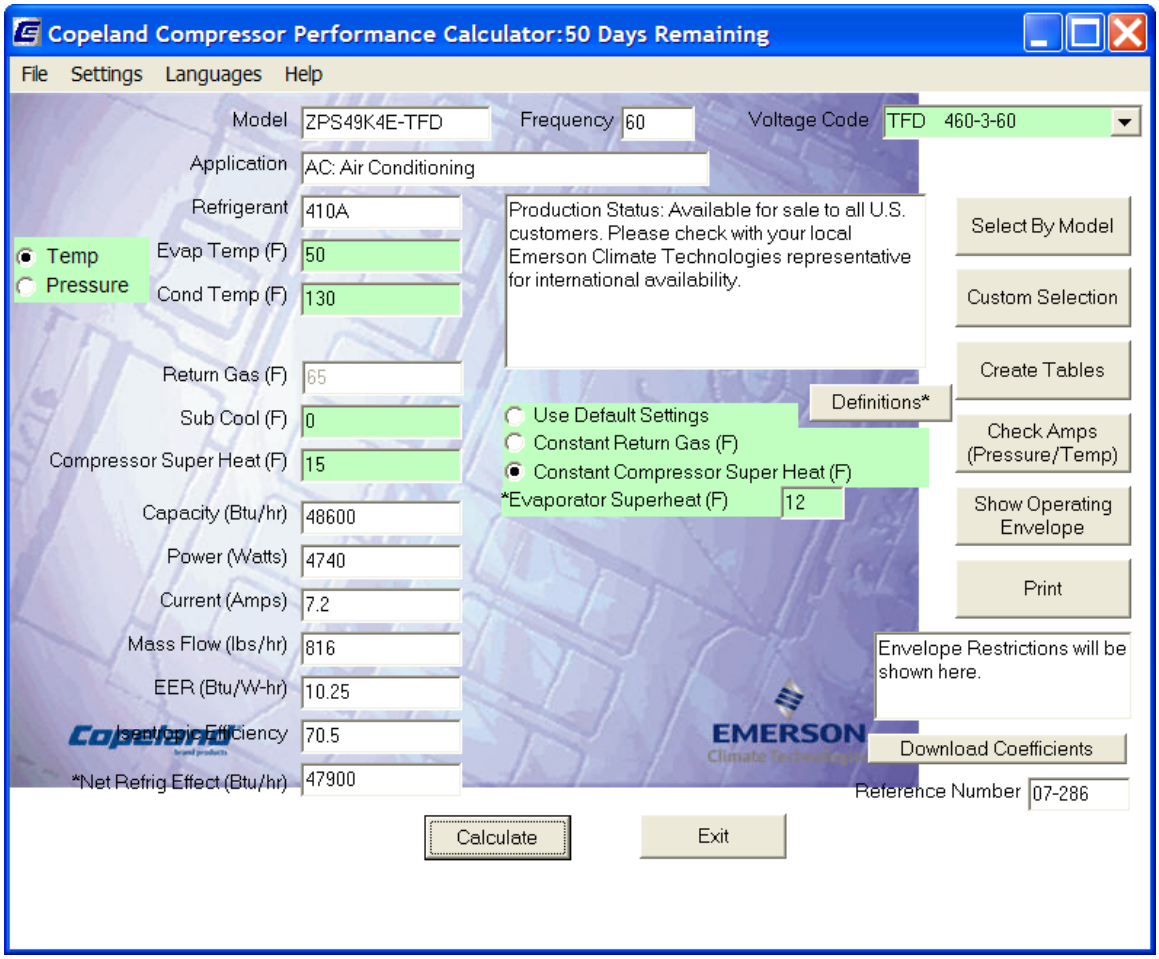
Copeland Compressor Performance Calculator:50 Days Remaining
File
Settings
Languages
Help
Model
ZPS49K4E-TFD
Frequency
60
Voltage Code
TFD 460-3-60
Application
AC: Air Conditioning
Refrigerant
410A
Production Status: Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.
Select By Model
Custom Selection
Temp
Pressure
Evap Temp (F)
50
Cond Temp (F)
130
Create Tables
Return Gas (F)
65
Definitions*
Sub Cool (F)
0
Use Default Settings
Constant Return Gas (F)
Constant Compressor Super Heat (F)
Compressor Super Heat (F)
15
*Evaporator Superheat (F)
12
Check Amps (Pressure/Temp)
Capacity (Btu/hr)
48600
Show Operating Envelope
Power (Watts)
4740
Print
Current (Amps)
7.2
Mass Flow (lbs/hr)
816
Envelope Restrictions will be shown here.
EER (Btu/W-hr)
10.25
Isentropic Efficiency
70.5
EMERSON
Climate Technologies
Download Coefficients
*Net Refrig Effect (Btu/hr)
47900
Reference Number
07-286
Calculate
Exit

RATING CONDITIONS
15°F Superheat
0°F Subcooling
95°F Ambient Air Over

AIR CONDITIONING

ZPS49K4E-TFD
HFC-410A
COPELAND SCROLL®
TFD 460-3-60

60 Hz Operation

Condensing Temperature °F (Sat Dew Pt Pressure, psig) | **Evaporating Temperature °F (Sat Dew Pt Pressure, psig)**

		-10(36)	0(48)	10(62)	20(78)	30(97)	40(118)	45(130)	50(142)	55(155)
150 (611)	C						29700	33200	37000	40900
	P						6250	6230	6210	6190
	A						8.95	8.9	8.85	8.85
	M						636	705	778	854
	E						4.75	5.35	5.95	6.6
	%						57.8	60.4	62.6	64.4
140 (540)	C					28100	35300	39200	43200	47500
	P					5470	5440	5420	5410	5400
	A					8.05	8	8	7.95	7.95
	M					537	662	730	800	874
	E					5.15	6.5	7.2	8	8.8
	%					58.3	63.7	65.8	67.4	68.4
130 (475)	C				25600	32300	40000	44200	48600	53200
	P				4790	4770	4750	4740	4740	4740
	A				7.25	7.25	7.2	7.2	7.2	7.2
	M				448	558	680	746	816	888
	E				5.35	6.8	8.4	9.3	10.25	11.2
	%				58.1	63.8	68.2	69.6	70.5	70.8
120 (417)	C			22500	28700	35900	44100	48600	53300	58300
	P			4190	4190	4180	4180	4180	4180	4190
	A			6.6	6.6	6.55	6.55	6.55	6.55	6.55
	M			369	462	570	692	757	826	898
	E			5.35	6.85	8.6	10.55	11.65	12.75	13.9
	%			57	63	67.8	70.9	71.7	71.7	71.1
110 (364)	C		19400	24800	31400	39100	47900	52600	57700	63000
	P		3670	3690	3690	3690	3690	3700	3710	3720
	A		6	6	6	6	6	6	6	6.05
	M		300	378	471	578	699	765	833	905
	E		5.3	6.75	8.5	10.6	12.95	14.25	15.55	16.95
	%		55.4	61.1	66.3	70.1	71.8	71.7	70.8	69.2
100 (316)	C	16550	21000	26800	33800	42000	51300	56400	61800	67500
	P	3200	3240	3260	3270	3270	3280	3290	3300	3320
	A	5.45	5.5	5.5	5.55	5.55	5.55	5.55	5.55	5.6
	M	244	305	382	475	583	705	770	839	911
	E	5.15	6.5	8.25	10.35	12.85	15.65	17.15	18.7	20.35
	%	53.8	58.6	63.7	68.1	70.7	70.8	69.6	67.7	64.6
90 (273)	C	17700	22500	28600	36100	44800	54700	60100	65800	71800
	P	2840	2870	2890	2900	2910	2920	2930	2940	2960
	A	5.05	5.05	5.1	5.1	5.1	5.15	5.15	5.15	5.15
	M	245	307	385	479	587	710	776	845	918
	E	6.25	7.85	9.9	12.45	15.4	18.75	20.55	22.35	24.25
	%	56.2	60.6	65	68.4	69.5	67.6	65.2	61.9	57.5
80 (235)	C	18700	23800	30400	38300	47600	58100	63900	69900	76300
	P	2510	2550	2560	2570	2570	2580	2600	2610	2630
	A	4.65	4.7	4.7	4.75	4.75	4.75	4.75	4.75	4.8
	M	245	308	388	482	592	716	783	853	926
	E	7.45	9.35	11.85	14.95	18.5	22.5	24.6	26.8	29
	%	57.8	61.8	65.5	67.5	66.8	62.4	58.5	53.5	47.3

NON-STANDARD CONDITIONS: Nominal Performance Values (±10%) based on 72 hours run-in. Subject to change without notice. Current @ 460 V
C:Capacity(Btu/hr), P:Power(Watts), A:Current(Amps), M:Mass Flow(lbs/hr), E:EER(Btu/Watt-hr), %:Isentropic Efficiency(%)