



Tecumseh

Gen III Outdoor Condensing Units

Tecumseh's Gen III Outdoor Condensing Units are designed specifically for refrigeration applications where reliable cooling is required under varying loads and operating conditions. At the heart of every Gen III Unit is a performance-proven Tecumseh Scroll or Reciprocating compressor, built with exacting standards to handle the rigors of commercial refrigeration.



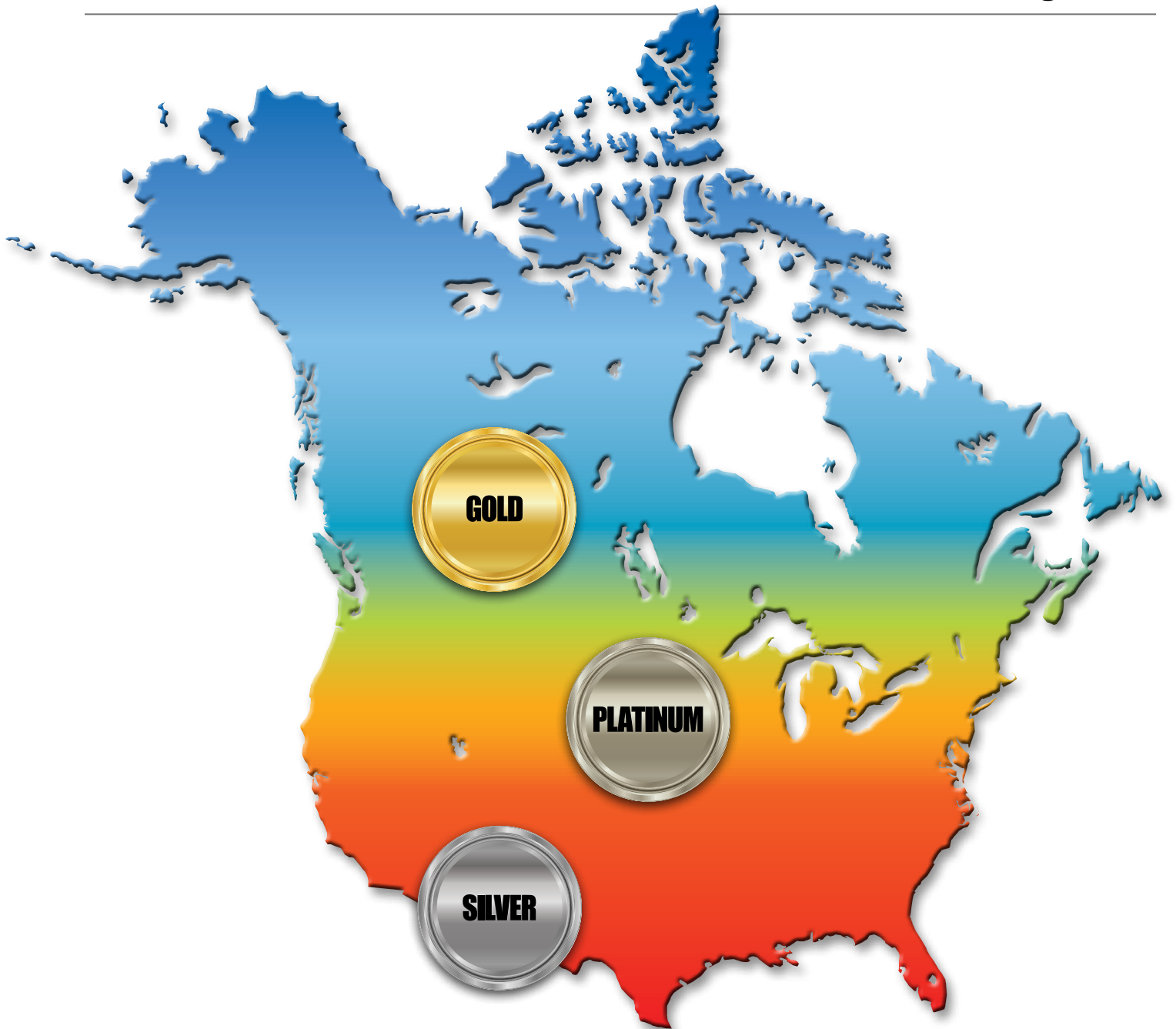
The Features You Want from the Brand You Can Count On:

- ▶ Proven reliability and quality utilizing Tecumseh Compressors
- ▶ Gold, Platinum, and Silver Feature Packages Provide the Best Option Set Based on Ambient Conditions
- ▶ Top Selling Units Stocked and Readily Available for Shipment
- ▶ Competitively Priced
- ▶ Three Common Cabinet Sizes
- ▶ Various Refrigerant options for all Applications
 - LBP Scrolls: R404A/R507
 - CBP Scrolls: R404A/R507, R22, R134a, R407A, and R407F
 - HBP/CBP Recips: R22/R407C, R404A/R507
- ▶ 230V/60HZ/1 Phase or 3 Phase models
- ▶ All-in-One Service Access Allows Side-by-Side Installation of Multiple Units



Lo-Profile Unit Coolers are equipped with high efficiency EC fan motors and are THE PERFECT COMPLIMENT to Tecumseh's Outdoor Units.

Gen III Outdoor Condensing Units



FEATURE PACKAGES

GOLD

The Gold feature package is designed for Canada's outdoor ambient conditions where temperature extremes exist because most of the provinces span more than one climatic zone. Temperatures can climb to 95°F (35°C) in the Summer and drop to -13°F (-25°C) during Winter.

PLATINUM

Designed for colder climates, the Platinum feature package is ideal for the four distinct seasons of Northern USA, where Winter months are cold and punctuated by heavy snow and freezing temperatures. And, where Spring and Summer temperatures are mild and pleasant

SILVER

The Silver feature package is designed for the southern region of the USA where the hottest temperatures occur. On many days throughout the year, especially during the Summer months, temperatures approach and/or exceed 100°F (38°C). Winters are also mild and short lived.

SILVER Feature Package



The Silver feature package provides the best option set and is ideal for the Southern U.S. climate region. A receiver tank, liquid line filter drier, sight glass, high pressure switch, crankcase heater, service valves and head pressure control are standard equipment. Low Temperature and Scroll condensing unit models are also equipped with an adjustable low pressure control and check valve. Additionally, an Electric Defrost Timer is included with Low Temperature models.



Commercial Temperature Reciprocating Model with Silver Feature Package



High Pressure Switch

FEATURES	SILVER	
	Low Temp	Med/Comm/High Temp
SERVICE VALVES	•	•
CRANKCASE HEATER	•	•
ADJUSTABLE LOW PRESSURE CONTROL	•	• Scroll Models Only
FIXED LOW PRESSURE SWITCH		• Reciprocating Models Only
HIGH PRESSURE SWITCH	•	•
RECEIVER TANK	•	•
FILTER DRIER	•	•
SIGHT GLASS	•	•
CHECK VALVE	• Scroll Models Only	
HEAD PRESSURE CONTROL	•	•
FIXED FAN CONTROL	• Dual Fan Models Only	• Dual Fan Models Only
ELECTRIC DEFROST TIMER	•	

• Standard Feature



Suction and Liquid Line Service Valves (suction valve shown)



Receiver Tank

Gen III Outdoor Condensing Units

PLATINUM Feature Package

The Platinum feature package includes all of the necessary components required to ensure reliable cooling under varying loads and operating conditions.

In addition to a head pressure control, all Platinum units come standard with an adjustable low pressure control and high pressure switch, as well as a liquid line sight glass and filter drier and, crankcase heater.



Commercial Temperature Reciprocating Model with Platinum Feature Package



Low Temperature Reciprocating Model with Platinum Feature Package

Low Temperature models also include an electric defrost timer and contactor (for wiring the defrost heater), suction accumulator and suction filter. Scroll models are equipped with a check valve and, Medium, Commercial and High Temp models include an Air Defrost Timer. All single fan models employ a fixed fan control, whereas dual fan models use an adjustable fan control.

FEATURES	PLATINUM	
	Low Temp	Med/Comm/High Temp
ACCUMULATOR	•	
SUCTION FILTER	•	
SERVICE VALVES	•	•
CRANKCASE HEATER	•	•
ADJUSTABLE LOW PRESSURE CONTROL	•	•
HIGH PRESSURE SWITCH	•	•
RECEIVER TANK	•	•
FILTER DRIER	•	•
SIGHT GLASS	•	•
CHECK VALVE	•	•
HEAD PRESSURE CONTROL	•	•
FIXED FAN CONTROL	•	•
ADJUSTABLE FAN CONTROL	•	•
AIR DEFROST TIMER		•
ELECTRIC DEFROST TIMER	•	

• Standard Feature



Head Master



Defrost Timer

GOLD Feature Package



The Gold feature package has all of the required features needed to ensure the highest level of reliability in the most rigorous climates. This is especially important when operating a refrigeration system under extreme low ambient conditions where an aggressive approach is needed to maintain the minimum design condensing temperature.

Our Gold feature package comes standard with a suction-line accumulator to prevent liquid refrigerant from returning to the compressor. Suction and liquid line filter driers are also included to maintain a clean refrigeration system with minimal moisture. Unique to the Gold package is a heated and insulated receiver to maintain minimum receiver pressure and an accumulator to protect the compressor from liquid slugging. A check valve is used to prevent refrigerant from migrating from the receiver to the condenser coil.



Low Temperature Reciprocating Model with Gold Feature Package

FEATURES	GOLD	
	Low Temp	Med/Comm/High Temp
ACCUMULATOR	•	•
SUCTION FILTER	•	•
SERVICE VALVES	•	•
CRANKCASE HEATER	•	•
ADJUSTABLE LOW PRESSURE CONTROL	•	•
HIGH PRESSURE SWITCH	•	•
FILTER DRIER	•	•
HEATED, INSULATED RECEIVER	•	•
SIGHT GLASS	•	•
CHECK VALVE	•	•
HEAD PRESSURE CONTROL	•	•
FIXED FAN CONTROL	• Single Fan Models Only	• Single Fan Models Only
ADJUSTABLE FAN CONTROL	• Dual Fan Models Only	• Dual Fan Models Only
ELECTRIC DEFROST TIMER	•	

• Standard Feature



Heated Insulated Receiver (insulation not shown) and Sight Glass



Filter Drier

Model Nomenclature

AVA 2 510 Z XN KS

FAMILY & GENERATION
AK, AJ, AW, AV, AG, VS Series

APPLICATION RANGE		
4	High	20°F to 55°F (-6.7°C to 12.8°C)
9/7	Comm/Med	-10°F to 45°F (-23.3°C to 7.2°C)
2	Low	-40°F to 10°F (-40°C to 12.2°C)

CAPACITY
First number is total digits
Remainder is capacity in Btu/h
This example: 10,000 Btu/h Capacity

VOLTAGE	
NA	208-230/60/1
XD	208-230/60/1, 200/50/1
XN	208-230/60/1, 200/220/50/1
XT	200-230/60/3, 200-220/50/3
TB	200-230/60/3

RELEASE VARIANT	
11th Digit = Feature Package	
K	Silver
L	Platinum
U	Gold
12th Digit = Cabinet Size	
S	Small Cabinet
N	Medium Cabinet
M	Large Cabinet

REFRIGERANT	
E	R22
W	R22/R407C
X	Multi-Refrigerant*
Z	R404A/R507

*Multi-Refrigerant Commercial Scroll can use R22, R134A, R404A, R507, R407A, or R407F

Bill of Materials

32LXXXX-** where ** = 4U, 6U or 6C
4U = Silver
6U = Platinum
6C = Gold



Dimensions

CABINET SIZE	LENGTH	WIDTH	HEIGHT
Small Single Fan	26.55"	28.94"	26.08"
Medium Dual Fan	26.55"	36.25"	26.08"
Large Dual Fan	29.40"	47.75"	31.58"

Gen III Outdoor Condensing Units

COMMERCIAL TEMPERATURE													
Model Number	Item Number (Bill of Material)	Voltage/ Frequency/ Phase	Starting Torque	Line Connections (in)		Pump Down Capacity (Lbs.) 90% @ 90°F (32.2°C) Ambient	Oil Type	Minimum Circuit Ampacity	Maximum Fuse Size (Amps)	Dimensions (in)			Gross Weight
				Suction	Liquid					L	W	H	Lbs.
R404A/R507 CBP Application Range -10°F to 45°F (-23.3°C to 7.2°C) – Continued													
AWA9512ZXNKN	32L1451-4U	208-230/60/1	High	7/8 ODF	3/8 ODF	19.8	POE	14.91	25	26.43	36.25	26.08	320
AWA9512ZXNLN	32L1451-6U												
AWA9512ZXNUN	32L1451-6C												
AWA9512ZXTKN	32L1452-4U	200-230/60/3	3 PH	7/8 ODF	3/8 ODF	19.8	POE	9.94	15	26.43	36.25	26.08	320
AWA9512ZXTLN	32L1452-6U												
AWA9512ZXTUN	32L1452-6C												
AWA9514ZXNKN	32L3238-4U	208-230/60/1	High	7/8 ODF	3/8 ODF	19.8	POE	17.15	30	26.43	36.25	26.08	320
AWA9514ZXNLN	32L3238-6U												
AWA9514ZXNUN	32L3238-6C												
AWA9514ZXTKN	32L3239-4U	200-230/60/3	3 PH	7/8 ODF	3/8 ODF	19.8	POE	11.31	20	26.43	36.25	26.08	320
AWA9514ZXTLN	32L3239-6U												
AWA9514ZXTUN	32L3239-6C												
AWA9518ZXNKN	32L2133-4U	208-230/60/1	High	7/8 ODF	3/8 ODF	19.8	POE	20.04	35	26.43	36.25	26.08	320
AWA9518ZXNLN	32L2133-6U												
AWA9518ZXNUN	32L2133-6C												
AWA9518ZXTKN	32L2134-4U	200-230/60/3	3 PH	7/8 ODF	3/8 ODF	19.8	POE	14.03	25	26.43	36.25	26.08	320
AWA9518ZXTLN	32L2134-6U												
AWA9518ZXTUN	32L2134-6C												
AVA9523ZXNKN	32L2135-4U	208-230/60/1	High	7/8 ODF	1/2 ODF	20.09	POE	27.01	45	26.43	36.25	26.08	320
AVA9523ZXNLN	32L2135-6U												
AVA9523ZXNUN	32L2135-6C												
AVA9523ZXTKN	32L2136-4U	200-230/60/3	3 PH	7/8 ODF	1/2 ODF	20.09	POE	18.84	30	26.43	36.25	26.08	320
AVA9523ZXTLN	32L2136-6U												
AVA9523ZXTUN	32L2136-6C												
AVA9525ZXNKN	32L3160-4U	208-230/60/1	High	7/8 ODF	1/2 ODF	20.09	POE	29.90	50	26.43	36.25	26.08	320
AVA9525ZXNLN	32L3160-6U												
AVA9525ZXNUN	32L3160-6C												
AVA9525ZXTKN	32L3154-4U	200-230/60/3	3 PH	7/8 ODF	1/2 ODF	20.09	POE	21.24	35	26.43	36.25	26.08	320
AVA9525ZXTLN	32L3154-6U												
AVA9525ZXTUN	32L3154-6C												
AVA9529ZXNKN	32L3157-4U	208-230/60/1	High	7/8 ODF	1/2 ODF	20.09	POE	39.51	70	26.43	36.25	26.08	320
AVA9529ZXNLN	32L3157-6U												
AVA9529ZXNUN	32L3157-6C												
AVA9529ZXTKN	32L3158-4U	200-230/60/3	3 PH	7/8 ODF	1/2 ODF	20.09	POE	25.73	45	26.43	36.25	26.08	320
AVA9529ZXTLN	32L3158-6U												
AVA9529ZXTUN	32L3158-6C												
AVA9532ZXNKM	32L4054-4U	208-230/60/1	High	7/8 ODF	1/2 ODF	32.84	POE	40.81	70	29.40	47.75	31.58	480
AVA9532ZXNLM	32L4054-6U												
AVA9532ZXNUM	32L4054-6C												
AVA9532ZXTKM	32L4055-4U	200-230/60/3	3 PH	7/8 ODF	1/2 ODF	32.84	POE	27.03	45	29.40	47.75	31.58	480
AVA9532ZXTLM	32L4055-6U												
AVA9532ZXTUM	32L4055-6C												
AGA9538ZXNKM	32L4083-4U	208-230/60/1	High	7/8 ODF	1/2 ODF	37.02	POE	47.12	80	29.40	47.75	31.58	500
AGA9538ZXNLM	32L4083-6U												
AGA9538ZXNUM	32L4083-6C												
AGA9538ZXTKM	32L4084-4U	200-230/60/3	3 PH	7/8 ODF	1/2 ODF	37.02	POE	27.41	45	29.40	47.75	31.58	500
AGA9538ZXTLM	32L4084-6U												
AGA9538ZXTUM	32L4084-6C												