



Every AirScape® whole house fan features one of our industry-leading backdraft dampers. Our dampers use industrial-grade actuators to automatically open and close their doors whenever the fan is turned on or off. When the fan is off, these doors seal tightly against a rubber gasket to prevent air from leaking from living space into the attic or vice versa. And, to slow the transfer of heat between these two spaces, R-10 fiberglass insulation is built into the body of each door.

Without this barrier, heated indoor air would easily leak into the attic, reducing the home's efficiency and creating cold, uncomfortable drafts. In some climates, however, R-10 insulation isn't enough. For example, in mountainous areas, cool nights often allow homeowners to replace A/C entirely with a whole house fan, but cold winters make it especially important the home be extremely well insulated. To meet the needs of such homeowners, our XR model super-insulated backdraft dampers are available for each fan in our AirScape line.

These dampers use sophisticated vacuum insulated panels to increase their insulation to an amazing R-49, while remaining the same size. If it is cold enough outside to snow, upgrading to an XR damper will reduce heat loss through the damper by about 80% compared to the standard unit. Achieving this same performance with traditional insulation would require the thickness of the dampers' doors to increase from about two inches to well over a foot.

This level of insulation allows homeowners in colder regions to take full advantage of a whole house fan during the summer, while staying warm and comfortable through the winter.