

KINTRONIC LABORATORIES

ROBUST ELF, VLF, LF AND AM/MW WEATHERPROOF AIR COOLED DUMMY LOADS



MODEL DL-5/10/20WP



MODEL DL-25/50WP



MODEL DL-100/200/300WP

Kintronic Laboratories offers a complete line of rugged and reliable weatherproof dummy loads ranging in power rating from 7.5 KW to 450 KW and configured for quick installation on a concrete pad. These dummy loads are typically installed in near vicinity to the transmitter building 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 0-1700 KHZ frequency band. The input fitting must be specified by the customer. Typical options include bowl insulator assembly, EIA flange or cable clamp assembly depending on the transmitter input power. The dummy load ground is brought out via copper strap pigtail or external bus bar to allow for interconnection with the transmitter RF ground. An overtemperature sensor, air interlock, door interlock and overcurrent sensor are supplied with each of these dummy loads. The input power is monitored by incorporation of an optional toroidally sampled input current meter.

Forced air cooling is utilized in all of the weatherproof dummy load models. A fan requiring single or three phase 230 VAC, 50-60 Hz power (other motor operational voltages can be accommodated) is mounted in the lower compartment of the Model DL-10WP and DL-20WP units.

The exhaust air is routed out the top and back down along the sides of the unit by use of a top hood designed to protect the resistor stack from weather. All other weatherproof dummy load models are configured for horizontal air flow. The intake to the fan is protected by a motorized louver and the exhaust by a backdraft damper or motorized louver. The DL-25WP and DL-50WP models are supplied with an aluminum knockdown stand whereas the DL-100WP and higher models are designed to bolt directly to a concrete pad.

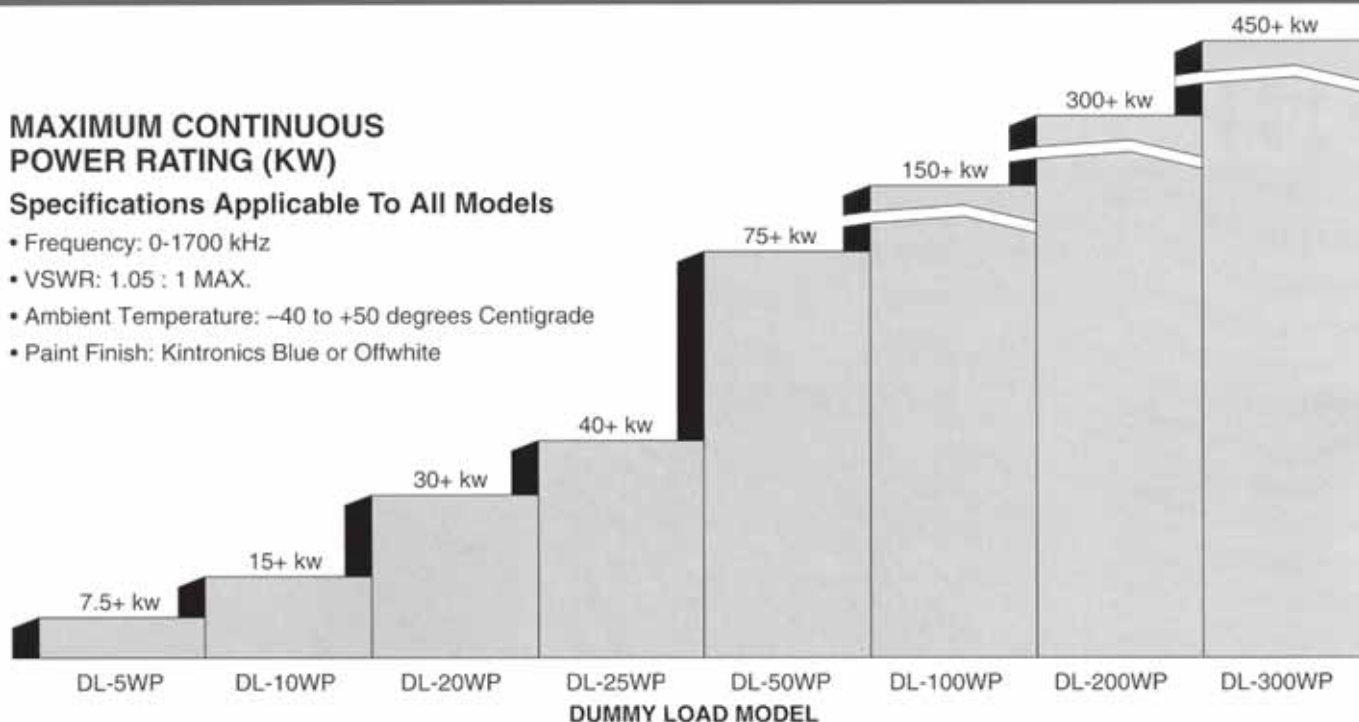
The DL-100WP, DL-200WP and DL-300WP units are configured as walk-in aluminum shelters to resist rust and corrosion and to permit ease of maintenance while affording protection from outside weather conditions. Separate access to the resistor network and the blower subsystems is provided via interlocked, keylocked doors with wall switchable lights in both compartments. In addition a wall mounted controller with pushbutton start and stop functions for local or remote operation is installed in the intake compartment of the dummy load. Weatherproof RF and AC input ports are also provided. Each dummy load is supplied with a complete installation, operations and maintenance manual.

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MAXIMUM CONTINUOUS POWER RATING (KW)

Specifications Applicable To All Models

- Frequency: 0-1700 kHz
- VSWR: 1.05 : 1 MAX.
- Ambient Temperature: -40 to +50 degrees Centigrade
- Paint Finish: Kintronics Blue or Offwhite



SPECIFICATIONS

Special Features:

- Weatherproof for **Quick Installation** on Concrete Pad
- **Rugged and Reliable** with Power Capacity to Dissipate Full Power with No Forced Air for a Minimum of Ten Minutes with No Damage to Resistor Network.
- **Suitable** For Operation In Climatic Conditions **Anywhere** In The World
- **Optional** Features Available For Operation In Highly Corrosive Environments

| Model | Input Connection Options | AC Input Power | Net Weight (lbs.) | Gross Weight (lbs) | Dimensions Inches (cm) Width, Depth, Height |
|----------|---|--|-------------------|--------------------|--|
| DL-5WP | 7/8" EIA Cable Clamp 7/8" EIA Flange | 110/220 VAC 50-60 HZ single phase | 350 | 465 | 38" W x 38" D x 65" H |
| DL-10WP | 1 5/8" EIA Flange 7/8" Cable Clamp LC Connector | 110/220 VAC 50-60 HZ single phase | 475 | 625 | 44" W x 44" D x 72" H |
| DL-20WP | 1 5/8" EIA Flange 1 5/8" Cable Clamp | 110/220 VAC 50-60 HZ single phase | 600 | 750 | 44" W x 44" D x 78" H |
| DL-25WP | 1 5/8" EIA | 220/380/440 VAC 50-60 HZ three phase | 900 | 1150 | 114" W x 40" D x 72" H Including Stand |
| DL-50WP | 3 1/8" EIA Flange 1 5/8" Cable Clamp | 220/380/440 VAC 50-60 HZ three phase | 1050 | 1350 | 114" W x 44" D x 76" H Including Stand |
| DL-100WP | 3 1/8" EIA Flange 4 1/16" EIA Flange | 220/380/440 VAC 50-60 HZ three phase | 2100 | 2850 | 15" L x 6" H 7" W |
| DL-200WP | 4 1/16" EIA Flange 6 1/8" EIA Flange | 220/380/440 VAC 50-60 HZ three phase | 2350 | 3100 | 15" L x 6" H 7" W |
| DL-300WP | 6 1/8" EIA | 220/380/440 VAC 50-60 HZ three phase | 2600 | 3500 | 17" L x 6" H 7" W |

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WEB SITE: <http://www.kintronic.com>