



Surviving the elements with IP68 weather resistant fans

Soil analysis is performed in a variety of industries from agriculture to construction, and is often done on-site at outdoor locations using portable analyzers. Samples are taken to determine the chemical makeup of the soil and to detect any dangerous heavy metals. This is particularly important in areas where the grounds are known to contain high levels of toxicity. To ensure accurate and consistent results, cooling of the analyzer must be reliable in even the most challenging conditions, including exposure to moisture and dust. The demanding environmental conditions make the ebm-papst IP68 rated fans an ideal solution.

Ingress Protection (IP) is a standard protection rating for electrical enclosures describing their resistance to water and solid objects (including dust), with IP68 being the highest rating. This optional protection is available for select ebm-papst fans and blowers, and ensures that the electronics inside the motor are completely sealed against foreign objects and water.

A manufacturer of portable analysis equipment needed a robust fan for direct cooling to a heat sink in their new design. Careful evaluation resulted in the selection of an ebm-papst 630 series fan (60mm x 60mm / 2.36 inch frame size), with added IP68 environmental protection. Even when exposed to heavy rain and sand, the superior ingress protection of the 630 series fan works reliably and ensures optimal performance and operation. This allows the analyzer to be used with confidence in all conditions.

- Developed for applications with extreme environmental challenges
- Efficient brushless DC motor (available in 12 or 24 VDC)
- Available options include control inputs, alarm, and speed signals

