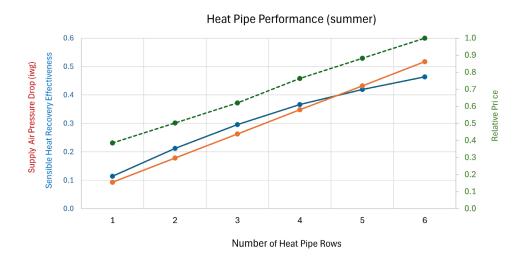


HEAT PIPE EFFECTIVENESS



The below example illustrates how heat pipe effectiveness, price, and air pressure drop vary as the coil rows are increased. Typically, the best balance of these factors is around 3-5 rows deep.



Heat Pipe Performance (winter) 0.6 1.0 0.9 Sensible Heat Recovery Effectiveness Supply Air Pressure Drop (iwg) 0.5 0.8 0.7 Relative Pri ce 0.6 0.4 0.3 0.2 0.1 Number of Heat Pipe Rows

Heat Pipe Design

- 5/8" Staggered pattern, 575FPM, 10FPI
- 30" Fin Length Supply, 30" Fin Length Exhaust
- 750mm Fin Height
- Stainless Tube/Aluminum Fin

Summer Design Conditions

Supply: 100F/40% RHExhaust: 70F/50% RH

Winter Design Conditions

- Supply: 20F/70% RH
- Exhaust: 65F/50% RH