

# PowerVent Advanced



## **“PowerVent” Air Flow System**

The original “PowerVent” forced ventilation system has been incorporated in Acer Sports Floor installations for nearly 20 years. This patented method triggers circulating air below athletic subfloors when elevated humidity is detected below the floor surface. The strategically placed sensor(s) positioned within subfloor cavities provide a manner of introducing mechanically forced air circulation through the subfloor before the ill effects of high humidity are seen on the floor.

## **“PowerVent Advanced” Balanced Air Flow System**

In addition to features and benefits furnished in our original system such as early moisture detection and evacuation of elevated humidity, the introduction of our patented “PowerVent Advanced” system provides a manner to maintain common humidity levels above and below Acer athletic floors. Wood materials function best when moisture content of each component is balanced from top to bottom. This reduces the negative effects associated with uneven moisture such as cupping of flooring boards and related stresses of wood fiber. Maintaining balanced humidity above and below creates the benefit of symmetric reaction of subfloor and flooring components.

## **How It Works**

By monitoring levels above and below the floor, “PowerVent Advanced” either introduces or reduces humidity levels determined by sensors within the subfloor as well as within the room itself. A range specific to the set point and tolerance related to each facility determines PowerVent activation and function necessary for balanced conditions.

## **Added Features**

The “PowerVent Advanced” system also includes a built-in alarm relay suitable for remote connection to personal devices. Conditions such as extreme humidity under the floor or elevated CO2 levels can be monitored by the PVA system for alarm activation such as a strobe light indicator or connection to the facilities existing building control system.

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