RTU/DOAS Quick Reference

Basic Construction

- Unpainted G90 Galvanized Steel Casing & Internal Liner
- Insulated Cabinet
  - Size 1: 1" Thick R4.3
  - Size 2-4: 2" Thick R13
- Stainless Steel Drain Pan
- Louvered Intake
- Down/Side Return
- Down/Side Discharge
- NEMA3R Non-Fused Disconnect
- Hinged/Removable Doors
- Metal Mesh/MERV8/MERV13 Filters
- Heat Only Option

Cooling

- 3 Tons – 60 Tons
- Inverter Duty Compressor - Danfoss
- EEV
- Modulating Reheat 0-100% Capacity
- ECM Condensing Fans
- Compressor Neoprene Vibration Isolation
- Chilled Water Coils

Heating

- Indirect Gas
  - 50 – 1,100MBH Input
  - 409 Stainless Steel Heat Exchanger
    - Standard Efficiency – 81%
    - High Efficiency – 90%
    - High Turndown Option
      - Sizes 2-4
      - 200 – 600MBH
      - Standard Eff. Only
- Electric Coils
- Hot Water Coils

Supply Fan:

- Direct-Drive
- High Efficiency Wheel Available
- ECM or VFD provided as standard
- Neoprene Vibration Isolation

Controls:

- Space or Discharge Humidity/Temperature
- HMI Controls
- Occupied/Unoccupied Scheduling Standard
- BACnet Integration Available
- Economizer
  - Dry Bulb or Enthalpy
  - Fixed or Differential
  - Barometric Relief Available
- CASlink
  - Remote Monitoring/Control of Unit
  - Fault Detection and Alerts
  - No Monthly Fee other than Cellular after 1 Year

Energy Recovery (ERV)

- Desiccant Wheel
- ECM Exhuast Fan
- Controls integration with RTU
- Supply/Exhaust Filtration

Heat Pump:

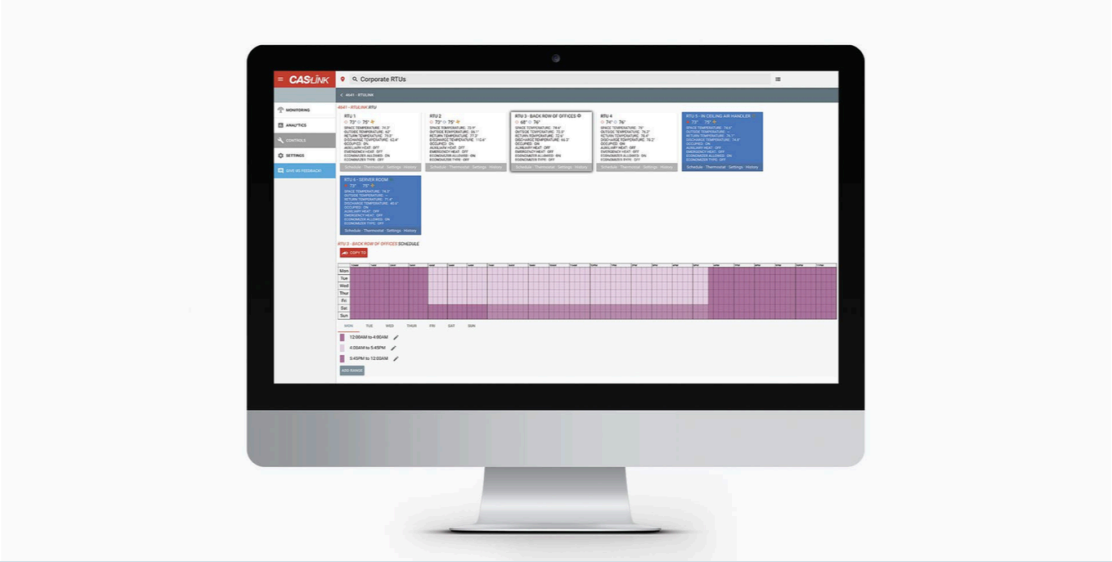
- Air Source (Reverses Cooling System)
- Paired with Supplemental or Auxiliary Heating (Gas or Electric)

HVAC Basic Sizing				
Casing Size	1	2	3	4
Cooling Capacity (Tons)	3 - 10	8 - 13	12.5 - 30	22.5 - 60
Air Volume (cfm)	500 - 3,000	750 - 5,000	1,000 - 6,000	2,000 - 12,000
Gas Heat Exchanger Input Capacity (MBH)	50 - 260	50 - 440	150 - 685	200 - 1,100
Electric Coil Capacity (kW)	10 - 60	15 - 60	15 - 100	60 - 240

RTU/DOAS Quick Reference

CASLINK MONITOR + CONTROL

Heating & Ventilation Systems



Complete System Control

- Continuously ensure equipment is operating as designed
- Save resources by practicing preventative, rather than reactive, maintenance
- Confirm work was completed correctly by comparing notes with actual data

24/7 Remote Access

- Manage sites from any internet-connected location
- Eliminate costly service visits for simple settings changes
- Diagnose problems remotely
- Assign permissions to vary the level of control and accessibility of a site

Real-Time Alerts

- Auto-generated email alerts
- Default alerts provided for each piece of equipment
- Custom alerts available at no additional charge

Continuous Data Analysis

- Optional analytics package includes advanced automated data reports
- Quick and easy data analysis with visual charts

CASLink Talking Points:

1. Open access to approved users. Anyone can request access to the monitoring service including Reps, Contractors, Engineers, Building Owners, and Building Managers.
2. Remotely monitor equipment and implement control adjustments via any web browser including mobile phones. No additional programs or applications needed.
3. Real-time and historical operation data for verifying operation/performance.
4. Factory service group able to review data and perform control revisions remotely and assist with troubleshooting.
5. 1 year complimentary cellular coverage with no additional cost for service itself. After 1 year the only cost will be related to cellular data plan. This cost can be avoided by connecting CASLink module to building internet service.
6. Immediate email fault notifications are sent to any users with access to the job site in CASLink. Allows for quick intervention and resolution of any issues that may occur.
7. Implemented in parallel with BACnet or LonWorks integrations so no need to choose.
8. Easily utilized on multiple pieces of equipment including RTUs, MUAs, EFs, and HVLS creating one control/monitoring location and login for much of the equipment on a job site.