



Tecumseh

From: North America Product Management Team

To: North America OEM and Distribution Customers

Date: July 27, 2021

Subject: ARGUS Condensing Unit Cold Climate Recommendation

PRODUCT BULLETIN

Dear Valued Customer,

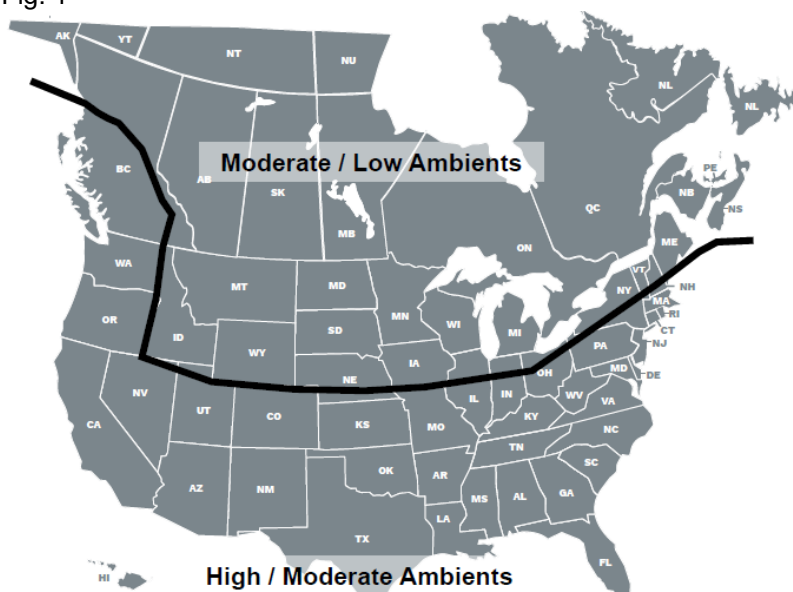
We have been asked lately about our recommendation on the need for a heated and insulated receiver in cold climates on our ARGUS condensing units.

In cold ambient conditions, during long off cycles, the refrigerant temperature and pressure can fall significantly in the receiver. When the liquid line solenoid opens, the cold liquid from the receiver may not be at an adequate pressure for the low-pressure control to close. When it reaches the compressor, the result can be a flooded start and or frequent cycling which can cause damage to the compressor. A heated and insulated receiver keeps the refrigerant from becoming too cold and disrupting this cycle.

To lower the risk of damage to the compressor, Tecumseh suggests that a heated and insulated receiver be used on any outdoor condensing unit installed in an ambient temperature less than zero degrees Fahrenheit (0°F) for a few hours per year.

The map below (Fig. 1) shows the area above the line where heated and insulated receiver are recommended to be used on all outdoor condensing units. Current ASHRAE weather data was utilized to determine this temperature and location guideline.

Fig. 1



<https://www.ashrae.org/technical-resources/bookstore/weather-data-center>

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A heated and insulated receiver come standard on all outdoor Gold pre-configured feature packages (Fig. 2). However, if you don't need all the features included with the Gold package, these components can also be added to any other pre-configured feature package as an option.

Fig. 2

Outdoor Condensing Unit – Medium Temperature

FEATURES	Silver	Zinc	Platinum	Titanium	Gold
Service Valves	X	X	X	X	X
Crankcase Heater	X	X	X	X	X
Adjustable Low Pressure Control		X		X	X
Fixed Low Pressure Switch	X		X		
High Pressure Switch	X	X	X	X	X
Receiver Tank	X	X	X	X	
Receiver Tank (Heated and Insulated)					X*
Liquid Line Filter Drier		X	X	X	X
Sight Glass		X	X	X	X
Discharge Check Valve					X
Accumulator (Insulated)					X

Support / Questions

If you have questions that are not addressed in this bulletin, please contact your local Tecumseh Sales Representative or Technical Service Team members at (800.211.3427) or email at technical.service@tecumseh.com.