

Accessories for Fan- and Liquid-Cooled Filters

SPINNER supplies fan- and liquid-cooled filters and combiners for high transmitter power levels. Fan and liquid cooling are almost equally effective. However, it is simpler to install fan cooling systems because they only require DC wiring, whereas hoses and pumps are needed for liquid cooling systems.

Another difference is that fan cooling transfers the heat into the room, while liquid cooling can be used to carry the heat outdoors. Which cooling system is best in a given case depends on things like whether a liquid cooling system already exists, the capacity of an available air conditioning system, and redundancy requirements.

If forced cooling fails, operation can be continued with natural cooling at reduced power. SPINNER supplies all cooled filters and combiners with a temperature switch that shows whether the filter is too hot (85°C or more) making it necessary to reduce the power. The fans have to be powered with 24V DC from an existing source or via a SPINNER BN 155815 mains adapter, which has capacity for up to 10 filters. SPINNER has many options for implementing liquid-cooled filters, either to supplement existing cooling systems or for use as standalone combiner cooling systems with heat sinks:

- Various interfaces for cooling pipes
- Cooler unit with heat sinks



Pump unit and UHF combiner with liquid cooled filter



Pump unit and indoor cooler

Cutting Ring Fittings to Interface the Cooling Tube	Part Number
Tube fitting hose barb connector 1/2"	BN A72955
Tube fitting gauge connector 3/8" female straight	BN A74262
Tube fitting gauge connector 3/8" male straight	BN A74263
Tube fitting gauge connector 3/8" female 90° elbow	BN A74318
Tube fitting gauge connector 3/8" male 90° elbow	BN A74320
Tube fitting gauge connector 1/2" female straight	BN A74260
Tube fitting gauge connector 1/2" male straight	BN A74261
Tube fitting gauge connector 1/2" female 90° elbow	BN A74317
Tube fitting gauge connector 1/2" male 90° elbow	BN A74319
Coolant	
25l can with coolant (mix glycol and water and anti corrosive)	BN 154567
Cooler	
Cooling unit with reservoir, twin pump, water splitter, valves	BN 155729
Fan Cooling accessories	
Mains adapter	BN 155815
Spare fan	BN B22410
DC distribution cables	BN 155817
Temperature switches	
Normally closed contact opening at 71 °C (optional)	BN A72406
Normally closed contact opening at 85 °C (included)	BN B18100