

CNF4



CNF4 is the ventilation and heating unit for the Kipp & Zonen CNR4 net radiometer. The CNF4 minimizes the effects of precipitation, condensation and frost on your radiometer measurement data, improving the CNR4 accuracy and reliability even further; as well as minimizing the need for cleaning and maintenance.

CNF4 provides a clean air flow over all four of the CNR4 radiometer domes and windows and is designed to operate under all weather conditions. The only part that needs maintenance is the air inlet filter, which should be checked at regular intervals and cleaned or replaced when necessary.

The integrated 10 W heating can be switched on externally by the operator when required. This raises the temperature of the domes and windows slightly above ambient to prevent the formation of dew and frost and to disperse precipitation.

The ventilation fan and heater run from 12 VDC and can be operated by the accessory CVP2 universal AC-DC power adaptor. A pulse output allows the fan speed to be monitored and there is a waterproof connector for the cable.

CNF4 can be integrated at production. But it can also be bought as an accessory kit for retro-fitting to a CNR4 that was purchased without it.

Specifications	
Supply voltage	8 to 13.5 VDC
Cable voltage drop	0.07 V/m (with heater)
Tacho output	5 V, 2 pulses per revolution 8800 pulses per minute (nominal)
Power consumption ventilator	5 W continuously
Power consumption heater	10 W (to be externally switched)
Operational temperature range	-40 °C to +70 °C
Storage temperature range	-40 °C to +70 °C
Humidity range	0 to 100 % non-condensing
Ingress Protection (IP) rating	55

Part number	Instrument
0369710-002	CNF4 Ventilation Unit • 10 m cable
0369710-000	CNF4 Ventilation Unit • no plug, no cable

Note: Cable length is limited to 50m because of voltage drop on the power supply wires

Part number	Accessories
2682047	Spare Filters pack of 5 fan inlet filters
0349401	CVP2 Power Supply 115 / 230V AC Power adaptor with 12 VDC output

Note: CVP2 is not suitable for unprotected outdoor use