

FEATURES AND BENEFITS

- Dip-brazed construction
- Rugged deployment
- Expansive range of ARINC sizes; easily configurable for custom sizes
- Modular power supply with
- AC or DC filtered inputs
- High altitude fan offering
- System performance monitoring
- Multiple bus architectures
- Cold-start heaters
- Avionics isolation tray
- Configurable I/O panel



717 SERIES

AIR-OVER CONDUCTION-COOLED ATR ENCLOSURES



The 717 Series Air-Over Conduction-Cooled ATR Enclosures from Atrenne offer a wide range of COTS solutions from a rugged dip-brazed construction with external air plenum ports for enhanced cooling. Designed for strength and maximum cooling in a conduction-cooled environment, the 717 Series Enclosures incorporate brazed folded fin material thermally bonded between the conducting wall and the outer panel and a machined-finned rear panel that help increase the thermal planes for maximum heat dissipation. Combined with an auxiliary external fan, the 717 Series Enclosures can increase thermal dissipation over 30 percent when compared to conventional conduction-cooled enclosures.

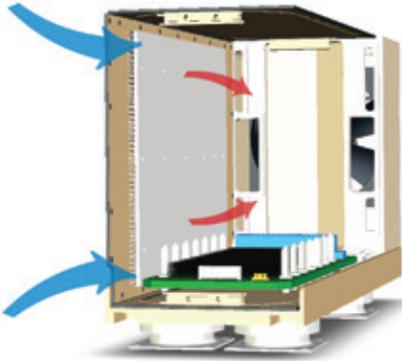
The 717 Series Enclosures are available in custom form factors and standard ARINC sizes that include 1/2 ATR Short to 1 1/2 ATR Long. Compliance with bus structures and platforms from VPX, VME, VME64x, VXS, and CompactPCI enables an expansive offering for application-specific designs.

As part of Atrenne's line of conduction-cooled ATRs, the 717 Series cooling can be configured to meet application requirements either by drawing air through the walls and out a rear exhaust plenum or forced down the walls and directed away from sources of heat. For unpressurized environments, the 717 Series Enclosures can be configured with a high altitude cooling scheme to permit superior performance at altitudes up to 50,000 feet. When used in conjunction with the System Performance Monitoring technology, the 717 Series Enclosures can activate internal heaters in cold start-ups or performance control the outputs of the optional external cooling fan to maintain optimal thermal environments for the circuit card assemblies.

The 717 Series Enclosures are available with optional avionics trays for isolation from shock and vibration environments common to airborne, vetronics, and shipboard applications.

717 SERIES

AIR-OVER CONDUCTION-COOLED ATR ENCLOSURE



DIMENSIONS:

ATR Size order number	Aprox. Vol.		Width (W)		Length (L1)		Length (L2)		Height (H)		Max. Slots	
	In3	Litre	+/- .03 in	+/- .76mm	+/- .04 in	+/- 1.0mm	inches	mm	inches	mm		
1	1/2 Short	649	10.64	4.88	123.95	12.52	318.0	12.62	320.5	7.62	193.5	4 Slots
	1/2 Long	1012	16.58	4.88	123.95	19.52	495.8	19.62	498.3	7.62	193.5	4 Slots
	3/4 Short	997	16.34	7.50	190.50	12.52	318.0	12.62	320.5	7.62	193.5	7 Slots
	3/4 Long	1555	25.48	7.50	190.50	19.52	495.8	19.62	498.3	7.62	193.5	7 Slots
	1 Short	1346	20.06	10.12	257.05	12.52	318.0	12.62	320.5	7.62	193.5	11 Slots
	1 Long	2098	34.38	10.12	257.05	19.52	495.8	19.62	498.3	7.62	193.5	11 Slots
	1-1/2 Long	3188	52.24	15.38	390.65	19.52	495.8	19.62	498.3	7.62	193.5	16 Slots

SPECIFICATIONS:

Storage Temp. Operating Temp.	-40°C to +85°C -40°C to +70°C	MIL-STD-810F
EMC	--	MIL-STD-461D
Input Power	28VDC 115VAC/ 400Hz. 1Ø 115VAC/ 400Hz. 3Ø	MIL-STD-704A Thru 704E MIL-STD-1275A
Wiring	Low Toxicity	MIL-C-24643
IP Rating	--	IP66
Vibration	15 to 2,000Hz At 0.1g2/ Hz. (RMS~12g)	MIL-STD-810F Method 514.5
Shock	20g for 11ms	MIL-STD-810F Method 516.5

Acceleration	13.5g	MIL-STD-810F Method 513.5
Altitude	50,000 FT	MIL-STD-810F Method 500.4
Humidity	Up to 95% RH	MIL-STD-810F Method 507.4
Salt Fog	5% for 48 Hours	MIL-STD-810F Method 509.4
Fungal Growth	No Growth	MIL-STD-810F Method 508.5
Thermal Shock	Sudden change in temperature of surrounding atmosphere	MIL-STD-810F Method 503.4
Sand & Dust	Sealed from Environment	MIL-STD-810F Method 510.4
Finish	Yellow Chromate Paint	MIL-C-5541 MIL-STD-595

PART NUMBERING / ORDERING INFORMATION:



Denotes:
**Air-Over Conduction-
Cooled Series**

ATR Size:
1 = 1/2 | 2 = 3/4 | 3 = 1
4 = 1 1/2 | 9 = Custom

Denotes: **Factory Assigned Number**

The modular design of the 717 Series Enclosures provides an expansive range of options and configurations in size, power and I/O that allows for users to meet their requirements without the limitations of selected configurations. Consult the factory or your Atrenne representative to configure your ATR system.

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