



Tecumseh

Cooling for a Better Tomorrow™



Definitions:

DOE: Department of Energy

AWEF: Annual walk-in factor

Walk-in (WICF):

cooler(= \leq +32F) or freezer(= \geq +32F)
less than 3,000ft²

Dedicated Condensing Refrigeration System:

Dedicated condensing unit or single package dedicated system or matched refrigeration system

Dedicated Condensing Unit:

Positive displacement condensing unit that is part of a refrigeration system and includes 1 or more compressors, a condenser, and one refrigeration circuit and is designed to serve one refrigerated load

DEPARTMENT OF ENERGY (DOE) REGULATIONS
FOR WALK-IN COOLERS & FREEZERS

What You Need to Know:

Background: The DOE has put in place energy efficiency requirements for walk-in coolers and freezers – enforcement begins in 2020

What is AWEF?

- ▶ AWEF is a ratio: total heat (Btu) from a walk-in box to total energy input (watt hours) during the same one-year period
- ▶ Factor is used to calculate annual energy consumption

What are the regulations?

- ▶ Products must meet certain energy requirements to be compliant
- ▶ Labels must be compliant and contain specific statements depending on if the unit is designed for indoor or outdoor use
- ▶ You can only select units that are approved for indoor OR outdoor use!
- ▶ Marketing materials must include AWEF rating

Which products must comply?

- ▶ Walk in coolers and freezers less than 3,000ft² must comply

Are there exclusions?

- ▶ Scientific, medical and research equipment is excluded
- ▶ Condensing units for multiple WICF or other pieces of refrigeration equipment
- ▶ Water cooled condensing units or systems
- ▶ Racks serving multiple loads
- ▶ Reach-in units
- ▶ **Blast chillers and freezers are NOT excluded from labeling!**

Who is responsible?

- ▶ Manufacturers who build, certify and mark equipment
- ▶ Individuals selecting equipment for covered installations, such as contractors and OEMs

When will this happen?

- ▶ Medium temperature condensing units enforcement begins Jan 1, 2020
- ▶ Low temperature condensing units and all unit coolers enforcement begins July 10, 2020

Does Tecumseh have AWEF compliant products?

- ▶ **YES!** Tecumseh ARGUS line of condensing units and Tecumseh designed by LU-VE was launched in 2019 with full AWEF compliance

Visit www.Tecumseh.com/argus and www.Tecumseh.com/unitcoolers



Tecumseh ARGUS™ Indoor/Outdoor Condensing Unit / ½ to 6 HP

Exceeds the 2020 DOE AWEF minimum efficiency regulations. www.tecumseh.com/argus



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Indoor/Outdoor
Condensing Unit
½ to 6 HP



Tecumseh
ARGUS

Tecumseh
designed by LU-VE

**Exceeds 2020 DOE
AWEF standards**

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Tecumseh

designed by  LU-VE

**Matched System
Low Profile Unit
Coolers**



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How Will the Ruling Impact You?

- ✓ **OEMs** – need to complete the engineering design cycle, testing and certification in 2019 to sell new compliant equipment in 2020.
- ✓ **CONTRACTORS** – must understand that if they replace a condensing unit with one manufactured after the DOE enforcement dates, it must be an AWEF-compliant unit. However, older units and inventory may still be used.
 - No longer can use a “doghouse” on an indoor condensing unit!
- ✓ **WHOLESALEERS** – must be prepared for changing inventories and begin to carry only AWEF-compliant condensing units if they’re manufactured after the 2020 enforcement dates for WICF applications.
- ✓ **DESIGN CONSULTANTS** – must be well-versed in the regulatory impacts to advise end users in the selection of energy-compliant, sustainable systems.
- ✓ **END USERS** – need to select future-proof equipment that aligns with their long-term refrigeration strategies.
- ✓ **UTILITY SAVINGS!**

Want to learn more?

- ▶ Video presentation
- ▶ Guides to download
- ▶ Helpful links

Visit www.Tecumseh.com/argus to learn about our full line of 2020 compliant condensing units