CVF 3 Ventilation Unit

CVF 3 Ventilation Unit is designed to be used with the Kipp & Zonen CMP, CGR and CUV series of instruments (except the CMP 3 and CGR 3). It stabilises the temperature of the radiometer near to that of the ambient air and suppresses the thermal offsets which are produced by cooling down of the domes under calm clear sky conditions or by dome heating due to the absorption of solar radiation.

CVF 3 is designed to operate under all weather conditions and the only part that needs maintenance is the air inlet filter, which should be checked at regular intervals and cleaned or replaced when necessary. A pulse output allows the fan speed to be monitored and there is a waterproof connector for the cable.

Two levels of integrated heating are built-in that can be switched on by the operator when required. 5 Watt heating is used under normal conditions to raise the temperature of the dome slightly above ambient to prevent the formation of dew and frost. 10 Watt heating for more extreme climates melts snow and ice. The ventilation fan and heaters run from 12 VDC.

The accessory CVP 2 universal AC-DC power adaptor can operate up to two CVF 3 ventilation units with the heaters on.

Specifications

Ventilator fan power	5 W continuously
Heater power (selectable)	5 W and 10 W
Operating temperature	-40 °C to +70 °C
Air temperature rise caused by CVF 3	< 0.25 K with ventilator fan only < 0.5 K with 5 W heater < 1 K with 10 W heater
Offset caused by 10 W heater	< 1 W/m² for CMP 11 Pyranometer
Tacho output	5 V, 2 pulses per revolution
Cable voltage drop	0.07 V/m (with 10 W heater)
Power required	12 VDC, 1.3 A (with 10 W heater)

Article	Part number
CVF 3 Ventilation Unit • 10 m cable	**0370900-002**
Options for CVF 3	
CVF 3 Ventilation Unit • 25 m cable	0370900-004
CVF 3 Ventilation Unit • 50 m cable	0370900-005
CVF 3 Ventilation Unit • plug only, no cable	0370900-008
Note: The cable for the CVF 3 is limited to 50 m because of voltage drop	
Spare Filters pack of 5 fan inlet filters	**2682916**

Accessories for CVF 3	Part number
CVP 2 Power Supply 115 / 230V AC Power adaptor with 12 VDC output	**0349401**
Note: CVP 2 is not suitable for unprotected outdoor use	

KIPP & ZONEN
SINCE 1830