



KINTRONIC LABORATORIES

AM/ MW DUMMY LOAD



MODEL DL-1/2

Kintronic Laboratories offers a complete line of AM dummy loads ranging in power rating from 1.5 KW to 600 KW and higher if required. 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 (Alternative input impedance designs are available upon request.) over the 530-1700 KHZ frequency band. The input RF connection must be specified by the customer. Typical options include EIA flange or cable clamp assembly depending on the input power and impedance. The dummy load ground is routed via copper strap to an external strap interface bracket to allow for interconnection with the transmitter ground.

The DL-100 rated at 150 KW and the DL-200 rated at 300KW utilize a single blower fan producing 17,000 CFM and 30,000 CFM, respectively. The DL-300 utilizing multiple fans produces a total air flow of 45,000 CFM. Features of the DL100/200/300 include: (1) a current meter with sampling transformer, (2) a resistor compartment thermal rise sensor, (3) door interlocks for both the intake and exhaust area access doors, (4) an air interlock with each blower fan to prevent overheating of the power dissipation elements and (5) over current sensors for each phase of each blower fan motor.



MODEL DL-5/10/20

The dummy loads having a power rating less than 30 KW are convection cooled. The convection cooled models are available at the 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 unimpeded convection cooling.

Forced air cooling is used in the 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.



Front View of DL-100/200/300
With Access Doors Closed



MODEL DL-25/50

A toroidal current sampling 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 indirect input power monitoring. The ground system for the DL-25 and DL-50 consists of copper strap terminated in an external interface bracket at a location to be specified by the customer. 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 made for indoor installation on a concrete floor in a room with louvers on the intake and exhaust sides.

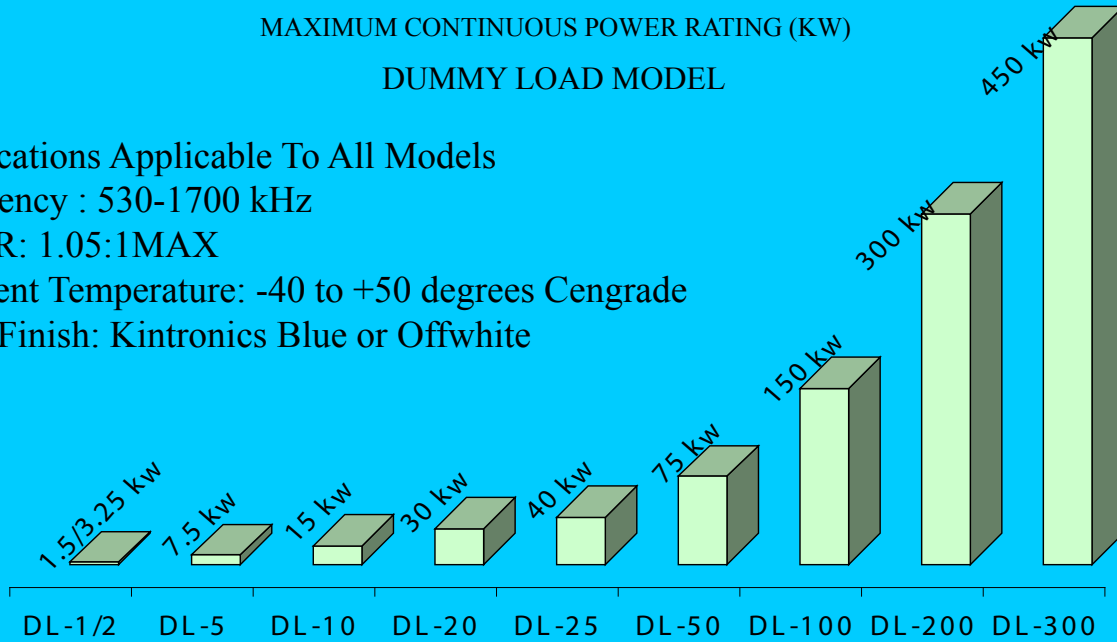


Front View of DL-100/200/300
With Access Doors Open

**MAXIMUM CONTINUOUS POWER RATING (KW)
DUMMY LOAD MODEL**

Specifications Applicable To All Models

- . Frequency : 530-1700 kHz
- . VSWR: 1.05:1MAX
- . Ambient Temperature: -40 to +50 degrees Cengrade
- . Paint Finish: Kintronics Blue or Offwhite



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" EIA or 7/8" Cable Clamp	Convective	None	None	85	130	24,14,34 (61,36,87)	Wall Mounted
DL-10	1 5/8" EIA, 1 5/8" Cable Clamp, Female LC	Convective	None	None	150	195	34,16,46 (86.4,40.6,116.8)	Wall Mounted
DL-20	1 5/8" EIA, 1 5/8" Cable Clamp	Convective	None	None	225	380	40,16,60 (102,40.6,153)	Wall Mounted
DL-25	3 1/8" EIA	Forced Air 5,500 CFM	8 to 40 Amp Toroidal Sampling Meter System	220 VAC 3-phase 50 to 60 Hz	585	670	34,35,72 (86.4,89,183)	Indoor Floor Mounted
DL-50	3 1/8" EIA	Forced Air 8,500 CFM	8 to 40 Amp Toroidal Sampling Meter System	220 VAC 3-phase 50 to 60 Hz	625	875	39.5,40.5,78 (96.5,99,198.1)	Indoor Floor Mounted
DL-100	3 1/8" EIA	Forced Air 10,500 CFM	16 to 80 Amp Toroidal Sampling Meter System	220 VAC 3-phase 50 to 60 Hz	1475	1700	85,72,72 (216,183,183)	Indoor Floor Mounted
DL-200	6 1/8" EIA	Forced Air 25,500 CFM	16 to 80 Amp Toroidal Sampling Meter System	220 VAC 3-phase 50 to 60 Hz	1675	1900	85,72,72 (216,183,183)	Indoor Floor Mounted
DL-300	6 1/8" EIA	Forced Air 48,000 CFM	32 to 160 Amp Toroidal Sampling Meter System	208-380 VAC 3-phase 50 to 60 Hz	2600	3000	99,98,97 (252,249,247)	Indoor Floor Mounted

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