



Tecumseh

- ▶ Variable speed
- ▶ L/MBP applications
- ▶ Efficient
- ▶ R290

# VTCX

VTCX Compressors. Intelligent cooling.

## KEY FEATURES AND BENEFITS

- ▶ **Reduce energy consumption:**  
Dynamically matches the capacity of the compressor to the system's cooling demand.
- ▶ **Global voltage stabilization:**  
Electronic controller handles voltage inputs from 85 to 260 VAC and, both 50 and 60 Hz. Under/over voltage protection is built-in.
- ▶ **Compact size:**  
Delivers the same capacity as a larger displacement, single-speed compressor, making more room for refrigerated goods.
- ▶ **Temperature control:**  
High speed compressor operation is used for fast pull-down while low speed operation is used to maintain cabinet temperature with minimal energy consumption.
- ▶ **Eco-friendly:**  
Optimized for use with eco-friendly hydrocarbon refrigerant R290 (propane).



## APPLICATIONS

Some of these applications are listed below:

- ▶ Ice cream machines
- ▶ LT & MT reach-in
- ▶ Beverage cooler
- ▶ LT & MT display case
- ▶ Wine cooler





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## COMPRESSOR INFORMATION

### Capacity range\*:

- ▶ LBP: from 88 to 879 Watts
- ▶ MBP: from 205 to 1844 Watts

### Refrigerant:

- ▶ R290 (propane)

### Application(s):

- ▶ Low/Medium temperature:  
-35°C to -5°C

\*LOW TEMP: performance rated at -23.3°C evap., 54.4°C cond., 32.2°C ambient, 32.2°C suction gas, 32.2 liquid return.  
MEDIUM TEMP: performance rated at -6.7°C evap., 54.4°C cond., 32.2°C ambient, 32.2°C suction gas, 32.2 liquid return.

**Tecumseh VTC Series Compressor**

**VTC SERIES COMPRESSOR NOMENCLATURE**

**VTCX330U**

**VTC**

Compressor Family

VTC

**X**

Digit Number

Number of digits composing the cooling capacity

**3**

Digit Number

Number of digits composing the cooling capacity

**30**

Digit Number

Number of digits composing the cooling capacity

**U**

Refrigerant

U-R290

Application		
Evaporation Temperature	Rating Point	Motor Starting Torque
X - L/MBP	-23.3°C -6.7°C	High

Cooling Capacity	
Corresponding to the first two figures of the cooling capacity expressed in Btu/h.	
In this example 3 total digits, with cooling capacity 30 means 300 Btu/h.	

**VTC SERIES COMPRESSOR CAPACITIES**

Model	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
BTU/hr	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
Watts	88	117	147	176	205	234	264	290	322	353	381	450	440	485	488	528	557
VTCX330U	[Capacity Range]																
VTCX360U	[Capacity Range]																
VTCX410U	[Capacity Range]																
VTCX415U	[Capacity Range]																

Model	900	1072	1244	1416	1588	1760	1932	2104	2276	2448	2620	2792	2964	3136	3308	3480	3652	3824	
BTU/hr	900	1072	1244	1416	1588	1760	1932	2104	2276	2448	2620	2792	2964	3136	3308	3480	3652	3824	
Watts	264	314	365	415	465	516	566	617	667	717	768	818	869	919	969	1020	1070	1121	
VTCX419U	[Capacity Range]																		
VTCX424U	[Capacity Range]																		

Cooling for a Better Tomorrow™

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## CONTROLLER INFORMATION

Global Voltage Range: 85-260 VAC, 50/60 Hz.

### Options:

1. Algorithm for use in "drop in" applications.
2. Pulse Width Modulation (PWM) or Frequency Control.

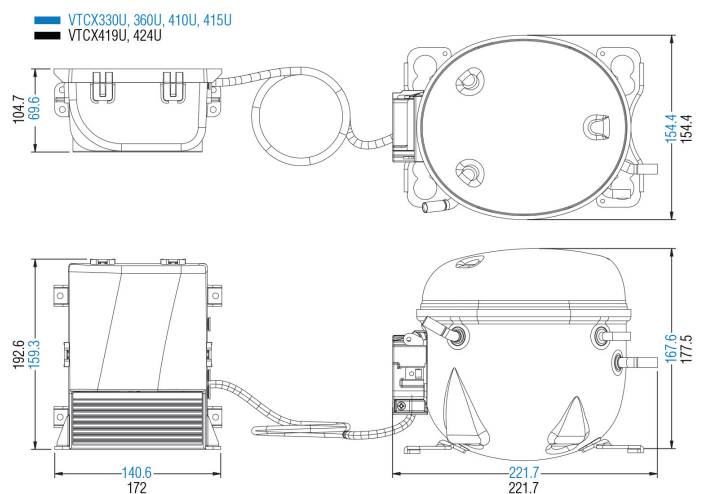
### Key Features:

- ▶ System Control Integration
- ▶ Voltage Stabilization
- ▶ Soft-Starting / Current Control
- ▶ High-Load Starting
- ▶ Communications Interface
- ▶ Diagnostics
- ▶ RPM "Skip" Capability
- ▶ Electronic Protection
- ▶ Sine Wave Motor Speed Control



## DIMENSIONS

### Universal Model



Dimensions in millimeters.

For more information on products by Tecumseh, please visit our website [www.tecumseh.com](http://www.tecumseh.com)