

## 50 kW SmartLoad || BN 546437

Coaxial load with intelligent control:

- Standby function
- Pump and fan activated only when needed
- Super fast self protection
- Interlock signal
- Single phase power supply
- Side walls can be covered
- Outdoor heat exchanger available optionally



## Operating modes

Standby and RF power approx. 80 W	natural cooling without pump or fan *
RF power approx. 80 W to approx. 800 W	pump only *
RF power approx. 800 W to 50 kW	pump and 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	6 1/8" EIA (50 Ω) per IEC 60339-2, facing upwards
Frequency range	DC to 790 MHz
Average power rating, max.	50 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 790 MHz or 1.08 @ DC to 790 MHz

## Cooling Aggregate

Mains supply:	Mains voltage Mains frequency Real power, consumption Nominal current, max.	187 to 264 V, L, N, PE (or L+, L-, Ground) 50 / 60 Hz 50 W (standby), 3.0 kW (full operation) 15.5 A
Mains panel connector	male power socket, acc. IEC 60320-1 (C20)	
Interlock loop connection	two-pole connector with screw locking 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	SELV per IEC 60950-1 max. 42.4 V AC <sub>pk</sub> / 60 V DC max. 1 A	
Heat exchanger	50 kW special SPINNER single ventilator type	
Acoustic emission	noise level, approx. sound power, approx.	85 dB(A) 91 dB(A)
Product Manual	M36448	
Weight, approx.	190 kg	

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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	-25 to +70°C
Relative humidity, max.	95% (non-condensing)

## Coolant

Capacity of cooling circuit, approx.	25 litres (dummy load supplied in filled state)
Chemical composition, brand	mixture of distilled water, 50 Vol. % ethylene glycol and corrosion inhibitor, STAUBCO® Cool N -40°C
Density (temperature sensitive)	1.08 kg/dm <sup>3</sup> @ +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 STAUBCO® Cool N -40°C coolant, 25 litres canister	BN A77310 BN 102964 BN A75272

## Outline (all dimensions in millimeter)

