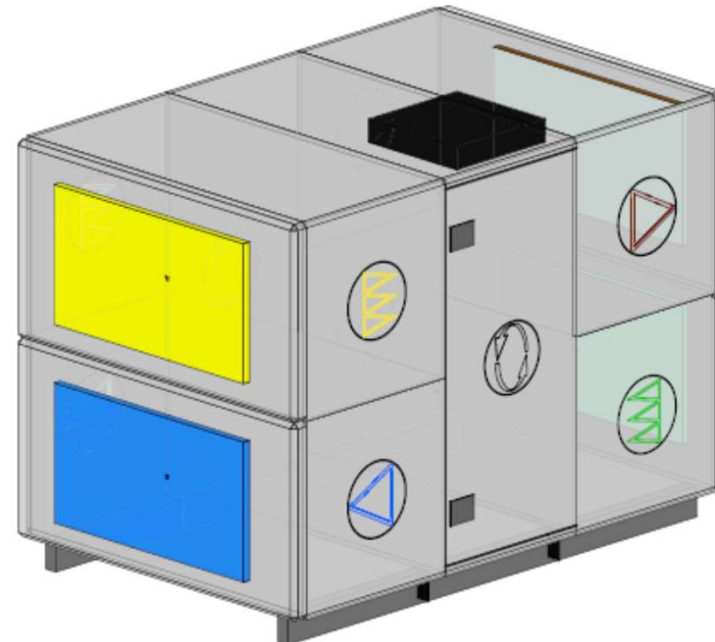


Working with LN Consulting on the mechanical design for this project there were two key attributes for why we used the Swegon Gold Series.

They were size and the modular construction and the thermal efficiencies.



GOLD F RX	
Unit size	012
Unit weight	1,128 lb
Duct Component Weight	88 lb
Length, max	75.24 In
Height, max	57.91 In
Width, max	47.20 In

Connection size	
outdoor air	32.00 x 18.00 In
supply air	32.00 x 18.00 In
extract air	32.00 x 18.00 In
exhaust air	32.00 x 18.00 In

Project: Charlotte Schools
 Unit name: ERV-1.1
 Unit ID: AD-10000262582
 1 / 1.0.20210422.1105805
 Date: 26/04/2021

Net supply airflow	1,990 scfm
Dry-bulb temperature efficiency of supply air(80.3% at the same airflow)	80.3 %
AHRI1060 sensible effectiveness, Summer case	80.3 %
AHRI1060 latent effectiveness, Summer case	55.9 %
AHRI1060 sensible effectiveness, Winter case	80.3 %
AHRI1060 latent effectiveness, Winter case	83.9 %
Humidity efficiency, supply air, winter	83.9 %
Humidity efficiency, supply air, summer	55.9 %

Supply air side, winter	In	Out	
Air temperature	-15.0	53.3	°F
Relative humidity	32	46	%
Heating capacity		147,000	Btu/h

Supply air side, summer	In	Out	
Air temperature	90.0	78.0	°F
Relative humidity	48	58	%
Cooling capacity		53,800	Btu/h

The selection shows on a -15F day we are seeing 53.3F discharge air temperature. I spoke with Chris Giard who is head of facilities for the school district, and he told me that he was seeing 60F discharge air temperature when the outdoor air temp was below 0F.