

JetStream Outdoor Cooling

Overview

JetStream Outdoor Cooling utilizes forced static air to force rapid flash evaporation to cool outdoor patios. This is accomplished by using high pressure low volume mist and a ducted system with an inline blower in a crawl space. This system will cool an outdoor covered patio without the heavy moisture associated with conventional mist systems where moisture may collect or settle on patio.

Requirements

Ducted System - Rough in for the ducted cooling system needs to happen after dry in and before mechanicals and electric. Port placement locations are very specific especially when paired with the integrated electrical heating and can lights and ceiling fans will be affected.

Box System - When attic crawlspace is not available, and the boxed system is utilized, we will need a plug at each location in which a box is located. Each box pulls 1.5 AMPS and all boxes will need to be on one switch to control power. In order to keep the high pressure tubing hidden, we will run $\frac{3}{4}$ pex to each location from the pump. Needs to be roughed in before ceiling to patio is installed.

Pump –

Pump will be located away from the patio area as to avoid any sound disturbance in the patio environment. Usually located in AC area or pool pump equipment area, it has to be within 75 feet of ducted system as we have to use $\frac{3}{4}$ pex to chase our high pressure tubing from pump to trunk of the ducted works. At the pump location, a plug that is switched on the patio area in a double gang box along with the blower switch, that is convenient for homeowners to turn on the cooling system when they enter the patio area. Water source for the pump is a conventional water faucet or spigot which needs to be connected to the water softener system. The pump will pull about 12 AMPS total, so it may need to be on its own run.

Blower –

The air pressure in our ducted system is provided by an inline blower. This fan will pull somewhere between 5-8 AMPS per blower (depending on the system.... plan on 6.4 AMPS), and needs to be hard wired to a switch that is next to the mist pump switch, somewhere convenient for the homeowner to switch on cooling system. If it is a multiple blower system, one switch needs to be utilized to control both blowers in order for them to both come on at the same time. This blower may be used without the mist pump to provide air movement when it is not hot enough for mist.