



AIR KNIFE

▶ GENERAL GUIDELINES FOR AIR KNIFE APPLICATIONS:

LIGHT BLOW-OFF & DE-STAT APPLICATIONS:

- Velocity Range of 5,300 FPM (Feet per Minute) (60MPH) Minimum to 16,000 FPM (180MPH) Maximum.
- Line speeds will not exceed 100 FPM as a rule.
- Single Pass is all that will be required +90% of applications.

AVERAGE BLOW-OFF APPLICATIONS:

- Velocity Range of 15,000 FPM (170MPH) to 30,000 FPM (340MPH).
- Line speeds up to 150 FPM have better than a 70% chance of requiring only one (1) Pass.
- Line speeds up to 500 FPM. Two (2) Pass or Three (3) Pass system required.

SEVERE BLOW-OFF APPLICATIONS:

- Velocity Range of 25,000 FPM (280MPH) to 53,000 FPM (600MPH).
- Line speeds up to 2,800 FPM (30MPH) could be encountered.
- Multiple Pass systems required +90% of time.

▶ SCENARIOS FOR AIR KNIFE SYSTEM INSTALLATIONS:

BEST:

- Air Knife within 1" of work surface.
- Blower within 10' of Air Knife Station.
- All 90° bends are eliminated.
- Inlet Filters are changed on a regular basis.
- Ambient temperature does not exceed 100°F (39°C).

ACCEPTABLE:

- Air Knife no further than 12" from work surface.
- Blower no further than 50' from Air Knife Station.
- Inlet Filter is changed before blower failure.
- Ambient temperature does not exceed limits of safe blower operation.