



Reco-Air Frequently Asked Questions

By Halton

Q: Are RecoAir units listed and approved for all locations?

A: RecoAir units are U.L. Listed to the UL710B standard for recirculating hoods as long as they are coupled with a UL710 [Capture Jet](#) exhaust hood. Most jurisdictions accept UL listings for approval, but the local authorities have final say and it's always a good idea to verify they accept recirculating hoods. Other jurisdictions also require local approval, such as New York City has a Certificate of Approval for all mechanical equipment.

Q: Can we install the RecoAir outdoor exposed to the weather?

A: RecoAir is designed and listed as a recirculating filtration unit for indoor use. If exhaust air is discharged outside a structure and filtration and odor control is required, a [Pollustop](#) pollution control unit is recommended.

Q: What is the temperature of the air being returned to the kitchen?

A: The temperature returned to the space is a function of the appliances being used. A mechanical engineer should be consulted as there would be added load to account for.

Additional air conditioning cooling capacity (sensible heat only) for RecoAir is as follows:

- RA1.0 2 tons
- RA1.5 2.6 tons
- RA2.0 3.9 tons

Q: What is the required clearances for maintenance?

- 22" on output (carbon filter) side for door to open far enough to remove carbon trays
- 28" min in front of carbon door for door swing
- 36" min in front of 208v panel
- 42" min in front of 460v panel

Q: What is the required clearances from non-combustible, semi-combustible and combustible surfaces?

- Clearances to various surfaces should follow NFPA 96 and IMC guidelines for type I installation.
- 6" clearance on the back side of unit for fire suppression piping.

Q: Which type of ductwork and insulation is recommended for exhaust duct?

A: The exhaust ductwork connecting the RecoAir unit to the Halton Capture Jet hoods should follow traditional grease duct construction and insulation requirements as outlined in NFPA 96.

Q: Does the room have to be conditioned for the tower to be put in?

A: The room should be generally ventilated due to heat build up, but does not necessarily have to be conditioned.

Q: Should the recirculated air be conditioned and cooled before it is returned to the space?

A: It is recommended practice to cool the recirculated air from the RecoAir unit to space-neutral conditions before being discharged back into the space. The mechanical engineer can provide guidance on this process.

Q: How far can the RecoAir be placed from the hood location?

A: 35 feet is the maximum distance. Consult factory on any distance beyond that.

Q: Are the filters washable, or do they need to be replaced?

A: Filters used in RecoAir are to be replaced when they reach their holding capacity. The number and type of filters can be found in the O&M manual.

Q: How noisy is the tower?

A: The tower is quiet, break out noise does not exceed 64dBA measured 3 feet from the unit.

Q: Can the exhaust air be ducted out a side wall?

A: Yes, make-up air would have to be considered since the unit is no longer recirculating air. Check with the factory on the distance to the exterior since there are physical limitations on how far the discharge duct can go from the tower.

Q: What are the power requirements for the RecoAir unit?

A: 208/460/3/60

Q: Can the RecoAir unit be painted any color?

A: Standard color is hammer tone grey. Custom RAL colors are available at additional cost, consult the factory.

Q: Can the discharge of the RecoAir unit be ducted to the MUA plenum located at the front of the hood?

A: It is recommended to distribute exhausted air away from the hood to mix with room air and reduce temperature around the hood.

Q: Can it be used with another manufacturer's hood?

A: No

Q: Can it be used with a Halton EO hood/any type of Halton hood?

A: It is recommended to use a Capture Jet hood to maximize the length of hood available, RecoAir can exhaust up to 3800 cfm or approximately 18 feet of Capture Jet hood.

Q: Does it include a complete Ansul system or pre-piped only?

A: A complete Ansul fire suppression system is provided.

Q: What is the average annual maintenance cost for a RecoAir unit?

A: The average annual maintenance cost varies significantly by unit size and duty load (cooking activity.) Average cost can range from \$8000 USD for light load RA1.0 to \$40,000 USD for a heavy duty RA2.0. These averages can be more or less depending on geographic location and travel time. For a more accurate cost, it is recommended to contact Halton Service Network (800-4HALTON) for a quote.

