



Armstrong & Concord  
A/C and HP Transition  
to comply with 1/1/2023  
DOE Regulatory Changes (SEER2)

5-4-2022

# DOE 2023 Update!

- What is DOE 2023?
  - Minimum efficiencies are increasing
  - New testing procedure for manufacturers
- New test procedure = new metrics
  - SEER → SEER<sub>2</sub>
  - EER → EER<sub>2</sub>
  - HSPF → HSPF<sub>2</sub>
- What changed?
  - Duct static test point is increasing up to 5X! (from 0.1"-0.2" (varies based on tonnage), to 0.5" for all tonnages)
    - The heating load line is moving, negatively affecting HSPF ratings.
  - Takeaway:
    - Entry-level products will be more efficient, but more expensive.

## 2023 DOE Minimums

### North

Product	Current M Standards <i>(est. 2015)</i>	New 2023 M1 Standards
Split System Air Conditioners <i>(including Mini-Splits)</i>	13 SEER	13.4 SEER <sub>2</sub> <i>(equivalent to 14 SEER)</i>
Split System Heat Pumps <i>(including Mini-Splits)</i>	14 SEER   8.2 HSPF	14.3 SEER <sub>2</sub>   7.5 HSPF <sub>2</sub> <i>(equivalent to 15 SEER and 8.8 HSPF)</i>

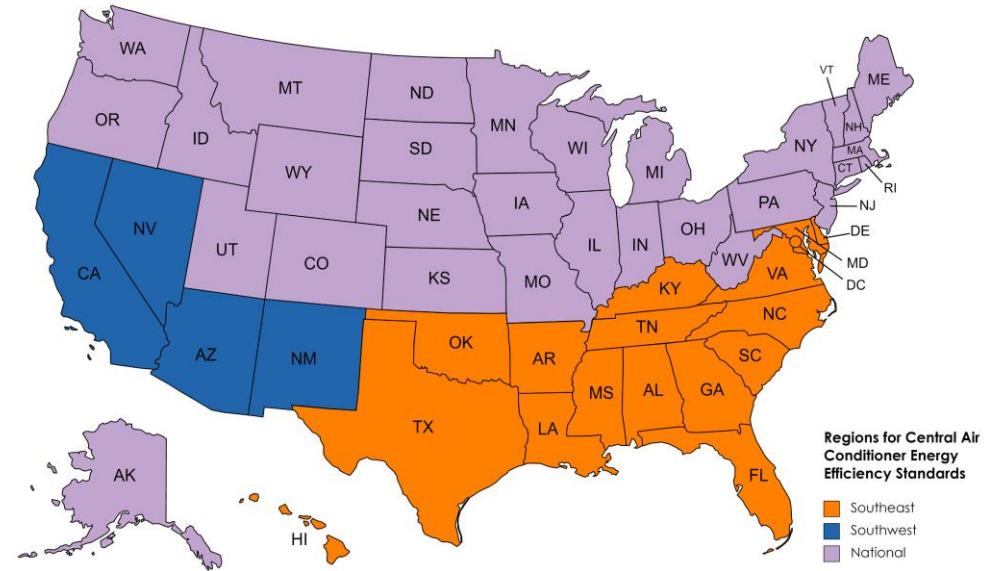
### South West

Product	Current M Standards <i>(est. 2015)</i>	New 2023 M1 Standards
Split System Air Conditioners <i>(including Mini-Splits)</i>	14 SEER   12.2 EER	< 45k BTU: 14.3 SEER <sub>2</sub>   11.7* EER <sub>2</sub> <i>(equivalent to 15 SEER and 12.2 EER)</i>
		≥ 45k BTU: 13.8 SEER <sub>2</sub>   11.2* EER <sub>2</sub> <i>(equivalent to 14.5 SEER and 11.7 EER)</i>
Split System Heat Pumps <i>(including Mini-Splits)</i>	14 SEER   8.2 HSPF	14.3 SEER <sub>2</sub>   7.5 HSPF <sub>2</sub> <i>(equivalent to 15 SEER and 8.8 HSPF)</i>



# Efficiency Standards for AC's are Regional

- Northern Region:
  - Based on manufactured date (like heat pumps)
  - Legacy AC's may be sold and installed in perpetuity
- Southern Regions:
  - Based on install date
  - Only Legacy AC's meeting minimum sell through efficiency may be sold through after January 2023!



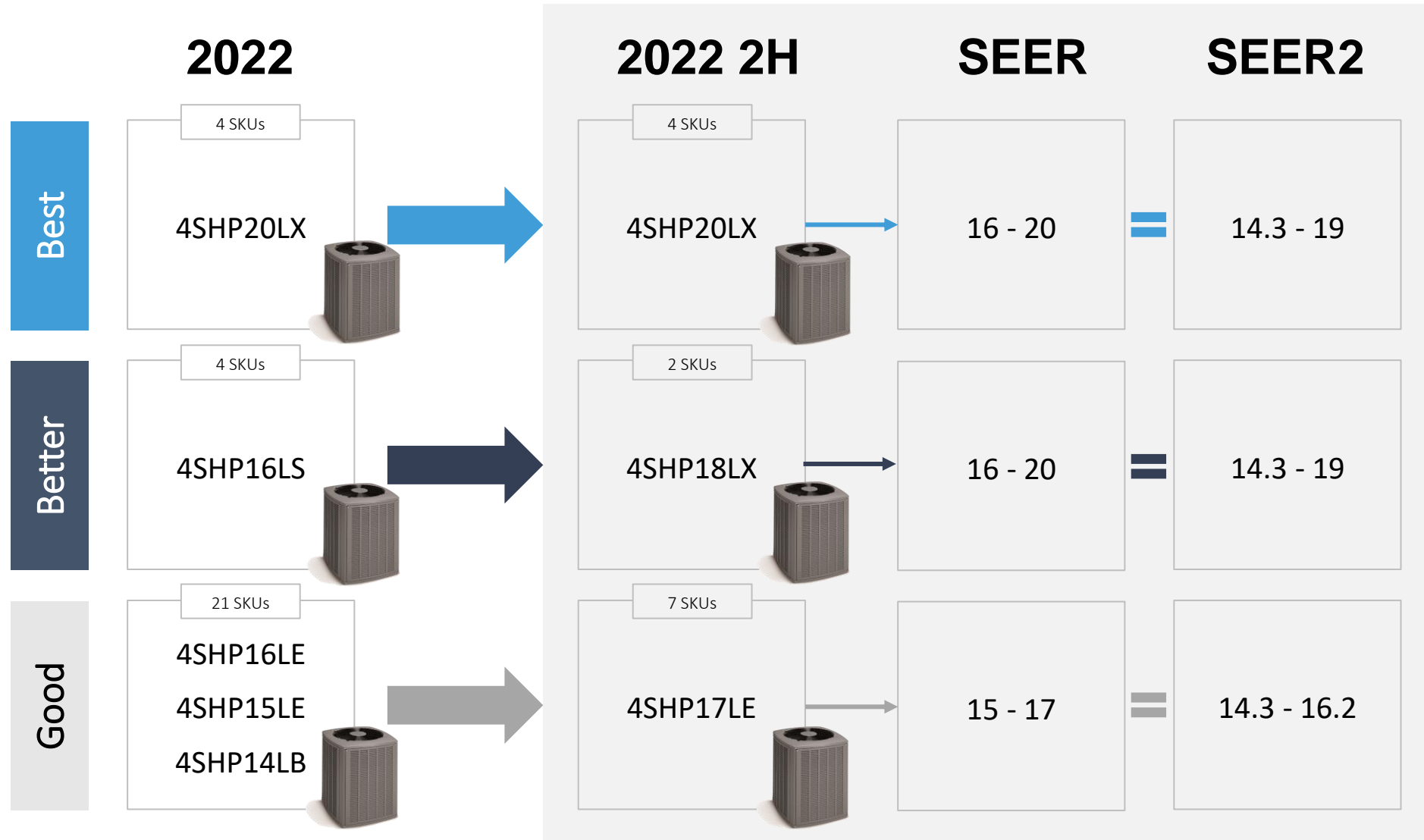
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## **South & SouthWest Implication:**

All 14 SEER AC's (and some 15 SEER as well) become illegal to install/sell after January 2023 (including RNC projects)  
→ *Must launch new DOE families early & purge all inventory in the South!*

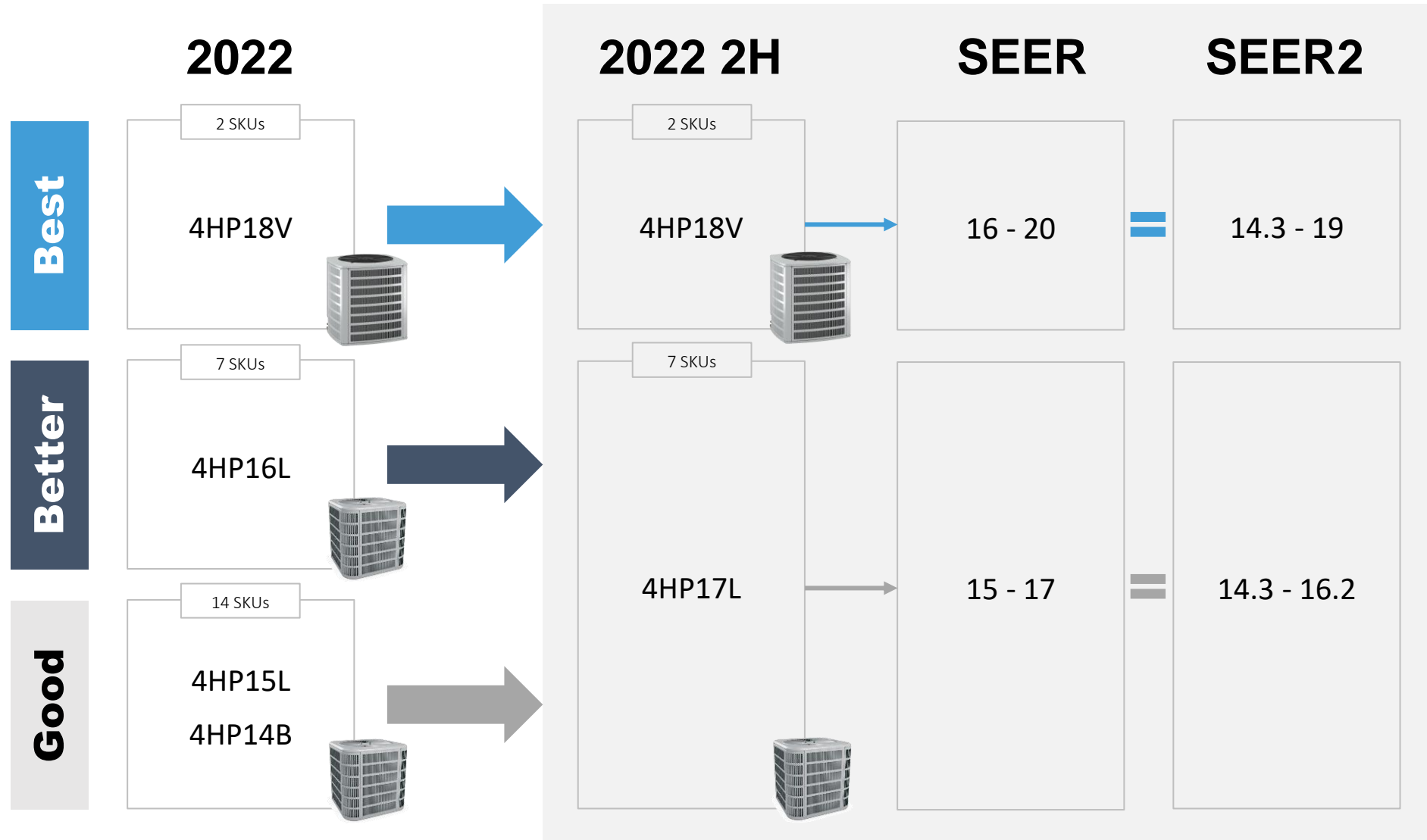
# Flagship heat pumps

National



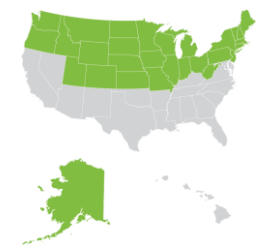
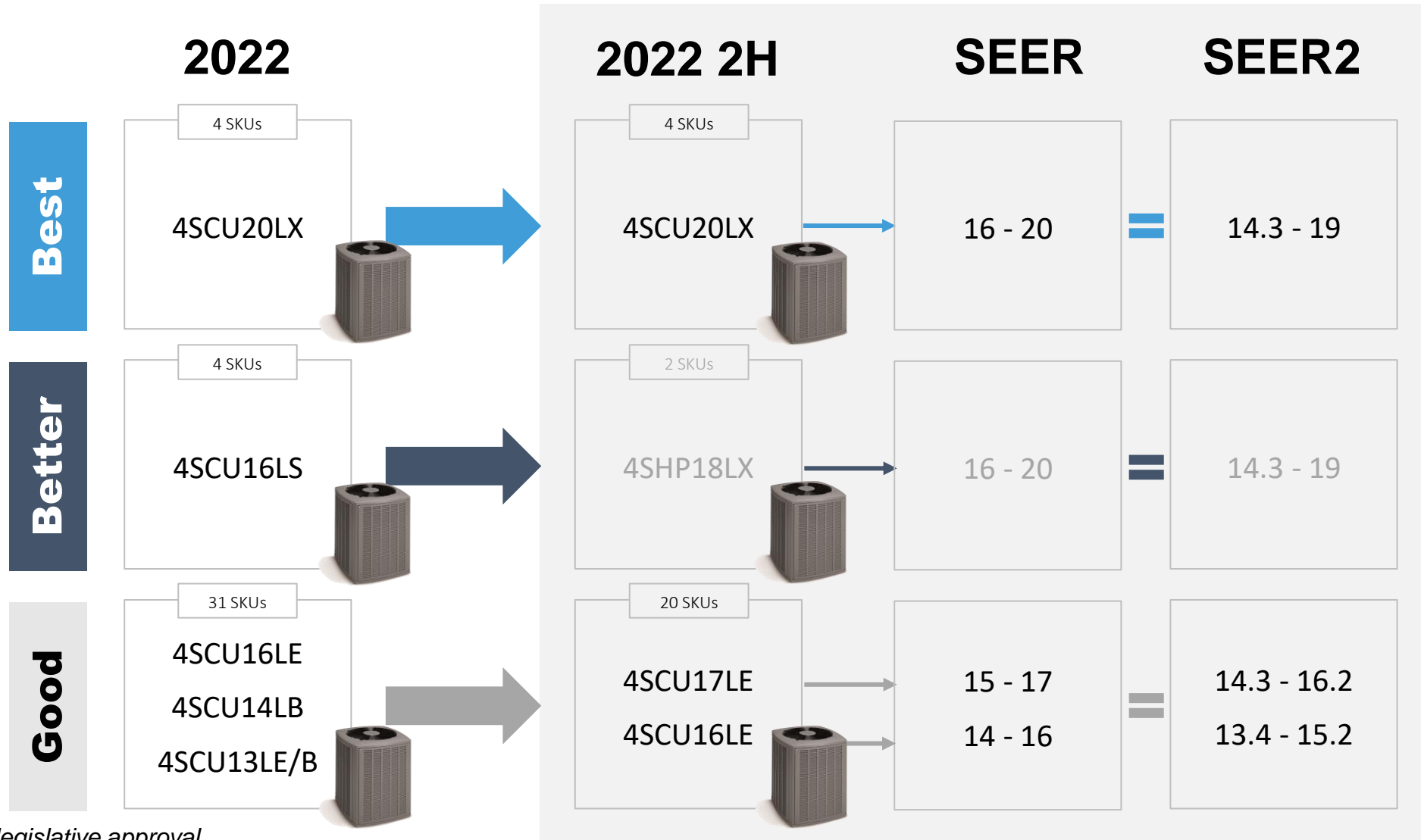
# Over-the-counter heat pumps

National



# Flagship air conditioners

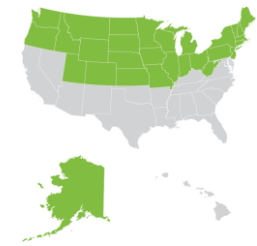
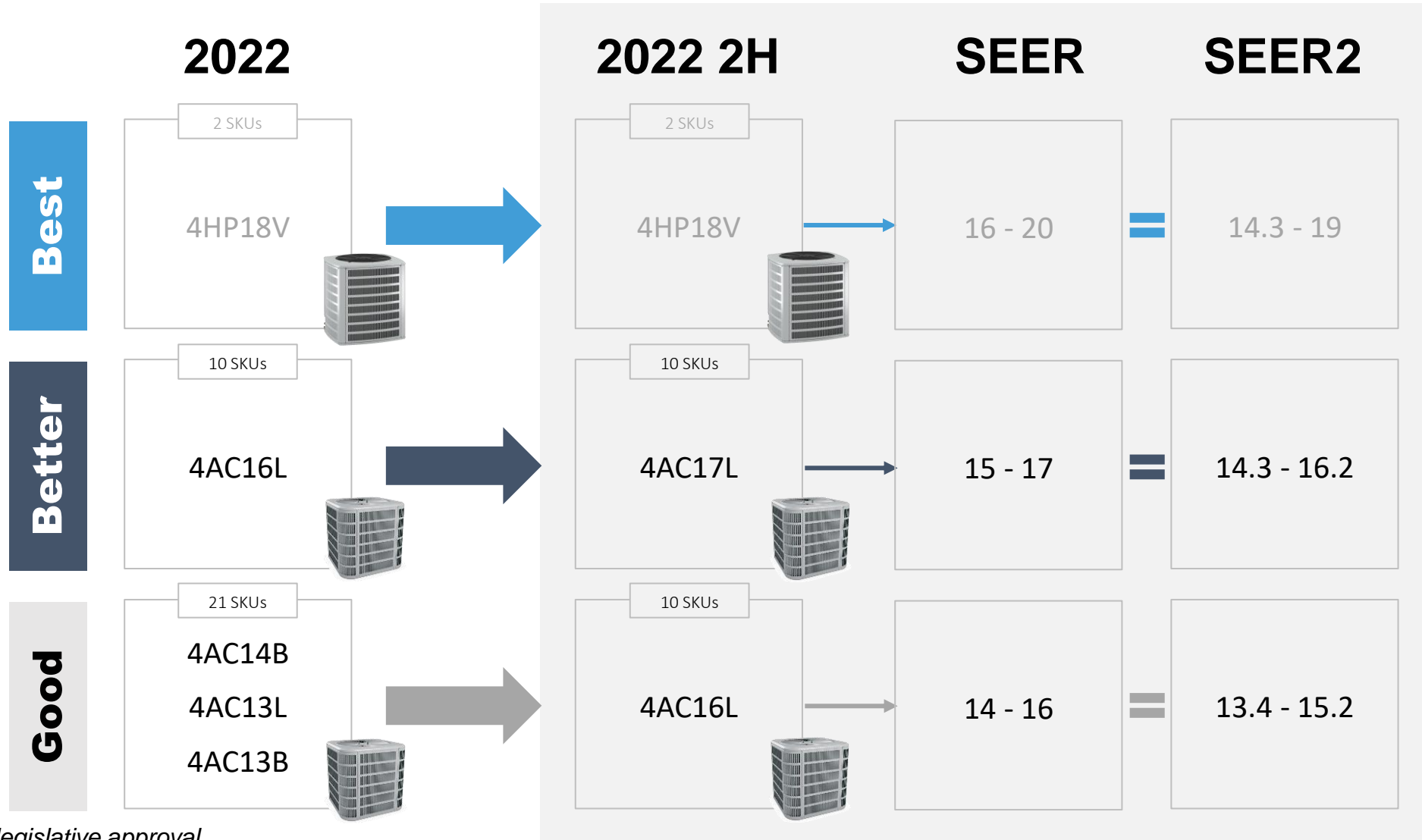
North Region & Canada\*



\*Pending legislative approval

# Over-the-counter air conditioners

North Region & Canada\*



\*Pending legislative approval