

FEATURES AND BENEFITS

- Aircraft frame construction
- Lightweight deployment
- Expansive range of ARINC sizes
- Easily configurable for custom sizes
- Modular power supply
- 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



714 SERIES

CONVECTION COOLED ATR ENCLOSURE



The 714 Series Convection Cooled ATR Enclosures from Atrenne offer a wide range of COTS solutions from an innovative, high strength modular frame. Designed for maximum strength and light weight deployment, the frame and construction of the 714 Series models the fabrication techniques used in manufacturing today's commercial and military aircraft. Utilizing an aluminum frame that provides flexibility in size, the frame is assembled with solid rivet technology and reinforced with aluminum outer panels to form a rugged ATR that can withstand the most severe shock and vibration environments.

The 714 Series is available in standard ARINC sizes that include 1/4 ATR Short to 1 1/2 ATR Long and any custom form factor desired due to the flexibility of the modular frame. The 714 Series will accept a variety of bus structures and platforms including VME, VME64x, VXS, VPX, VXI and CPCI technologies, providing an expansive product offering of bus standards as well as application specific custom designs.

The 714 Series is the Convection Cooled line of ATR's. Designed to direct air over conventional air cooled cards, the cooling can be configured to best meet the application requirements whether pressurized, evacuation or a combination push – pull method. When challenged with non-pressurized environments, the 714 Series is configured with a high altitude cooling scheme to permit ultimate performance at altitudes up to 50,000 feet. When used in conjunction with Atrenne's "System Performance Monitoring" technology, the 714 Series ATR can be configured to activate internal heaters in cold start-ups or performance control the outputs of the cooling fans to maintain optimal thermal environments for the circuit card assemblies.

The 714 Series utilizes an exclusive adjustable card cage to strategically position the cards for either front panel card or backplane I/O. This feature combined with the modular rugged frame provides flexibility that to date has not been available in the ATR format.

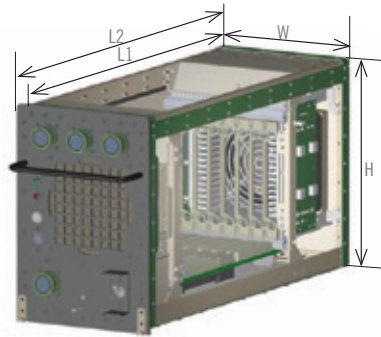
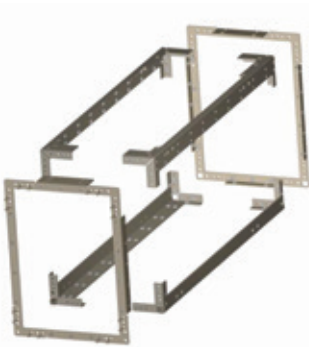
Innovation through design. Consult an Atrenne representative for more information about the 714 Series ATR's

714 SERIES

CONVECTION 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	1/4 Short	299	4.90	2.25	57.15	12.52	318.0	12.62	320.5	10.62	269.88	1 Slot
	1/4 Long	466	7.64	2.25	57.15	19.52	495.8	19.62	498.3	10.62	269.88	1 Slot
2	1/2 Short	649	10.64	4.88	123.95	12.52	318.0	12.62	320.5	10.62	269.88	5 Slots
	1/2 Long	1012	16.58	4.88	123.95	19.52	495.8	19.62	498.3	10.62	269.88	5 Slots
3	3/4 Short	997	16.34	7.50	190.50	12.52	318.0	12.62	320.5	10.62	269.88	8 Slots
	3/4 Long	1555	25.48	7.50	190.50	19.52	495.8	19.62	498.3	10.62	269.88	8 Slots
4	1 Short	1346	20.06	10.12	257.05	12.52	318.0	12.62	320.5	10.62	269.88	12 Slots
	1 Long	2098	34.38	10.12	257.05	19.52	495.8	19.62	498.3	10.62	269.88	12 Slots
5	1-1/2 Long	3188	52.24	15.38	390.65	19.52	495.8	19.62	498.3	10.62	269.88	18 Slots



SPECIFICATIONS:

STORAGE TEMP.	-40°C to +85°C	MIL-STD-810F
OPERATING TEMP.	-40°C to +70°C	
EMC	- -	MIL-STD-461D
INPUT POWER	28VDC	MIL-STD-704A
	115VAC/ 400Hz. 1Ø 115VAC/ 400Hz. 3Ø	Thru 704E MIL-STD-1275A
WIRING	Low Toxicity	MIL-C-24643
IP RATING	- -	IP53
VIBRATION	15 to 2,000Hz	MIL-STD-810F
	At 0.1g2/ Hz. (RMS~12g)	Method 514.5
SHOCK	20g for 11ms	MIL-STD-810F Method 516.5

ACCELERATION	13.5g	MIL-STD-810F Method 513.5
ALTITUDE	10Kft standard fans	MIL-STD-810F
	50Kft High Altitude Fans	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	Sand @ 5,700 ft./min.	MIL-STD-810F
	Dust @ 1,750 ft./min.	Method 510.4
FINISH	Yellow Chromate Paint	MIL-C-5541 MIL-STD-595

714 | X | X | X | X | - | X | X

Denotes:

**Air Cooled
Series**

ATR Size:

1 = 1/2 | 2 = 3/4 | 3 = 1 | 4 = 1 1/2 | 9 = Custom

Denotes: Factory Assigned Number

The 714 Series modular design 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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