



DEPARTMENT OF THE AIR FORCE
40TH AIR EXPEDITIONARY GROUP
APO AP 96490

7 February 2006

MEMORANDUM FOR 40 ECEF/CC

FROM: 40 EMEDS/SGPB

SUBJECT: RGF Environmental Group Mini AC/Heat Duct Air Purification System.

1. In response to your request to evaluate the subject equipment (RGF Environmental Group Mini AC/Heat Duct Air Purification System) on the 27th January 2006, I observed a test unit installed in a single HVAC system supplying air conditioning to one Alaskan Tent housing 5 personnel. Initially, 90% of the system's air handling unit was infested with mold and the air inside the tent was musty. After several days of having the RGF unit installed, the mold had retreated 75%, and the air quality inside the tent was noticeably improved. Unfortunately, we don't have the capability of conducting detailed air sampling which would provide quantitative verification of the system's effectiveness.
2. Based on my qualitative observations of the results from the installation of the tent unit, it appears that the RGF unit is effective in reducing the amount of mold growth inside the AC/Heat ducts, thus reducing the amount of mold spores being discharged into the tent. This could also lead to the reduction in the probability of any occupant(s) with allergies from developing symptomatic upper respiratory infection (URI) as a result of the exposure to mold growth. I support the use of additional units in other HVAC systems for that purpose.
3. If you have any questions or concerns please call our office at 370-3950.

Respectfully,

//ORIGINAL SIGNED//

Patrick Calio, TSgt. USAF-HIANG
NCOIC Bioenvironmental Engineering Services
40 EMEDS/SGPB
Diego Garcia, B.I.O.T. (370-3950)

cc: Lt.Col. Rodolfo Perez-Gallardo, EMEDS/CC
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