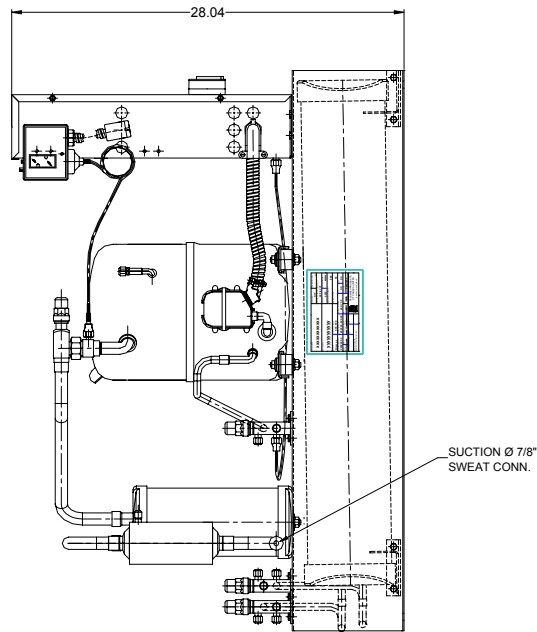
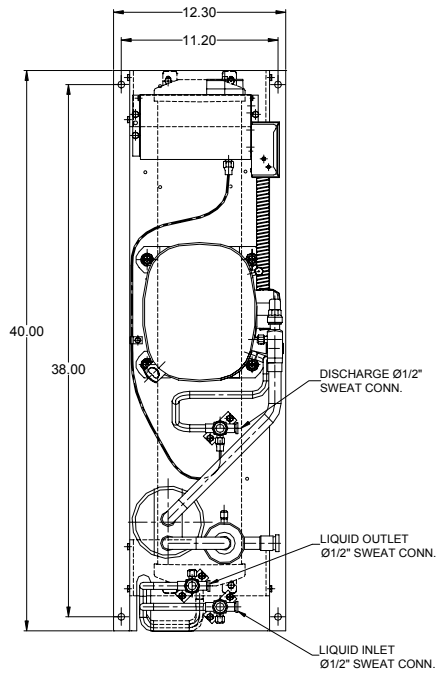
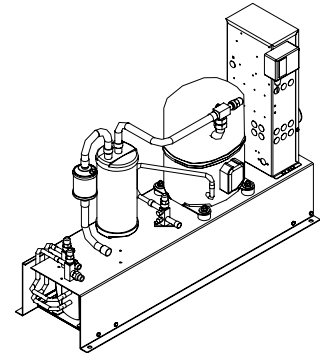




# TECUMSEH HERMETIC CONDENSING UNIT

AVA2490ZXTRL  
TPC\_\_rev 01  
July 13, 2004

**Model** AVA2490ZXTRL  
**BOM** 2R2117-2  
**Remote Condenser** 2 1/4 HP  
**Application** Low Temp  
**Refrigerant** R 404A



Model	Dimensions (inch)			Line connections		Pumpdown	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid In/Out	90% @ 90°F	Oz.	Lbs.
AVA2490ZXTRL	40.00	12.25	28.04	7/8 Sweat	1/2 Sweat	33.50	54	220

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator	Condensing Temperatures													
	90°F		95°F		100°F		110°F		120°F		130°F		140°F	
°F	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts
-40	4415	1255	4160	1215	3820	1112	2977	1083	2071	989	1286	897	308	810
-30	7099	1669	6719	1634	6252	1597	5158	1517	3988	1483	2948	1258	2198	1271
-20	10421	2113	9870	2087	9232	2058	7787	1994	6273	1926	4873	1858	3773	1795
-15	12375	2337	11722	2316	10981	2293	9331	2240	7608	2182	5998	2125	4686	2072
<b>-10</b>	<b>14554</b>	<b>2558</b>	<b>13787</b>	<b>2543</b>	<b>12933</b>	<b>2526</b>	<b>11053</b>	<b>2485</b>	<b>9100</b>	<b>2440</b>	<b>7258</b>	<b>2395</b>	<b>5712</b>	<b>2353</b>
0	19671	2974	18645	2974	17529	2972	15125	2961	12643	2946	10269	2930	8187	2917
5	22654	3162	21480	3172	20217	3178	17517	3185	14737	3187	12063	3187	9681	3192
10	25948	3333	24616	3352	23194	3368	20175	3394	17075	3415	14080	3434	11373	3457

Performance @ 60 Hz, --- ReturnGas 40°F, --- SubCooling 0°F

Parts/Specifications

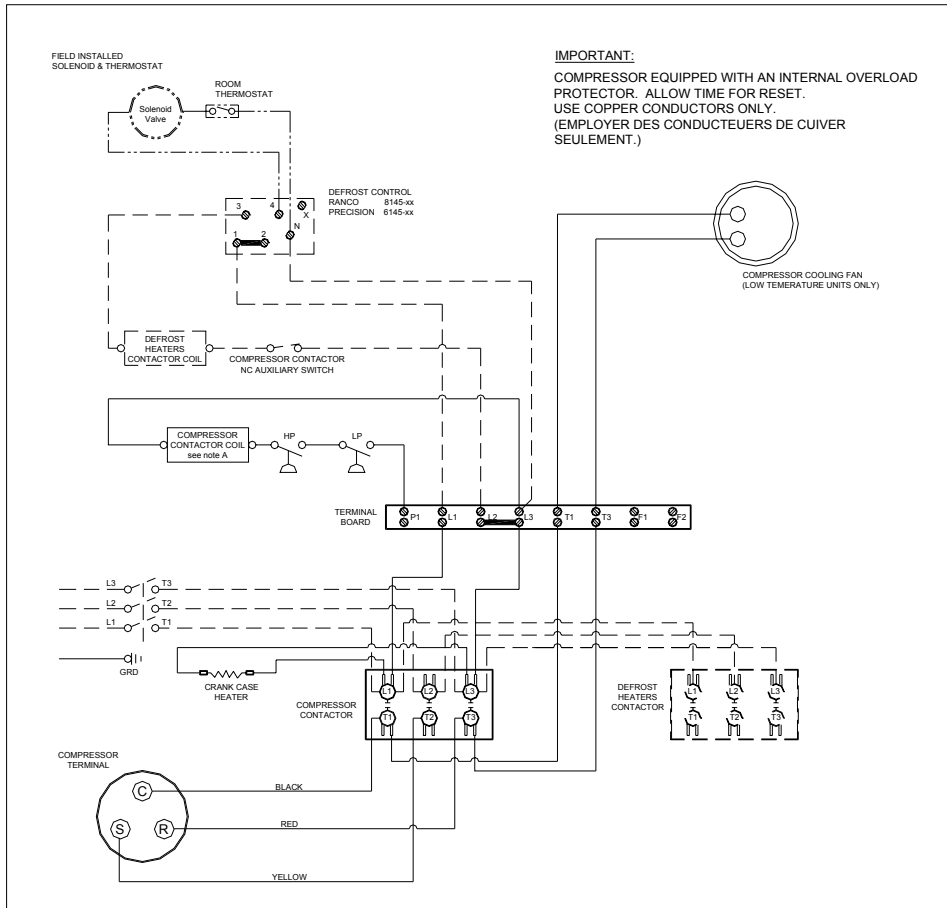
STANDARD		OPTIONAL	
Unit BOM	2R2117-2	Fan Motor	NUT6B09PUN201
Unit MODEL	AVA2490ZXTTL	Fan Motor RLA	0.35
		Fan Blade	4VEA010
Refrigeration RANGE	-40F TO +10F		
Design Pressure Low	181	High Pressure switch	84095-2
Design Pressure High	450	Low Pressure Control	84026-D
Volts - HZ - Ph	200-230-60-3	Dual Pressure Control	
Voltage Range	253 - 180		
Min. Circuit Ampacity	12.9	Receiver	51083
Max. Fuse Size	20	Accumulator	TK00042000
		Receiver In Valve	56566
Compressor MODEL	AVA2490ZXT	Receiver Out Valve	56566
Compressor BOM	AV182RT-016-B2	Discharge Valve	56566
Compressor LRA	65.1	Suction Valve	31529-1
Compressor RLA	9.9		
		Suction Filter (7/8)	70822-5S
OverLoad	Internal		
Relay		CrankCase Heater	90699
Run Capacitor			
Run Capacitor Rating			
Start Capacitor			
Start Capacitor Rating			
Contactor	91014		
Unit Drawing	DGU1920-1R		
Wiring no Fan controls	WD23-RT2		

BOM INDEX DESCRIPTION

2Rxxxx-2TnDS

- T1 Defrost timer option
- T2 Defrost timer & Defrost Heaters Contactor
- D Disconnect
- S Solenoid liquid Valve (supplied loose)

**WARNING:** Installer must validate that tubing is sized in such a manner to insure adequate oil return. Oil level may require adjustment for long pipe runs.



NOTES

FIELD WIRING NOTES

- ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
- CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
- PLACE JUMPER ACROSS P1 AND L1 IN TERMINAL BOARD IF NO OTHER CONTROLLING DEVICE IS INSTALLED.
- DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD. INDICATED ON THE UNIT LABEL.

GENERAL NOTES:

- CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
- COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.

LP LOW PRESSURE CONTROL

HP HIGH PRESSURE SWITCH

FACTORY COMPONENTS

OPTIONAL FACTORY COMPONENTS

OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 3 Ph, Remote Condenser, T1 & T2 defrost options

REVISION A

MARK 22, 2004

WD23-RT2