

KINTRONIC LABORATORIES

AM/MW DUMMY LOADS



MODEL DL-1.2



MODEL DL-5/10/20



MODEL DL-25/50



MODEL DL-100/200/300

Kintronic Laboratories offers a Complete line of AM dummy loads ranging in power rating from 1.5 KW to 300 KW. These units are typically installed adjacent to or in the vicinity of the transmitter to serve as a dummy antenna for off-the-air testing of the transmitter. Each dummy load is custom designed to yield a nominal $50 + j0$ input impedance over the 530-1700 KHZ frequency band. The input fitting must be specified by the customer. Typical options include bowl insulator assembly, EIA flange or cable clamp. The dummy load ground is brought out via copper strap to an external bus bar to allow for interconnection with the transmitter grounding system.

The dummy loads having a power rating less than 30 KW are convection cooled. The convection cooled models are available at five power ratings as shown in the table on reverse side. Each unit is designed to be wall mounted and utilizes an aluminum mesh cover on the top and bottom to allow for cooling.

Fan cooling is used in the four dummy load models having a power rating in excess of 30 KW. A fan requiring single or three phase 230 VAC, 50-60 Hz power is mounted in the lower compartment of the Model DL-25 and DL-50. The exhaust passes through the aluminum mesh screen mounted on the

top of the unit at a rate of 5,500 or 8,500 cubic feet per minute (CFM) for the DL-25 or DL-50, respectively. A toroidal sampling current meter is mounted on the front panel of the DL-25 and DL-50 at approximately 5.5 feet above the floor for the purpose of input power monitoring. The ground system for the DL-25 and DL-50 consists of copper strap terminated in a pigtail. Optional casters are also available for these two models.

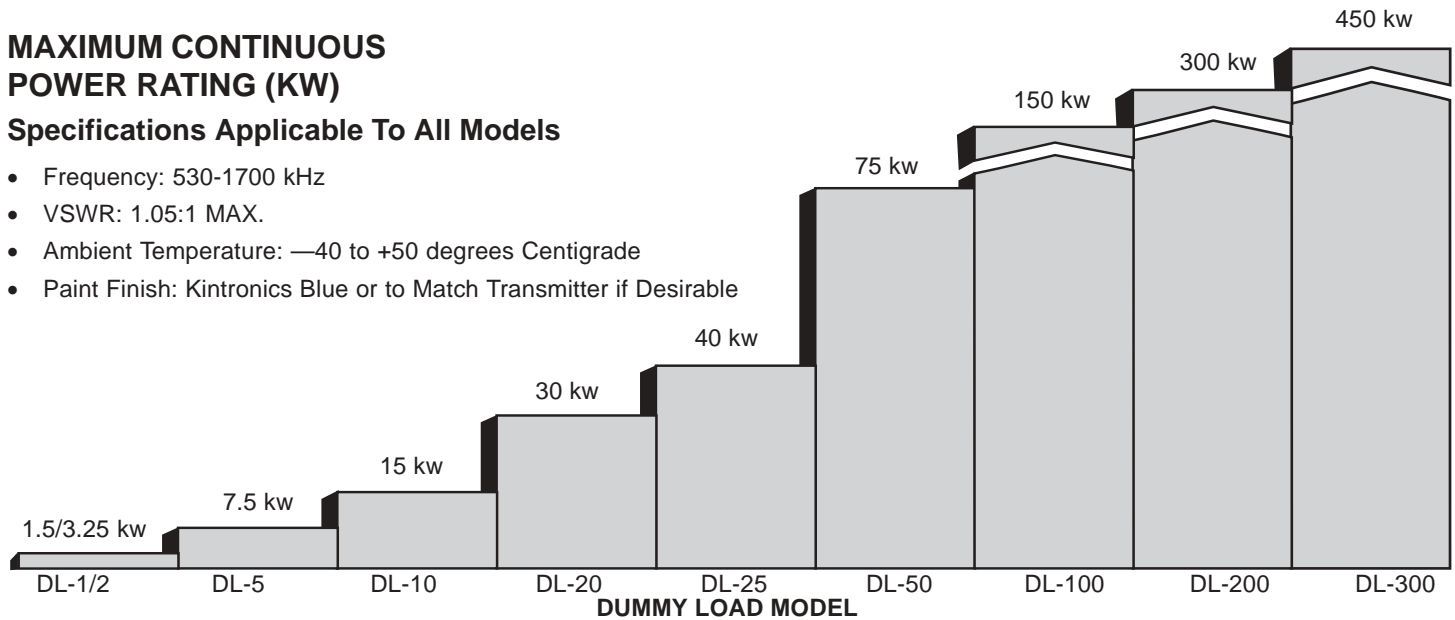
The model DL-100, DL-200 and DL-300 forced air cooled dummy loads are configured with the fans mounted on the rear side of the unit with the exhaust directed through the expanded metal access doors on the front. These units are designed for indoor installation on a concrete floor with filtered air intake and exhaust ports. The DL-100 rated at 150 KW and the DL-200 rated at 300KW utilize a motor-driven fan producing 13,000 CFM and 30,000 CFM, respectively. The DL-300 utilizes a quad-fan configuration to produce a total air flow of 45,000 CFM. Features of the DL100/200/300 include: (1) a current meter with high voltage sampling transformer, (2) a resistor compartment thermal rise sensor, (3) door interlocks for both the intake and exhaust area access doors, and (4) an air interlock with each fan to prevent overheating of the power dissipation elements.

AM/MW DUMMY LOADS

MAXIMUM CONTINUOUS POWER RATING (KW)

Specifications Applicable To All Models

- Frequency: 530-1700 kHz
- VSWR: 1.05:1 MAX.
- Ambient Temperature: —40 to +50 degrees Centigrade
- Paint Finish: Kintronics Blue or to Match Transmitter if Desirable



SPECIFICATIONS

| Model | Input Connection Options | Cooling | RF Power Monitor Provisions | AC Power Required | Net Weight (lbs.) | Gross Weight (lbs.) | Dimensions Inches (cm) Width, Depth, Height | Installation |
|--------|--|--------------------------|--|--|-------------------|---------------------|--|---|
| DL-1 | 7/8" EIA 1/2" or 7/8" cable Clamp Type N Female Type UHF Female | Convective | None | None | 25 | 40 | 14, 20,10 (35.6, 50.8, 25.4) | Wall Mounted or With Handle for Portable Transport |
| DL-2 | 7/8" EIA or 7/8" Cable Clamp | Convective | None | None | 44 | 65 | 20,14.5, 16.5 (50.8,36.8,41.9) | Wall Mounted or With Handle for Portable Transport |
| DL-5 | 7/8" Cable Clamp 5" Porcelain Bowl | Convective | None | None | 85 | 115 | 24, 14, 34 (61, 36, 87) | Wall Mounted |
| DL-10 | 1 5/8" EIA 1 5/8" Cable Clamp 7" Porcelain Bowl Female LC | Convective | None | None | 175 | 280 | 34,16,46 (86.4, 40.6, 116.8) | Wall Mounted |
| DL-20 | 1 5/8" EIA 1 5/8" Cable Clamp 7" Porcelain Bowl | Convective | None | None | 225 | 350 | 40,16, 60 (102, 40.6, 153) | Wall Mounted |
| DL-25 | 3 1/8" EIA 7" Porcelain Bowl | Forced Air 9,000 CFM | 8 to 40 Amp Toroidal sampling Meter system | 220 VAC 3-phase 50 to 60 Hz | 495 | 645 | 34, 35, 72 (86.4, 89, 183) | Indoor Floor Mounted with Optional Casters |
| DL-50 | 3 1/8" EIA 7" Porcelain Bowl | Forced Air 11,500 CFM | 8 to 40 Amp Toroidal sampling Meter system | 220 VAC 3-phase 50 to 60 Hz | 625 | 800 | 38, 39, 78 (96.5, 99,198.1) | Indoor Floor Mounted with Optional Casters |
| DL-100 | 3 1/8" EIA 7" Porcelain Bowl | Forced Air 13,000 CFM | 16 to 80 Amp Toroidal sampling Meter system | 220 VAC 3-phase 50 to 60Hz | 825 | 1015 | 80,78,72 (203,198,183) | Indoor Floor Mounted with Filtered Intake and Exhaust Ports |
| DL-200 | 6 1/8" EIA | Forced Air 30,000 CFM | 16 to 80 Amp Toroidal sampling Meter system | 220 VAC 3-phase 50 to 60Hz | 850 | 1040 | 80, 78, 72 (203,198,183) | Indoor Floor Mounted with Filtered Intake and Exhaust Ports |
| DL-300 | 6 1/8" EIA | Forced Air 45,000 CFM | 32 to 160 Amp Toroidal sampling Meter system | 208/230/380 VAC 3-phase 50 to 60Hz | 2500 | 3150 | 90, 78, 86 (229,198,218) | Indoor Floor Mounted with Filtered Intake and Exhaust Ports |

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