

CENTRIFUGAL VS. VANE AXIAL FANS

WHAT MAKES PROTO-VEST DRYERS MORE UNIQUE THAN ITS COMPETITORS? WHY ARE THEY ENERGY EFFICIENT? SEE THE DIFFERENCES BETWEEN OUR DRYERS THAT USE CENTRIFUGAL FANS AND THE COMPETITORS THAT UTILIZE VANE AXIAL.

CENTRIFUGAL FANS

CENTRIFUGAL FANS DISPLACE AIR RADIALLY WHICH ALSO MOVE A RELATIVELY CONSTANT VOLUME OF AIR RATHER THAN A CONSTANT MASS. THEY USE KINETIC ENERGY OF THE ROTATING IMPELLERS TO INCREASE THE SPEED AND VOLUME OF AN AIR STREAM.

CONSTANT VOLUME, HIGH PRESSURE

LESS ENERGY IS NEEDED TO RUN THE DRYER BECAUSE OF HOW THE SYSTEM EFFECTIVELY USES ITS AIR FLOW.



VANE AXIAL FANS

VANE AXIAL FANS DISTRIBUTE AIR IN DIFFERENT DIRECTIONS IN A CONSTANT MASS. BLADES ROTATING AROUND AN AXIS DRAW AIR IN PARALLEL TO THAT AXIS AND FORCE AIR OUT IN THE SAME DIRECTION.

HIGH VOLUME, LOW PRESSURE

LESS ENERGY IS NEEDED TO RUN THE DRYER BUT CREATES LESS PRESSURE THAN CENTRIFUGAL FANS.

