



Coaxial Dynamics

A CDI INDUSTRIES, INC. COMPANY
SPECIALISTS IN RF TEST EQUIPMENT & COMPONENTS

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86000 Series Water Cooled Loads



The 86000 Series Water Cooled RF Coaxial Loads are capable of dissipating up to 200 kW of RF power from 60 Hz to 800 MHz with a VSWR of 1.10:1 or less. With this low reflection coefficient the loads are very useful for tuning transmitters. They can be used to terminate AM, FM, TV, CW or Pulse transmissions in 50-Ohm coaxial transmission line systems. When used in conjunction with Coaxial Dynamics Directional RF Insertion Wattmeters, accurate power measurements to 200 kW can be made.

Available Models

Model	Power	Connector
86005-HN	5 kW	HN Female
86005-N	5 kW	N Female
86006-1	5 kW	1-5/8" EIA Flanged
86017-2	15 kW	1-5/8" Unflanged Recessed
86018-LC	15 kW	LC Female
86018-2	15 kW	3-1/8" Unflanged Recessed
86027-1	25 kW	3-1/8" EIA Flanged
86027-3	25 kW	3-1/8" Unflanged
86052-1	50 kW	3-1/8" EIA Flanged
86052-3	50 kW	3-1/8" Unflanged
86054-2	50 kW	6-1/8" Unflanged Recessed
86080-2	80 kW	3-1/8" Unflanged Recessed
86082-2	80 kW	6-1/8" Unflanged Recessed
86125-2	125 kW	3-1/8" Unflanged Recessed
86200-1	200 kW	6-1/8" EIA Flanged

Model	Power	Connector
86005-LC	5 kW	LC Female
86005-SC	5 kW	SC Female
86017-1	15 kW	1-5/8" EIA Flanged
86017-3	15 kW	1-5/8" Unflanged
86018-1	15 kW	3-1/8" EIA Flanged
86018-3	15 kW	3-1/8" Unflanged
86027-2	25 kW	3-1/8" Unflanged Recessed
86029-1	25 kW	6-1/8" EIA Flanged
86052-2	50 kW	3-1/8" Unflanged Recessed
86054-1	50 kW	6-1/8" EIA Flanged
86080-1	80 kW	3-1/8" EIA Flanged
86082-1	80 kW	6-1/8" EIA Flanged
86125-1	125 kW	3-1/8" EIA Flanged
86127-1	125 kW	6-1/8" EIA Flanged
86200-2	200 kW	6-1/8" Unflanged Recessed

Product Specifications

Model	86005 - 86007	86017 - 86018	86027 - 86029	86052 - 86054
Power Rating	5 kW CW	15 kW CW	25 kW CW	50 kW CW
Impedance	50 Ohms nominal			
Frequency Range	60 Hz to 800 MHz			
VSWR	1.10:1 maximum to 800 MHz			
Water Temp	Inlet: 4°C to 45°C; Outlet: 90°C maximum			
Inlet Pressure	70 PSI maximum	100 PSI maximum		
Water Flow	2 GPM	4 GPM	6 GPM	10 GPM
Water Connector	3/4" (garden hose) or 1/2" NPT			
Approximate Dimensions	3-1/2" x 10-3/16" (8.9cm x 25.9cm)	3-1/2" x 15" (8.9cm x 38.1cm)	3-1/2" x 16-1/2" (8.9cm x 41.9cm)	3-1/2" x 18-1/2" (8.9cm x 47.0cm)
Approximate Weight	4 lbs (1.8kg)	9-1/2 lbs (4.3kg)	16 lbs (7.26kg)	17 lbs (8kg)
Finish	Yellow Iridite (Chromate Conversion)			

Model	86080 - 86082	86125 - 86127	86200
Power Rating	80 kW CW	125 kW CW	200 kW CW
Impedance	50 Ohms nominal		
Frequency Range	60 Hz to 800 MHz	60 Hz to 450 MHz	
VSWR	1.15:1 maximum to 800 MHz	1.15:1 maximum to 450 MHz	
Water Temp	Inlet: 4°C to 45°C; Outlet: 90°C maximum		
Inlet Pressure	100 PSI maximum		
Water Flow	10 GPM	15 GPM	19 GPM
Water Connector	3/4" (garden hose) or 1/2" NPT		3/4" NPTF
Approximate Dimensions	8-1/2" x 30" (21.6cm x 76.2cm)	8-1/2" x 31" (21.6cm x 78.7cm)	8-1/2" x 42" (21.6cm x 106.7cm)
Approximate Weight	31 lbs (14kg)	36 lbs (16kg)	47 lbs (22kg)
Finish	Yellow Iridite (Chromate Conversion)		