REGULATORY UPDATE - HFC / ENERGY REGULATIONS SUMMARY

US CLIMATE ALLIANCE: EPA SNAP RULES 20 and 21
- 24 U.S. States / Puerto Rico committed to phase down of HFC refrigerants
- R-404A, R-507A, and R-410A prohibited for new cold storage warehouse applications beginning Jan. 1, 2023
- Reduce 2005 CO2 emission levels to 26 - 28% by 2025 and 50 - 52% by 2030
- Prohibits HFCs including R-404A and R-507A for new and retrofit applications

QUEBEC (REGULATION REGARDING HALOCARBONS)
- Option 1 - Existing Facilities
- New Facilities / Installations
- PHASE II
- Reduce 2005 CO2 emission levels to 26 - 28% by 2025 and 50 - 52% by 2030
- Prohibits HFCs including R-404A and R-507A for new and retrofit applications

AMERICAN INNOVATION and MANUFACTURING (AIM ACT)
- The AIM Act provides new authority for the EPA to address HFCs in three ways: (1) phasing down production and consumption, (2) maximizing reclamation and minimizing releases from equipment, and (3) facilitating the transition to next generation technologies through sector-based restrictions
- First area of focus is the phase down of HFC production and consumption including in HVAC/R
- Final rule expected no later than Oct. 7, 2023

U.S. DOE Energy Regulations
- Walk-In Coolers and Freezers - WICFs < 3,000 square feet:
  - Unit coolers
  - Dedicated condensing units with (1) or more compressors, (1) refrigeration circuit, and serves (1) refrigerated load
  - Use DOE certified equipment

CALIFORNIA ENERGY COMMISSION ENERGY EFFICIENCY STANDARDS - 2019
- California Energy Code Title 24 includes mandatory efficiency requirements for refrigeration systems
  - Refrigerated Warehouses / Retail Spaces with Walk-In Coolers, Freezers, Refrigerated Display cases
- Warehouse Scope Includes:
  - Single room < 3,000 square feet (DOE units meet requirements)
  - Single room equal to or > 3,000 square feet
  - Refrigerated spaces that add up to 3,000 square feet or more served by the same refrigeration system
- Retail Scope Includes:
  - Retail food stores with 8,000 square feet or more of conditioned floor area, and utilizes either refrigerated display cases or walk-in coolers or freezers
# REGULATORY UPDATE - PRODUCT SOLUTIONS

## HUSSMANN SYSTEMS

**Levitor**
- MV
- MS
- MK
- GH / GL
- COILS for WALK-in COOLERS and FREEZERS
- C-Series
- H-Series
- Protocol HE
- Parallel Rack
- Port-A-Pak
- Pump Station

**Hussmann CO2**
- C-Series
- HE
- Large Air-Cooled
- C-Series

**Glycol for medium temp load or water for high side of propane systems**
- Not for Title 24 applications under 3,000 square feet
- Require certain options and control strategies that need to be included

**NEW FACILITIES WITH SYSTEM CHARGE > 50 LBS**
- NEW FACILITIES WITH SYSTEM CHARGE > 50 LBS
- GWP > 150
- GWP = 2,200
- GWP = 150
- CHARGE < 50 LBS

**NEW FACILITIES WITH SYSTEM CHARGE > 50 LBS**
- GWP > 150
- GWP = 2,200
- GWP = 150
- CHARGE < 50 LBS

**California Title 24**
- AIM ACT (EPA)
- QUEBEC (New Systems - Compressor Systems ONLY)

**DOE 2020 / NRCan**
- 208 V / 230 V
- 208 V / 230 V
- 208 V / 230 V
- 208 V / 230 V

**CARB (R-404A & R-507A Prohibited)**
- CANADA (ECC C = 2,200 GWP)
- CANADA (ECC C = 2,200 GWP)
- CANADA (R-404A & R-507A Prohibited)

## KRACK SYSTEMS

**DH / OL**
- NA
- NA
- NA
- NA

**COILS for WALK-in COOLERS and FREEZERS**
- GH / OL
- LH
- KR
- MK
- MV
- NS
- SM / SV

**MONOBLOCK for WALK-in COOLERS and FREEZERS**
- Krack microDS (10)

**CONDENSERS**
- Levitor
- Microchannel

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[1] Some Water-Cooled models
[2] Not for Title 24 applications under 3,000 square feet
[3] Glycol for medium temp load or water for high side of propane systems
[4] Require certain options and control strategies that need to be included
[5] These systems can be used for WICF’s under 3,000 square feet as long as the WICF is part of multiple loads
[7] CO2 required
[8] Certain models
[9] Available with 208 V / 230 V for WICF > 3,000 square feet
[10] Water-Cooled only

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