



# Digital Air Loads

## High-Power Forced Air Loads For Broadcast Applications



The RF Experts

Bird's Digital Air Series are forced air cooled loads that provide a fully self-contained and convenient means of dissipating large amounts of analog or digital RF power. Digital Air loads require no plumbing, pumps or complicated installation and setup procedures. The four fan design provides excellent cooling efficiency as well as extremely high reliability.

### PROBLEMS/SOLUTIONS

Require excellent VSWR performance

- <1.05:1 typical VSWR (1.1:1 max) across rated frequency range

Have a high power, digital installation requiring a dummy load.

- Handles >13 dB Peak to Average power ratio.

Need connections suited to very high power levels.

- Flanged and unflanged EIA & IEC industry standard connectors.

Want product that is dependable over the long term.

- Low Maintenance and high reliability.

Worried about burns from loads with very high surface temperatures.

- Ductable exhaust and cool-to-the-touch exterior surfaces.

Concerned about RF emissions

- Double shielded against the production of extraneous radiation.

### APPLICATIONS

UHF and VHF Broadcasters requiring systems able to support analog, digital and combined signals.

### SPECIFICATIONS

<b>Impedance</b>	50 ohm nominal
<b>VSWR</b>	1.05:1 typical, 1.10:1 maximum
<b>Cooling Method</b>	Forced air-cooled
<b>Peak to Average Power</b>	13dB
<b>Ambient Temperature</b>	-40°C to +45°C (-40°F to +113°F)
<b>Interlock Contact Rating</b>	10 A @ 120 VAC, 5A @ 250 VAC
<b>Finish</b>	Blue Powder Coat
<b>AC Power Required</b>	115 V/230 V 50/60 Hz

# Digital Air Load

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Model	Power Rating	Frequency Range	Dimensions (LxWxH)	Weight	Connector	AC Power
DA10V1F15 DA10V1U15 DA10V1F30 DA10V1U30	10 kW	0-240 MHz-AM, FM, VHF	23.5" x 23.5" x 59" 597 mm x 597 mm x 1499 mm	130 lbs 58.97 kg	1 5/8" Flanged 1 5/8" Unflanged 1 5/8" Flanged 1 5/8" Unflanged	115 VAC 115 VAC 230 VAC 230 VAC
DA10V3F15 DA10V3U15 DA10V3F30 DA10V3U30	10 kW	0-240 MHz-AM, FM, VHF	23.5" x 23.5" x 59" 597 mm x 597 mm x 1499 mm	130 lbs 58.97 kg	3 1/8" Flanged 3 1/8" Unflanged 3 1/8" Flanged 3 1/8" Unflanged	115 VAC 115 VAC 230 VAC 230 VAC
DA25V3F15 DA25V3U15 DA25V3F30 DA25V3U30	25 kW	0-240 MHz-AM, FM, VHF	27" x 27" x 61" 686 mm x 686 mm x 1549 mm	160 lbs 72.57 kg	3 1/8" Flanged 3 1/8" Unflanged 3 1/8" Flanged 3 1/8" Unflanged	115 VAC 115 VAC 230 VAC 230 VAC
DA25V4U15 DA25V4U30	25 kW	0-240 MHz-AM, FM, VHF	27" x 27" x 61" 686 mm x 686 mm x 1549 mm	160 lbs 72.57 kg	4 1/2" Unflanged 4 1/2" Unflanged	115 VAC 230 VAC
DA5F15 DA5U15 DA5F30 DA5U30	5 kW	470-890 MHz UHF	17" x 17" x 64" 432 mm x 432 mm x 1608 mm	100 lbs 45.5 kg	3 1/8" Flanged 3 1/8" Unflanged 3 1/8" Flanged 3 1/8" Unflanged	115 VAC 115 VAC 230 VAC 230 VAC
DA10F15 DA10U15 DA10F30 DA10U30	10 kW	470-890 MHz UHF	19.5" x 19.5" x 68.5" 495 mm x 495 mm x 1740 mm	130 lbs 58.97 kg	3 1/8" Flanged 3 1/8" Unflanged 3 1/8" Flanged 3 1/8" Unflanged	115 VAC 115 VAC 230 VAC 230 VAC
DA15F15 DA15U15 DA15F30 DA15U30	15 kW	470-890 MHz UHF	25" x 25" x 76.5" 635 mm x 635 mm x 1943 mm	192 lbs 87.09 kg	3 1/8" Flanged 3 1/8" Unflanged 3 1/8" Flanged 3 1/8" Unflanged	115 VAC 115 VAC 230 VAC 230 VAC
DA25F15 DA25U15 DA25F30 DA25U30 DA25-4F15 DA25-4U30	25 kW	470-890 MHz UHF	27" x 27" x 76.5" 686 mm x 686 mm x 1943 mm	245 lbs 111.13 kg	4 1/16" Myat Flanged 4 1/16" Myat Unflanged 4 1/16" Myat Flanged 4 1/16" Myat Unflanged 4 1/2" IEC Flanged 4 1/2" IEC Unflanged	115 VAC 115 VAC 230 VAC 230 VAC 115 VAC 230 VAC
DA40-5U15 DA40-5U30 DA40F15 DA40F30 DA40U30	40 kW	470-890 MHz UHF	27.5" x 27.5" x 84" 701 mm x 701 mm x 2134 mm	310 lbs 140.6 kg	4 7/8" IEC Unflanged 4 7/8" IEC Unflanged 6 1/8" IEC Flanged 6 1/8" IEC Flanged 6 1/8" IEC Unflanged	115 VAC 230 VAC 115 VAC 230 VAC 230 VAC

