



**PRODUCT DATA & SPECIFICATIONS**

Bulletin T40-TFD-PDS-1e  
Part # 1109382



**PRODUCT SUPPORT**  
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# TF New Generation "D" Multi-Compressor Condensing Units

**Outdoor Multiple Compressor  
Air-Cooled Condensing Units**

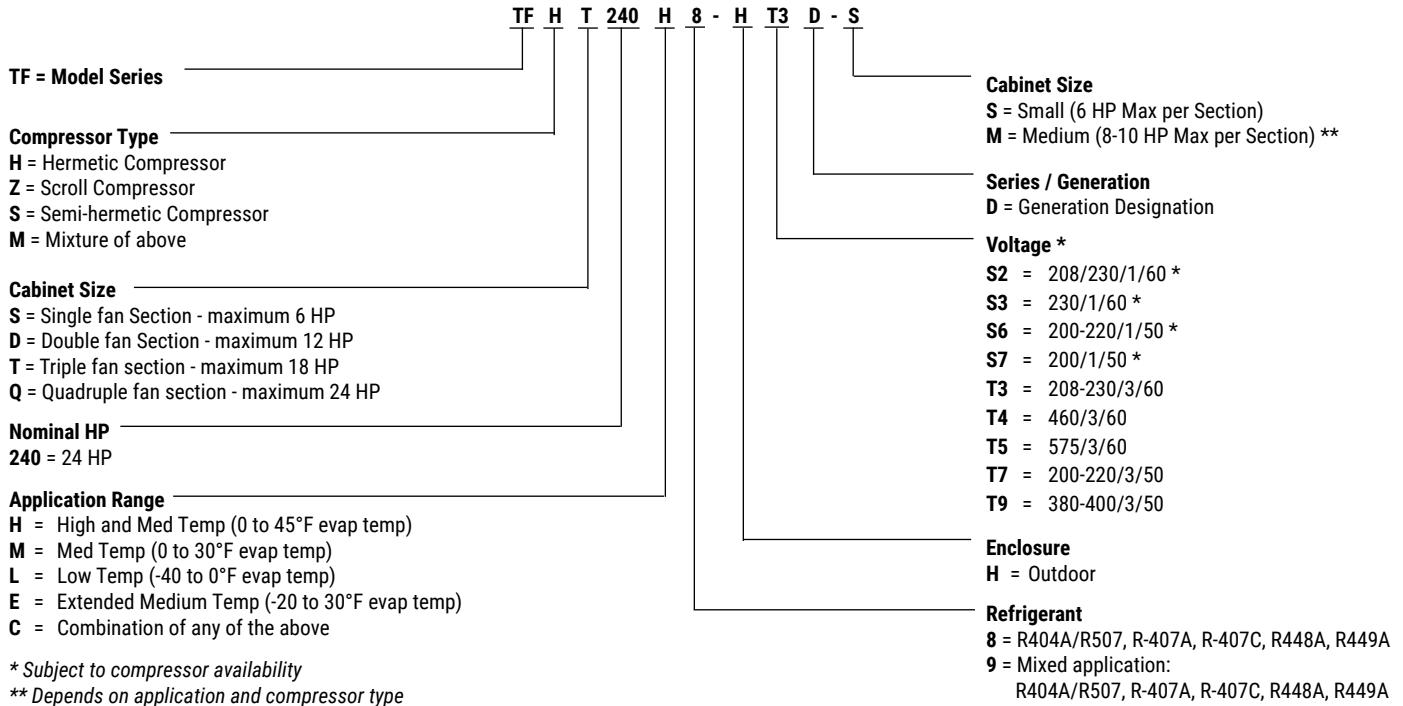


1/2 to 10 HP Compressors -  
Hermetic, Scroll & Semi-Hermetic  
Compressor (max. 40 HP total)



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**SELECTION PROCESS**

**1) Select Compressor Models:**

Select your compressor models (Capacity and HP) using the compressor specifications on pages 4 thru 19. This can be a combination of:

- any refrigerant (R404A/R507, R-407A, R-407C, R448A, R449A)
  - any application (High, Medium or Low Temperature)
  - any type of compressor (Hermetic, Scroll or Semi-Hermetic)
- Make note of the points indicated in the table for each compressor.

**2) Select the Cabinet:**

Select the cabinet using the following guidelines:

- Maximum 6 points per fan section for small size.  
Maximum 9 points per fan section for medium size.
- Maximum 3 compressors per fan section. Based on 95°F (35°C) design ambient.
- Maximum 4 fan sections.

**3) Select the Unit Model Number:**

Refer to the nomenclature chart above.

**See page 31 for a Specification and Submittal Drawing Worksheet**

**Consult factory for any special requirements.**

- Total system flexibility using multiple compressor models and applications on a common chassis.
- Up to four fan section cabinet choices of either Hermetic, Scroll or Semi-Hermetic multiple compressors, with maximum three compressors per fan section.
- Small Cabinet: Compressor sizes available ranging from 1/2 through 6 HP to a maximum total of 6 HP per Fan section and 24 HP per unit. (Based on 95°F design ambient)
- Medium Cabinet: Compressor sizes available ranging from 1/2 through 8-10\* HP to a maximum total of 8 HP per fan section and 40\* HP per unit. (Based on 95°F design ambient)
- Semi-hermetic use suction and discharge vibration eliminators and spring mounts.
- High efficiency enhanced tube and fin on both indoor or outdoor condenser design using high efficiency PSC fan motors
- Outdoor unit uses weather-resistant housing with hinged hood, weatherproof electrical panel and fixed head pressure flooding valve
- Each compressor includes main power fuse block, contactor, fixed high and low pressure control oil pressure control (where applicable) and fused control circuit
- Compressor circuit breaker (per compressor)
- Single Point main electrical panel with non-fused disconnect. (Single point dependant on evaporator voltage)
- Includes liquid line drier and sightglass

\* Depends on application and compressor type

## AVAILABLE OPTIONS

- Sealed suction filter
- Suction accumulator \*\*
- Discharge line check valve
- Receiver Inlet ball valve
- Heated and insulated receiver
- Field piping connections at left or right side
- Flex hoses for pressure controls
- Voltage/phase monitor
- Main disconnect fusing
- Compressor anti short cycle time delay relay
- Current sensing relay -for use with oil control (where applicable)
- OMB oil level control (where applicable)
- Air or Electric defrost kits
- Pumpdown toggle switch
- Liquid line solenoid valve-with standard 230V coil (shipped loose)
- Spare condenser circuit for remote ice machine
- Digital Scroll on certain models (consult factory)

\*\* for semi-hermetic compressors- maximum one suction accumulator per fan section

**OTHER OPTIONS AVAILABLE UPON REQUEST. CONSULT FACTORY FOR DETAILS**

**R404A R507 Medium Temperature**

Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: RST45C2E	40	4.4	9160	8760	8350	7920	7480	7020
	35	1.7	8450	8080	7710	7320	6910	6500
	30	-1.1	7760	7430	7080	6730	6360	5990
	25	-3.9	7090	6790	6480	6160	5820	5480
	20	-6.7	6450	6180	5890	5600	5300	4990
Nominal Horsepower: 0.6	15	-9.4	5840	5590	5340	5070	4800	4520
	10	-12.2	5260	5040	4810	4570	4320	4070
	5	-15.0	4730	4520	4310	4090	3870	3650
	0	-17.8	4230	4040	3850	3650	3450	3250
	Compressor Model: CS10K6E	40	4.4	20400	19200	18100	16900	15800
35		1.7	18900	17800	16800	15700	14600	13600
30		-1.1	17400	16400	15400	14500	13500	12500
25		-3.9	16000	15000	14100	13200	12300	11400
20		-6.7	14500	13600	12800	11900	11100	10300
Nominal Horsepower: 1.5	15	-9.4	13000	12300	11500	10700	9920	9140
	10	-12.2	11600	10900	10200	9470	8750	8030
	5	-15.0	10200	9580	8920	8270	7610	6950
	0	-17.8	8900	8310	7710	7110	6510	5900
	Compressor Model: CS12K6E	40	4.4	23800	22600	21300	20100	18800
35		1.7	21800	20600	19500	18300	17100	15900
30		-1.1	19900	18800	17700	16600	15500	14400
25		-3.9	18000	17000	16000	15000	14000	13000
20		-6.7	16300	15400	14400	13500	12600	11600
Nominal Horsepower: 2	15	-9.4	14600	13800	12900	12100	11200	10300
	10	-12.2	13100	12300	11500	10700	9910	9130
	5	-15.0	11600	10800	10100	9400	8680	7970
	0	-17.8	10200	9490	8820	8160	7510	6860
	Compressor Model: CS14K6E	40	4.4	30200	28600	27000	25400	23800
35		1.7	27900	26500	25000	23500	22000	20500
30		-1.1	25700	24300	23000	21600	20200	18900
25		-3.9	23500	22200	21000	19700	18500	17200
20		-6.7	21300	20200	19000	17900	16800	15600
Nominal Horsepower: 2.5	15	-9.4	19200	18100	17100	16100	15000	14000
	10	-12.2	17100	16200	15300	14300	13400	12400
	5	-15.0	15100	14300	13500	12600	11800	10900
	0	-17.8	13300	12500	11800	11000	10200	9490
	Compressor Model: CS18K6E	40	4.4	37200	35200	33200	31100	29100
35		1.7	34600	32700	30800	28900	27000	25100
30		-1.1	32000	30200	28500	26700	24900	23200
25		-3.9	29300	27700	26000	24400	22800	21100
20		-6.7	26700	25100	23600	22100	20600	19100
Nominal Horsepower: 3	15	-9.4	24000	22600	21200	19800	18400	17000
	10	-12.2	21400	20100	18800	17500	16300	15000
	5	-15.0	18800	17700	16500	15300	14200	13100
	0	-17.8	16400	15300	14300	13200	12200	11200
	Compressor Model: CS20K6E	40	4.4	44700	42300	39900	37600	35300
35		1.7	40300	38100	35900	33700	31600	29500
30		-1.1	36300	34200	32200	30200	28200	26300
25		-3.9	32600	30600	28800	26900	25100	23300
20		-6.7	29100	27400	25600	23900	22300	20600
Nominal Horsepower: 0.7	15	-9.4	26000	24400	22800	21300	19700	18200
	10	-12.2	23100	21700	20200	18800	17400	16000
	5	-15.0	20500	19200	17900	16600	15300	14000
	0	-17.8	18100	16900	15700	14500	13300	12100

**R407A Medium Temperature**

Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature						
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F	
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)	
Compressor Model: CS10K6E	30	-1.1	16800	15900	15000	14000	13100	12200	
	25	-3.9	15000	14000	13200	12400	11500	10700	
	20	-6.7	13100	12400	11500	10800	10000	9260	
	15	-9.4	11400	10700	10000	9300	8590	7890	
	10	-12.2	9860	9190	8540	7880	7240	6600	
Nominal Horsepower: 1.5	5	-15.0	8370	7760	7160	6550	5960	5380	
	0	-17.8	6990	6430	5860	5300	4750	4220	
	Compressor Model: CS12K6E	30	-1.1	18800	17900	16800	15800	14900	13800
		25	-3.9	16700	15800	14900	13900	13100	12200
		20	-6.7	14800	13900	13100	12300	11400	10600
15		-9.4	12900	12100	11300	10600	9850	9120	
10		-12.2	11100	10400	9720	9070	8410	7770	
Nominal Horsepower: 2	5	-15.0	9440	8840	8250	7660	7100	6550	
	0	-17.8	7970	7430	6920	6410	5930	5460	
	Compressor Model: CS14K6E	30	-1.1	23800	22700	21500	20400	19100	18000
		25	-3.9	21200	20100	19000	17900	16800	15700
		20	-6.7	18600	17600	16500	15600	14600	13500
15		-9.4	16100	15200	14200	13300	12400	11500	
10		-12.2	13700	12900	12100	11200	10500	9770	
Nominal Horsepower: 2.5	5	-15.0	11600	10900	10200	9500	8860	8280	
	0	-17.8	9710	9120	8560	8040	7570	7170	
	Compressor Model: CS18K6E	30	-1.1	29800	28400	26800	25400	23900	22500
		25	-3.9	26300	25000	23600	22200	20800	19600
		20	-6.7	23000	21700	20500	19200	18000	16800
15		-9.4	20000	18800	17700	16600	15500	14500	
10		-12.2	17300	16200	15200	14100	13200	12300	
Nominal Horsepower: 3	5	-15.0	14700	13800	12900	12100	11200	10400	
	0	-17.8	12400	11600	10800	10100	9430	8800	
	Compressor Model: CS20K6E	30	-1.1	33000	31300	29700	28100	26500	24900
		25	-3.9	29100	27700	26200	24800	23300	21800
		20	-6.7	25700	24400	23100	21700	20400	19000
15		-9.4	22600	21400	20200	18900	17700	16500	
10		-12.2	19800	18600	17500	16400	15300	14100	
Nominal Horsepower: 3.5	5	-15.0	17100	16000	15000	13900	12900	11900	
	0	-17.8	14600	13600	12600	11500	10600	9550	

NOTE: Mean temperature is the average temperature between the saturated suction vapor temperature (dew point) and the temperature feeding the evaporator. To be consistent with the evaporator selection method, Mean rating capacities are recommended.

# SELECTION CAPACITY DATA - HERMETIC

# TF - CONDENSING UNITS

## R448A R449A Medium Temperature

Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
			85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)
	°F	°C						
Compressor Model: RST45C2E	30	-1.1	7440	7160	6860	6560	6260	5950
	25	-3.9	6730	6470	6200	5920	5650	5360
	20	-6.7	6060	5810	5560	5310	5060	4800
Nominal Horsepower: 1.5	15	-9.4	5430	5210	4980	4740	4510	4270
	10	-12.2	4840	4630	4420	4210	4000	3790
	5	-15.0	4280	4100	3910	3720	3530	3340
Points: 2	0	-17.8	3760	3600	3430	3260	3090	2920
Compressor Model: CS10K6E	30	-1.1	17400	16400	15500	14700	13700	12800
	25	-3.9	15500	14700	13700	12900	12100	11200
	20	-6.7	13600	12900	12100	11300	10500	9800
Nominal Horsepower: 2	15	-9.4	12000	11200	10500	9810	9110	8420
	10	-12.2	10400	9700	9050	8400	7760	7130
	5	-15.0	8880	8280	7680	7080	6500	5930
Points: 2	0	-17.8	7520	6960	6410	5870	5320	4800
Compressor Model: CS12K6E	30	-1.1	19300	18400	17400	16400	15400	14500
	25	-3.9	17300	16300	15400	14600	13600	12700
	20	-6.7	15200	14400	13500	12800	12000	11100
Nominal Horsepower: 2.5	15	-9.4	13300	12600	11900	11100	10400	9650
	10	-12.2	11500	10900	10200	9590	8950	8330
	5	-15.0	9940	9360	8800	8240	7700	7170
Points: 2.5	0	-17.8	8510	8010	7530	7060	6610	6190
Compressor Model: CS14K6E	30	-1.1	25000	23800	22600	21400	20200	19000
	25	-3.9	22200	21100	20000	18800	17700	16600
	20	-6.7	19400	18400	17400	16400	15400	14400
Nominal Horsepower: 3	15	-9.4	17000	15900	15000	14000	13200	12300
	10	-12.2	14500	13600	12800	12000	11200	10400
	5	-15.0	12300	11500	10800	10200	9510	8910
Points: 3.5	0	-17.8	10300	9740	9180	8650	8170	7760
Compressor Model: CS18K6E	30	-1.1	30800	29100	27600	26000	24500	23100
	25	-3.9	27200	25800	24300	23000	21600	20400
	20	-6.7	24100	22800	21400	20200	19000	17900
Nominal Horsepower: 3.5	15	-9.4	21200	20000	18800	17700	16500	15600
	10	-12.2	18500	17400	16300	15300	14400	13400
	5	-15.0	16000	15000	14000	13100	12300	11400
Points: 3.5	0	-17.8	13600	12700	11900	11000	10200	9560

## R404A R507 Low Temperature

Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
			85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)
	°F	°C						
Compressor Model: RFT26C1E	0	-17.8	4940	4700	4460	4220	3980	3740
	-5	-20.6	4410	4200	3980	3760	3550	3330
	-10	-23.3	3920	3720	3530	3330	3130	2940
Nominal Horsepower: 0.8	-15	-26.1	3450	3280	3100	2930	2750	2570
	-20	-28.9	3020	2860	2700	2550	2390	2230
	-25	-31.7	2610	2470	2330	2190	2060	1920
Points: 1	-30	-34.4	2240	2110	1990	1870	1750	1630
Compressor Model: CF04K6E	0	-17.8	8380	7790	7190	6590	5990	5400
	-5	-20.6	7360	6820	6280	5740	5200	4670
	-10	-23.3	6430	5950	5460	4980	4500	4020
Nominal Horsepower: 1	-15	-26.1	5570	5140	4710	4280	3850	3420
	-20	-28.9	4770	4390	4000	3610	3230	2860
	-25	-31.7	4000	3660	3310	2970	2640	2310
Points: 1	-30	-34.4	3230	2920	2620	2320	2020	1750
Compressor Model: CF06K6E	0	-17.8	11100	10400	9750	9100	8440	7780
	-5	-20.6	9940	9370	8760	8170	7570	6970
	-10	-23.3	8860	8320	7770	7220	6690	6150
Nominal Horsepower: 1.5	-15	-26.1	7770	7270	6790	6300	5810	5330
	-20	-28.9	6710	6260	5820	5390	4960	4540
	-25	-31.7	5690	5290	4900	4520	4150	3790
Points: 2	-30	-34.4	4750	4390	4050	3710	3400	3110
Compressor Model: CF06K6E	0	-17.8	11700	11000	10300	9640	8950	8250
	-5	-20.6	10500	9880	9250	8630	8000	7370
	-10	-23.3	9320	8750	8180	7610	7040	6480
Nominal Horsepower: 2	-15	-26.1	8150	7630	7120	6610	6100	5600
	-20	-28.9	7020	6550	6090	5640	5190	4760
	-25	-31.7	5950	5530	5110	4720	4330	3960
Points: 2	-30	-34.4	4950	4570	4210	3870	3540	3230
Compressor Model: CF09K6E	0	-17.8	17900	16900	15900	14900	13900	12900
	-5	-20.6	16100	15100	14200	13300	12400	11500
	-10	-23.3	14200	13400	12500	11700	10900	10100
Nominal Horsepower: 2.5	-15	-26.1	12400	11700	10900	10200	9450	8730
	-20	-28.9	10700	10000	9340	8700	8050	7420
	-25	-31.7	9030	8430	7860	7290	6730	6190
Points: 2.5	-30	-34.4	7480	6970	6470	5990	5520	5060

NOTE: Mean temperature is the average temperature between the saturated suction vapor temperature (dew point) and the temperature feeding the evaporator. To be consistent with the evaporator selection method, Mean rating capacities are recommended.

**R404A R507 High Temperature**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature						
			85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)	
	°F	°C							
Compressor Model: ZB06KAE	40	4.4	10400	9970	9510	9050	8580	8120	
	35	1.7	9600	9190	8780	8360	7940	7520	
	30	-1.1	8790	8430	8060	7680	7310	6920	
	25	-3.9	8010	7690	7360	7020	6690	6340	
	20	-6.7	7270	6980	6690	6390	6080	5770	
	15	-9.4	6570	6310	6050	5780	5510	5220	
	10	-12.2	5910	5680	5450	5200	4950	4700	
	5	-15.0	5300	5100	4890	4660	4440	4200	
Nominal Horsepower: 0.7	0	-17.8	4750	4570	4370	4170	3950	3730	
	Points: 1	40	4.4	12600	12000	11400	10900	10300	9700
		35	1.7	11500	11000	10500	10000	9480	8950
		30	-1.1	10500	10100	9630	9170	8710	8250
		25	-3.9	9580	9190	8790	8390	7990	7580
		20	-6.7	8690	8350	8000	7650	7300	6940
		15	-9.4	7860	7560	7260	6950	6640	6330
		10	-12.2	7080	6820	6560	6290	6020	5750
5		-15.0	6350	6120	5890	5660	5430	5190	
Points: 1	0	-17.8	5660	5460	5260	5050	4850	4640	
	Compressor Model: ZB07KAE	40	4.4	14000	13400	12800	12100	11500	10800
		35	1.7	12800	12200	11700	11100	10500	9930
		30	-1.1	11700	11200	10700	10200	9650	9130
		25	-3.9	10700	10200	9780	9320	8860	8390
		20	-6.7	9760	9360	8950	8540	8130	7720
		15	-9.4	8900	8540	8180	7820	7460	7100
		10	-12.2	8090	7780	7470	7150	6830	6510
5		-15.0	7340	7060	6780	6510	6230	5940	
Points: 1	0	-17.8	6610	6370	6120	5880	5630	5380	
	Compressor Model: ZB08KAE	40	4.4	16500	15700	15000	14300	13600	13000
		35	1.7	15200	14500	13900	13300	12700	12100
		30	-1.1	14000	13400	12800	12200	11700	11200
		25	-3.9	12800	12300	11800	11300	10800	10400
		20	-6.7	11800	11300	10800	10300	9920	9540
		15	-9.4	10700	10300	9860	9450	9080	8740
		10	-12.2	9730	9340	8960	8590	8260	7960
5		-15.0	8800	8440	8090	7760	7460	7200	
Points: 1	0	-17.8	7920	7590	7260	6960	6680	6440	
	Compressor Model: ZS09KAE	40	4.4	18700	17900	17100	16300	15500	14800
		35	1.7	17300	16600	15800	15100	14400	13800
		30	-1.1	16000	15300	14600	14000	13400	12800
		25	-3.9	14700	14100	13500	12900	12400	11900
		20	-6.7	13500	12900	12400	11900	11400	11000
		15	-9.4	12300	11800	11300	10900	10400	10100
		10	-12.2	11200	10700	10300	9890	9520	9200
5		-15.0	10100	9720	9320	8950	8610	8330	
Points: 2	0	-17.8	9130	8750	8380	8030	7720	7460	
	Compressor Model: ZS11KAE	40	4.4	21200	20200	19300	18500	17700	16900
		35	1.7	19800	19000	18200	17400	16700	16000
		30	-1.1	18500	17700	17000	16300	15700	15200
		25	-3.9	17200	16500	15900	15300	14800	14300
		20	-6.7	15900	15300	14800	14200	13800	13400
		15	-9.4	14700	14200	13700	13200	12800	12500
		10	-12.2	13500	13000	12600	12200	11900	11600
5		-15.0	12300	11900	11500	11200	10900	10700	
Points: 2	0	-17.8	11200	10800	10500	10100	9880	9700	
	Compressor Model: ZS13KAE	40	4.4	24500	23400	22400	21400	20500	19700
		35	1.7	23000	22000	21100	20300	19500	18800
		30	-1.1	21500	20700	19900	19100	18500	17900
		25	-3.9	20100	19300	18600	18000	17400	17000
		20	-6.7	18700	18000	17400	16800	16400	16000
		15	-9.4	17300	16700	16200	15700	15300	15000
		10	-12.2	16000	15400	14900	14500	14200	14000
5		-15.0	14600	14100	13700	13300	13100	12900	
Points: 2	0	-17.8	13300	12800	12500	12100	11900	11700	

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Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature						
			85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)	
	°F	°C							
Compressor Model: ZS19KAE	40	4.4	31300	29900	28500	27200	25900	24600	
	35	1.7	28800	27500	26300	25100	23900	22800	
	30	-1.1	26400	25300	24200	23100	22100	21100	
	25	-3.9	24200	23200	22200	21200	20300	19500	
	20	-6.7	22100	21200	20300	19400	18600	17900	
	15	-9.4	20100	19300	18500	17700	17000	16400	
	10	-12.2	18200	17500	16800	16100	15400	14900	
	5	-15.0	16500	15800	15100	14500	13900	13400	
Points: 2.5	0	-17.8	14800	14200	13600	13000	12500	12000	
	Compressor Model: ZS21KAE †	40	4.4	39800	38000	36200	34600	32900	31400
		35	1.7	36800	35100	33600	32000	30600	29300
		30	-1.1	33900	32400	31000	29600	28400	27200
		25	-3.9	31100	29800	28500	27300	26200	25200
		20	-6.7	28500	27300	26200	25100	24100	23200
		15	-9.4	26000	25000	23900	23000	22100	21300
		10	-12.2	23600	22700	21800	20900	20100	19400
5		-15.0	21400	20500	19700	18900	18200	17600	
Points: 3.5	0	-17.8	19200	18400	17700	16900	16300	15700	
	Compressor Model: ZS26KAE	40	4.4	43400	41500	39600	37800	36000	34400
		35	1.7	40200	38400	36700	35100	33500	32100
		30	-1.1	37100	35500	34000	32500	31100	29900
		25	-3.9	34200	32700	31300	30000	28800	27700
		20	-6.7	31300	30100	28800	27600	26600	25600
		15	-9.4	28700	27500	26400	25300	24400	23500
		10	-12.2	26100	25000	24000	23100	22200	21500
5		-15.0	23600	22700	21700	20900	20100	19500	
Points: 3.5	0	-17.8	21300	20400	19500	18700	18000	17400	
	Compressor Model: ZS29KAE †	40	4.4	50200	47900	45700	43600	41600	39700
		35	1.7	46400	44400	42400	40500	38700	37000
		30	-1.1	42800	40900	39100	37400	35800	34400
		25	-3.9	39300	37700	36100	34500	33100	31800
		20	-6.7	36000	34600	33100	31800	30500	29400
		15	-9.4	32900	31600	30300	29100	28000	27000
		10	-12.2	29900	28700	27600	26500	25500	24600
5		-15.0	27100	26000	24900	23900	23000	22300	
Points: 4	0	-17.8	24400	23400	22400	21500	20600	19900	
	Compressor Model: ZS33KAE	40	4.4	54200	51700	49400	47100	44900	42900
		35	1.7	50100	47900	45800	43800	41800	40100
		30	-1.1	46300	44300	42400	40600	38900	37300
		25	-3.9	42600	40800	39100	37500	36000	34600
		20	-6.7	39100	37500	36000	34500	33200	32000
		15	-9.4	35800	34300	32900	31600	30400	29400
		10	-12.2	32600	31300	30000	28800	27800	26900
5		-15.0	29500	28300	27200	26100	25100	24300	
Points: 4.5	0	-17.8	26600	25500	24400	23400	22500	21800	
	Compressor Model: ZB38KCE †	40	4.4	60300	57600	54900	52100	49300	46400
		35	1.7	55900	53400	50900	48300	45700	43000
		30	-1.1	51700	49400	47100	44700	42200	39700
		25	-3.9	47700	45600	43400	41200	38900	36600
		20	-6.7	43800	41900	39900	37900	35800	33600
		15	-9.4	40200	38400	36600	34700	32800	30800
		10	-12.2	36700	35000	33400	31700	29900	28100
5		-15.0	33400	31900	30400	28800	27200	25500	
Points: 5	0	-17.8	30200	28900	27500	26100	24600	23100	
	Compressor Model: ZB45KCE †	40	4.4	72100	68900	65700	62400	59100	55700
		35	1.7	66900	63900	60900	57900	54800	51600
		30	-1.1	61900	59100	56400	53500	50600	47700
		25	-3.9	57000	54500	52000	49300	46700	43900
		20	-6.7	52400	50100	47800	45300	42900	40400
		15	-9.4	48000	45900	43700	41500	39300	36900
		10	-12.2	43800	41900	39900	37900	35800	33700
5		-15.0	39800	38100	36300	34500	32600	30600	
Points: 6	0	-17.8	36100	34500	32900	31200	29500	27700	

† Available with Digital compressor (consult factory)

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# SELECTION CAPACITY DATA - SCROLL

# TF - CONDENSING UNITS

## R404A R507 High Temperature (cont'd)

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)
	<b>Compressor Model: ZB48KCE</b> Nominal Horsepower: 6.1 Points: 7							
40	4.4	79200	75600	72000	68300	64600	60800	
35	1.7	73600	70300	66900	63500	60000	56400	
30	-1.1	68200	65100	62000	58800	55500	52200	
25	-3.9	63000	60200	57300	54300	51300	48200	
20	-6.7	58000	55400	52700	50000	47200	44300	
15	-9.4	53200	50800	48400	45900	43300	40600	
10	-12.2	48700	46500	44200	41900	39500	37100	
5	-15.0	44300	42300	40300	38200	36000	33700	
0	-17.8	40200	38400	36500	34600	32600	30500	
<b>Compressor Model: ZB57KCE</b> Nominal Horsepower: 7 Points: 8								
40	4.4	96000	91900	87700	83500	79100	74500	
35	1.7	88800	85100	81300	77400	73300	69200	
30	-1.1	81900	78500	75100	71500	67800	64000	
25	-3.9	75300	72300	69200	65900	62600	59100	
20	-6.7	69100	66400	63500	60600	57600	54500	
15	-9.4	63200	60700	58200	55600	52900	50000	
10	-12.2	57600	55400	53100	50800	48300	45800	
5	-15.0	52300	50300	48300	46200	44000	41800	
0	-17.8	47300	45600	43700	41900	40000	37900	
<b>Compressor Model: ZB66K5E</b> Nominal Horsepower: 7.6 Points: 9								
40	4.4	110000	105000	100000	95300	90200	85000	
35	1.7	102000	97700	93100	88500	83700	78900	
30	-1.1	94600	90400	86200	81900	77600	73100	
25	-3.9	87200	83400	79600	75600	71600	67600	
20	-6.7	80200	76700	73200	69600	66000	62200	
15	-9.4	73500	70300	67100	63900	60500	57100	
10	-12.2	67100	64200	61300	58400	55300	52200	
5	-15.0	61000	58400	55800	53100	50300	47400	
0	-17.8	55200	52900	50500	48000	45400	42800	

**R407A High Temperature**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZB06KAE Nominal Horsepower: 0.7 Points: 1	40	4.4	10200	9790	9430	9070	8700	8340
	35	1.7	9200	8880	8560	8230	7890	7570
	30	-1.1	8310	8020	7730	7440	7140	6840
	25	-3.9	7480	7220	6960	6700	6440	6170
	20	-6.7	6710	6480	6240	6010	5770	5540
	15	-9.4	6000	5790	5580	5380	5170	4960
	10	-12.2	5360	5180	4990	4820	4630	4440
	5	-15.0	4780	4620	4460	4310	4140	3980
	0	-17.8	4270	4140	3990	3860	3710	3570
	Compressor Model: ZB07KAE Nominal Horsepower: 0.8 Points: 1	40	4.4	11800	11400	11000	10600	10300
35		1.7	10800	10500	10200	9800	9450	9100
30		-1.1	9930	9610	9290	8960	8640	8320
25		-3.9	9040	8740	8440	8140	7840	7540
20		-6.7	8170	7900	7620	7340	7050	6770
15		-9.4	7350	7090	6830	6560	6290	6010
10		-12.2	6560	6320	6070	5810	5540	5270
5		-15.0	5820	5600	5350	5100	4830	4540
0		-17.8	5130	4900	4660	4400	4140	3850
Compressor Model: ZB08KAE Nominal Horsepower: 0.9 Points: 1		40	4.4	13200	12700	12300	11900	11300
	35	1.7	12300	11900	11400	10900	10500	10100
	30	-1.1	11300	10900	10500	10100	9720	9310
	25	-3.9	10400	10000	9670	9300	8920	8550
	20	-6.7	9480	9160	8830	8490	8140	7800
	15	-9.4	8610	8310	8010	7700	7380	7060
	10	-12.2	7750	7480	7200	6920	6640	6350
	5	-15.0	6910	6660	6410	6160	5910	5660
	0	-17.8	6080	5870	5650	5420	5200	4980
	Compressor Model: ZS09KAE Nominal Horsepower: 1 Points: 1	40	4.4	16300	15800	15300	14700	14100
35		1.7	14900	14500	13900	13400	12900	12300
30		-1.1	13500	13100	12700	12200	11600	11200
25		-3.9	12400	12000	11500	11000	10600	10200
20		-6.7	11200	10800	10400	10000	9650	9260
15		-9.4	10200	9820	9460	9110	8760	8390
10		-12.2	9190	8890	8570	8260	7940	7610
5		-15.0	8310	8030	7750	7460	7180	6880
0		-17.8	7480	7230	6980	6720	6460	6210
Compressor Model: ZS11KAE Nominal Horsepower: 1.1 Points: 2		40	4.4	19100	18400	17800	17100	16400
	35	1.7	17500	16800	16200	15600	15000	14400
	30	-1.1	15900	15300	14800	14200	13600	13100
	25	-3.9	14500	13900	13400	12900	12400	11900
	20	-6.7	13100	12700	12300	11800	11300	10800
	15	-9.4	12000	11500	11100	10700	10300	9840
	10	-12.2	10800	10500	10100	9700	9320	8930
	5	-15.0	9800	9460	9120	8780	8430	8090
	0	-17.8	8830	8530	8230	7910	7610	7300
	Compressor Model: ZS13KAE Nominal Horsepower: 1.5 Points: 2	40	4.4	21300	20600	19800	19000	18200
35		1.7	19400	18800	18100	17400	16600	15900
30		-1.1	17800	17200	16500	15900	15200	14600
25		-3.9	16200	15600	15100	14500	13800	13300
20		-6.7	14800	14200	13700	13200	12700	12100
15		-9.4	13400	13000	12500	12000	11500	11000
10		-12.2	12200	11800	11300	10900	10500	10000
5		-15.0	11000	10600	10300	9880	9480	9100
0		-17.8	9950	9610	9270	8910	8570	8230
Compressor Model: ZS15KAE Nominal Horsepower: 2 Points: 2		40	4.4	25200	24200	23300	22400	21400
	35	1.7	23000	22200	21300	20500	19600	18700
	30	-1.1	21000	20300	19400	18700	17900	17100
	25	-3.9	19100	18400	17800	17100	16300	15600
	20	-6.7	17400	16700	16100	15400	14800	14100
	15	-9.4	15700	15100	14600	13900	13300	12800
	10	-12.2	14000	13600	13100	12600	12100	11400
	5	-15.0	12600	12200	11800	11200	10700	10300
	0	-17.8	11200	10800	10400	10000	9570	9120

Shaded Area Restriction: 20°F Max Superheat

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Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZS19KAE Nominal Horsepower: 2.5 Points: 2.5	40	4.4	30600	29500	28500	27500	26400	25300
	35	1.7	27800	26800	25900	25000	24000	23000
	30	-1.1	25300	24400	23500	22700	21700	20900
	25	-3.9	23000	22200	21400	20600	19800	18900
	20	-6.7	20800	20100	19400	18700	17900	17200
	15	-9.4	18800	18200	17600	17000	16200	15600
	10	-12.2	17100	16500	15900	15300	14700	14100
	5	-15.0	15400	14900	14400	13800	13300	12800
	0	-17.8	13800	13400	12900	12500	12000	11400
	Compressor Model: ZS21KAE † Nominal Horsepower: 3 Points: 3.5	40	4.4	39100	37800	36400	34900	33600
35		1.7	35700	34400	33200	31900	30600	29300
30		-1.1	32400	31300	30200	29000	27900	26700
25		-3.9	29500	28500	27500	26400	25400	24300
20		-6.7	26800	25900	25000	24000	23100	22000
15		-9.4	24300	23500	22700	21800	20900	20100
10		-12.2	22000	21300	20600	19800	19000	18200
5		-15.0	20000	19200	18600	17900	17200	16500
0		-17.8	18000	17400	16700	16100	15500	14900
Compressor Model: ZS26KAE Nominal Horsepower: 3.5 Points: 3.5		40	4.4	43300	41700	40100	38600	37000
	35	1.7	39500	38100	36700	35300	33800	32300
	30	-1.1	36000	34700	33500	32100	30900	29500
	25	-3.9	32700	31500	30400	29200	28000	26800
	20	-6.7	29500	28500	27600	26500	25400	24200
	15	-9.4	26600	25800	24900	23900	22900	21900
	10	-12.2	23900	23200	22400	21500	20600	19800
	5	-15.0	21400	20800	20000	19200	18500	17700
	0	-17.8	19100	18500	17900	17200	16500	15700
	Compressor Model: ZS29KAE † Nominal Horsepower: 4 Points: 4	40	4.4	48800	47100	45300	43700	41900
35		1.7	44500	43000	41400	39700	38200	36600
30		-1.1	40500	39100	37600	36200	34700	33300
25		-3.9	36800	35600	34200	33000	31600	30300
20		-6.7	33500	32300	31100	30000	28700	27600
15		-9.4	30400	29300	28300	27100	26100	25000
10		-12.2	27600	26500	25600	24600	23600	22700
5		-15.0	24900	24000	23200	22300	21400	20500
0		-17.8	22400	21600	20900	20100	19200	18500
Compressor Model: ZS33KAE Nominal Horsepower: 4.5 Points: 4.5		40	4.4	54400	52500	50500	48600	46600
	35	1.7	49600	47900	46100	44300	42500	40700
	30	-1.1	45200	43700	42000	40400	38700	37000
	25	-3.9	41200	39700	38300	36800	35300	33800
	20	-6.7	37500	36200	34800	33500	32100	30800
	15	-9.4	34100	32900	31600	30500	29200	28000
	10	-12.2	30900	29800	28700	27600	26500	25400
	5	-15.0	28000	26900	26000	25000	24000	23000
	0	-17.8	25200	24300	23400	22600	21600	20800
	Compressor Model: ZB38KCE † Nominal Horsepower: 5 Points: 5	40	4.4	63200	60800	58300	55800	53200
35		1.7	57900	55700	53500	51200	48800	-
30		-1.1	52800	50900	48800	46600	44400	42200
25		-3.9	47900	46200	44200	42300	40400	38300
20		-6.7	43400	41700	39900	38200	36400	34500
15		-9.4	39000	37400	35900	34300	32700	31100
10		-12.2	34800	33500	32000	30600	29200	27800
5		-15.0	31000	29700	28500	27200	26000	24800
0		-17.8	27500	26300	25200	24000	23000	21900
Compressor Model: ZB45KCE † Nominal Horsepower: 6 Points: 6		40	4.4	72300	69600	66800	63900	60900
	35	1.7	66200	63800	61200	58400	55700	53000
	30	-1.1	60400	58100	55700	53400	50900	48300
	25	-3.9	54900	52700	50500	48400	46100	43800
	20	-6.7	49600	47600	45700	43600	41500	39400
	15	-9.4	44500	42700	41000	39100	37200	35400
	10	-12.2	39800	38200	36600	34900	33200	31500
	5	-15.0	35500	34000	32400	31000	29500	28000
	0	-17.8	31400	30100	28700	27400	26100	24800

Shaded Area Restriction: 20°F Max Superheat

† Available with Digital compressor (consult factory)

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**R407A High Temperature (cont'd)**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZB48KCE Nominal Horsepower: 6.1 Points: 7	40	4.4	79900	76800	73600	70300	67000	-
	35	1.7	73300	70500	67500	64500	61500	-
	30	-1.1	67000	64400	61700	58900	56100	53100
	25	-3.9	60900	58400	56000	53500	50900	48300
	20	-6.7	55100	52800	50600	48300	46000	43600
	15	-9.4	49500	47500	45400	43400	41300	39200
	10	-12.2	44300	42500	40700	38800	36900	35000
	5	-15.0	39500	37900	36200	34500	32900	31200
	0	-17.8	35000	33500	32000	30600	29100	27700
	Compressor Model: ZB57KCE Nominal Horsepower: 7 Points: 8	40	4.4	95100	91900	88700	85500	82200
35		1.7	86900	84100	81200	78300	75200	72200
30		-1.1	79400	76800	74200	71400	68700	65900
25		-3.9	72300	69900	67500	65100	62600	60000
20		-6.7	65500	63400	61300	59100	56800	54400
15		-9.4	59300	57400	55400	53500	51400	49200
10		-12.2	53500	51700	49900	48000	46200	44200
5		-15.0	47900	46400	44700	43100	41400	39500
0		-17.8	42700	41400	39800	38400	36700	35000
Compressor Model: ZB66K5E Nominal Horsepower: 7.6 Points: 9		40	4.4	110000	106000	102000	97300	93000
	35	1.7	101000	96900	93100	89100	85100	80900
	30	-1.1	91900	88400	84900	81100	77400	73600
	25	-3.9	83400	80200	76900	73500	70100	66700
	20	-6.7	75300	72300	69300	66200	63100	60100
	15	-9.4	67500	64800	62100	59400	56600	53900
	10	-12.2	60200	57700	55300	52900	50500	48300
	5	-15.0	53400	51200	49100	47000	44900	43100
	0	-17.8	47000	45100	43400	41600	40000	38600

Shaded Area Restriction: 20°F Max Superheat

**R448A R449A High Temperature**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZB06KAE	40	4.4	10300	9910	9560	9200	8840	8490
	35	1.7	9390	9070	8750	8410	8080	7750
	30	-1.1	8570	8270	7970	7660	7350	7050
	25	-3.9	7780	7500	7230	6950	6670	6390
	20	-6.7	7030	6780	6530	6270	6010	5750
	15	-9.4	6330	6100	5880	5640	5410	5160
	10	-12.2	5680	5470	5260	5050	4840	4620
	5	-15.0	5060	4890	4700	4500	4310	4110
Compressor Model: ZB07KAE	40	4.4	12200	11800	11200	10800	10400	9960
	35	1.7	11100	10700	10300	9930	9530	9130
	30	-1.1	10100	9780	9410	9060	8690	8340
	25	-3.9	9190	8870	8550	8230	7900	7580
	20	-6.7	8310	8020	7730	7450	7160	6860
	15	-9.4	7480	7220	6960	6700	6440	6180
	10	-12.2	6700	6470	6240	6010	5780	5540
	5	-15.0	5980	5780	5570	5370	5160	4960
Compressor Model: ZB08KAE	40	4.4	13900	13300	12800	12300	11800	11100
	35	1.7	12800	12300	11800	11300	10800	10300
	30	-1.1	11600	11200	10800	10400	9910	9470
	25	-3.9	10600	10200	9840	9440	9060	8660
	20	-6.7	9610	9270	8920	8580	8240	7890
	15	-9.4	8660	8360	8060	7760	7460	7140
	10	-12.2	7780	7510	7250	6980	6720	6450
	5	-15.0	6960	6730	6490	6260	6020	5790
Compressor Model: ZS09KAE	40	4.4	16100	15600	15100	14600	13900	13300
	35	1.7	14500	14000	13600	13100	12600	12000
	30	-1.1	13100	12700	12300	11900	11300	10800
	25	-3.9	11800	11400	11100	10700	10300	9780
	20	-6.7	10600	10300	9990	9660	9280	8840
	15	-9.4	9530	9280	9020	8730	8390	8010
	10	-12.2	8570	8350	8130	7880	7600	7270
	5	-15.0	7700	7520	7330	7130	6880	6600
Compressor Model: ZS11KAE	40	4.4	18900	18300	17700	17000	16200	15400
	35	1.7	17100	16500	16000	15400	14700	13900
	30	-1.1	15400	15000	14500	13900	13300	12600
	25	-3.9	13900	13500	13100	12600	12100	11400
	20	-6.7	12500	12200	11800	11300	10900	10300
	15	-9.4	11300	11000	10700	10300	9880	9390
	10	-12.2	10200	9920	9640	9330	8980	8540
	5	-15.0	9150	8940	8720	8460	8150	7780
Compressor Model: ZS13KAE	40	4.4	21100	20400	19700	18800	17900	16800
	35	1.7	19100	18500	17800	17100	16200	15300
	30	-1.1	17300	16700	16100	15500	14700	13800
	25	-3.9	15600	15200	14600	14000	13300	12600
	20	-6.7	14100	13700	13200	12700	12200	11400
	15	-9.4	12700	12400	12000	11500	11000	10400
	10	-12.2	11400	11100	10800	10500	10000	9500
	5	-15.0	10300	10100	9830	9510	9130	8670
Compressor Model: ZS15KAE	40	4.4	24500	23700	22700	21600	20500	19100
	35	1.7	22400	21500	20700	19700	18600	17500
	30	-1.1	20300	19600	18800	17900	17000	15900
	25	-3.9	18400	17800	17100	16300	15400	14500
	20	-6.7	16600	16100	15500	14900	14000	13200
	15	-9.4	15100	14700	14100	13500	12800	12100
	10	-12.2	13600	13200	12800	12300	11800	11000
	5	-15.0	12300	12000	11600	11200	10700	10100

Shaded Area Restriction: 20°F Max Superheat

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Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZS19KAE	40	4.4	30000	29100	28200	27100	26000	24800
	35	1.7	26900	26200	25300	24300	23400	22300
	30	-1.1	24200	23500	22800	21900	21000	20100
	25	-3.9	21800	21200	20600	19900	19000	18100
	20	-6.7	19800	19100	18600	17900	17200	16300
	15	-9.4	17800	17300	16700	16200	15600	14900
	10	-12.2	16000	15600	15200	14700	14100	13500
	5	-15.0	14500	14100	13700	13300	12800	12300
Compressor Model: ZS21KAE †	40	4.4	40700	39300	38000	36500	35200	33600
	35	1.7	37200	36100	34800	33500	32100	30800
	30	-1.1	34100	33000	31800	30600	29300	28100
	25	-3.9	31100	30100	28900	27900	26600	25500
	20	-6.7	28200	27200	26200	25200	24100	23000
	15	-9.4	25500	24600	23700	22800	21700	20600
	10	-12.2	23000	22200	21300	20400	19400	18400
	5	-15.0	20600	19900	19000	18200	17300	16300
Compressor Model: ZS26KAE	40	4.4	44200	42600	41000	39200	37200	35200
	35	1.7	40200	38900	37300	35600	33800	31700
	30	-1.1	36600	35300	33800	32200	30500	28600
	25	-3.9	33200	31900	30600	29100	27500	25600
	20	-6.7	30000	28800	27600	26200	24600	23000
	15	-9.4	27000	26000	24900	23500	22000	20500
	10	-12.2	24200	23300	22300	21100	19800	18200
	5	-15.0	21700	20900	20000	18800	17600	16200
Compressor Model: ZS29KAE †	40	4.4	51600	49900	48200	46400	44600	42700
	35	1.7	47300	45800	44200	42500	40900	39100
	30	-1.1	43300	41800	40400	38900	37200	35700
	25	-3.9	39400	38100	36700	35400	33900	32300
	20	-6.7	35800	34500	33300	32000	30700	29200
	15	-9.4	32300	31200	30100	28800	27600	26200
	10	-12.2	29100	28100	27000	25900	24600	23400
	5	-15.0	26100	25200	24100	23100	21900	20700
Compressor Model: ZS33KAE	40	4.4	56200	54300	52300	50300	48400	46300
	35	1.7	51600	49800	48000	46200	44300	42300
	30	-1.1	47100	45600	43900	42200	40500	38600
	25	-3.9	43000	41500	40000	38500	36800	35000
	20	-6.7	39100	37800	36300	34800	33300	31700
	15	-9.4	35400	34100	32800	31400	30000	28500
	10	-12.2	31800	30700	29400	28200	26800	25400
	5	-15.0	28500	27500	26300	25200	23800	22500
Compressor Model: ZB38KCE †	40	4.4	62600	60300	57900	55600	53400	51000
	35	1.7	57300	55200	53000	51000	48800	46600
	30	-1.1	52300	50400	48500	46500	44500	42500
	25	-3.9	47600	45900	44100	42200	40500	38700
	20	-6.7	43300	41600	39900	38300	36600	34900
	15	-9.4	39100	37500	36100	34500	33000	31500
	10	-12.2	35200	33800	32300	31000	29500	28200
	5	-15.0	31400	30200	28800	27600	26200	25000
Compressor Model: ZB45KCE †	40	4.4	73700	71000	68200	65400	62700	59900
	35	1.7	67600	65100	62500	60000	57400	54900
	30	-1.1	61800	59500	57100	54800	52400	50100
	25	-3.9	56300	54200	52000	49900	47700	45600
	20	-6.7	51100	49200	47200	45200	43300	41300
	15	-9.4	46200	44400	42600	40800	39000	37100
	10	-12.2	41600	39900	38300	36600	34800	33200
	5	-15.0	37100	35700	34100	32600	31000	29400

Shaded Area Restriction: 20°F Max Superheat

† Available with Digital compressor (consult factory)

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# SELECTION CAPACITY DATA - SCROLL

TF - CONDENSING UNITS

## R448A R449A High Temperature (cont'd)

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: <b>ZB48KCE</b> Nominal Horsepower: <b>6.1</b> Points: 7	40	4.4	81400	78300	75200	72100	69000	65800
	35	1.7	74800	72000	69100	66100	63300	60400
	30	-1.1	68400	65800	63200	60500	57900	55200
	25	-3.9	62500	60100	57700	55200	52800	50300
	20	-6.7	56800	54600	52400	50100	47900	45700
	15	-9.4	51500	49400	47400	45300	43300	41200
	10	-12.2	46400	44500	42500	40700	38800	36900
	5	-15.0	41500	39700	38000	36200	34400	32800
	0	-17.8	36800	35300	33600	31900	30300	28700
	Compressor Model: <b>ZB57KCE</b> Nominal Horsepower: <b>7</b> Points: 8	40	4.4	99400	96000	92500	88800	85100
35		1.7	90900	87800	84700	81400	78000	74600
30		-1.1	83000	80200	77400	74500	71400	68300
25		-3.9	75500	73000	70400	67800	65100	62400
20		-6.7	68400	66200	64000	61700	59200	56800
15		-9.4	61900	59900	57800	55700	53600	51400
10		-12.2	55700	53900	52000	50100	48200	46200
5		-15.0	49900	48300	46500	44700	43000	41200
0		-17.8	44400	42800	41200	39600	38000	36200
Compressor Model: <b>ZB66K5E</b> Nominal Horsepower: <b>7.6</b> Points: 9		40	4.4	113000	109000	105000	101000	96800
	35	1.7	103000	100000	97000	93400	89300	84900
	30	-1.1	94400	91800	88900	85700	82100	78100
	25	-3.9	85900	83500	81000	78100	74900	71300
	20	-6.7	77800	75700	73400	70800	67900	64700
	15	-9.4	70100	68200	66100	63800	61200	58100
	10	-12.2	62900	61200	59200	57000	54500	51700
	5	-15.0	56300	54500	52500	50400	48000	45200
	0	-17.8	50000	48200	46200	44100	41700	39000

Shaded Area Restriction: 20°F Max Superheat

**R407C High Temperature**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h					Ambient Temperature	
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F	
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)	
Compressor Model: <b>ZB08KAE</b>	40	4.4	13000	12500	12000	11500	11000	10500	
	35	1.7	11900	11400	10900	10500	10100	9700	
	30	-1.1	10700	10400	9990	9610	9250	8890	
	25	-3.9	9760	9410	9080	8760	8430	8130	
	20	-6.7	8820	8520	8230	7950	7680	7400	
	15	-9.4	7940	7680	7430	7180	6950	6720	
	10	-12.2	7110	6880	6670	6460	6260	6070	
Nominal Horsepower: <b>0.9</b>	5	-15.0	6340	6150	5960	5770	5610	5450	
	0	-17.8	5630	5450	5280	5130	4980	4850	
Compressor Model: <b>ZS11KAE</b>	40	4.4	17800	17300	16800	16200	15700	15200	
	35	1.7	16300	15800	15400	14900	14400	14000	
	30	-1.1	14900	14500	14000	13600	13200	12800	
	25	-3.9	13500	13100	12800	12400	12000	11600	
	20	-6.7	12200	11900	11500	11200	10900	10500	
	15	-9.4	10900	10600	10400	10000	9720	9390	
	10	-12.2	9730	9470	9200	8920	8620	8310	
Nominal Horsepower: <b>1.1</b>	5	-15.0	8580	8340	8090	7830	7550	7250	
	0	-17.8	7470	7250	7020	6770	6500	6210	
Compressor Model: <b>ZS13KAE</b>	40	4.4	20700	20100	19600	18900	18300	17700	
	35	1.7	19000	18500	17900	17400	16800	16200	
	30	-1.1	17400	16800	16400	15900	15400	14900	
	25	-3.9	15800	15400	15000	14500	14000	13500	
	20	-6.7	14200	13900	13500	13100	12700	12300	
	15	-9.4	12800	12500	12200	11800	11300	10900	
	10	-12.2	11400	11100	10800	10400	10100	9700	
Nominal Horsepower: <b>1.5</b>	5	-15.0	10100	9800	9500	9170	8830	8480	
	0	-17.8	8780	8520	8230	7920	7600	7250	
Compressor Model: <b>ZB08KAE</b>	40	4.4	24200	23500	22800	22000	21300	20600	
	35	1.7	22400	21600	21000	20400	19700	19000	
	30	-1.1	20500	19900	19200	18600	18100	17500	
	25	-3.9	18600	18100	17600	17100	16400	15900	
	20	-6.7	16800	16400	15900	15400	14900	14400	
	15	-9.4	15200	14800	14400	13800	13400	12900	
	10	-12.2	13500	13200	12800	12400	11900	11400	
Nominal Horsepower: <b>0.9</b>	5	-15.0	12000	11600	11200	10800	10400	9970	
	0	-17.8	10400	10100	9740	9370	8960	8530	
Compressor Model: <b>ZS19KAE</b>	40	4.4	29500	28600	27800	26900	26100	25300	
	35	1.7	26900	26200	25400	24600	23900	23200	
	30	-1.1	24400	23800	23200	22500	21800	21100	
	25	-3.9	22200	21600	21000	20400	19800	19100	
	20	-6.7	20000	19400	18900	18400	17800	17300	
	15	-9.4	17900	17400	17000	16400	15900	15400	
	10	-12.2	15800	15500	15000	14600	14000	13600	
Nominal Horsepower: <b>2.5</b>	5	-15.0	13900	13600	13200	12800	12300	11900	
	0	-17.8	12200	11800	11400	11000	10600	10100	
Compressor Model: <b>ZS21KAE †</b>	40	4.4	38500	37400	36300	35200	34000	33000	
	35	1.7	35300	34300	33300	32200	31300	30300	
	30	-1.1	32100	31300	30400	29400	28600	27700	
	25	-3.9	29200	28400	27600	26700	25900	25100	
	20	-6.7	26300	25600	25000	24100	23400	22700	
	15	-9.4	23600	23000	22400	21600	21000	20300	
	10	-12.2	21000	20400	19900	19200	18500	17900	
Nominal Horsepower: <b>3</b>	5	-15.0	18500	18000	17400	16800	16200	15600	
	0	-17.8	16000	15600	15100	14600	13900	13300	
Compressor Model: <b>ZS26KAE</b>	40	4.4	42200	41000	39700	38500	37300	36000	
	35	1.7	38700	37600	36500	35400	34200	33100	
	30	-1.1	35400	34300	33400	32300	31300	30300	
	25	-3.9	32000	31200	30400	29400	28500	27600	
	20	-6.7	29000	28200	27400	26600	25700	24900	
	15	-9.4	26000	25300	24500	23800	23100	22300	
	10	-12.2	23100	22500	21800	21100	20400	19700	
Nominal Horsepower: <b>0.9</b>	5	-15.0	20400	19800	19100	18500	17900	17100	
	0	-17.8	17700	17200	16600	16000	15300	14600	

Shaded Area Restriction: 20°F Max Superheat

*table continues in next column ↗*

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h					Ambient Temperature	
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F	
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)	
Compressor Model: <b>ZS29KAE †</b>	40	4.4	47900	46600	45200	43800	42400	41100	
	35	1.7	43900	42600	41400	40200	38900	37600	
	30	-1.1	40000	38900	37900	36700	35600	34400	
	25	-3.9	36300	35400	34300	33400	32300	31200	
	20	-6.7	32800	31900	31000	30100	29100	28200	
	15	-9.4	29300	28600	27800	26900	26100	25200	
	10	-12.2	26100	25400	24600	23900	23100	22300	
Nominal Horsepower: <b>4</b>	5	-15.0	23000	22400	21600	20900	20200	19300	
	0	-17.8	20000	19300	18700	18100	17400	16500	
Compressor Model: <b>ZS33KAE</b>	40	4.4	52500	51000	49500	47900	46400	44800	
	35	1.7	48200	46800	45300	44000	42600	41200	
	30	-1.1	43900	42700	41500	40200	39000	37600	
	25	-3.9	39800	38800	37600	36600	35400	34200	
	20	-6.7	36000	35000	34000	33100	31900	30900	
	15	-9.4	32200	31400	30500	29600	28600	27600	
	10	-12.2	28700	28000	27100	26200	25400	24400	
Nominal Horsepower: <b>4.5</b>	5	-15.0	25300	24500	23800	23000	22200	21200	
	0	-17.8	22000	21300	20600	19900	19000	18100	
Compressor Model: <b>ZB38KCE †</b>	40	4.4	59600	57600	55600	53700	51700	49700	
	35	1.7	54500	52700	50900	49100	47200	45400	
	30	-1.1	49700	48000	46400	44700	43100	41400	
	25	-3.9	45100	43700	42200	40700	39100	37500	
	20	-6.7	41000	39600	38200	36800	35400	33900	
	15	-9.4	36900	35800	34400	33200	31800	30400	
	10	-12.2	33300	32100	31000	29700	28400	27100	
Nominal Horsepower: <b>5</b>	5	-15.0	29800	28700	27700	26400	25300	24000	
	0	-17.8	26500	25600	24500	23400	22300	21000	
Compressor Model: <b>ZB45KCE †</b>	40	4.4	71700	69300	66700	64200	61500	58800	
	35	1.7	65500	63200	60800	58400	56100	53600	
	30	-1.1	59600	57500	55300	53100	50900	48600	
	25	-3.9	54000	52000	50000	48000	46000	43900	
	20	-6.7	48700	46900	45000	43300	41400	39500	
	15	-9.4	43700	42000	40500	38800	37100	35600	
	10	-12.2	39000	37500	36100	34600	33300	31800	
Nominal Horsepower: <b>6</b>	5	-15.0	34600	33400	32100	30900	29700	28600	
	0	-17.8	30800	29600	28600	27600	26600	25700	
Compressor Model: <b>ZB48KCE</b>	40	4.4	75100	72400	69600	66700	63600	60500	
	35	1.7	68100	65600	63000	60400	57600	54800	
	30	-1.1	61400	59200	56800	54400	51900	49300	
	25	-3.9	55000	53000	50900	48700	46400	44000	
	20	-6.7	49100	47200	45200	43300	41200	38900	
	15	-9.4	43400	41700	39900	38100	36200	34100	
	10	-12.2	38100	36500	34900	33200	31400	29500	
Nominal Horsepower: <b>6.1</b>	5	-15.0	33200	31700	30200	28600	26900	25200	
	0	-17.8	28500	27100	25800	24200	22700	21100	
Compressor Model: <b>ZB57KCE</b>	40	4.4	93500	91000	88400	85700	83000	80100	
	35	1.7	85200	82900	80500	78000	75400	72800	
	30	-1.1	77500						

**R404A R507 Low Temperature**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZF03KAE Nominal Horsepower: 0.8 Points: 1	0	-17.8	5540	5310	5070	4840	4600	4360
	-5	-20.6	4940	4740	4530	4330	4120	3910
	-10	-23.3	4410	4230	4050	3870	3680	3500
	-15	-26.1	3930	3770	3620	3460	3300	3140
	-20	-28.9	3500	3370	3230	3100	2960	2820
	-25	-31.7	3120	3010	2900	2780	2660	2540
	-30	-34.4	2790	2690	2600	2500	2400	2290
Compressor Model: ZF04KAE Nominal Horsepower: 1 Points: 1.5	0	-17.8	7320	7020	6710	6400	6080	5770
	-5	-20.6	6560	6280	6000	5720	5440	5150
	-10	-23.3	5850	5600	5350	5100	4850	4590
	-15	-26.1	5200	4980	4750	4530	4300	4070
	-20	-28.9	4600	4410	4210	4010	3810	3610
	-25	-31.7	4070	3900	3730	3550	3380	3200
	-30	-34.4	3600	3450	3310	3150	3000	2850
Compressor Model: ZF05KAE Nominal Horsepower: 1.5 Points: 1.5	0	-17.8	8640	8280	7920	7550	7180	6800
	-5	-20.6	7810	7480	7160	6820	6490	6150
	-10	-23.3	7020	6730	6430	6140	5830	5520
	-15	-26.1	6280	6020	5760	5490	5220	4940
	-20	-28.9	5590	5360	5130	4890	4650	4400
	-25	-31.7	4960	4750	4550	4340	4120	3900
	-30	-34.4	4380	4200	4020	3840	3640	3450
Compressor Model: ZF07KAE Nominal Horsepower: 2 Points: 2	0	-17.8	12200	11600	11000	10400	9790	9150
	-5	-20.6	11100	10600	10100	9530	8960	8390
	-10	-23.3	10100	9670	9190	8690	8190	7670
	-15	-26.1	9190	8770	8340	7910	7460	7000
	-20	-28.9	8290	7920	7550	7160	6770	6360
	-25	-31.7	7440	7110	6780	6440	6100	5740
	-30	-34.4	6610	6330	6040	5740	5440	5120
Compressor Model: ZF08K4E Nominal Horsepower: 2.5 Points: 2.5	0	-17.8	15300	14600	14000	13300	12600	11900
	-5	-20.6	13900	13300	12800	12200	11500	10900
	-10	-23.3	12600	12100	11600	11100	10500	9930
	-15	-26.1	11400	11000	10500	10000	9530	9010
	-20	-28.9	10300	9880	9470	9040	8600	8140
	-25	-31.7	9200	8860	8500	8120	7730	7320
	-30	-34.4	8210	7900	7590	7250	6900	6540
Compressor Model: ZF09K4E Nominal Horsepower: 3 Points: 3	0	-17.8	16900	16200	15500	14700	13900	13200
	-5	-20.6	15400	14800	14100	13500	12800	12100
	-10	-23.3	14000	13500	12900	12300	11700	11000
	-15	-26.1	12700	12200	11700	11200	10600	10000
	-20	-28.9	11500	11000	10600	10100	9620	9110
	-25	-31.7	10300	9940	9540	9120	8680	8220
	-30	-34.4	9240	8900	8540	8170	7780	7380
Compressor Model: ZF11K4E Nominal Horsepower: 3.5 Points: 3	0	-17.8	20100	19100	18200	17200	16200	15200
	-5	-20.6	18400	17600	16700	15900	14900	14000
	-10	-23.3	16800	16100	15300	14500	13700	12900
	-15	-26.1	15300	14600	14000	13300	12500	11800
	-20	-28.9	13800	13300	12700	12100	11400	10700
	-25	-31.7	12500	12000	11400	10900	10300	9720
	-30	-34.4	11200	10700	10300	9800	9300	8760

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZF13K4E Nominal Horsepower: 4.5 Points: 4	0	-17.8	25100	24100	23000	21900	20800	19600
	-5	-20.6	22800	21900	20900	19900	18900	17800
	-10	-23.3	20600	19700	18900	18000	17000	16100
	-15	-26.1	18500	17700	17000	16200	15300	14500
	-20	-28.9	16600	15900	15200	14500	13800	13000
	-25	-31.7	14700	14100	13500	12900	12300	11700
	-30	-34.4	13000	12500	12000	11500	11000	10400
Compressor Model: ZF15K4E Nominal Horsepower: 5.5 Points: 4	0	-17.8	30900	29600	28300	27000	25600	24200
	-5	-20.6	28000	26900	25700	24500	23300	22000
	-10	-23.3	25300	24300	23300	22200	21100	20000
	-15	-26.1	22800	21900	21000	20100	19100	18100
	-20	-28.9	20500	19700	18900	18100	17200	16300
	-25	-31.7	18300	17600	16900	16200	15400	14700
	-30	-34.4	16300	15700	15100	14500	13800	13100
Compressor Model: ZF18K4E Nominal Horsepower: 6 Points: 5	0	-17.8	36100	34600	33100	31600	30000	28400
	-5	-20.6	32900	31600	30200	28900	27500	26000
	-10	-23.3	29800	28700	27500	26300	25100	23800
	-15	-26.1	27000	26000	24900	23900	22800	21700
	-20	-28.9	24300	23400	22500	21600	20600	19600
	-25	-31.7	21800	21000	20200	19400	18600	17700
	-30	-34.4	19400	18800	18100	17400	16700	15900
Compressor Model: ZF25K4E Nominal Horsepower: 7.5 Points: 6	0	-17.8	45300	43600	41800	40000	38100	36300
	-5	-20.6	41100	39500	37900	36300	34600	33000
	-10	-23.3	37200	35800	34300	32900	31400	29900
	-15	-26.1	33500	32200	31000	29700	28400	27100
	-20	-28.9	30100	29000	27800	26700	25600	24500
	-25	-31.7	26900	25900	25000	24000	23000	22100
	-30	-34.4	24000	23100	22300	21500	20700	19900
Compressor Model: ZF28K4E Nominal Horsepower: 8.5 Points: 7	0	-17.8	50400	48400	46400	44300	42200	40000
	-5	-20.6	45900	44000	42200	40300	38400	36500
	-10	-23.3	41600	39900	38300	36600	34900	33200
	-15	-26.1	37500	36100	34600	33100	31700	30200
	-20	-28.9	33800	32500	31200	29900	28600	27400
	-25	-31.7	30200	29100	28000	26900	25800	24700
	-30	-34.4	27000	26000	25100	24100	23200	22400
Compressor Model: ZF34K5E Nominal Horsepower: 10 Points: 8	0	-17.8	56500	54000	51500	48900	46200	43400
	-5	-20.6	51600	49400	47200	44800	42400	39900
	-10	-23.3	47000	45100	43000	41000	38800	36500
	-15	-26.1	42700	40900	39100	37300	35300	33300
	-20	-28.9	38500	37000	35400	33700	32000	30200
	-25	-31.7	34500	33200	31800	30300	28800	27200
	-30	-34.4	30800	29600	28300	27100	25700	24400

table continues in next column ↗

**R407A Low Temperature**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZF03KAE Nominal Horsepower: 0.8 Points: 1	0	-17.8	4830	4650	4470	4310	4150	4000
	-5	-20.6	4310	4150	4000	3850	3720	3590
	-10	-23.3	3830	3700	3570	3450	3340	3230
	-15	-26.1	3410	3300	3190	3090	2990	2900
	-20	-28.9	3030	2940	2850	2760	2680	2600
	-25	-31.7	2710	2630	2540	2470	2390	2330
	-30	-34.4	2420	2340	2270	2210	2140	2080
Compressor Model: ZF04KAE Nominal Horsepower: 1 Points: 1.5	0	-17.8	6590	6350	6100	5850	5590	5320
	-5	-20.6	5840	5630	5410	5180	4950	4710
	-10	-23.3	5160	4960	4770	4570	4370	4170
	-15	-26.1	4530	4360	4190	4020	3840	3660
	-20	-28.9	3960	3810	3680	3530	3370	3210
	-25	-31.7	3470	3340	3210	3090	2960	2840
	-30	-34.4	3030	2930	2820	2720	2610	2500
Compressor Model: ZF05KAE Nominal Horsepower: 1.5 Points: 1.5	0	-17.8	7720	7430	7140	6850	6540	6240
	-5	-20.6	6860	6600	6340	6070	5810	5530
	-10	-23.3	6060	5830	5600	5370	5120	4880
	-15	-26.1	5320	5120	4910	4710	4500	4290
	-20	-28.9	4650	4480	4310	4130	3950	3760
	-25	-31.7	4060	3920	3760	3610	3450	3300
	-30	-34.4	3540	3410	3290	3160	3030	2900
Compressor Model: ZF07KAE Nominal Horsepower: 2 Points: 2	0	-17.8	11200	10700	10200	9740	9220	8660
	-5	-20.6	10100	9680	9250	8800	8330	7830
	-10	-23.3	9080	8730	8340	7940	7520	7080
	-15	-26.1	8150	7830	7500	7140	6760	6360
	-20	-28.9	7280	7000	6710	6390	6060	5700
	-25	-31.7	6470	6230	5960	5690	5390	5070
	-30	-34.4	5700	5490	5260	5010	4750	4450
Compressor Model: ZF08K4E Nominal Horsepower: 2.5 Points: 2.5	0	-17.8	14100	13500	13100	12600	12100	11400
	-5	-20.6	12600	12200	11800	11300	10800	10300
	-10	-23.3	11300	10900	10500	10100	9710	9270
	-15	-26.1	10100	9730	9390	9030	8650	8260
	-20	-28.9	8900	8620	8320	8000	7670	7320
	-25	-31.7	7830	7580	7320	7050	6750	6450
	-30	-34.4	6860	6640	6410	6160	5900	5640
Compressor Model: ZF09K4E Nominal Horsepower: 3 Points: 3	0	-17.8	15500	15000	14600	14100	13400	12800
	-5	-20.6	13700	13200	12800	12300	11800	11200
	-10	-23.3	12000	11700	11200	10800	10300	9820
	-15	-26.1	10500	10200	9850	9460	9040	8580
	-20	-28.9	9230	8940	8620	8280	7920	7500
	-25	-31.7	8060	7810	7540	7250	6930	6560
	-30	-34.4	7010	6790	6570	6330	6060	5750
Compressor Model: ZF11K4E Nominal Horsepower: 3.5 Points: 3	0	-17.8	18900	18300	17600	16900	16100	15100
	-5	-20.6	16600	16100	15500	14800	14100	13200
	-10	-23.3	14700	14200	13700	13000	12400	11700
	-15	-26.1	12900	12400	12000	11400	10800	10200
	-20	-28.9	11200	10900	10500	10000	9480	8890
	-25	-31.7	9850	9520	9170	8780	8330	7800
	-30	-34.4	8580	8310	8020	7700	7320	6880

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZF13K4E Nominal Horsepower: 4.5 Points: 4	0	-17.8	23000	22300	21500	20700	20000	19100
	-5	-20.6	20600	19800	19200	18500	17700	16900
	-10	-23.3	18300	17600	17000	16300	15600	14900
	-15	-26.1	16100	15500	14900	14300	13700	13000
	-20	-28.9	14200	13700	13000	12500	12000	11300
	-25	-31.7	12400	11900	11400	10900	10400	9860
	-30	-34.4	10800	10400	10000	9580	9140	8670
Compressor Model: ZF15K4E Nominal Horsepower: 5.5 Points: 4	0	-17.8	28100	27200	26300	25400	24400	23400
	-5	-20.6	25100	24400	23500	22600	21700	20800
	-10	-23.3	22400	21600	20800	20100	19200	18400
	-15	-26.1	19700	19100	18400	17600	16900	16100
	-20	-28.9	17400	16800	16200	15500	14800	14100
	-25	-31.7	15300	14800	14300	13700	13000	12300
	-30	-34.4	13500	13000	12600	12100	11400	10800
Compressor Model: ZF18K4E Nominal Horsepower: 6 Points: 5	0	-17.8	33200	32100	31100	30000	29000	27800
	-5	-20.6	29800	28900	27900	26900	25900	24900
	-10	-23.3	26600	25700	24900	23900	23000	22100
	-15	-26.1	23500	22800	22100	21200	20400	19400
	-20	-28.9	20800	20200	19400	18700	18000	17100
	-25	-31.7	18400	17700	17100	16500	15800	15000
	-30	-34.4	16200	15600	15100	14500	13900	13200
Compressor Model: ZF25K4E Nominal Horsepower: 7.5 Points: 6	0	-17.8	41400	40100	38700	37500	36100	34700
	-5	-20.6	37200	36000	34800	33500	32200	31000
	-10	-23.3	33100	32000	31000	29800	28700	27500
	-15	-26.1	29400	28500	27400	26500	25400	24300
	-20	-28.9	25900	25100	24300	23300	22400	21300
	-25	-31.7	22900	22100	21300	20500	19600	18700
	-30	-34.4	20200	19500	18800	18100	17300	16500
Compressor Model: ZF28K4E Nominal Horsepower: 8.5 Points: 7	0	-17.8	47700	46100	44500	42900	41300	39600
	-5	-20.6	42800	41400	40000	38500	37000	35400
	-10	-23.3	38200	37000	35600	34300	32900	31400
	-15	-26.1	33900	32800	31600	30300	29100	27700
	-20	-28.9	30000	29000	27900	26800	25600	24400
	-25	-31.7	26500	25500	24600	23600	22600	21400
	-30	-34.4	23400	22600	21700	20900	20000	18900
Compressor Model: ZF34K5E Nominal Horsepower: 10 Points: 8	0	-17.8	55800	53800	51800	49700	47500	45200
	-5	-20.6	50100	48300	46400	44500	42500	40300
	-10	-23.3	44700	43100	41400	39600	37700	35700
	-15	-26.1	39700	38200	36600	35100	33300	31400
	-20	-28.9	35000	33700	32300	30800	29200	27500
	-25	-31.7	30800	29600	28400	27000	25500	23900
	-30	-34.4	27100	26000	24900	23700	22400	20900

table continues in next column ↑

**R448A R449A Low Temperature**

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZF03KAE Nominal Horsepower: 0.8 Points: 1	0	-17.8	5090	4910	4740	4570	4400	4230
	-5	-20.6	4540	4390	4230	4080	3940	3800
	-10	-23.3	4050	3920	3790	3650	3530	3410
	-15	-26.1	3610	3500	3390	3280	3170	3070
	-20	-28.9	3220	3130	3030	2930	2850	2750
	-25	-31.7	2880	2790	2710	2630	2540	2460
	-30	-34.4	2560	2490	2420	2340	2270	2190
	-35	-37.2	2280	2220	2140	2070	2000	1930
	-40	-40.0	2020	1950	1880	1820	1740	1680
Compressor Model: ZF04KAE Nominal Horsepower: 1 Points: 1.5	0	-17.8	6900	6660	6420	6160	5910	5660
	-5	-20.6	6140	5920	5710	5490	5270	5040
	-10	-23.3	5440	5250	5060	4870	4670	4470
	-15	-26.1	4800	4630	4460	4290	4130	3960
	-20	-28.9	4210	4070	3930	3780	3630	3490
	-25	-31.7	3690	3570	3440	3320	3200	3080
	-30	-34.4	3220	3130	3020	2920	2810	2710
	-35	-37.2	2840	2750	2670	2580	2490	2400
	-40	-40.0	2510	2440	2360	2300	2230	2150
Compressor Model: ZF05KAE Nominal Horsepower: 1.5 Points: 1.5	0	-17.8	8070	7790	7510	7210	6920	6620
	-5	-20.6	7220	6970	6710	6450	6180	5910
	-10	-23.3	6420	6200	5960	5730	5500	5260
	-15	-26.1	5670	5480	5280	5070	4860	4650
	-20	-28.9	4990	4820	4640	4460	4280	4100
	-25	-31.7	4370	4220	4070	3920	3760	3600
	-30	-34.4	3810	3690	3560	3420	3290	3150
	-35	-37.2	3330	3210	3110	2990	2880	2760
	-40	-40.0	2910	2810	2720	2630	2530	2440
Compressor Model: ZF07KAE Nominal Horsepower: 2 Points: 2	0	-17.8	11600	11100	10600	10200	9720	9260
	-5	-20.6	10400	9990	9600	9190	8780	8370
	-10	-23.3	9330	8990	8640	8280	7930	7570
	-15	-26.1	8380	8090	7780	7480	7160	6840
	-20	-28.9	7510	7250	6980	6720	6450	6170
	-25	-31.7	6700	6480	6250	6020	5790	5550
	-30	-34.4	5940	5740	5550	5360	5160	4960
	-35	-37.2	5210	5040	4880	4700	4540	4360
	-40	-40.0	4490	4350	4200	4050	3910	3750
Compressor Model: ZF08K4E Nominal Horsepower: 2.5 Points: 2.5	0	-17.8	14800	14400	14000	13400	12900	12400
	-5	-20.6	13300	12900	12500	12100	11700	11200
	-10	-23.3	12000	11600	11200	10800	10500	10100
	-15	-26.1	10600	10300	10000	9690	9360	9000
	-20	-28.9	9460	9190	8900	8620	8320	8010
	-25	-31.7	8360	8130	7880	7620	7360	7100
	-30	-34.4	7360	7150	6930	6710	6480	6250
	-35	-37.2	6460	6270	6070	5870	5670	5460
	-40	-40.0	5640	5460	5280	5100	4920	4740
Compressor Model: ZF09K4E Nominal Horsepower: 3 Points: 3	0	-17.8	15800	15200	14800	14400	13900	13300
	-5	-20.6	14200	13900	13400	13000	12600	12200
	-10	-23.3	12800	12500	12200	11900	11400	11000
	-15	-26.1	11600	11200	11000	10700	10300	9950
	-20	-28.9	10300	10100	9860	9590	9280	8940
	-25	-31.7	9200	9010	8790	8550	8260	7950
	-30	-34.4	8140	7960	7770	7550	7290	6990
	-35	-37.2	7120	6960	6780	6570	6330	6040
	-40	-40.0	6140	6000	5820	5620	5380	5090
Compressor Model: ZF11K4E Nominal Horsepower: 3.5 Points: 3	0	-17.8	19300	18600	18000	17200	16500	15800
	-5	-20.6	17400	16800	16300	15600	14900	14300
	-10	-23.3	15600	15100	14600	14100	13400	12900
	-15	-26.1	14100	13500	13100	12600	12200	11700
	-20	-28.9	12500	12200	11800	11300	10900	10400
	-25	-31.7	11100	10800	10500	10100	9710	9310
	-30	-34.4	9900	9610	9300	8980	8650	8300
	-35	-37.2	8770	8510	8240	7960	7680	7370
	-40	-40.0	7740	7520	7280	7040	6780	6520

Scroll Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	°F	°C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: ZF13K4E Nominal Horsepower: 4.5 Points: 4	0	-17.8	24600	23700	22700	21700	20700	19600
	-5	-20.6	22100	21200	20400	19400	18500	17500
	-10	-23.3	19600	18900	18200	17300	16500	15600
	-15	-26.1	17400	16800	16100	15400	14700	14000
	-20	-28.9	15300	14800	14200	13700	13000	12500
	-25	-31.7	13400	12900	12500	12000	11600	11100
	-30	-34.4	11800	11300	10900	10600	10300	9940
	-35	-37.2	10200	9900	9630	9390	9180	8990
	-40	-40.0	8850	8650	8490	8370	8280	8240
Compressor Model: ZF15K4E Nominal Horsepower: 5.5 Points: 4	0	-17.8	30000	28900	27700	26500	25200	23900
	-5	-20.6	27000	25900	24900	23800	22800	21600
	-10	-23.3	24000	23200	22300	21400	20400	19400
	-15	-26.1	21400	20700	19800	19100	18300	17400
	-20	-28.9	19000	18400	17600	17000	16300	15500
	-25	-31.7	16800	16200	15600	15100	14500	14000
	-30	-34.4	14700	14300	13900	13300	12900	12500
	-35	-37.2	12900	12600	12200	11900	11600	11200
	-40	-40.0	11300	11000	10800	10500	10300	10100
Compressor Model: ZF18K4E Nominal Horsepower: 6 Points: 5	0	-17.8	35200	33800	32400	31100	29700	28200
	-5	-20.6	31700	30600	29400	28100	26900	25600
	-10	-23.3	28500	27400	26500	25400	24300	23200
	-15	-26.1	25400	24600	23700	22800	21800	21000
	-20	-28.9	22600	21800	21100	20400	19600	18900
	-25	-31.7	20000	19400	18800	18200	17600	17000
	-30	-34.4	17600	17100	16700	16200	15800	15300
	-35	-37.2	15400	15100	14700	14400	14100	13900
	-40	-40.0	13400	13200	13000	12800	12600	12500
Compressor Model: ZF25K4E Nominal Horsepower: 7.5 Points: 6	0	-17.8	44100	42600	41100	39400	37800	36100
	-5	-20.6	39600	38200	36800	35400	33900	32600
	-10	-23.3	35300	34000	32900	31600	30300	29200
	-15	-26.1	31400	30200	29200	28200	27200	26100
	-20	-28.9	27700	26900	25900	25100	24300	23500
	-25	-31.7	24500	23700	23000	22400	21700	21200
	-30	-34.4	21500	20900	20400	20000	19500	19200
	-35	-37.2	18900	18500	18100	17900	17600	17500
	-40	-40.0	16600	16400	16200	16100	16100	16200
Compressor Model: ZF28K4E Nominal Horsepower: 8.5 Points: 7	0	-17.8	50600	48700	46800	44900	43100	41200
	-5	-20.6	45500	43800	42100	40500	38900	37200
	-10	-23.3	40600	39200	37700	36300	34900	33500
	-15	-26.1	36100	35000	33700	32400	31300	30100
	-20	-28.9	32000	31000	29900	29000	28000	27100
	-25	-31.7	28200	27400	26600	25800	25200	24600
	-30	-34.4	24900	24300	23600	23100	22700	22400
	-35	-37.2	21900	21400	21100	20800	20600	20500
	-40	-40.0	19300	19100	18900	18900	18900	19100
Compressor Model: ZF34K5E Nominal Horsepower: 10 Points: 8	0	-17.8	55200	53300	51300	49400	47100	44900
	-5	-20.6	49900	48200	46400	44500	42600	40600
	-10	-23.3	44800	43400	41800	40100	38400	36600
	-15	-26.1	40100	38700	37400	35900	34400	32900
	-20	-28.9	35600	34400	33300	32000	30800	29400
	-25	-31.7	31500	30500	29400	28400	27300	26100
	-30	-34.4	27600	26700	25800	25000	24000	23200
	-35	-37.2	23900	23200	22500	21700	21000	20400
	-40	-40.0	20500	19800	19300	18800	18300	17700

table continues in next column ↗

# SELECTION CAPACITY DATA - SEMI-HERMETIC

# TF - CONDENSING UNITS

## R404A R507 High Temperature

Semi-Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature						
			85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)	
	°F	°C							
Compressor Model: <b>2DC3R53KE</b>	40	4.4	64100	60900	57800	54700	51600	48600	
	35	1.7	58800	55900	53000	50200	47400	44600	
	30	-1.1	53700	51100	48400	45800	43300	40700	
	25	-3.9	48900	46400	44100	41700	39300	37000	
	Nominal Horsepower: <b>5</b>	20	-6.7	44200	42000	39900	37700	35600	33500
		15	-9.4	39800	37800	35900	34000	32100	30200
		10	-12.2	35600	33900	32200	30400	28700	27000
	Points: 5.5	5	-15.0	31800	30200	28700	27100	25600	24100
		0	-17.8	28200	26800	25400	24100	22700	21400
Compressor Model: <b>2DD3R63KE</b>	40	4.4	73300	69700	66200	62600	59000	55400	
	35	1.7	67600	64300	61000	57800	54500	51200	
	30	-1.1	62000	59000	56100	53100	50100	47000	
	25	-3.9	56600	53900	51200	48500	45800	43000	
	Nominal Horsepower: <b>5.1</b>	20	-6.7	51500	49000	46500	44100	41600	39100
		15	-9.4	46500	44300	42100	39900	37600	35400
		10	-12.2	41800	39800	37800	35900	33900	31900
	Points: 6	5	-15.0	37400	35700	33900	32100	30400	28600
		0	-17.8	33400	31800	30200	28700	27100	25600
Compressor Model: <b>2DL3R78KE</b>	40	4.4	84200	80100	76000	72000	67900	63900	
	35	1.7	78000	74300	70500	66800	63100	59400	
	30	-1.1	72000	68500	65100	61700	58300	54900	
	25	-3.9	66100	63000	59900	56800	53700	50600	
	Nominal Horsepower: <b>7.5</b>	20	-6.7	60400	57600	54800	52000	49100	46300
		15	-9.4	54900	52400	49900	47300	44800	42300
		10	-12.2	49800	47500	45200	42900	40600	38300
	Points: 8	5	-15.0	44900	42800	40700	38700	36700	34600
		0	-17.8	40300	38400	36600	34800	32900	31100
Compressor Model: <b>2DA3R89KE</b>	40	4.4	105000	99800	94800	89900	85000	80200	
	35	1.7	96500	91900	87400	82900	78500	74000	
	30	-1.1	88600	84500	80400	76300	72200	68100	
	25	-3.9	81100	77400	73600	69900	66200	62500	
	Nominal Horsepower: <b>7.7</b>	20	-6.7	74000	70600	67200	63900	60500	57200
		15	-9.4	67300	64300	61200	58200	55100	52100
		10	-12.2	61000	58300	55500	52700	50000	47300
	Points: 9	5	-15.0	55100	52600	50100	47600	45100	42700
		0	-17.8	49500	47300	45100	42800	40500	38300
Compressor Model: <b>3DA3R10ME</b>	40	4.4	118000	112000	107000	101000	96100	90800	
	35	1.7	109000	104000	98900	94000	89200	84300	
	30	-1.1	100000	95700	91300	86900	82500	78100	
	25	-3.9	92000	87900	83900	80000	76000	72000	
	Nominal Horsepower: <b>8</b>	20	-6.7	84100	80400	76900	73300	69800	66200
		15	-9.4	76500	73300	70100	67000	63800	60600
		10	-12.2	69400	66500	63700	60900	58100	55200
	Points: 9	5	-15.0	62600	60100	57600	55200	52600	50000
		0	-17.8	56300	54100	51900	49700	47500	45100

## R407A High Temperature

Semi-Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature						
			85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)	
	°F	°C							
Compressor Model: <b>2DC3R53KE</b>	40	4.4	63800	61000	58300	55600	53000	50400	
	35	1.7	57500	55000	52600	50100	47700	45300	
	30	-1.1	51700	49400	47200	44900	42700	40700	
	25	-3.9	46300	44200	42200	40100	38200	36300	
	Nominal Horsepower: <b>5</b>	20	-6.7	41300	39400	37500	35800	34000	32200
		15	-9.4	36700	35000	33400	31700	30200	28600
		10	-12.2	32400	31000	29500	28100	26700	25400
	Points: 5.5	5	-15.0	28700	27400	26100	24900	23700	22500
		0	-17.8	25300	24100	23100	22000	21000	20100
Compressor Model: <b>2DD3R63KE</b>	40	4.4	71700	68600	65600	62700	59800	56900	
	35	1.7	64900	62200	59500	56800	54100	51400	
	30	-1.1	58700	56100	53600	51200	48700	46300	
	25	-3.9	52700	50400	48200	46000	43800	41600	
	Nominal Horsepower: <b>5.1</b>	20	-6.7	47200	45100	43200	41100	39200	37200
		15	-9.4	42100	40200	38500	36700	35000	33400
		10	-12.2	37400	35900	34300	32800	31300	29800
	Points: 6	5	-15.0	33300	31800	30500	29200	28000	26800
		0	-17.8	29500	28400	27200	26100	25200	24100
Compressor Model: <b>2DL3R78KE</b>	40	4.4	85300	81700	78300	74900	71400	68000	
	35	1.7	77800	74600	71400	68200	65100	61900	
	30	-1.1	70800	67900	65000	62100	59200	56300	
	25	-3.9	64400	61700	59100	56400	53800	51100	
	Nominal Horsepower: <b>7.5</b>	20	-6.7	58300	56000	53600	51200	48700	46300
		15	-9.4	52700	50500	48400	46200	44000	41800
		10	-12.2	47500	45600	43600	41700	39700	37800
	Points: 8	5	-15.0	42500	40900	39100	37300	35600	33800
		0	-17.8	38000	36400	34800	33300	31700	30200
Compressor Model: <b>2DA3R89KE</b>	40	4.4	105000	101000	96900	92800	88600	84400	
	35	1.7	95600	91700	88000	84100	80400	76500	
	30	-1.1	86400	83000	79600	76100	72700	69300	
	25	-3.9	77900	74800	71700	68500	65400	62300	
	Nominal Horsepower: <b>7.7</b>	20	-6.7	69900	67100	64300	61500	58700	55800
		15	-9.4	62500	60000	57500	54900	52400	49900
		10	-12.2	55600	53400	51200	48900	46600	44400
	Points: 9	5	-15.0	49300	47300	45300	43300	41300	39300
		0	-17.8	43600	41800	40000	38200	36400	34600
Compressor Model: <b>3DA3R10ME</b>	40	4.4	123000	118000	113000	108000	103000	98400	
	35	1.7	112000	108000	103000	98700	94300	90000	
	30	-1.1	102000	97900	93700	89500	85600	81600	
	25	-3.9	91900	88200	84400	80700	77100	73500	
	Nominal Horsepower: <b>8</b>	20	-6.7	82400	78900	75500	72200	68800	65600
		15	-9.4	73300	70200	67200	64200	61200	58200
		10	-12.2	65000	62200	59400	56600	53900	51300
	Points: 9	5	-15.0	57300	54800	52200	49700	47200	44800
		0	-17.8	50500	48300	45900	43600	41300	39100



**SELECTION CAPACITY DATA - SEMI-HERMETIC**

**TF - CONDENSING UNITS**

**R448A R449A High Temperature**

**R407C High Temperature**

Semi-Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: <b>2DC3R53KE</b>	40	4.4	65000	62300	59600	57000	54400	51700
	35	1.7	59000	56500	54100	51600	49200	46800
	30	-1.1	53200	51000	48800	46600	44300	42100
	25	-3.9	47900	45900	43800	41800	39800	37900
	20	-6.7	42800	41100	39200	37300	35600	33800
Nominal Horsepower: <b>5</b>	15	-9.4	38300	36600	34900	33300	31700	30200
	10	-12.2	33900	32400	31000	29500	28200	26700
	5	-15.0	30100	28700	27500	26200	25000	23800
Points: <b>5.5</b>	0	-17.8	26500	25400	24200	23200	22200	21100
	40	4.4	72900	69900	67000	64100	61000	-
	35	1.7	66500	63600	60900	58200	55500	-
Compressor Model: <b>2DD3R63KE</b>	30	-1.1	60200	57700	55200	52800	50300	47900
	25	-3.9	54400	52100	49900	47600	45400	43300
	20	-6.7	48900	46900	44800	42800	40900	39000
	15	-9.4	43800	41900	40100	38400	36700	34900
	10	-12.2	39100	37400	35900	34300	32900	31400
Nominal Horsepower: <b>5.1</b>	5	-15.0	34700	33400	32000	30700	29400	28200
	0	-17.8	30900	29700	28600	27500	26400	25500
	40	4.4	86500	83100	79700	76200	72800	69400
Compressor Model: <b>2DL3R78KE</b>	35	1.7	79400	76100	73000	69900	66800	63600
	30	-1.1	72500	69700	66800	64000	61000	58200
	25	-3.9	66100	63500	60900	58300	55700	53100
	20	-6.7	60000	57700	55300	53000	50600	48300
	15	-9.4	54300	52200	50100	47900	45900	43800
Nominal Horsepower: <b>7.5</b>	10	-12.2	48900	47000	45100	43300	41300	39400
	5	-15.0	43800	42100	40500	38700	37000	35300
	0	-17.8	39000	37400	36000	34400	32900	31300
Compressor Model: <b>2DA3R89KE</b>	40	4.4	107000	103000	99100	95000	90800	86600
	35	1.7	97900	94200	90500	86700	82900	79100
	30	-1.1	89000	85600	82300	78800	75400	72000
	25	-3.9	80500	77500	74500	71300	68200	65100
	20	-6.7	72600	69800	67100	64300	61500	58700
Nominal Horsepower: <b>7.7</b>	15	-9.4	65100	62600	60200	57600	55100	52600
	10	-12.2	58100	56000	53800	51500	49200	46900
	5	-15.0	51700	49700	47700	45800	43700	41700
Points: <b>9</b>	0	-17.8	45800	44000	42200	40500	38600	36800
	40	4.4	125000	120000	115000	110000	105000	-
	35	1.7	114000	110000	106000	101000	96900	92700
Compressor Model: <b>3DA3R10ME</b>	30	-1.1	105000	101000	96700	92700	88700	84700
	25	-3.9	95300	91600	88000	84200	80600	76900
	20	-6.7	86100	82800	79500	76000	72700	69300
	15	-9.4	77500	74500	71300	68200	65000	61800
	10	-12.2	69300	66500	63500	60600	57600	54600
Nominal Horsepower: <b>8</b>	5	-15.0	61700	59000	56300	53500	50600	47700
	0	-17.8	54600	52100	49500	46800	44000	41100

Semi-Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: <b>2DC3R53KE</b>	40	4.4	63100	60800	58700	56500	54500	52500
	35	1.7	56700	54500	52500	50500	48600	46700
	30	-1.1	50600	48700	46800	44900	43200	41500
	25	-3.9	45100	43400	41600	39800	38200	36600
	20	-6.7	40000	38400	36800	35300	33700	32200
Nominal Horsepower: <b>5</b>	15	-9.4	35500	33900	32400	31000	29600	28300
	10	-12.2	31300	30000	28600	27200	26000	24900
	5	-15.0	27600	26300	25200	24000	22900	21800
Points: <b>5.5</b>	0	-17.8	24300	23200	22200	21100	20200	19200
	40	4.4	71200	68800	66500	64100	61900	59700
	35	1.7	64200	61900	59600	57500	55400	53400
Compressor Model: <b>2DD3R63KE</b>	30	-1.1	57500	55400	53400	51400	49400	47500
	25	-3.9	51500	49500	47500	45700	43900	42200
	20	-6.7	45900	44000	42200	40600	38900	37400
	15	-9.4	40700	39000	37400	35900	34400	33100
	10	-12.2	36100	34500	33200	31800	30500	29200
Nominal Horsepower: <b>5.1</b>	5	-15.0	31900	30600	29300	28200	27000	26000
	0	-17.8	28300	27100	26100	25100	24000	23200
	40	4.4	85500	82700	80000	77300	74800	72300
Compressor Model: <b>2DL3R78KE</b>	35	1.7	77300	74700	72200	69700	67300	64900
	30	-1.1	69700	67300	64900	62600	60300	58200
	25	-3.9	62600	60300	58100	56100	54000	52100
	20	-6.7	56100	54000	52000	50100	48300	46600
	15	-9.4	50100	48300	46500	44700	43200	41600
Nominal Horsepower: <b>7.5</b>	10	-12.2	44700	43100	41500	39900	38600	37200
	5	-15.0	39800	38400	37000	35800	34600	33500
	0	-17.8	35500	34200	33200	32100	31200	30400
Compressor Model: <b>2DA3R89KE</b>	40	4.4	104000	101000	97300	94000	90800	87700
	35	1.7	94000	90900	87800	84800	81700	78800
	30	-1.1	84700	81700	78800	76000	73200	70600
	25	-3.9	75900	73200	70500	67900	65400	62900
	20	-6.7	67800	65300	62900	60500	58100	55800
Nominal Horsepower: <b>7.7</b>	15	-9.4	60400	58100	55800	53700	51600	49400
	10	-12.2	53600	51600	49500	47500	45600	43600
	5	-15.0	47400	45600	43700	41900	40000	38300
Points: <b>9</b>	0	-17.8	41900	40200	38500	36800	35200	33500
	40	4.4	119000	114000	110000	106000	102000	98400
	35	1.7	109000	105000	101000	97600	93800	90100
Compressor Model: <b>3DA3R10ME</b>	30	-1.1	99100	95700	92200	88800	85400	81800
	25	-3.9	89900	86800	83700	80500	77300	73900
	20	-6.7	81100	78300	75400	72500	69400	66200
	15	-9.4	72900	70300	67600	64800	61900	58800
	10	-12.2	65200	62800	60200	57500	54700	51600
Nominal Horsepower: <b>8</b>	5	-15.0	58000	55700	53400	50600	47800	44700
	0	-17.8	51500	49300	46800	44100	41200	38100

# SELECTION CAPACITY DATA - SEMI-HERMETIC

# TF - CONDENSING UNITS

## R404A R507 Low Temperature

Semi-Hermetic Compressor Data	Saturated Suction Temp. °F °C	Selection Capacity BTU/h Ambient Temperature					
		85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)
		°F °C	°F °C	°F °C	°F °C	°F °C	°F °C
Compressor Model: <b>2DF3F16KE</b>	0 -17.8	36300	34500	32700	31000	29300	27500
	-5 -20.6	32500	30900	29300	27800	26200	24700
	-10 -23.3	29000	27500	26100	24700	23300	22000
	-15 -26.1	25600	24300	23100	21800	20600	19300
	-20 -28.9	22500	21400	20300	19100	18000	16900
	-25 -31.7	19700	18600	17600	16600	15600	14500
	-30 -34.4	17000	16100	15200	14200	13300	12300
	-35 -37.2	14600	13800	12900	12000	11100	10100
	-40 -40.0	12500	11600	10800	9920	9020	8080
	Nominal Horsepower: 3.5 Points: 4						
Compressor Model: <b>2DL3F20KE</b>	0 -17.8	40600	38600	36700	34800	32800	30900
	-5 -20.6	36500	34800	33000	31300	29500	27700
	-10 -23.3	32700	31100	29500	27900	26300	24800
	-15 -26.1	29100	27700	26200	24800	23400	21900
	-20 -28.9	25700	24400	23100	21900	20600	19300
	-25 -31.7	22600	21400	20300	19100	17900	16800
	-30 -34.4	19600	18600	17500	16500	15500	14400
	-35 -37.2	16900	16000	15000	14100	13100	12100
	-40 -40.0	14400	13500	12700	11800	10900	9990
	Nominal Horsepower: 4 Points: 5						
Compressor Model: <b>2DB3F25KE</b>	0 -17.8	49600	47300	45000	42700	40400	38000
	-5 -20.6	44700	42700	40600	38500	36400	34300
	-10 -23.3	40100	38200	36400	34500	32700	30800
	-15 -26.1	35700	34100	32400	30800	29100	27400
	-20 -28.9	31600	30100	28700	27200	25700	24200
	-25 -31.7	27800	26400	25100	23800	22500	21200
	-30 -34.4	24200	23000	21800	20600	19400	18300
	-35 -37.2	20800	19700	18600	17600	16500	15500
	-40 -40.0	17700	16700	15700	14700	13800	12800
	Nominal Horsepower: 6 Points: 6						
Compressor Model: <b>3DA3F28KE</b>	0 -17.8	53900	51600	49200	46800	44400	41900
	-5 -20.6	48800	46700	44600	42400	40200	38000
	-10 -23.3	43900	42000	40100	38200	36200	34200
	-15 -26.1	39200	37500	35800	34100	32300	30500
	-20 -28.9	34800	33300	31800	30200	28600	26900
	-25 -31.7	30700	29400	28000	26600	25100	23500
	-30 -34.4	26900	25700	24500	23100	21800	20300
	-35 -37.2	23500	22400	21200	20000	18600	17200
	-40 -40.0	20400	19300	18200	17000	15700	14300
	Nominal Horsepower: 6.1 Points: 6.5						
Compressor Model: <b>3DB3F33KE</b>	0 -17.8	61400	58700	56000	53400	50700	-
	-5 -20.6	55700	53300	50900	48500	46200	-
	-10 -23.3	50300	48100	46000	43900	41800	39700
	-15 -26.1	45100	43200	41300	39400	37500	35600
	-20 -28.9	40300	38600	36800	35100	33400	31600
	-25 -31.7	35700	34200	32600	31000	29400	27800
	-30 -34.4	31400	30000	28600	27100	25600	24100
	-35 -37.2	27400	26100	24800	23400	22000	20600
	-40 -40.0	23700	22500	21200	19900	18500	17100
	Nominal Horsepower: 7.5 Points: 8						
Compressor Model: <b>3DF3F40KE</b>	0 -17.8	79000	75600	72300	69000	65600	62300
	-5 -20.6	71200	68300	65300	62300	59300	56300
	-10 -23.3	63900	61300	58600	55900	53300	50600
	-15 -26.1	57000	54700	52300	49900	47500	45100
	-20 -28.9	50600	48500	46400	44200	42100	39900
	-25 -31.7	44600	42700	40800	38900	37000	35000
	-30 -34.4	39000	37300	35600	33900	32200	30400
	-35 -37.2	33900	32400	30800	29300	27600	26000
	-40 -40.0	29300	27900	26400	24900	23400	21900
	Nominal Horsepower: 9 Points: 9						

## R407A Low Temperature

Semi-Hermetic Compressor Data	Saturated Suction Temp. °F °C	Selection Capacity BTU/h Ambient Temperature					
		85°F (29.4°C)	90°F (32.2°C)	95°F (35°C)	100°F (37.8°C)	105°F (40.6°C)	110°F (43.3°C)
		°F °C	°F °C	°F °C	°F °C	°F °C	°F °C
Compressor Model: <b>2DF3F16KE</b>	0 -17.8	31100	29600	28100	26800	25400	24000
	-5 -20.6	27000	25700	24500	23200	21900	20700
	-10 -23.3	23400	22300	21100	20000	18900	17900
	-15 -26.1	20300	19200	18200	17200	16200	15200
	-20 -28.9	17400	16500	15500	14700	13900	12900
	-25 -31.7	14800	14100	13200	12400	11700	10900
	-30 -34.4	12500	11800	11000	10300	9640	8960
	-35 -37.2	10300	9650	8990	8350	7710	7090
	-40 -40.0	8210	7590	6980	6370	5790	5210
	Nominal Horsepower: 3.5 Points: 4						
Compressor Model: <b>2DL3F20KE</b>	0 -17.8	35700	34100	32600	31000	29300	27600
	-5 -20.6	31600	30100	28700	27200	25700	24200
	-10 -23.3	27600	26400	25100	23700	22400	21000
	-15 -26.1	24000	22900	21600	20500	19300	18100
	-20 -28.9	20600	19500	18500	17400	16400	15300
	-25 -31.7	17500	16600	15600	14700	13800	12800
	-30 -34.4	14600	13800	12900	12200	11300	10600
	-35 -37.2	12000	11200	10500	9880	9230	8590
	-40 -40.0	9570	8960	8380	7840	7330	6840
	Nominal Horsepower: 4 Points: 5						
Compressor Model: <b>2DB3F25KE</b>	0 -17.8	43900	42100	40300	38500	36500	34700
	-5 -20.6	38600	37100	35400	33700	31900	30100
	-10 -23.3	33900	32300	30900	29300	27700	26100
	-15 -26.1	29600	28100	26800	25400	24000	22600
	-20 -28.9	25600	24400	23100	21800	20600	19300
	-25 -31.7	21900	20900	19700	18700	17600	16500
	-30 -34.4	18600	17600	16700	15800	14800	14000
	-35 -37.2	15400	14600	13900	13100	12300	11700
	-40 -40.0	12400	11800	11100	10500	9990	9460
	Nominal Horsepower: 6 Points: 6						
Compressor Model: <b>3DA3F28KE</b>	0 -17.8	49500	47300	45000	42800	40600	38400
	-5 -20.6	43600	41600	39600	37600	35500	33400
	-10 -23.3	38200	36400	34500	32700	30800	28900
	-15 -26.1	33400	31700	29900	28200	26500	24700
	-20 -28.9	28900	27300	25700	24200	22500	20900
	-25 -31.7	24800	23300	21800	20400	18800	17200
	-30 -34.4	20900	19500	18200	16700	15200	13800
	-35 -37.2	17300	16100	14700	13300	11900	10400
	-40 -40.0	13900	12600	11300	9940	8560	7140
	Nominal Horsepower: 6.1 Points: 6.5						
Compressor Model: <b>3DB3F33KE</b>	0 -17.8	57400	55000	52700	50400	48100	-
	-5 -20.6	50900	48700	46400	44200	42100	-
	-10 -23.3	45000	42900	40800	38700	36600	34700
	-15 -26.1	39700	37700	35700	33700	31700	29800
	-20 -28.9	34800	32900	30900	29000	27100	25300
	-25 -31.7	30100	28400	26500	24700	22900	21100
	-30 -34.4	25700	24000	22300	20600	18800	17000
	-35 -37.2	21400	19800	18200	16500	14800	13100
	-40 -40.0	17200	15600	14100	12500	10800	9160
	Nominal Horsepower: 7.5 Points: 8						
Compressor Model: <b>3DF3F40KE</b>	0 -17.8	75500	72200	69000	65700	62400	59000
	-5 -20.6	66600	63600	60600	57500	54500	51500
	-10 -23.3	58400	55700	52900	50200	47400	44500
	-15 -26.1	50900	48400	45900	43400	40700	38100
	-20 -28.9	44100	41800	39500	37100	34700	32200
	-25 -31.7	37900	35700	33600	31300	29100	26800
	-30 -34.4	32100	30000	28000	25900	23700	21500
	-35 -37.2	26700	24700	22800	20700	18600	16500
	-40 -40.0	21400	19500	17600	15600	13700	11600
	Nominal Horsepower: 9 Points: 9						

**R448A R449A Low Temperature**

Semi-Hermetic Compressor Data	Saturated Suction Temp.		Selection Capacity BTU/h Ambient Temperature					
	° F	° C	85°F	90°F	95°F	100°F	105°F	110°F
			(29.4°C)	(32.2°C)	(35°C)	(37.8°C)	(40.6°C)	(43.3°C)
Compressor Model: <b>2DF3F16KE</b> Nominal Horsepower: <b>3.5</b> Points: <b>4</b>	0	-17.8	32400	31100	29600	28100	26800	25300
	-5	-20.6	28400	27000	25700	24500	23200	21900
	-10	-23.3	24600	23400	22300	21100	20000	18900
	-15	-26.1	21300	20300	19200	18200	17200	16200
	-20	-28.9	18400	17400	16500	15500	14700	13800
	-25	-31.7	15800	14900	14100	13200	12400	11700
	-30	-34.4	13400	12600	11900	11100	10400	9680
	-35	-37.2	11200	10600	9860	9170	8490	7840
	-40	-40.0	9260	8600	7940	7300	6670	6070
Compressor Model: <b>2DL3F20KE</b> Nominal Horsepower: <b>4</b> Points: <b>5</b>	0	-17.8	37300	35800	34100	32600	30900	29100
	-5	-20.6	33100	31600	30100	28700	27100	25500
	-10	-23.3	29000	27700	26400	25100	23600	22300
	-15	-26.1	25200	24000	22900	21600	20400	19100
	-20	-28.9	21700	20700	19600	18500	17400	16300
	-25	-31.7	18500	17500	16600	15600	14700	13800
	-30	-34.4	15600	14800	14000	13100	12300	11400
	-35	-37.2	13000	12300	11600	10800	10100	9450
	-40	-40.0	10800	10100	9490	8880	8320	7780
Compressor Model: <b>2DB3F25KE</b> Nominal Horsepower: <b>6</b> Points: <b>6</b>	0	-17.8	45700	43900	42100	40200	38300	36300
	-5	-20.6	40200	38600	37000	35200	33500	31700
	-10	-23.3	35400	33800	32300	30800	29200	27500
	-15	-26.1	31000	29500	28100	26700	25200	23700
	-20	-28.9	26900	25600	24400	23000	21700	20400
	-25	-31.7	23200	22100	20800	19600	18500	17300
	-30	-34.4	19700	18600	17500	16500	15400	14400
	-35	-37.2	16300	15300	14400	13400	12500	11600
	-40	-40.0	13000	12100	11100	10300	9510	8740
Compressor Model: <b>3DA3F28KE</b> Nominal Horsepower: <b>6.1</b> Points: <b>6.5</b>	0	-17.8	51700	49500	47100	44900	42600	40200
	-5	-20.6	45600	43600	41500	39400	37300	35100
	-10	-23.3	40000	38100	36200	34200	32300	30300
	-15	-26.1	34900	33200	31400	29600	27800	25900
	-20	-28.9	30200	28700	27000	25300	23600	21900
	-25	-31.7	26000	24600	23100	21500	20000	18400
	-30	-34.4	22300	20900	19500	18100	16600	15100
	-35	-37.2	19000	17600	16400	15000	13500	12200
	-40	-40.0	16100	14800	13500	12300	10900	9570
Compressor Model: <b>3DB3F33KE</b> Nominal Horsepower: <b>7.5</b> Points: <b>8</b>	0	-17.8	59900	57400	55000	52700	50400	48200
	-5	-20.6	53100	50800	48500	46300	44100	42000
	-10	-23.3	47000	44800	42600	40500	38400	36300
	-15	-26.1	41500	39400	37400	35300	33300	31300
	-20	-28.9	36400	34400	32400	30500	28600	26600
	-25	-31.7	31700	29800	27900	26000	24200	22300
	-30	-34.4	27300	25500	23600	21800	20100	18300
	-35	-37.2	23100	21400	19600	17900	16100	14400
	-40	-40.0	19100	17400	15800	14000	12300	10500
Compressor Model: <b>3DF3F40KE</b> Nominal Horsepower: <b>9</b> Points: <b>9</b>	0	-17.8	78900	75600	72200	69000	65500	62200
	-5	-20.6	69600	66600	63600	60500	57400	54300
	-10	-23.3	61100	58400	55700	52800	49900	47000
	-15	-26.1	53400	50900	48400	45800	43100	40300
	-20	-28.9	46500	44100	41700	39300	36800	34200
	-25	-31.7	40100	37900	35600	33300	31000	28600
	-30	-34.4	34300	32200	30000	27800	25600	23300
	-35	-37.2	29000	27000	24900	22800	20600	18400
	-40	-40.0	24000	22100	20100	18000	15900	13700

UNIT VOLTAGE	FLA PER FAN (Small Cabinet)		FLA PER FAN (Medium Cabinet)	
	PSC MOTOR	EC MOTOR	PSC MOTOR	EC MOTOR
208-230/1/60	2.1	3.0	3.6	6.0
460/3/60	1.1	1.4	1.7	3.0
575/3/60	0.9	N/A	1.4	N/A

OPTIONAL EQUIPMENT

Trenton EC Shafted Motors

EC SHAFTED MOTOR HIGHLIGHTS

- Energy Efficient
- Easy To Service
- Reduced Cost
- Lightweight
- Soft Starts
- Ideal for Retrofits
- Improved ROI

WHAT ARE EC SHAFTED MOTORS?

EC motors offer tremendous gains in efficiency, but have, until now, been part of a complex assembly. Motors were combined with the fan and housing, making them heavy and cumbersome to install or service.

Trenton’s shafted EC motors offer the best of both worlds - industry leading energy efficiency in a lightweight, modular design, that allows for unprecedented serviceability and retrofit opportunities. For the first time, the key benefits of EC motor technology - efficiency, reliability and soft starts - are available in a lightweight, convenient package for high horsepower applications.



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**High Temperature**

Nominal Horsepower	Compressor Model: No.	Power Supply	Compressor		Unit Connections				R404A		POINTS
					Suction (OD)		Liquid (OD)		Receiver Capacity 90% Full		
			RLA	LRA	Inches	mm	Inches	mm	Lbs.	Kgs	
0.6	RST45C2E-CFV	208-230/1/60	4.4	30.0	5/8	16	3/8	10	11.3	5.13	1
	CS10K6E-PFV	208-230/1/60	9.8	56.0	5/8	16	3/8	10	11.3	5.13	2
1.5	CS10K6E-TF5	208-230/3/60	6.7	51.0	5/8	16	3/8	10	14.0	6.35	2
	CS10K6E-TFD	460/3/60	3.2	25.0	5/8	16	3/8	10	14.0	6.35	2
2	CS12K6E-PFV	208-230/1/60	9.8	56.0	5/8	16	3/8	10	14.0	6.35	2
	CS12K6E-TF5	208-230/3/60	6.7	51.0	5/8	16	3/8	10	14.0	6.35	2
2.5	CS14K6E-PFV	208-230/1/60	11.2	61.0	7/8	22	1/2	13	24.0	10.89	2.5
	CS14K6E-TF5	208-230/3/60	8.2	55.0	7/8	22	1/2	13	24.0	10.89	2.5
	CS14K6E-TFD	460/3/60	4.2	28.0	7/8	22	1/2	13	24.0	10.89	2.5
3	CS18K6E-PFV	208-230/1/60	14.4	82.0	7/8	22	1/2	13	32.0	14.51	3.5
	CS18K6E-TF5	208-230/3/60	9.4	65.5	7/8	22	1/2	13	32.0	14.51	3.5
	CS18K6E-TFD	460/3/60	4.2	33.0	7/8	22	1/2	13	32.0	14.51	3.5
3.5	CS20K6E-PFV	208-230/1/60	16.7	96.0	7/8	22	1/2	13	32.0	14.51	3.5
	CS20K6E-TF5	208-230/3/60	10.2	75.0	7/8	22	1/2	13	32.0	14.51	3.5
	CS20K6E-TFD	460/3/60	4.6	40.0	7/8	22	1/2	13	32.0	14.51	3.5

**Low Temperature**

Nominal Horsepower	Compressor Model: No.	Power Supply	Compressor		Unit Connections				R404A		POINTS
					Suction (OD)		Liquid (OD)		Receiver Capacity 90% Full		
			RLA	LRA	Inches	mm	Inches	mm	Lbs.	Kgs	
0.8	RFT26C1E-CAV	208-230/1/60	5.8	35.5	1/2	13	3/8	10	11.3	5.13	1
1	CF04K6E-PFV	208-230/1/60	8.6	59.2	5/8	16	3/8	10	11.3	5.13	1
	CF04K6E-TF5	208-230/3/60	5.7	52.0	5/8	16	3/8	10	11.3	5.13	1
1.5	CF06K6E-PFV	208-230/1/60	10.3	59.2	7/8	22	3/8	10	11.3	5.13	2
	CF06K6E-TF5	208-230/3/60	6.3	52.0	7/8	22	3/8	10	11.3	5.13	2
2	CF06K6E-PFV	208-230/1/60	10.3	59.2	7/8	22	3/8	10	11.3	5.13	2
	CF06K6E-TF5	208-230/3/60	6.3	52.0	7/8	22	3/8	10	11.3	5.13	2
2.5	CF09K6E-PFV	208-230/1/60	15.0	87.0	7/8	22	3/8	10	24.0	10.89	2.5
	CF09K6E-TF5	208-230/3/60	9.2	72.2	7/8	22	3/8	10	24.0	10.89	2.5
	CF09K6E-TFD	460/3/60	4.9	35.8	7/8	22	3/8	10	24.0	10.89	2.5

**\* NOTE ON ALTERNATE REFRIGERANTS:**

\* PUBLISHED RECEIVER CAPACITY IS BASED ON **R404A** ON MODELS USING "8" AS REFRIGERANT CODE.  
 FOR ALTERNATE REFRIGERANTS, MULTIPLY **R404A** VALUE BY THE APPROPRIATE VALUE BELOW:

<b>R407A</b>	<b>R407C</b>	<b>R448A</b>	<b>R449A</b>	<b>R507</b>
1.10	1.10	1.05	1.05	1.00

High Temperature

Nominal Horsepower	Compressor Model: No.	Power Supply	Compressor		Unit Connections				R404A Receiver Capacity 90% Full *		POINTS
					Suction (OD)		Liquid (OD)		Lbs.	Kgs	
			RLA	LRA	Inches	mm	Inches	mm			
0.7	ZB06KAE-PFV	208-230/1/60	6.0	36.0	5/8	16	3/8	10	11.3	5.1	1
	ZB06KAE-TF5	208-230/3/60	4.8	37.8	5/8	16	3/8	10	11.3	5.1	1
0.8	ZB07KAE-PFV	208-230/1/60	6.3	48.0	5/8	16	3/8	10	11.3	5.1	1
	ZB07KAE-TF5	208-230/3/60	5.2	37.8	5/8	16	3/8	10	11.3	5.1	1
0.9	ZB08KAE-PFV	208-230/1/60	8.0	47.2	5/8	16	3/8	10	11.3	5.1	1
	ZB08KAE-TF5	208-230/3/60	5.3	37.8	5/8	16	3/8	10	11.3	5.1	1
1	ZS09KAE-PFV	208-230/1/60	10.0	40.3	5/8	16	3/8	10	14	6.4	1
	ZS09KAE-TF5	208-230/3/60	8.0	55.4	5/8	16	3/8	10	14	6.4	1
	ZS09KAE-TFD	460/3/60	3.8	28	5/8	16	3/8	10	14	6.4	1
1.1	ZS11KAE-PFV	208-230/1/60	12.6	55	5/8	16	3/8	10	14	6.4	2
	ZS11KAE-TF5	208-230/3/60	10.4	58	5/8	16	3/8	10	14	6.4	2
	ZS11KAE-TFD	460/3/60	4.3	28	5/8	16	3/8	10	14	6.4	2
1.5	ZS13KAE-PFV	208-230/1/60	12.0	56	7/8	22	3/8	10	14	6.4	2
	ZS13KAE-TF5	208-230/3/60	9.7	58	7/8	22	3/8	10	14	6.4	2
	ZS13KAE-TFD	460/3/60	4.8	29	7/8	22	3/8	10	14	6.4	2
	ZS13KAE-TFE	575/3/60	3.6	24.5	7/8	22	3/8	10	14	6.4	2
2	ZS15KAE-PFV	208-230/1/60	15.7	68	7/8	22	3/8	10	14	6.4	2
	ZS15KAE-TF5	208-230/3/60	10.6	58	7/8	22	3/8	10	14	6.4	2
	ZS15KAE-TFD	460/3/60	5.4	29	7/8	22	3/8	10	14	6.4	2
	ZS15KAE-TFE	575/3/60	3.9	24	7/8	22	3/8	10	14	6.4	2
2.5	ZS19KAE-PFV	208-230/1/60	18.0	75	7/8	22	1/2	13	24	10.9	2.5
	ZS19KAE-TF5	208-230/3/60	13.7	73	7/8	22	1/2	13	24	10.9	2.5
	ZS19KAE-TFD	460/3/60	6.5	38	7/8	22	1/2	13	24	10.9	2.5
	ZS19KAE-TFE	575/3/60	4.3	28	7/8	22	1/2	13	24	10.9	2.5
3 †	ZS21KAE-PFV	208-230/1/60	23.2	112	7/8	22	1/2	13	32	14.5	3.5
	ZS21KAE-TF5	208-230/3/60	15.2	93	7/8	22	1/2	13	32	14.5	3.5
	ZS21KAE-TFD	460/3/60	6.9	48	7/8	22	1/2	13	32	14.5	3.5
	ZS21KAE-TFE	575/3/60	5.8	33	7/8	22	1/2	13	32	14.5	3.5
3.5	ZS26KAE-PFV	208-230/1/60	23.6	104	7/8	22	1/2	13	32	14.5	3.5
	ZS26KAE-TF5	208-230/3/60	15.5	93	7/8	22	1/2	13	32	14.5	3.5
	ZS26KAE-TFD	460/3/60	6.9	48	7/8	22	1/2	13	32	14.5	3.5
	ZS26KAE-TFE	575/3/60	6.4	38	7/8	22	1/2	13	32	14.5	3.5
4 †	ZS29KAE-PFV	208-230/1/60	26.1	137	1 1/8	29	1/2	13	32	14.5	4
	ZS29KAE-TF5	208-230/3/60	20.5	114	1 1/8	29	1/2	13	32	14.5	4
	ZS29KAE-TFD	460/3/60	9.4	58	1 1/8	29	1/2	13	32	14.5	4
	ZS29KAE-TFE	575/3/60	5.8	43	1 1/8	29	1/2	13	32	14.5	4
4.5	ZS33KAE-PFV	208-230/1/60	25.6	146	1 1/8	29	1/2	13	32	14.5	4.5
	ZS33KAE-TF5	208-230/3/60	22.3	114	1 1/8	29	1/2	13	32	14.5	4.5
	ZS33KAE-TFD	460/3/60	10.0	52	1 1/8	29	1/2	13	32	14.5	4.5
	ZS33KAE-TFE	575/3/60	6.9	39.5	1 1/8	29	1/2	13	32	14.5	4.5
5 †	ZB38KCE-PFV	208-230/1/60	31.1	175	1 1/8	29	1/2	13	32	14.5	5
	ZB38KCE-TF5	208-230/3/60	22.1	128	1 1/8	29	1/2	13	32	14.5	5
	ZB38KCE-TFD	460/3/60	9.6	63	1 1/8	29	1/2	13	32	14.5	5
	ZB38KCE-TFE	575/3/60	7.1	50	1 1/8	29	1/2	13	32	14.5	5
6 †	ZB45KCE-TF5	208-230/3/60	22.5	156	1 1/8	29	5/8	16	54	24.5	6
	ZB45KCE-TFD	460/3/60	11.5	75	1 1/8	29	5/8	16	54	24.5	6
	ZB45KCE-TFE	575/3/60	7.9	54	1 1/8	29	5/8	16	54	24.5	6
6.1	ZB48KCE-TF5	208-230/3/60	25.4	164	1 1/8	29	5/8	16	54	24.5	7
	ZB48KCE-TFD	460/3/60	13.6	100	1 1/8	29	5/8	16	54	24.5	7
	ZB48KCE-TFE	575/3/60	10.1	78	1 1/8	29	5/8	16	54	24.5	7
7	ZB57KCE-TF5	208-230/3/60	35.5	224	1 3/8	35	5/8	16	76	34.5	8
	ZB57KCE-TFD	460/3/60	15.2	99	1 3/8	35	5/8	16	76	34.5	8
	ZB57KCE-TFE	575/3/60	11.6	82.4	1 3/8	35	5/8	16	76	34.5	8
7.6	ZB66K5E-TFC	208-230/3/60	39.3	225	1 3/8	35	5/8	16	76	34.5	9
	ZB66K5E-TFD	460/3/60	17.3	114	1 3/8	35	5/8	16	76	34.5	9
	ZB66K5E-TFE	575/3/60	14.3	80	1 3/8	35	5/8	16	76	34.5	9

† Available with Digital compressor (consult factory)

\* NOTE ON ALTERNATE REFRIGERANTS:

\* PUBLISHED RECEIVER CAPACITY IS BASED ON R404A ON MODELS USING "8" AS REFRIGERANT CODE.  
FOR ALTERNATE REFRIGERANTS, MULTIPLY R404A VALUE BY THE APPROPRIATE VALUE BELOW:

R407A	R407C	R448A	R449A	R507
1.10	1.10	1.05	1.05	1.00

**Low Temperature**

Nominal Horsepower	Compressor Model: No.	Power Supply	Compressor		Unit Connections				R404A		POINTS
					Suction (OD)		Liquid (OD)		Receiver Capacity 90% Full *		
			RLA	LRA	Inches	mm	Inches	mm	Lbs.	Kgs	
0.8	ZF03KAE-PFV	208-230/1/60	6.4	42.6	5/8	16	3/8	10	11.3	5.1	1
	ZF03KAE-TF5	208-230/3/60	4.1	31.7	5/8	16	3/8	10	11.3	5.1	1
1	ZF04KAE-PFV	208-230/1/60	7.4	40	5/8	16	3/8	10	11.3	5.1	1.5
	ZF04KAE-TF5	208-230/3/60	6.6	55	5/8	16	3/8	10	11.3	5.1	1.5
1.5	ZF05KAE-PFV	208-230/1/60	8.7	55	5/8	16	3/8	10	11.3	5.1	1.5
	ZF05KAE-TF5	208-230/3/60	7.5	58	5/8	16	3/8	10	11.3	5.1	1.5
2	ZF07KAE-PFV	208-230/1/60	13.9	75	7/8	22	3/8	10	14	6.4	2
	ZF07KAE-TF5	208-230/3/60	8.6	58	7/8	22	3/8	10	14	6.4	2
2.5	ZF08K4E-PFV	208-230/1/60	16.4	73	7/8	22	3/8	10	24	10.9	2.5
	ZF08K4E-TF5	208-230/3/60	9.6	63	7/8	22	3/8	10	24	10.9	2.5
	ZF08K4E-TFD	460/3/60	5.0	31	7/8	22	3/8	10	24	10.9	2.5
3	ZF09K4E-PFV	208-230/1/60	15.4	88	7/8	22	3/8	10	24	10.9	3
	ZF09K4E-TF5	208-230/3/60	9.9	77	7/8	22	3/8	10	24	10.9	3
	ZF09K4E-TFD	460/3/60	5.0	39	7/8	22	3/8	10	24	10.9	3
	ZF09K4E-TFE	575/3/60	4.3	31	7/8	22	3/8	10	24	10.9	3
3.5	ZF11K4E-PFV	208-230/1/60	20.7	109	7/8	22	1/2	13	24	10.9	3
	ZF11K4E-TF5	208-230/3/60	12.7	88	7/8	22	1/2	13	24	10.9	3
	ZF11K4E-TFD	460/3/60	6.4	44	7/8	22	1/2	13	24	10.9	3
	ZF11K4E-TFE	575/3/60	4.6	34	7/8	22	1/2	13	24	10.9	3
4.5	ZF13K4E-PFV	208-230/1/60	25.0	129	1 1/8	29	1/2	13	32	14.5	4
	ZF13K4E-TF5	208-230/3/60	13.8	99	1 1/8	29	1/2	13	32	14.5	4
	ZF13K4E-TFD	460/3/60	7.1	49.5	1 1/8	29	1/2	13	32	14.5	4
	ZF13K4E-TFE	575/3/60	7.1	40	1 1/8	29	1/2	13	32	14.5	4
5.5	ZF15K4E-PFV	208-230/1/60	27.9	169	1 1/8	29	1/2	13	32	14.5	4
	ZF15K4E-TF5	208-230/3/60	18.9	123	1 1/8	29	1/2	13	32	14.5	4
	ZF15K4E-TFD	460/3/60	8.9	62	1 1/8	29	1/2	13	32	14.5	4
	ZF15K4E-TFE	575/3/60	6.4	50	1 1/8	29	1/2	13	32	14.5	4
6	ZF18K4E-TF5	208-230/3/60	21.8	156	1 1/8	29	1/2	13	32	14.5	5
	ZF18K4E-TFD	460/3/60	9.0	75	1 1/8	29	1/2	13	32	14.5	5
	ZF18K4E-TFE	575/3/60	7.9	54	1 1/8	29	1/2	13	32	14.5	5
7.5	ZF25K4E-TF5	208-230/3/60	26.7	224	1 3/8	35	5/8	16	54	24.5	6
	ZF25K4E-TFD	460/3/60	11.9	99	1 3/8	35	5/8	16	54	24.5	6
	ZF25K4E-TFE	575/3/60	9.1	82.4	1 3/8	35	5/8	16	54	24.5	6
8.5	ZF28K4E-TFC	208-230/3/60	30.4	199	1 3/8	35	5/8	16	54	24.5	7
	ZF28K4E-TFD	460/3/60	14.4	121	1 3/8	35	5/8	16	54	24.5	7
	ZF28K4E-TFE	575/3/60	11.4	68.9	1 3/8	35	5/8	16	54	24.5	7
10	ZF34K5E-TFC	208-230/3/60	37.1	239	1 3/8	35	5/8	16	54	24.5	8
	ZF34K5E-TFD	460/3/60	17.9	100	1 3/8	35	5/8	16	54	24.5	8
	ZF34K5E-TFE	575/3/60	14.3	100	1 3/8	35	5/8	16	54	24.5	8

**\* NOTE ON ALTERNATE REFRIGERANTS:**

\* PUBLISHED RECEIVER CAPACITY IS BASED ON **R404A** ON MODELS USING "8" AS REFRIGERANT CODE.

FOR ALTERNATE REFRIGERANTS, MULTIPLY **R404A** VALUE BY THE APPROPRIATE VALUE BELOW:

<b>R407A</b>	<b>R407C</b>	<b>R448A</b>	<b>R449A</b>	<b>R507</b>
1.10	1.10	1.05	1.05	1.00

**High Temperature**

Nominal Horsepower	Compressor Model: No.	Power Supply	Compressor		Unit Connections				R404A Receiver Capacity 90% Full *		POINTS
					Suction (OD)		Liquid (OD)		Lbs.	Kgs	
			RLA	LRA	Inches	mm	Inches	mm			
5	2DC3R53KE-TFC	208-230/3/60	22.3	120	1 1/8	29	1/2	13	54	24.5	5.5
	2DC3R53KE-TFD	460/3/60	10.4	60	1 1/8	29	1/2	13	54	24.5	5.5
	2DC3R53KE-TFE	575/3/60	7.7	49	1 1/8	29	1/2	13	54	24.5	5.5
5.1	2DD3R63KE-TFC	208-230/3/60	22.3	120	1 1/8	29	1/2	13	54	24.5	6
	2DD3R63KE-TFD	460/3/60	10.5	60	1 1/8	29	1/2	13	54	24.5	6
	2DD3R63KE-TFE	575/3/60	7.9	49	1 1/8	29	1/2	13	54	24.5	6
7.5	2DL3R78KE-TFC	208-230/3/60	31.6	169	1 3/8	35	5/8	16	54	24.5	8
	2DL3R78KE-TFD	460/3/60	13.8	85	1 3/8	35	5/8	16	54	24.5	8
	2DL3R78KE-TFE	575/3/60	13.2	67	1 3/8	35	5/8	16	54	24.5	8
7.7	2DA3R89KE-TFC	208-230/3/60	32.0	169	1 3/8	35	5/8	16	76	34.5	9
	2DA3R89KE-TFD	460/3/60	14.1	85	1 3/8	35	5/8	16	76	34.5	9
	2DA3R89KE-TFE	575/3/60	13.3	67	1 3/8	35	5/8	16	76	34.5	9
8	3DA3R10ME-TFC	208-230/3/60	41.0	215	1 3/8	35	5/8	16	76	34.5	9
	3DA3R10ME-TFD	460/3/60	20.0	106	1 3/8	35	5/8	16	76	34.5	9
	3DA3R10ME-TFE	575/3/60	16.5	84	1 3/8	35	5/8	16	76	34.5	9

**Low Temperature**

Nominal Horsepower	Compressor Model: No.	Power Supply	Compressor		Unit Connections				R404A Receiver Capacity 90% Full *		POINTS
					Suction (OD)		Liquid (OD)		Lbs.	Kgs	
			RLA	LRA	Inches	mm	Inches	mm			
3.5	2DF3F16KE-TFC	208-230/3/60	16.0	102	1 1/8	29	1/2	13	32	14.5	4
	2DF3F16KE-TFD	460/3/60	7.9	52	1 1/8	29	1/2	13	32	14.5	4
	2DF3F16KE-TFE	575/3/60	6.7	41	1 1/8	29	1/2	13	32	14.5	4
4	2DL3F20KE-TFC	208-230/3/60	26.3	161	1 1/8	29	1/2	13	32	14.5	5
	2DL3F20KE-TFD	460/3/60	10.2	60	1 1/8	29	1/2	13	32	14.5	5
	2DL3F20KE-TFE	575/3/60	7.7	49	1 1/8	29	1/2	13	32	14.5	5
6	2DB3F25KE-TFC	208-230/3/60	28.2	161	1 1/8	29	1/2	13	54	24.5	6
	2DB3F25KE-TFD	460/3/60	13.3	80	1 1/8	29	1/2	13	54	24.5	6
	2DB3F25KE-TFE	575/3/60	9.6	63	1 1/8	29	1/2	13	54	24.5	6
6.1	3DA3F28KE-TFC	208-230/3/60	26.8	150	1 3/8	35	5/8	16	54	24.5	6.5
	3DA3F28KE-TFD	460/3/60	12.0	77	1 3/8	35	5/8	16	54	24.5	6.5
	3DA3F28KE-TFE	575/3/60	10.5	62	1 3/8	35	5/8	16	54	24.5	6.5
7.5	3DB3F33KE-TFC	208-230/3/60	30.7	161	1 3/8	35	5/8	16	54	24.5	8
	3DB3F33KE-TFD	460/3/60	15.7	83	1 3/8	35	5/8	16	54	24.5	8
	3DB3F33KE-TFE	575/3/60	11.0	67	1 3/8	35	5/8	16	54	24.5	8
9	3DF3F40KE-TFC	208-230/3/60	37.0	215	1 3/8	35	5/8	16	76	34.5	9
	3DF3F40KE-TFD	460/3/60	16.7	106	1 3/8	35	5/8	16	76	34.5	9
	3DF3F40KE-TFE	575/3/60	15.7	84	1 3/8	35	5/8	16	76	34.5	9

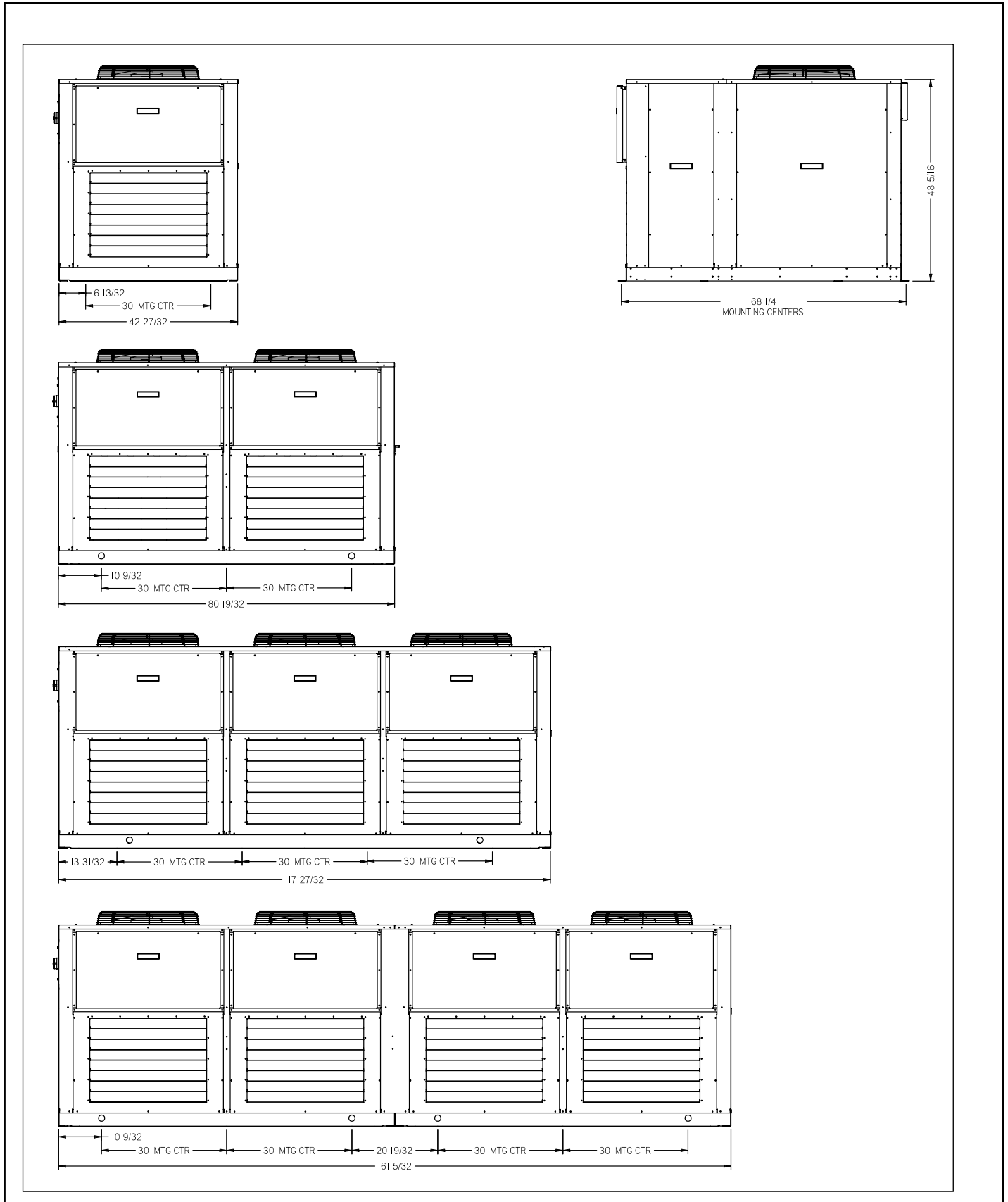
**\* NOTE ON ALTERNATE REFRIGERANTS:**

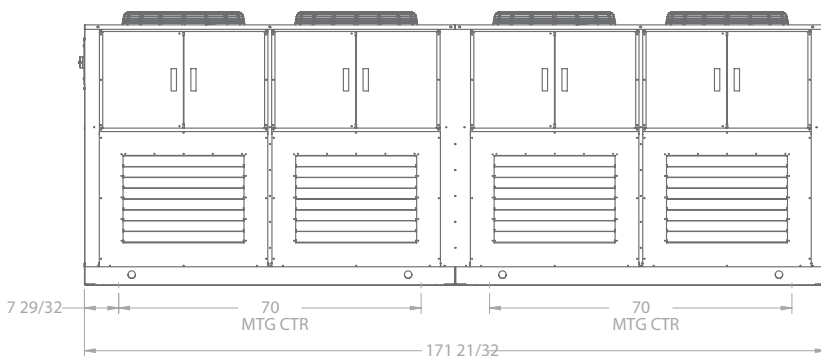
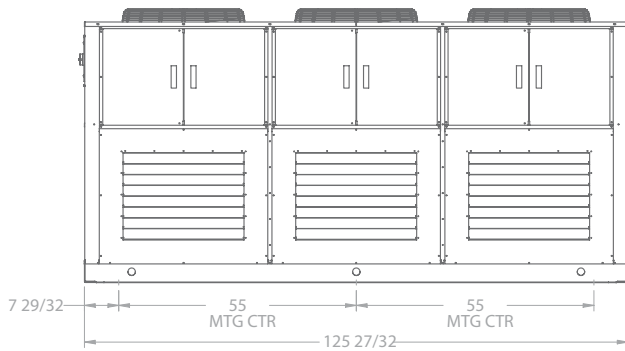
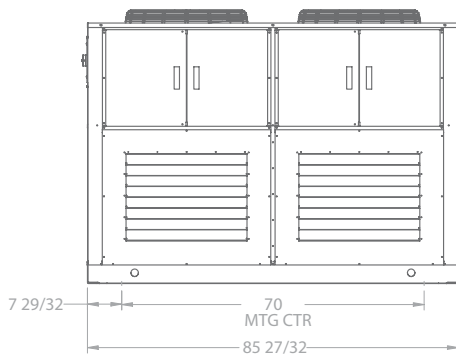
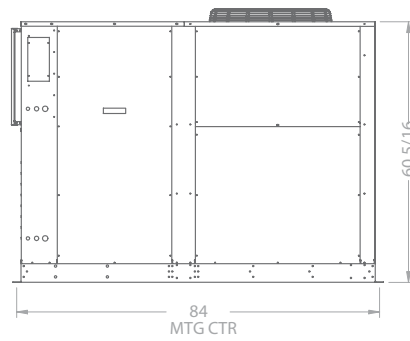
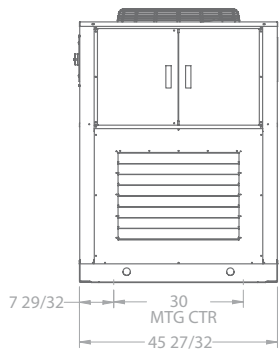
\* PUBLISHED RECEIVER CAPACITY IS BASED ON **R404A** ON MODELS USING "8" AS REFRIGERANT CODE.

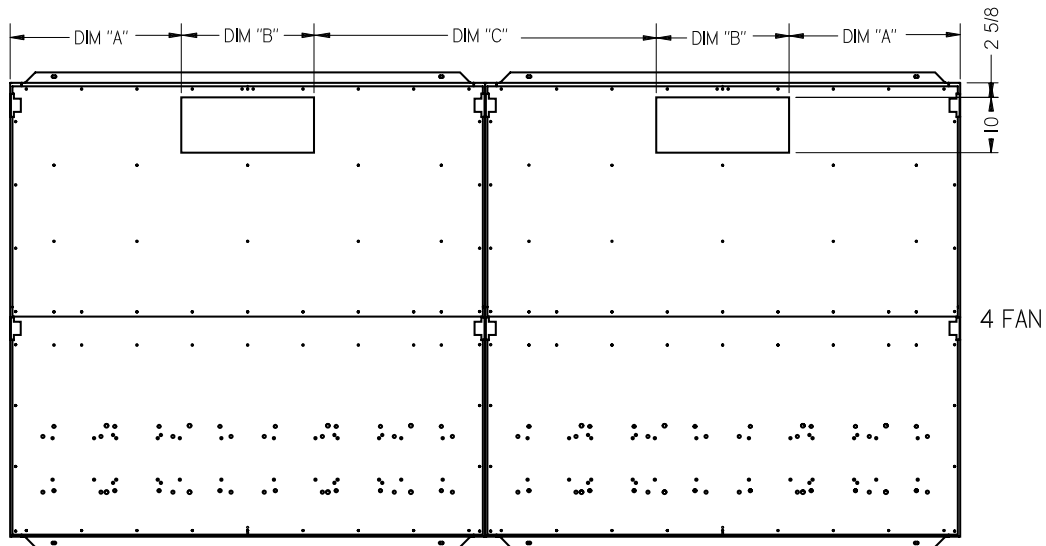
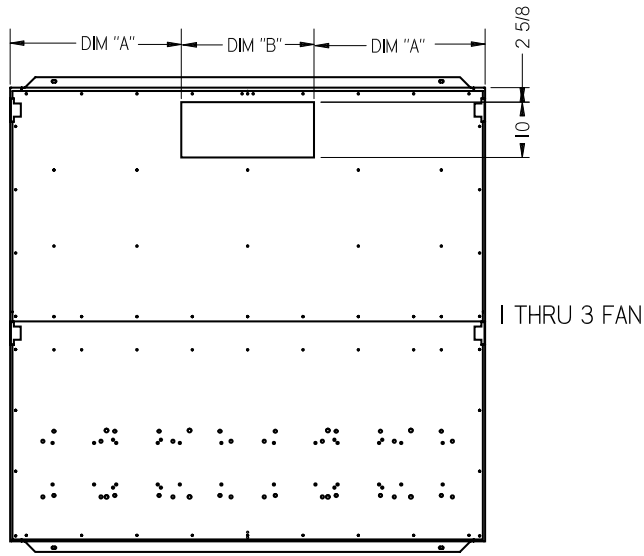
FOR ALTERNATE REFRIGERANTS, MULTIPLY **R404A** VALUE BY THE APPROPRIATE VALUE BELOW:

<b>R407A</b>	<b>R407C</b>	<b>R448A</b>	<b>R449A</b>	<b>R507</b>
1.10	1.10	1.05	1.05	1.00









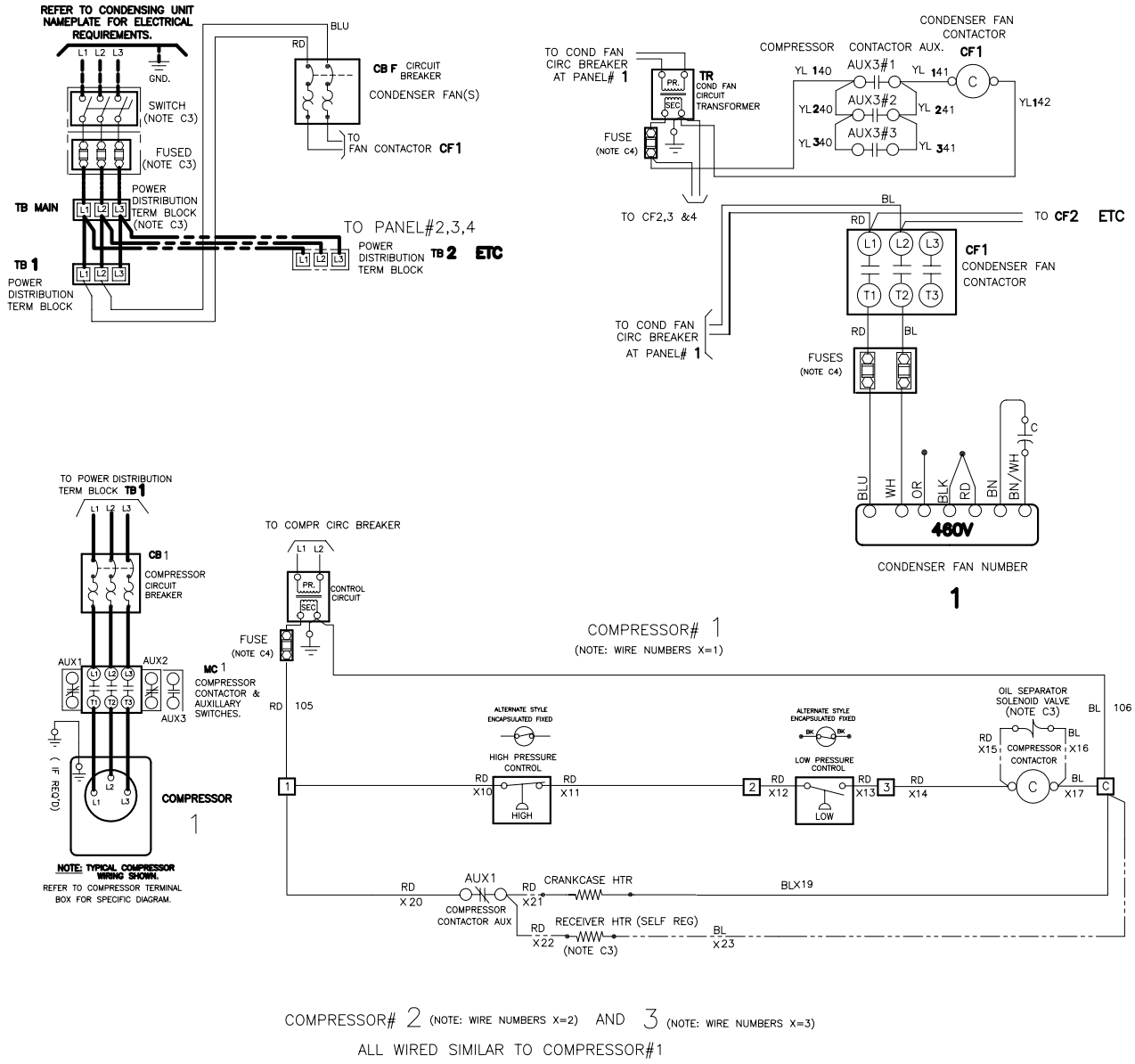
**SMALL CHASSIS**

	DIM "A"	DIM "B"	DIM "C"
1 FAN WIDE	15 13/32"	12"	N/A
2 FANS WIDE	28 9/32"	24"	N/A
3 FANS WIDE	44 5/32"	30"	N/A
4 FANS WIDE	28 9/32"	24"	56 19/32"

**MEDIUM CHASSIS**

	DIM "A"	DIM "B"	DIM "C"
1 FAN WIDE	16 29/32"	12"	N/A
2 FANS WIDE	30 29/32"	24"	N/A
3 FANS WIDE	47 29/32"	30"	N/A
4 FANS WIDE	30 29/32"	24"	61 27/32"

**CONDENSING UNIT WIRING DIAGRAM PANEL#1**      **COMPRESSOR#**  
 1    2    3      - 460-3-60Hz  
 - 230V CONTROL CIRCUIT



REVISIONS		DIAGRAM NUMBER	
DATE	LTR	T4A1A-	P.1 OF 2
APR2/08	A		

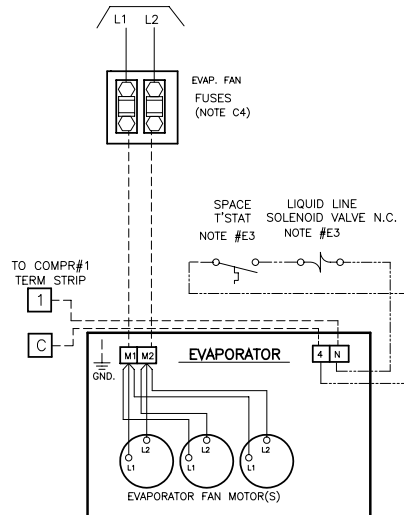
CONDENSING UNIT WIRING DIAGRAM PANEL #1

COMPRESSOR#  
1 2 3

- 460-3-60Hz  
- 230V CONTROL CIRCUIT

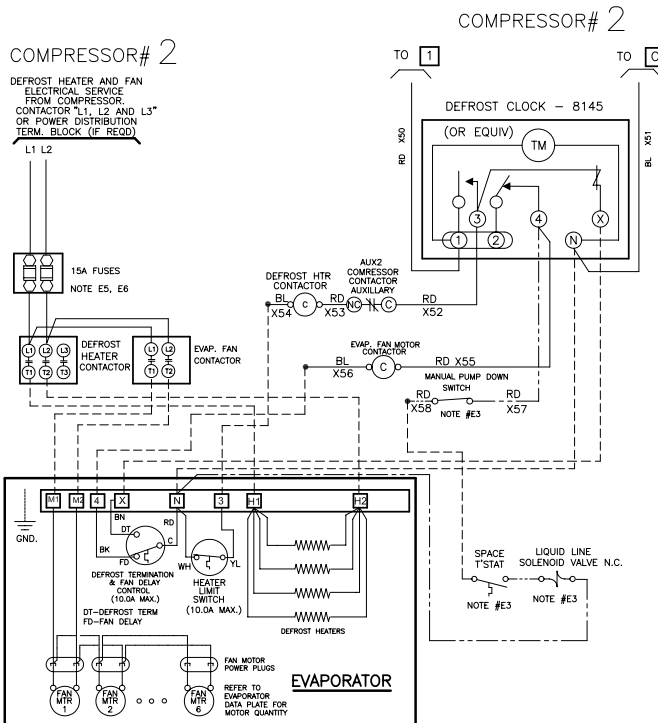
EVAPORATOR # 1

FAN MOTOR  
ELECTRICAL SERVICE  
FROM COMPRESSOR CONTACTOR  
"L1, AND L2"



EVAPORATOR # 2

(NOTE: WIRE NUMBERS X=2)



EVAPORATOR # 3

(NOTE: WIRE NUMBERS X=3)

ALL WIRED SIMILAR TO EVAP #1 OR #2

NOTES

- C1. USE COPPER CONDUCTORS ONLY
- C2. USE 75°C WIRE (OR HIGHER)
- C3. OPTIONAL COMPONENT
- C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONDUCTORS/WIRING

- FACTORY WIRING
- OPTIONAL WIRING
- WIRING BY OTHERS

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

REVISIONS	DATE	LTR	DIAGRAM NUMBER
	APR2/08	A	T4A1A- P.2 OF 2



# MULTI-COMPRESSOR AIR COOLED CONDENSING UNIT SPECIFICATION AND SUBMITTAL DRAWING WORKSHEET

**Unit Model Number\*\*:** \_\_\_\_\_ **Unit Voltage:** \_\_\_\_\_  
**Date:** \_\_\_\_\_ **Revision Level:** \_\_\_\_\_ **MCA:** \_\_\_\_\_  
**Project:** \_\_\_\_\_ **MOP:** \_\_\_\_\_

ITEM	DESCRIPTION	ROOM	COMPRESSOR DATA						EVAPORATOR COILS								
			COMPRESSOR MANU-FACTURER	QTY.	MODEL	HP	REF. TYPE	SST	BTUH	VOLTAGE	RLA	DEFROST	QTY.	COIL MODEL	FAN MOTORS VOLTAGE	FLA	DEFROST HEATERS VOLTAGE
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

ITEM	DESCRIPTION	RECEIVER CAPACITY		FIELD CONNECTIONS	
		LBS @ 90%		SUCTION	LIQUID
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

CONDENSER MOTOR AND BLADE DATA			
FAN QTY.	HP (each)	VOLTAGE	BLADE DIA.
	1/3		22"

**UNIT DIMENSIONS AND WEIGHT**

**Depth:** \_\_\_\_\_ **Width:** \_\_\_\_\_  
**Height:** \_\_\_\_\_ **Est. Weight (lbs.):** \_\_\_\_\_



MCA = Minimum Circuit Ampacity  
 MOP = Maximum Overcurrent Protection  
 \* Unit Model Number subject to change

  
PRODUCT SUPPORT

*web:* [www.t-rp.com/tf](http://www.t-rp.com/tf)  
*email:* [multicompcu@t-rp.com](mailto:multicompcu@t-rp.com)  
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