PRODUCT APPLICATION FAQS

RegenCore

Is pre-heat or frost protection required in cold climates?

Generally, no. The RegenCore has been tested down to -40°F (°C) outdoor air conditions without the need for any frost protection.

Does the RegendCore recover latent energy?

Yes, in circumstances where the outdoor air is cold enough to bring the heat exchanger cores below the dew-point of the return air, latent energy will be transferred, up to 70%.

Are return filters required if the air is being exhausted anyways?

Return filters are not required in clean air applications due to the self-cleaning nature of the alternating air-flow heat exchanger cores. They are recommended in situations where the return air has excessive dust, to keep the damper section from becoming dirty.

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How often do I need to clean the heat exchanger cores?

The heat exchanger cores do not require regular maintenance or cleaning due to the self-cleaning nature of the alternating air-flow. A visual inspection can be done when convenient (e.g. supply filter change out) to check for any unusual build up. The cores can be removed from the unit and cleaned if necessary.

What if I need extra heating, cooling, or filtration?

SolutionAir air offers a variety of options that can be added to RegenCore units. Common options include: hot water or steam coils, electric heaters, indirect gas-fired furnaces, chilled water coils, packaged or split DX, and multiple levels of filtration ranging from MERV 8 to HEPA.

Air-Handler

What options are available for energy recovery?

Other than the RegenCore, which is available up to a nominal 40,000 cfm, SolutionAir can provide energy wheel, heat pipes, and plate heat exchangers between, 2,000 and 20,000 cfm.

Is hot gas reheat available?

Yes, please make note of the desired reheat temperature in your Cruse selection.

What size furnaces can you provide?

SolutionAir offers the follwing furnace sizes:

+ Standard efficiency (80%) convoluted tube (20°F to 110°F ΔT), 60 to 61,200 MBH, 505 to 44,444 cfm.
+ High efficiency (90%) convoluted tube (20°F to 110°F ΔT), 160 to 1,440 MBH, 1,136 to 26,930 cfm.
+ Standard efficiency (80%) drum and tube (60°F to 110°F ΔT), 250 to 6,000 MBH, 1,684 to 92,593 cfm.
+ Direct fired (20°F to 120°F ΔT), 42 to 6,500 MBH output, 1,950 to 50,000 cfm.

Can you do variable air-flow on your direct fired units?

Yes, SolutionAir direct fired units can vary their air-flow down to 50% of the design air-flow when modulating dampers are added to the burner section.

GRW

Is the GRW's only application the indoor horticulture environment (IHE)?

No, the GRW was design with the IHE in mind, but can be used in many application that require highly precise and independent temperature and humidity control.

How precisely can the GRW control temperature and humidity in a space?

The GRW can control dry-bulb temperature and dew-point to within +/-1°F.

Why is the GRW made of aluminum?

The GRW is made of unpainted marine grade aluminum to reduce VOCs, be lighter than stainless steel, and provide a high level of longevity and corrosion resistance by avoiding galvanic corrosion from dissimilar metals.