations under static pressure ranging from .02 to .05 (typical data center range of static pressure)

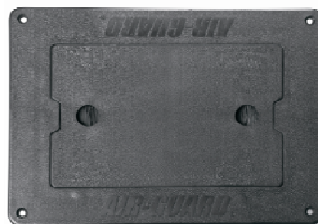
Test 2 - each unit with a 1/2" power cable at a 70 degree bend- simulating the typical installation under racks and cabinets

Test 3 - each unit with a 3/4" power cable at a 70 degree bend- simulating the typical installation under racks and cabinets

In each of the three tests, the Air Guard Extreme tested with 50% less air leakage than Koldlok Model 1010. The results demonstrate that the double layer gasket system, incorporating a flexible EDPM material along with Nylon brushes, provides a superior air seal. Results make it clear - the Air Guard Extreme is the best choice when choosing a cable grommet for your data center.



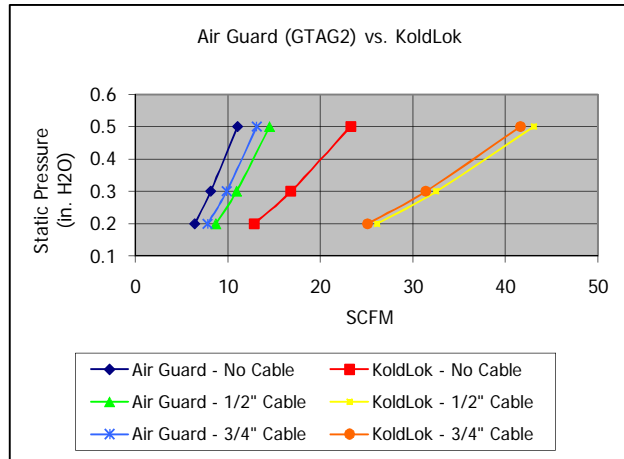
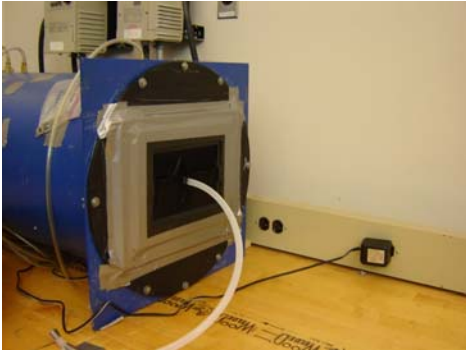
Air Guard Extreme with standard Safety Cover



Air Guard Extreme application as seen from bottom

Air Guard Extreme application as seen from top

AIR-GUARD GTAG2 vs KOLDLOK Testing



Static Pressure (in. H2O)	SCFM					
	No Cable		1/2 in. cable @ 70°		3/4 in. cable @ 70°	
	GTAG2	KoldLok	GTAG2	KoldLok	GTAG2	KoldLok
0.2	6.4	12.9	8.7	26.1	7.8	25.1
0.3	8.1	16.8	10.9	32.5	9.9	31.4
0.5	11.0	23.3	14.5	43.1	13.1	41.6



Testing Notes:

SCFM: Cubic Feet per Minute at Standard Air Conditions
 20°C/68°F, 50% RH, 101.325 kPa/14.696psi

KoldLok data from testing on 3-20-08

AIR-GUARD GTAG2 vs ORIGINAL AIRGUARD

Static Pressure (in. H2O)	SCFM					
	No Cable		1/2 in. cable @ 70°		3/4 in. cable @ 70°	
	GTAG2	Original	GTAG2	Original	GTAG2	Original
0.2	6.4	11.3	8.7	12.4	7.8	12.4
0.3	8.1	14.4	10.9	15.7	9.9	15.3
0.5	11.0	19.7	14.5	21.3	13.1	20.8

Static Pressure (in. H2O)	SCFM							
	Hole Only		No Cable		1/2 in. cable @ 70°		3/4 in. cable @ 70°	
	Air-Guard	KoldLok	Air-Guard	KoldLok	Air-Guard	KoldLok	Air-Guard	KoldLok
0.2	385.3	500.7	11.3	12.9	12.4	26.1	12.4	25.1
0.3	461.9	602.3	14.4	16.8	15.7	32.5	15.3	31.4
0.5	588.8	767.9	19.7	23.3	21.3	43.1	20.8	41.6



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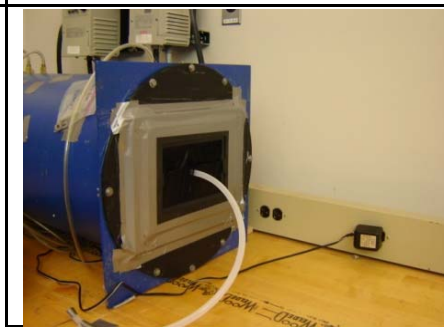
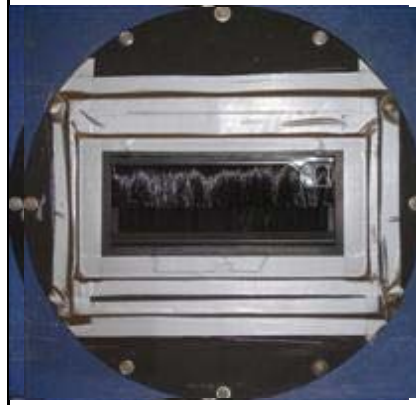
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Air-Guard GTAG2 Testing

Static Pressure (in. H2O)	No Cable	1/2 in. cable @ 70°	3/4 in. cable @ 70°
0.2	6.4	8.7	7.8
0.3	8.1	10.9	9.9
0.5	11.0	14.5	13.1





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KoldLock Testing

Static Pressure (in. H2O)	SCFM			
	Hole Only	No Cable	1/2 in. cable @ 70°	3/4 in. cable @ 70°
0.2	500.7	12.9	26.1	25.1
0.3	602.3	16.8	32.5	31.4
0.5	767.9	23.3	43.1	41.6

