

10 kW SmartLoad || BN 546423, BN 546423C0001

Coaxial load with intelligent control:

- Standby function
- Pump and fan activated only when needed
- Super fast self protection
- Interlock signal
- Single phase power supply
- Rear and side walls can be covered



**Operating modes**

Standby and RF power approx. 20 W	natural cooling without pump and fan
RF power approx. 20 W to approx. 800 W	pump and fan intermittently with variable speed
RF power approx. 800 W to 10 kW	pump and fan with full speed

**Radio frequency characteristics**

Interface type	3 1/8" EIA (50 Ω) per IEC 60339-2, facing upwards
Frequency range	DC to 860 MHz
Average power capability	10 kW
Proof voltage, max.	17 kV
VSWR, max.	1.04 @ DC to 108 MHz or 1.04 @ 108 to 470 MHz or 1.04 @ 470 to 860 MHz or 1.08 @ DC to 860 MHz

**Cooling Aggregate**

Part number	BN 546423	BN 546423C0001
Mains supply: Mains voltage Mains frequency Power consumption, approx.	230 V ±10%, L, N, PE 50/60 Hz 25 W (standby), 0.8 kW (full operation)	115 V ±10%, L, N, PE 50/60 Hz 25 W (standby), 0.8 kW (full operation)
Mains panel connector	male power socket, chassis type with fuse, acc. IEC 60320-1 (C14)	
Interlock loop panel connector	two-pole connector with screwlocking acc. IEC 60130-9, Co. Binder, series 581/680/682, TYP 09-0303-00-02	
Interlock loop contact load	SELV per IEC 60950-1 max. 42.4 V AC <sub>pk</sub> / 60 V DC max. 1 A	
Heat exchanger	10 kW special SPINNER single ventilator type	
Noise level, approx.	78 dB (A) @ 10 kW average power	
Operational environment	operating sites with limited access, indoor only	
IP protection level	IP20 per EN 60529	
Product Manual	M36354	
Weight, approx.	85 kg	

Template TD-00003E

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**Environmental conditions**

<b>Operation</b>	
Ambient temperature range	-10 to +45°C
Relative humidity, max.	95% (non-condensing)
Altitude, max.	2286 m
<b>Storage and transport</b>	
Ambient temperature range	-25 to +70°C
Relative humidity, max.	95% (non-condensing)

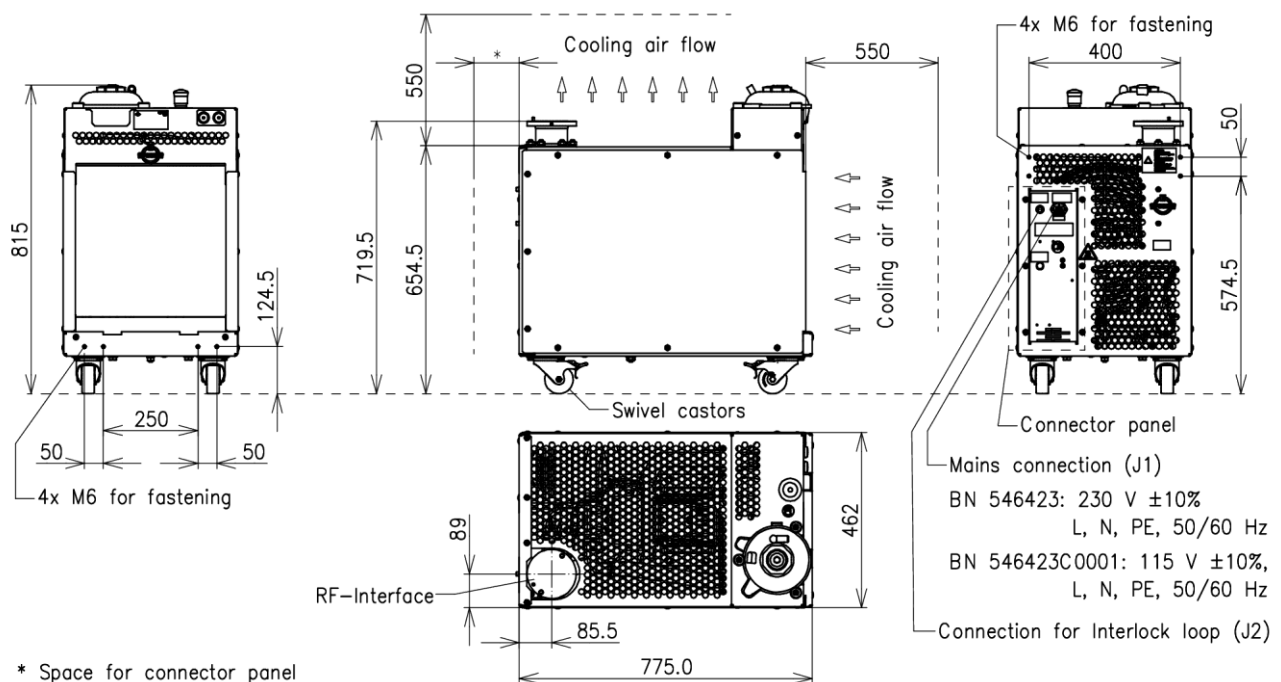
**Coolant**

Capacity of cooling circuit, approx.	6 litres (dummy load supplied in filled state)
Chemical composition	50 Vol. % distilled water 50 Vol. % ethylene glycol corrosion inhibitor
Density (temperature sensitive)	1.08 kg/dm <sup>3</sup> @ +20°C

**Scope of delivery and accessories**

Scope of delivery	mains cable connector interlock cable connector product manual material safety data sheet of the coolant	
Spare parts	mains cable connector interlock cable connector coolant	BN 071797 BN 102964 BN A75272

**Outline (all dimensions in millimeter)**



\* Space for connector panel

Mains connection (J1)  
BN 546423: 230 V ±10%  
L, N, PE, 50/60 Hz  
BN 546423C0001: 115 V ±10%,  
L, N, PE, 50/60 Hz  
Connection for Interlock loop (J2)