

Tecumseh AWA9490ZXG

460VAC/3-Phase Compressor



\$315.00

In Stock

Qty Available: 5

New From Surplus Stock

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Tecumseh Compressor Company

NORTH AMERICAN COMPRESSOR GROUP

Technical Sheet | Performance Data | Coefficient Data | Wiring Diagrams | Mounting Diagrams

AWA9490ZXG Compressor Data Sheet

Drawing Information

Housing Diagram

[DCAW125](#)

Wiring Diagram

[DEAW02](#)

General Information

Compressor Model

AWA9490ZXG

Oil Charge (cc)

1141

Bill Of Material

AW616TT-125-A4

Oil Type

POE

Application

COMMERCIAL

Heat Pump (Evap range)

N/A

Evaporating Range

-10F to +45F

Displacement

2.291

Rating Conditions

ARI

BTUH

9300

Rating Point

+20F

Horse Power

1

Refrigerant

R-404A

Discharge Line Size

0.375

Frequency

60

Suction Line Size

0.625

Electrical Information

Voltage (60 Hz)

460-60-3

Voltage Range (60 Hz)

414 - 506

Voltage (50 Hz)

380-420-50-3

Voltage Range (50 Hz)

342 - 464

Rating Voltage

460-60-3

RLA

2.4

LRA

25

Motor Type

3PH

Start Capacitor Mfd/Volt

N/R

Run Capacitor Mfd/Volt

N/R

Power

1630

Phase

3

Maximum Continuous Current

6

Energy Efficiency Rating

5.7

Component Information

Relay Box

NONE

Integral Relay Box

NONE

Capacitor Cabinet Assembly

NONE

Start Capacitor

NONE

Production Run Capacitor

NONE

Crankcase Heater

NONE

Primary Relay

NONE

Primary Vendor Number

NONE

Secondary Relay

NONE

Secondary Vendor Number

NONE

Vendor Over Load

NONE

Fan Over Load

NONE

Terminal Cover

70794

Cover Gasket

30646

Bale Strap

70661

Over Load Spring

NONE

PRV

NONE

LP Kit

N/A

Grommet

70749

Roto Lock Gasket

NONE

Sleeve

70970 OR 71066

Roto Lock Valve

NONE

AWA9490ZXG Compressor Data Sheet

General Information

Model	AWA9490ZXG	Refrigerant	R-404A
Voltage	460/60/3	Test Voltage	460
Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/21/2000
Return Gas	40	Liquid Temp	N/A

Performance Information

Evap Temp		Condensing Temperature						
		90	95	100	110	120	130	140
0	BTUH	8321	7751	7182	6043	4906	3769	2635
	WATTS	1263	1250	12737	1211	1184	1156	1127
	AMPS	2	1.99	1.97	1.94	1.91	1.88	1.84
	LB/HR	157.9	151	144.1	130.3	116.3	102.3	88.2
5	BTUH	9830	9173	8518	7208	5902	4599	3299
	WATTS	1339	1330	1320	1301	1280	1257	1233
	AMPS	2.08	2.07	2.06	2.04	2.02	2	1.97
	LB/HR	184.6	177.2	169.8	155.1	140.2	125.2	110.1
10	BTUH	11412	10665	9919	8430	6946	5467	3994
	WATTS	1425	1421	1415	1404	1391	1376	1359
	AMPS	2.16	2.16	2.16	2.15	2.14	2.13	2.12
	LB/HR	214.6	206.8	199	183.2	167.4	151.5	135.5
15	BTUH	13097	12255	11415	9738	8069	6406	4750
	WATTS	1513	1514	1514	1513	1510	1505	1498
	AMPS	2.25	2.25	2.26	2.26	2.27	2.27	2.27
	LB/HR	248	239.7	231.4	214.8	198	181.2	164.3
20	BTUH	14917	13976	13037	11164	9300	7445	5598
	WATTS	1595	1602	1609	1621	1630	1637	1641
	AMPS	2.33	2.34	2.36	2.38	2.4	2.42	2.44
	LB/HR	284.8	276	267.2	249.6	231.9	214.2	196.3
25	BTUH	16902	15857	14814	12737	10670	8614	6568
	WATTS	1662	1677	1692	1718	1742	1762	1780
	AMPS	2.4	2.42	2.44	2.49	2.52	2.56	2.59
	LB/HR	324.8	315.6	306.3	287.8	269.2	250.5	231.7
30	BTUH	19081	17928	16779	14488	12210	9944	7691
	WATTS	1708	1732	1755	1798	1838	1875	1908
	AMPS	2.46	2.49	2.52	2.58	2.64	2.69	2.74
	LB/HR	368.1	358.4	348.7	329.2	309.7	290.1	270.4

AWA9490ZXG Compressor Data Sheet

General Information

Model	AWA9490ZXG	Refrigerant	R-404A
Voltage	460/60/3	Test Voltage	460
Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/21/2000
Return Gas	65	Liquid Temp	N/A

Performance Information

Evap Temp	Condensing Temperature						
	90	95	100	110	120	130	140
20	BTUH	16395	15395	14392	12400	10427	8480
	WATTS	1594	1600	1605	1615	1624	1633
	AMPS	2.33	2.34	2.35	2.37	2.4	2.42
	LB/HR	284.3	274.5	264.7	245.4	226.5	208.2
25	BTUH	18492	17397	16300	14102	11905	9717
	WATTS	1661	1673	1685	1709	1733	1756
	AMPS	2.38	2.4	2.42	2.45	2.49	2.53
	LB/HR	319	309.3	299.6	279.9	260.3	240.8
30	BTUH	20677	19505	18325	15951	13560	11160
	WATTS	1717	1736	1754	1792	1829	1867
	AMPS	2.42	2.45	2.48	2.53	2.58	2.63
	LB/HR	357	347.8	338.5	319.3	299.7	279.7
35	BTUH	22902	21667	20421	17899	15344	12763
	WATTS	1765	1789	1814	1865	1915	1967
	AMPS	2.47	2.5	2.54	2.61	2.67	2.74
	LB/HR	397.2	388.9	380.3	362.4	343.5	323.9
40	BTUH	25121	23838	22539	19900	17210	14477
	WATTS	1804	1835	1866	1928	1992	2056
	AMPS	2.5	2.54	2.59	2.68	2.76	2.84
	LB/HR	438.3	431.3	423.8	407.8	390.5	372
45	BTUH	27286	25970	24634	21908	19113	16257
	WATTS	1837	1873	1910	1984	2059	2136
	AMPS	2.52	2.58	2.63	2.74	2.84	2.94
	LB/HR	479.2	473.8	467.8	454.6	439.5	422.8
50	BTUH	29351	28017	26659	23874	21004	18056
	WATTS	1864	1906	1947	2032	2119	2207
	AMPS	2.54	2.6	2.67	2.79	2.92	3.04
	LB/HR	518.5	515.1	511.1	501.3	489.3	475.2

AWA9490ZXG Compressor Data Sheet

General Information

Model	AWA9490ZXG	Refrigerant	R-404A
Voltage	380/420/50/3	Test Voltage	380
Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/17/2000
Return Gas	40	Liquid Temp	N/A

Performance Information

Evap Temp		Condensing Temperature						
		90	95	100	110	120	130	140
0	BTUH	7042	6552	6062	5082	4101	3121	2141
	WATTS	1023	1010	997	971	943	916	887
	AMPS	1.98	1.96	1.94	1.91	1.88	1.84	1.81
	LB/HR	129	123.7	118.4	107.6	96.7	85.6	74.3
5	BTUH	8561	7982	7404	6250	5097	3947	2799
	WATTS	1094	1086	1077	1059	1039	1019	998
	AMPS	2.05	2.04	2.03	2.01	1.98	1.96	1.94
	LB/HR	159	152.7	146.5	133.9	121.2	108.4	95.4
10	BTUH	10074	9402	8731	7392	6057	4727	3401
	WATTS	1167	1163	1158	1149	1139	1127	1115
	AMPS	2.13	2.13	2.12	2.11	2.1	2.09	2.08
	LB/HR	189.4	182.2	175	160.5	145.9	131.2	116.4
15	BTUH	11615	10845	10076	8543	7016	5496	3983
	WATTS	1236	1237	1238	1239	1238	1237	1233
	AMPS	2.22	2.22	2.22	2.22	2.22	2.22	2.22
	LB/HR	220.8	212.6	204.3	187.7	171.1	154.4	137.6
20	BTUH	13221	12347	11475	9738	8009	6290	4579
	WATTS	1297	1304	1311	1323	1334	1343	1350
	AMPS	2.3	2.31	2.32	2.33	2.35	2.36	2.37
	LB/HR	253.7	244.3	234.9	216.1	197.2	178.4	159.5
25	BTUH	14924	13942	12962	11011	9071	7141	5223
	WATTS	1348	1361	1374	1399	1421	1442	1461
	AMPS	2.38	2.4	2.41	2.44	2.47	2.5	2.53
	LB/HR	288.4	277.8	267.2	246	224.9	203.8	182.6
30	BTUH	16760	15665	14573	12398	10235	8086	5951
	WATTS	1384	1404	1424	1461	1497	1530	1562
	AMPS	2.46	2.48	2.5	2.55	2.59	2.63	2.68
	LB/HR	325.5	313.6	301.7	278.1	254.4	230.9	207.3

AWA9490ZXG Compressor Data Sheet

General Information

Model	AWA9490ZXG	Refrigerant	R-404A
Voltage	380/420/50/3	Test Voltage	380
Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/17/2000
Return Gas	65	Liquid Temp	N/A

Performance Information

Evap Temp		Condensing Temperature						
		90	95	100	110	120	130	140
20	BTUH	13404	12639	11871	10317	8730	7101	5417
	WATTS	1221	1240	1259	1296	1331	1363	1391
	AMPS	2.26	2.28	2.29	2.32	2.35	2.38	2.41
	LB/HR	230.3	223.9	217.5	204.3	190.7	176.5	161.4
25	BTUH	15436	14571	13707	11981	10248	8495	6713
	WATTS	1268	1291	1314	1360	1404	1448	1489
	AMPS	2.32	2.34	2.36	2.41	2.46	2.5	2.54
	LB/HR	265.5	258.7	251.9	238.3	224.6	210.6	196.2
30	BTUH	17536	16548	15568	13628	11705	9787	7864
	WATTS	1316	1342	1368	1420	1473	1526	1577
	AMPS	2.38	2.41	2.44	2.5	2.56	2.62	2.68
	LB/HR	303.1	295.6	288.2	273.6	259.2	244.9	230.5
35	BTUH	19772	18640	17523	15326	13170	11044	8938
	WATTS	1368	1395	1423	1481	1540	1600	1660
	AMPS	2.45	2.49	2.52	2.6	2.68	2.75	2.83
	LB/HR	344.2	335.6	327.3	311.1	295.5	280.2	265.2
40	BTUH	22214	20917	19641	17144	14713	12337	10005
	WATTS	1426	1455	1484	1544	1608	1673	1740
	AMPS	2.53	2.57	2.62	2.71	2.8	2.89	2.98
	LB/HR	389.6	379.7	370.2	351.8	334.3	317.6	301.4
45	BTUH	24931	23448	21991	19153	16405	13735	11134
	WATTS	1495	1523	1553	1614	1680	1748	1820
	AMPS	2.62	2.67	2.72	2.82	2.93	3.03	3.13
	LB/HR	440.3	428.9	417.8	396.6	376.7	357.8	339.9
50	BTUH	27993	26302	24644	21421	18312	15308	12395
	WATTS	1578	1605	1633	1694	1759	1829	1903
	AMPS	2.71	2.77	2.83	2.95	3.06	3.18	3.3
	LB/HR	497.3	484	471.1	446.6	423.6	402.1	381.8

AWA9490ZXG Compressor Data Sheet

General Information

Model	AWA9490ZXG	Refrigerant	R-404A
Voltage	460/60/3	Test Voltage	460
Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/21/2000
Return Gas	40	Liquid Temp	N/A

Coefficient Information

Coefficient	Capacity	Power	Current	Mass Flow
C1	1.856405E+04	1.485435E+03	2.266948E+00	2.805144E+02
C2	6.160206E+02	-2.378206E-01	-8.348619E-03	6.717322E+00
C3	-1.132797E+02	-2.610897E+00	-3.034350E-03	-1.363962E+00
C4	2.387446+00	-3.220221E-02	3.635204E-06	6.845047E-02
C5	-3.717364E+00	1.947606E-01	2.729698E-04	-1.952736E-02
C6	-1.005936E-02	3.531193E-03	3.391938E-03	1.851557E-04
C7	4.049813E-02	-1.046935E-02	-8.121762E-06	-4.543079E-05
C8	-1.696838E-02	4.216550E-03	3.140419E-06	1.684698E-06
C9	1.844254E-03	-4.247799E-04	-2.925399E-07	3.590334E-06
C10	4.629714E-05	-2.260851E-05	-2.476466E-08	-1.833072E-06

General Information

Model	AWA9490ZXG	Refrigerant	R-404A
Voltage	460/60/3	Test Voltage	460
Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/21/2000
Return Gas	65	Liquid Temp	N/A

Coefficient Information

Coefficient	Capacity	Power	Current	Mass Flow
C1	2.080031E+04	1.613779E+03	2.462161E+00	3.758358E+02
C2	6.503375E+02	-1.875654E+00	-1.506959E-02	2.919809E+00
C3	-1.355507E-02	-4.186451E+00	-4.227397E-03	-2.266244E+00
C4	1.077110E+00	-1.813972E-01	-9.684211E-05	5.054564E-02
C5	-3.157213E+00	2.598288E-01	3.248552E-04	1.797167E-02
C6	4.023539E-02	-6.137879E-04	1.717818E-06	1.189463E-03
C7	-6.240988E-02	1.298897E-03	-2.197944E-06	-1.602610E-03
C8	5.940687E-02	-1.246469E-03	2.079329E-06	1.515289E-03
C9	-1.735505E-02	3.670533E-04	-6.036523E-07	-4.398181E-04
C10	1.214644E-03	-2.778250E-05	3.944008E-08	2.922848E-05

AWA9490ZXG Compressor Data Sheet

General Information

Model	AWA9490ZXG	Refrigerant	R-404A
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Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/17/2000
Return Gas	40	Liquid Temp	N/A

Coefficient Information

Coefficient	Capacity	Power	Current	Mass Flow
C1	1.583293E+04	1.245602E+03	2.273400E+00	2.221581E+02
C2	6.349651E+02	-1.786157E+00	-6.308495E-03	9.448882E+00
C3	-9.719323E+01	-2.564496E+00	-3.355731E-03	-1.035834E+00
C4	9.756513E-01	-9.484443E-02	3.184131E-05	2.700986E-02
C5	-3.844362E+00	1.935391E-01	2.445479E-04	-4.188544E-02
C6	-7.105124E-03	2.693664E-03	5.983669E-07	2.928367E-04
C7	4.624489E-02	-5.177979E-03	-4.459060E-06	6.066488E-04
C8	-1.983929E-02	2.057506E-03	1.855440E-06	-2.863975E-04
C9	2.177546E-03	-2.009933E-04	-1.970201E-07	3.551141E-05
C10	1.971189E-05	-1.920233E-05	-1.549133E-09	-3.134394E-06

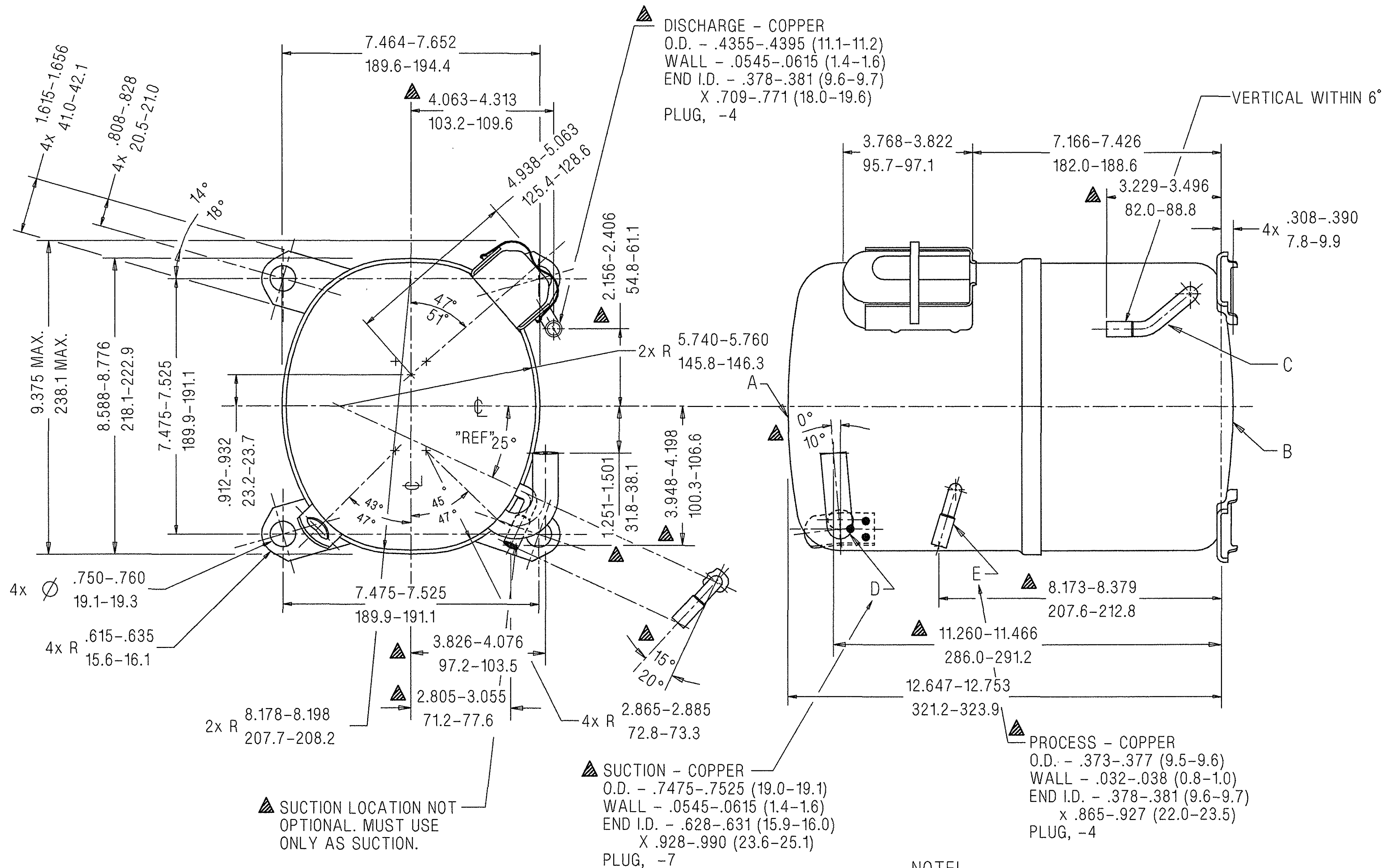
General Information

Model	AWA9490ZXG	Refrigerant	R-404A
Voltage	380/420/50/3	Test Voltage	380
Sub Cooling	N/A	Ambient	95
Forced Air	YES	Motor Type	3PH
Run Cap	N/A	Date	1/17/2000
Return Gas	65	Liquid Temp	N/A

Coefficient Information

Coefficient	Capacity	Power	Current	Mass Flow
C1	1.158994E+04	9.157106E+02	2.316618E+00	1.861947E+02
C2	7.458923E+02	-3.056840E+00	-2.172868E-02	6.851833E+00
C3	-5.946899E+01	1.573862E+00	-2.197752E-03	-7.528411E-01
C4	2.063381E+00	5.611563E-02	1.679717E-04	5.962365E-02
C5	-4.740981E+00	1.123541E-01	2.796102E-04	-2.697109E-02
C6	-4.157888E-02	-9.610687E-04	1.797783E-06	-5.248002E-04
C7	9.253708E-02	4.185153E-03	1.007526E-06	1.271548E-03
C8	-8.514681E-02	-3.940336E-03	-1.134412E-06	-1.176411E-03
C9	2.446719E-02	1.160787E-03	3.917748E-07	3.400614E-04
C10	-1.845548E-03	-9.827887E-05	-5.527992E-08	-2.626014E-05





MANUFACTURING NOTES!

- SEE DWG. #AHT30 FOR ASSY. OF DISCHARGE CONNECTOR & LOWER SHOCK LOOP IN LOWER HOUSING.
- SEE SPEC. "A-B" & "A-C" FOR PROCESSING.

A	HA642-23
B	HA674-3
C	34711
D	34649
E	34467

REL	LT	LC	#	CHANGE	DATE
			236104	002	

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DIS. CODE 34D		NAME SALES COMPRESSOR	
DWN. T.M.G 10/8/96	CK <i>Dux</i> 10/23/97	APP. <i>10/24/97</i>	SCALE 1"=2"
TECUMSEH PRODUCTS CO. TECUMSEH, MICHIGAN			
MATERIAL NOTED			PART NO. DCAW125
INTERNAL USE ONLY UGIDISK5:GRIFFITH\AW-DCAW125\REL-C.PRT			

Q.A. SYMBOLS

★	= CATEGORY I
▲	= CATEGORY II
■	= CATEGORY III
□	= CATEGORY IV

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