

BULLETIN

MAY 1, 2024

TO: Greenheck Representatives
FROM: Jake Banke
Product Manager - DOAS
SUBJECT: DOAS Refrigerant Transition Updates



Our DOAS team has been working diligently to transition our equipment over to R-454B to conform with new refrigerant regulations enacted by the EPA. Ongoing challenges including component readiness and national testing lab availability have resulted in a unique tiered release strategy. Please see below for the planned CAPS updates related to the refrigerant transition.

4.44 CAPS® Initial Release – April 1, 2024 (Already Complete)

- R-454B PDX performance data available for selection only on the housings/tonnages listed below:
 - RV-25/RVE-40/RVC-35 (10-15 tons)
 - RV-45/RVE-85/RVC-65 (15-30 tons)
- R-410A is available to select and order for all housings/tonnages through August.
- Split-DX units are no longer selectable, but existing selections can still be ordered.

4.44 CAPS® Update – Late May/Early June 2024

- Additional R-454B performance data available for selection only.
 - RV-10 and RV-25/RVE-40/RVC-35 (3-7 tons).
 - NEW! Enhanced ASHP design (5-30 tons). This includes a single circuit design, microchannel reheat coil, lower ambient lockout (0°F), and upgraded control sequences for better cold climate operation.
 - NEW! Expanded RV-75/RVE-150 up to 70 tons and 18,000 cfm.

4.45 CAPS® Initial Release – August 5, 2024

- All R-454B selections can be ordered.
- OBSOLETE! All R-410A selections can no longer be ordered.
- OBSOLETE! All RV-110/RVE-180/RVC-145 units can no longer be ordered.
 - RV-110/RVE-180 units can be replaced with the RV-75/RVE-150.
 - There is no planned replacement for the RVC-145.
- OBSOLETE! Split DX units can no longer be ordered.

Other important notes related to R-454B selections:

- 575V selections are not available with R-454B. We are still defining a timeframe for a future release, but there will be a gap for all PDX and ASHP selections that require 575V.

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- Heat/Cool only controls are not available with R-454B selections. Due to the complexity, we have prioritized optimizing our factory controls but will revisit heat/cool-only controls in the future. A2L refrigerant equipment is subject to safety and compliance requirements when a leak is detected in a unit that requires a factory-provided sequence to override the controller. All units will be provided with multiple leak detection sensors. Depending on the leak location, the supply fan will be set to a constant speed, the compressors will turn off, and other components may be started or stopped based on configuration. There will also be requirements downstream of our unit that will need to be communicated.
- CAPS updates are not forced, but to ensure that you are selecting all the equipment that is in CAPS with R-454B, and are receiving the most up-to-date performance, efficiencies, and electrical values, please update CAPS every time there is an update available.

For more information on the transition to low Global Warming Potential (GWP) refrigerants, please click [here](#) for a blog written by our Principal Regulatory Compliance Engineer.

The complexity of this transition is certainly going to impact all customers, including engineers, contractors, service technicians, and owners. We are currently assessing how we can best inform and train different customers and will continue to update you as we roll that out.

Below is the link to the previous CAPS webinar with additional information on the 4.44 CAPS® release.

Link: [4.44 CAPS release webinar](#)

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If you have any questions, please reach out to me, or our DOAS team at DOAS@greenheck.com or 1-866-478-2574 option 2.