



Tecumseh

VTC Compressor and Controller



Key Features and Benefits



REDUCE ENERGY CONSUMPTION

Optimizes energy usage by dynamically matching the capacity of the compressor to the refrigeration system's cooling demand.



COMPACT SIZE

Delivers the same capacity as a larger displacement, single-speed compressor, making more room for refrigerated goods.



ECO-FRIENDLY

Optimized for use with eco-friendly hydrocarbon refrigerant R290 (propane).



GLOBAL VOLTAGE STABILIZATION

Electronic controller handles voltage inputs from 85 - 260 VAC, 50 / 60 Hz. Under/over voltage protection is built-in.



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.



RAPID PULL-DOWN

Peak periods throughout the day, typically around meal times, place additional demands on refrigerated equipment. By operating the compressor at higher speeds, the time required to pull-down cabinet temperatures is greatly reduced.

COMPRESSOR INFORMATION

Capacity Range:

- LBP Capacity Range: From 165 -1,765 Btu/h
- L/MBP Capacity Range: From 449 - 3,881 Btu/h

Refrigerant:

R290 (Propane)

Application(s):

Low / Medium Temperature: -31°F (-35°C) to +23°F (-5°C).

CONTROLLER INFORMATION

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

Options:

1. Algorithm for use in “drop in” applications
2. Serial Control or Frequency Control.

Key Features:

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

VTC Series Compressor

VTC SERIES COMPRESSOR NOMENCLATURE

VTCX330U

VTC
X
3
30
U

Compressor Family

VTC

Digit Number

Number of digits composing the cooling capacity

Refrigerant

U-R290

Application	
Evaporation Temperature	Rating Point
X - L/MBP	-23°C/-10°F -6°F/-20°F

Motor Starting Torque
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

	Btu/h	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	
VTCX330U	Watt	59	88	117	147	176	205	234	264	293	323	352	381	410	440	469	498	528	557	
VTCX360U																				
VTCX419U																				
VTCX415U																				

Conditions: Evap -23.3 C, Cond 54.4 C, Ambient 32.2 C, Suction Gas 32.2 C, Liquid Return 32.2 C - ASHRAE 32 LBP 2500 - 4500 RPM / 220 V 60 Hz

	Btu/h	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	2900	3100	3300	3500	3700	3900	
VTCX330U	Watt	147	205	264	322	381	440	498	557	615	674	733	791	850	909	967	1026	1084	1143	
VTCX360U																				
VTCX419U																				
VTCX415U																				

Conditions: Evap -6.7 C, Cond 54.4 C, Ambient 32.2 C, Suction Gas 32.2 C, Liquid Return 32.2 C - ASHRAE 32 LBP 2500 - 4500 RPM / 220 V 60 Hz

Cooling for a Better Tomorrow™

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COMPRESSOR AND CONTROLLER DIMENSIONS

Universal Model

