



Attestation of conformity 1180

DELTA client Protect A/S Jegstrupvej 30 8361 Hasselager Denmark	DELTA project no. T204974
Product identification Protect Fog Cannon QUMULUS: 230 VAC, 50 Hz, 1050 W	
Test specification IEC 62642-8:2011, clause 4.2: "Environmental tests" and clause 6.4: "EMC requirements".	
Ref. document(s) DELTA project no. T201035, DANAK-1911638 DELTA project no. A530910 DELTA Project no. A506933, DANAK-1910906 Revision A AK 9.11.25 Report	
Comments and Conclusion The design of Protect QUMULUS has been compared with the design of the previously tested Protect Fog Cannon model 600 with respect to the requirements of IEC 62642-8:2011, clause 4.2: "Environmental tests" and clause 6.4: "EMC requirements" in order to assess compliance based on previously performed tests on the Protect Fog Cannon model 600. The EMC requirements are considered to be fulfilled as the electronics of the two designs are of identical types. The mechanical requirements i.e. vibration and impact are not fulfilled as the structure of the Protect QUMULUS is fundamentally different from Protect Fog Cannon model 600. The climatic requirements of cold, cyclic damp heat and SO₂ are considered to be fulfilled as the components used in the two designs are of identical types and the same amount of power is dissipated in the two structures leading to higher temperature rise above ambient for the smaller surface area of the Protect QUMULUS. However, this also means that the requirement of dry heat is not considered to be fulfilled. Conclusion PROTECT QUMULUS comply with IEC IEC 62642-8:2011, clause 4.2: "Environmental tests" and clause 6.4: "EMC requirements", except for the following requirements: • Impact • Vibration sinusoidal (operational) • Vibration sinusoidal (endurance) • Dry heat	
Date Hørsholm, 4 April 2013	Assessor  Susanne Otto, DELTA B.Sc.E.E., B.Com (Org.)