

25 kW Dual SmartLoad | BN 546434C0400

Two independent liquid cooled loads share a common cooling system.

Coaxial load with intelligent control:

- Standby function
- Pump and fan controlled as needed
- Super fast self protection
- Inputs can be powered in parallel with maximum 25 kW in total
- Individual potential free interlock contacts for every input
- Single phase power supply
- Side walls can be covered
- Swivel castors with double stop



(typical design)

Operating modes

RF power 0 W to approx. 500 W	cooling with pump @ idle speed, without fan *
RF power approx. 500 W to 25 kW	pump @ full speed with fan *

* Depending on the ambient temperature and the RF power applied, the pump and/or fan can switch on at any time and switch off again according to the required cooling capacity.

Radio frequency characteristics

Interface type	3 1/8" EIA (50 Ω) per IEC 60339-2, facing upwards (4 1/2" EIA necessary for P ≥ 23kW and f ≥ 700 MHz; order adapter BN 715010)
Frequency range	DC to 860 MHz
Average power rating, max.	25 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

Mains supply:	Mains voltage Mains frequency Real power consumption Nominal current, max.	230 V ±10%, L, N, PE 50 / 60 Hz 150 W (standby), 1.5 kW (full operation) 12 A
Mains panel connector		male power socket, acc. IEC 60320-1 (C20)
Interlock loop connection		two-pole connector with screwlocking acc. IEC 60130-9, Co. Binder, series 581/680/682, TYP 09-0303-00-02, or at termination block inside control box
Interlock loop contact load		ES1 type acc. to IEC 62368-1 max. 42.4 V ACpk / 60 V DC max. 1 A
Heat exchanger		25 kW special SPINNER single ventilator type
Acoustic emission (for max. RF power)		sound pressure level, approx. 79 dB (A)
Product Manual		10086211
Weight, approx.		150 kg

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Template TD-00003 | K

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Environmental conditions

Operation	
Operational environment	operating sites with limited access, indoor only
Ambient temperature range	-10 to +45°C
Relative humidity, max.	95% (non-condensing)
Altitude, max.	2286 m
IP protection level	IP20 per EN 60529
Storage and transport	
Ambient temperature range	-20 to +70°C
Relative humidity, max.	95% (non-condensing)

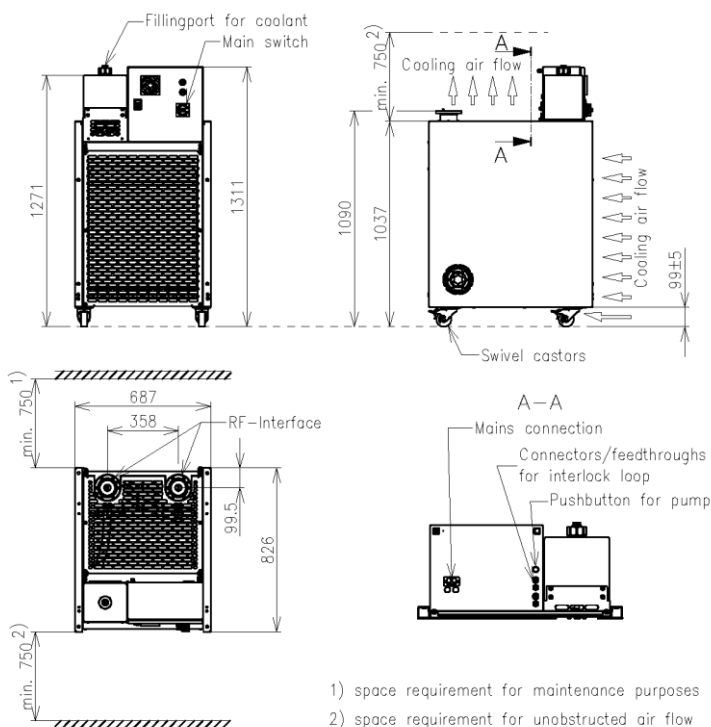
Coolant

Capacity of cooling circuit, approx.	15 l (dummy load supplied in filled state)
Chemical composition, brand	mixture of distilled water, 39 Vol. % ethylene glycol and corrosion inhibitor, ANTIFROGEN N
Density (temperature sensitive)	1.054 kg/dm ³ @ +20°C

Scope of delivery and accessories

Scope of delivery	power cord with IEC 60320-1 C19 socket (pigtail) interlock cable connector product manual material safety data sheet of the coolant	
Spare parts	power cord with IEC 60320-1 C19 socket (pigtail) interlock cable connector coolant 20 l canister ANTIFROGEN N 39% glycol	BN A77310 BN 102964 BN 39463A

Outline (all dimensions in millimeter)



- 1) space requirement for maintenance purposes
- 2) space requirement for unobstructed air flow

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