**GOLD SYSTEM APPLICATION SAMSUNG VRF**

**SUMMER**
- **Fans**: Special plenum fans design for high efficiency and low sound, direct driven by 220, 460, or 575 volt EC motors. Fans are variable flow and include airflow monitors. Variable airflow arrangements are limited to 50% turndown with DX cooling. Models are available from 500 to 16,000 cfm (0.24 to 7.55 m³/s).
- **Filters**: MERV 8 prefilter with MERV 13 main filter.
- **DX Coil**: Samsung approved DX coil is factory mounted in GOLD unit, matched to Samsung condensing units. Actual capacity and leaving air conditions are customer selected based on project requirements. Coil includes stainless steel double sloped drain pan.
- **Energy Recovery**: Plates, runaround coils and enthalpy wheels available. Standard GOLD RX AHRI 1060 certified 3 amp. enthalpy wheel recovers 85% of the total energy. Optional PASSHEX certified GOLD RX models use special enthalpy wheel and recover 90% of the total energy.
- **Universal Communication Kit**: The Samsung Universal Communication Kit is included with GOLD Unit and integrated with GOLD IQ Logic controller. The Samsung Universal Communication Kit communicates with condensing unit and Samsung system controller for seamless system integration.

**WINTER**
- **Optional Preheat**: Optional preheat for very cold climates. Preheat outdoor air to avoid hoar frost and improve energy recovery. Preheat can be water (glycol) or electric. Winter filters available.
- **Optional Heating Coil**: Optional preheat for very cold climates. Preheat outdoor air to avoid hoar frost and improve energy recovery. Preheat can be water (glycol) or electric. Winter filters available.
- **Heatpump Heating**: For improved energy savings, a Samsung heat pump condensing unit can be utilized to reduce the cost of heat. For typical applications the Samsung 1 heat pump can deliver enough heat at ambient temperatures above -13°F (-25˚C) at COPs above 3.6 to meet the required supply air temperature. Air cooled heat pumps will require periodic defrost. During these periods a supplemental heat source will be required. This can be accomplished with hot water coil, electric heat or any other heat source that can accommodate a 0-10 vdc control signal.
- **Final Heating**: Enthalpy wheel will recover most of the necessary heat to delivery neutral air. Using Swegon RecFROST control, the supply air is typically 58°F (14.5˚C) leaving the enthalpy wheel. Some defrost may occur lowering the supply air temperature to 30°F (-1.1˚C) while defrosting.

**GOLD comes ETL certified from the factory which eliminates the risks and cost associated with in-field certification.**

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### SAMSUNG Swegon Performance

**Model:** RX-2S  
**Supply Air:** 4,500 CFM  
**Exhaust Air:** 4,500 CFM  
**SA External Static:** 15-2.2” w.g.p  
**RA External Static** 15-2.2” w.g.p  
**Supply Fan:** 4.6 HP  
**Exhaust Fan:** 4.6 HP  
**Rotary Wheel Sensible Efficiency:** 82.5%  

### Summer Wheel Performance

- **OA EDB Temp** (F): 92.1°F  
- **OA EWB Temp** (F): 74.9°F  
- **RA EDB Temp** (F): 75°F  
- **RA EWB Temp** (F): 62.5°F  
- **Summer Off Wheel DB**: 79°F  
- **Summer Off Wheel WB**: 65.6°F  
- **Rotary Wheel Latent Efficiency**: 72.5%  

### Winter Wheel Performance

- **OA EDB Temp** (F): -1.6°F  
- **OA EWB Temp** (F): 70°F  
- **RA EDB Temp** (F): 70°F  
- **RA EWB Temp** (F): 81.5°F  
- **Winter Off Wheel DB**: 57.4°F  
- **Winter Off Wheel WB**: 54.5°F  
- **Rotary Wheel Latent Efficiency**: 80.5%  

### Package Performance

#### Reheat Method

- **Cooling LAT DB**: 54.9°F  
- **Cooling LAT WB**: 54.8°F  
- **Grimms**: 83.2°F  
- **Heat Recovery Reheat**: 72°F  
- **Hot Water Reheat**: 72°F  

#### Dimensions

- **Cabinet Length**: 105.8”  
- **Cabinet Width**: 56.5”  
- **Cabinet Height**: 57.9”  

#### Air Cooled Unit Solution

- **Condensing Unit**: AMU44FV2XJHS2AA  
- **Branch Controller**: N/A  
- **MCU-SENSOR**: N/A  

#### Water Cooled Solution

- **Condensing Unit**: N/A  
- **Branch Controller**: N/A  

### Key Specifiable Standard Features:

1. ECM Motors, direct drive plenum fans, CFM airflow station on supply and return fans.
2. Enthalpy wheel is aluminum substrate with 3 angstrom molecular sieve desiccant, energy recovery carry-over shall not exceed 0.45% as certified by a third party test agency.
3. Enthalpy wheel shall have stepper motor allowing speed control from 0.5 – 20 rpm. Unit controller shall manage motor speed to optimize energy transfer, purge sector airflow, and avoid frosting.
4. Unit shall include factory installed and tested controls, field configurable to achieve specified operating functions. Controls shall maintain the airflow setpoint regardless of air density, filter loading or ESP.
5. Units shall be service accessible from one side. Filters shall be side loaded and seal against fixed frame on all four sides of each filter.
6. Entering air temperature should be 23°F or above to the coil in heat pump operation.
7. Units shall be service accessible from one side. Filters shall be side loaded and seal against fixed frame on all four sides of each filter.
8. Unit shall include factory engineered integration between AHU and Samsung Universal Communication kit. Samsung Universal Communication kit and EEV kit shall be factory installed, including refrigerant piping, wiring of thermostats, and controls.