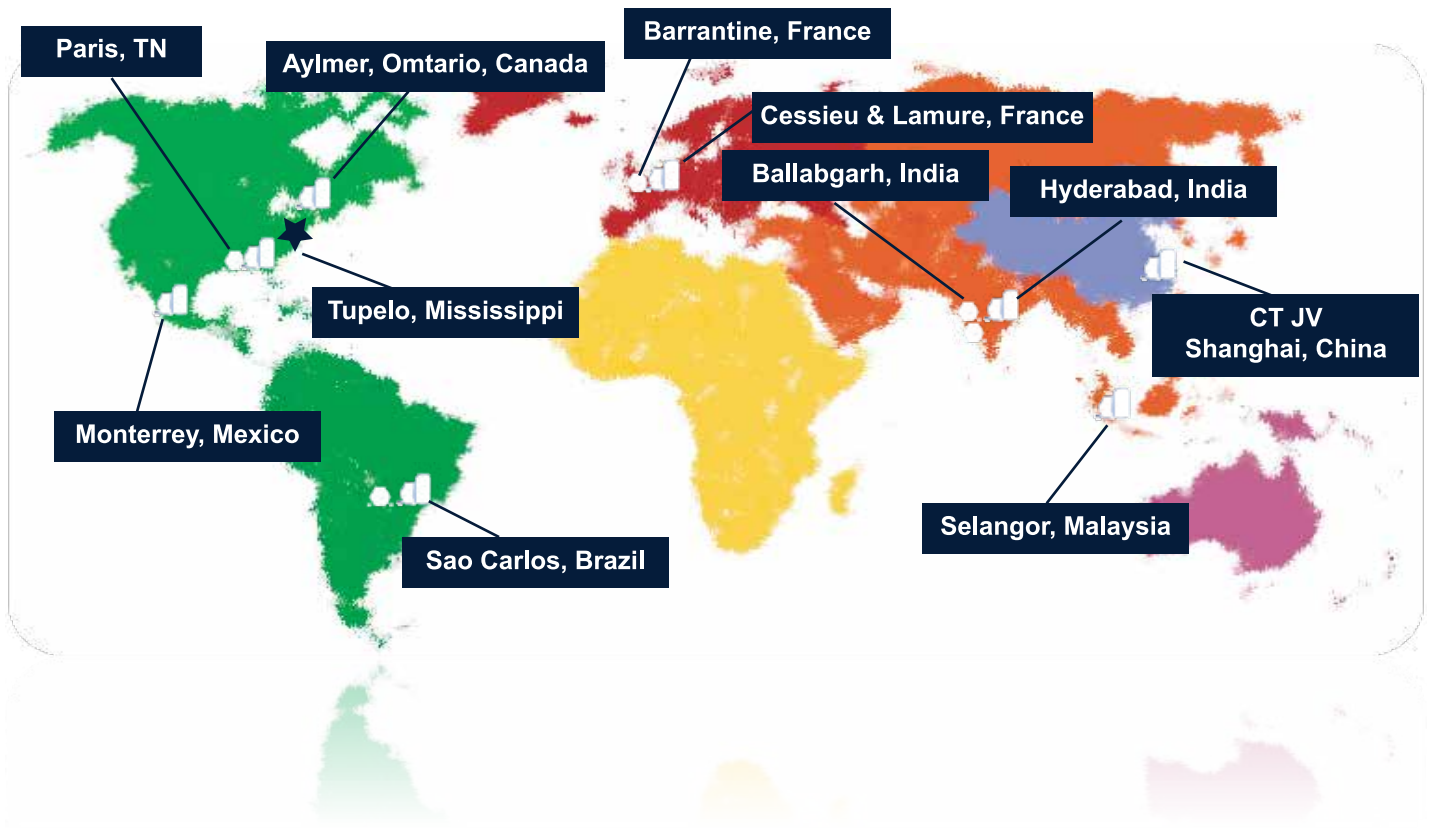


ABOUT TECUMSEH



★ World Headquarters
Ann Arbor, Michigan, USA

 Compressors

 Condensing Units



Demonstrated performance. Tecumseh Products Company is renowned for bringing an extra dimension of product innovation, customer reliance, and product quality to the air conditioning and refrigeration industry. As a result of our innovative spirit and product performance, people rely on our products every day. We literally touch the lives of millions.

Early beginnings. We developed the first “hermetic” compressor for consumer refrigerators in 1937. As the name Tecumseh became synonymous with commercial refrigeration and central home air conditioning, we expanded our product line to include automotive air conditioning compressors in 1953. Our reputation for innovation was further enhanced in 1959 when we developed the first high-speed hermetically-sealed compressor for commercial applications.

A focused company. Although our product manufacturing focus remains constant, Tecumseh has substantially invested in research and development engineering laboratories in North America, Europe, South American and India. We've also partnered with R&D facilities at universities throughout the globe. These facilities are not just responsible for engineering product solutions, but our university partners also provide Life Science Research on how our products interface with mankind and the environment.

Tecumseh innovation. Today, we engineer a full-line of hermetically-sealed compressors for residential and specialty air conditioning, home refrigerators and freezers, and commercial refrigeration. But our expertise doesn't stop there; we also offer a complete line of indoor and outdoor condensing units, evaporator coils, heat pumps, complete refrigeration systems and authorized spare parts.

Global products. Our products can be quickly accessed from manufacturing facilities on four continents when needed on a worldwide basis. We can provide coordination among our global facilities and your plant locations anywhere, so product selection, specifications and delivery of product are assured.

Unwavering commitment. Tecumseh has responded to the challenges of the refrigeration and air conditioning marketplace for over seven decades, leading the way with improved products and service in support of the industry we serve. A company-wide dedication to quality control has already earned Tecumseh the highest quality rating from major refrigeration and air conditioning manufacturers. And the people we employ are honoured to touch so many lives, in so many countries, every day.



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GENERAL INFORMATION

Rating Condition

Compressors

EN 12900

	Domestic Application	LBP	HP / MHBP	AC
Evaporating Temperature	- 25 °C	- 35 °C	- 10 °C	+ 5 °C
Condensing Temperature	+ 55 °C	+ 40 °C	+ 45 °C	+ 50 °C
Return Gas Temperature	+ 32 °C	+ 20 °C	+ 20 °C	+ 10 °C
Sub-cooling	0K	0K	0K	0K

ASHRAE

	Domestic Application	LBP	HP / MHBP	AC
Evaporating Temperature	- 23.3 °C	- 23.3 °C	- 6.7 °C	+ 7.2 °C
Condensing Temperature	+ 54.5 °C	+ 54.5 °C	+ 54.5 °C	+ 54.5 °C
Return Gas Temperature	+ 32 °C	+ 32 °C	+ 35 °C	+ 35 °C
Sub-cooling	0K	0K	0K	0K

Condensing Units

EN13215

	Domestic Application	LBP	HP / MHBP
Evaporating Temperature	- 25 °C	- 35 °C	- 10 °C
Condensing Temperature	+ 32 °C	+ 32 °C	+ 32 °C
Return Gas Temperature	+ 32 °C	+ 20 °C	+ 20 °C
Sub-cooling	3K	3K	3K

Unit Conversion

*For the conversion of the refrigeration capacity from watt at 50 Hz to:

Btu/hr at 50 Hz, use multiplying factor 3.41

Kcal/hr at 50 Hz, use multiplying factor 0.86

Conversion factor for obtaining the capacity in HP

- in medium and high back pressure and all air conditioning.
(Evap Temp: +7.2 °C, Cond Temp.: 54.5 °C)

$$HP = \frac{\text{Performance at 60 Hz in Btu/hr}}{12,000}$$

- in low back pressure
(Evap Temp: -23.3 °C, Cond Temp.: 54.5 °C)

$$HP = \frac{\text{Performance at 60 Hz in Btu/hr}}{4,000}$$

Voltage Code

Code	F	T	KS	GF	CG	CF	JF
Phase	1	3	1	3	1	1	1
50 Hz Rated (V)	220 - 240	400	220-240	400	230	230	230
Approved Range (V)	198 - 264	340 - 440	198-264	340-460	170-260	160-260	160-260
60 Hz Rated (V)	-	440	-	-	-	-	-
Approved Range (V)	-	396 - 499	-	-	-	-	-

Code	FS	JE	XC	XG	GE	GH
Phase	1	1	1	3	1	1
50 Hz Rated (V)	220	230	220-240	380-420	230	230
Approved Range (V)	180-242	180-260	198-264	342-462	180-264	187-264
60 Hz Rated (V)	-	-	-	460	-	-
Approved Range (V)	-	-	-	414-506	-	-

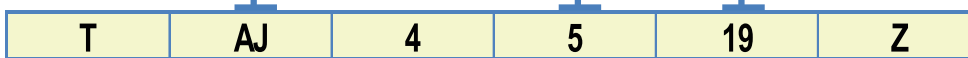
COMPRESSOR NOMENCLATURE

→ **Families**

TH - AE - AJ - FH - AG - HG - RG - RK - VS - TY - AW - AV

Number of figures making up the cooling power.
Example: 19 000 Btu/h

Corresponds to the first figures of the cooling power expressed in Btu/h at 60 Hz



→ **No letter** = Single phase low torque
C = Single phase high torque
T = Three phase

A, B, C or D = Coolant R-12
C = Coolant R-407c (Air conditioning)
E, F, G or H = Coolant R-22
M = Coolant R-600a
T = Coolant R-22 or R-502
U = Coolant R-290
W = Coolant R-407c / R-22
Y = Coolant R-134a
Z = Coolant R-404A or R-407B or R-507

→ **Application**

- 1 = Low evaporation pressure. Motor with normal starting torque
- 2 = Low evaporation pressure. Motor with high starting torque
- 3 = High evaporation pressure. Motor with normal starting torque
- 4 = High evaporation pressure. Motor with high starting torque
- 5 = Air conditioning
- 9 = Medium and high evaporation pressure. Motor with high starting torque
- 0 = Medium and high evaporation pressure. Motor with normal starting torque

CONDENSING UNIT NOMENCLATURE

→ **Families**

TH - AE - AJ - FH - AG - HG - RG - RK - VS - TY - AW - AV

Number of figures making up the cooling power.
Example: 19 000 Btu/h

Corresponds to the first figures of the cooling power expressed in Btu/h at 60 Hz

H = High inlet pressure (-15°C to +15°C)

B = Low inlet pressure (-40°C to -10°C)

M = Medium and high inlet pressure (-25°C to +15°C)



→ **No letter** = Single phase low torque
C = Single phase high torque
T = Three phase

No letter = with valves or brazed
Letter "R" = with receiver

A, B, C or D = Coolant R-12

C = Coolant R-407c (Air conditioning)

E, F, G or H = Coolant R-22

M = Coolant R-600a

T = Coolant R-22 or R-502

U = Coolant R-290

W = Coolant R-407c / R-22

Y = Coolant R-134a

Z = Coolant R-404A or R-407B or R-507

→ **Application**

1 = Low evaporation pressure. Motor with normal starting torque

2 = Low evaporation pressure. Motor with high starting torque

3 = High evaporation pressure. Motor with normal starting torque

4 = High evaporation pressure. Motor with high starting torque

5 = Air conditioning

9 = Medium and high evaporation pressure. Motor with high starting torque

0 = Medium and high evaporation pressure. Motor with normal starting torque

COMMERCIAL LOW TEMPERATURE REFRIGERATION

R-404A

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)							EN13215 (RTG 20 °C)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			F Voltage		T Voltage		Capacity (Watt)					
			-35 °C	-30 °C	-20 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-35 °C	-30 °C	-20 °C			
THB2360ZFFZ	1/5	3.40	86	115	190	1.1	1.5	-	-	-	-	-	1/4	3/16	-
THB2378ZFFZ	1/4	4.20	100	133	219	1.2	1.9	-	-	-	-	-	1/4	3/16	-
THB2396ZFFZ	1/3	5.20	131	172	277	1.4	2.1	-	-	-	-	-	1/4	3/16	-
AE2410Z-FZ	1/4	5.02	120	168	291	1.4	2.5	-	-	131	177	284	1/4	3/16	1/4
AE2415Z-FZ	3/8	6.69	194	260	429	1.9	3.0	-	-	199	255	381	1/4	3/16	1/4
AE2420Z-FZ	1/2	9.35	246	332	555	2.3	4.4	-	-	258	334	511	3/8	1/4	1/4
AE2425Z-FZ	5/8	12.01	329	441	723	2.3	4.2	-	-	343	442	669	3/8	1/4	1/4
CAJ/TAJ2428Z	7/10	15.20	306	434	773	3.3	5.1	1.1	2.1	330	440	699	1/2	1/4	1/4
CAJ/TAJ2432Z	3/4	18.30	381	542	971	2.5	6.3	1.2	2.2	388	516	801	1/2	5/16	1/4
CAJ2440Z	1	21.00	463	647	1,135	3.0	5.7	-	-	475	621	953	1/2	5/16	3/8
CAJ/TAJ2446Z	1	26.15	627	859	1,451	3.8	7.9	1.5	2.9	694	901	1,368	1/2	5/16	3/8
CAJ/TAJ2464Z	1 1/2	34.45	828	1,116	1,864	5.7	10.0	2.2	3.3	876	1,120	1,667	5/8	3/8	3/8
FH/TFH2480Z	2	53.20	1,093	1,580	2,775	7.2	16.0	2.8	6.3	1,176	1,570	2,390	5/8	1/2	3/8
FH/TFH2511Z	2 3/4	74.25	1,509	2,151	3,765	11.5	24.0	3.7	7.2	1,560	2,086	3,260	5/8	1/2	3/8
TAG2513Z	3 1/4	100.70	1,534	2,358	4,585	-	-	4.2	8.5	1,702	2,474	4,356	7/8	5/8	3/8
TAG2516Z	4	112.50	2,345	3,156	5,531	-	-	4.6	9.8	2,238	3,000	4,707	7/8	5/8	3/8
TAG2522Z	5 1/2	134.80	2,685	3,793	6,747	-	-	6.1	12.5	2,843	3,785	5,987	1"1/8	5/8	3/8
TAG2525Z	6 1/4	145.00	3,012	4,230	7,342	-	-	6.3	13.3	3,199	4,253	6,612	1"1/8	5/8	3/8

COMMERCIAL LOW TEMPERATURE REFRIGERATION

R-404A

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Condensing Unit			Diameter of Connection		
			ASHRAE								EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase			Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-35 °C	-30 °C	-20 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-35 °C	-30 °C			
TYA2431ZKS	3/4	18.80	238	441	952	3.6	-	-	-	-	-	-	3/8	1/4	-	
TYA2438ZKS	1	22.33	288	533	1,149	4.0	-	-	-	-	-	-	3/8	1/4	-	
TYA2446ZKS	1 1/3	26.00	361	668	1,440	4.5	-	-	-	-	-	-	3/8	1/4	-	

R-290

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)								EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase			Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C			
AE2410U-FZ	1/4	5.48	113	160	282	1.5	2.3	-	-	-	-	-	1/4	3/16	1/4	
AE2415U-FZ	3/8	8.85	183	256	434	1.9	2.9	-	-	-	-	-	1/4	3/16	1/4	
AE2420U-FZ	1/2	10.96	274	357	567	2.3	3.7	-	-	-	-	-	3/8	1/4	1/4	

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

R-404A

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)							EN13215 (RTG 20 °C)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)					
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C			
AE4425Z-FZ	1/5	4.24	362	446	593	1.8	2.8	-	-	397	464	564	1/4	3/16	1/4
THB4428ZFZ	1/8	5.00	439	528	677	2.9	3.3	-	-	-	-	-	1/4	3/16	1/4
AE4430Z-FZ	1/4	5.16	447	547	717	2.1	2.9	-	-	519	608	742	1/4	3/16	1/4
AE4440Z-FZ	1/3	6.69	603	737	968	2.7	3.7	-	-	708	829	1,014	3/8	1/4	1/4
AE4450Z-FZ	3/8	8.85	791	959	1,243	3.4	5.1	-	-	870	1,000	1,188	3/8	1/4	1/4
AE4460Z-FZ	1/2	10.33	952	1,144	1,469	4.3	5.9	-	-	915	1,028	1,191	3/8	1/4	1/4
AE4470Z-FZ	5/8	12.01	1,129	1,349	1,718	3.7	5.3	-	-	1,299	1,497	1,800	3/8	1/4	1/4
CAJ/TAJ9480Z	2/3	15.20	1,271	1,554	2,036	4.3	6.7	1.8	3.0	1,477	1,717	2,078	1/2	5/16	3/8
CAJ/TAJ9510Z	1	18.30	1,594	1,945	2,544	5.3	8.0	2.1	3.0	1,782	2,061	2,482	5/8	5/16	3/8
CAJ/TAJ9513Z	1 1/8	24.20	2,016	2,489	3,286	6.5	10.2	2.5	3.6	2,048	2,327	2,690	5/8	5/16	3/8
CAJ/TAJ4517Z	1 1/2	25.95	2,263	2,757	3,595	7.3	12.7	3.0	4.0	2,542	2,938	3,539	5/8	3/8	3/8
CAJ/TAJ4519Z	1 3/5	34.50	2,966	3,619	4,716	9.9	15.2	4.0	4.8	3,255	3,750	4,464	5/8	3/8	3/8
FH/TFH4522Z	1 4/5	39.90	2,970	3,734	5,036	9.7	16.0	3.9	5.4	3,314	3,869	4,686	5/8	1/2	3/8
FH/TFH4524Z	2	43.50	3,395	4,249	5,682	10.7	18.1	4.3	7.7	3,546	4,114	4,934	5/8	1/2	3/8
FH/TFH4531Z	2 3/5	56.60	4,505	5,573	7,266	14.1	22.4	5.3	9.0	5,221	6,117	7,443	7/8	1/2	1/2
FH/TFH4540Z	3 2/7	74.20	5,635	6,912	9,013	19.4	27.0	7.5	9.2	6,339	7,384	8,878	7/8	1/2	1/2
TAG4546Z	3 4/5	90.20	6,134	7,867	10,859	-	-	7.0	11.4	7,582	9,047	11,268	7/8	5/8	5/8
TAG4553Z	4 2/5	100.70	6,957	8,865	12,151	-	-	7.8	13.4	8,128	9,605	11,817	7/8	5/8	5/8
TAG4561Z	5	112.50	7,914	9,953	13,438	-	-	9.0	14.0	9,205	10,820	13,221	1"1/8	5/8	5/8
TAG4568Z	5 5/7	124.40	9,463	11,787	15,730	-	-	10.2	15.2	10,911	12,804	15,675	1"1/8	5/8	5/8
TAG4573Z	6	134.80	10,122	12,567	16,755	-	-	11.4	19.0	11,377	13,236	16,027	1"1/8	5/8	5/8
TAG4581Z	6 3/4	145.00	11,189	13,710	17,997	-	-	12.7	20.8	12,207	13,953	16,201	1"1/8	5/8	5/8

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

R-404A

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Condensing Unit			Diameter of Connection		
			ASHRAE							EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-12.2 °C	-6.7 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-35 °C	-30 °C	-20 °C			
TYA9456ZKS	1/2	19.00	1,057	1,435	2,579	6.3	-	-	-	-	-	-	3/8	1/4	-
TYA9472ZKS	5/8	22.30	1,294	1,757	3,158	6.2	-	-	-	-	-	-	3/8	1/4	-
TYA9486ZKS	3/4	26.00	1,537	2,086	3,750	7.6	-	-	-	-	-	-	3/8	1/4	-

R-22

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Condensing Unit			Diameter of Connection		
			ASHRAE							EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-6.7 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C			
AWS4515EGF	1 1/4	30.60	2,514	3,501	3,812	-	-	2.3	3.5	2,524	3,211	3,655	-	-	-
AWS4524EGF	2	43.26	3,259	4,299	5,718	-	-	3.4	4.2	3,199	3,999	5,522	-	-	-
AWS4532EGF	2 2/3	54.30	4,626	5,858	7,742	-	-	4.3	5.1	4,533	5,524	7,514	-	-	-
AWS4538EGF	3 1/6	63.00	5,212	7,125	9,355	-	-	5.4	6.3	5,165	6,812	9,124	-	-	-

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

R-22

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)								EN13215 (RTG 20 °C)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)						
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C				
AE4425E-FZ	1/5	4.24	366	457	612	1.7	2.8	-	-	-	-	-	1/4	3/16	1/4	
AE4430E-FZ	1/4	5.16	468	577	764	2.0	2.9	-	-	-	-	-	1/4	3/16	1/4	
AE4440E-FZ	1/3	6.69	603	744	989	2.4	3.5	-	-	-	-	-	3/8	1/4	1/4	
AE4450E-FZ	3/8	8.02	726	899	1,195	3.0	4.9	-	-	-	-	-	3/8	1/4	1/4	
AE4460E-FZ	1/2	10.33	952	1,176	1,534	3.7	5.4	-	-	-	-	-	3/8	1/4	1/4	
AE4470E-FZ	1/2	12.01	1,221	1,490	2,138	3.8	5.4	-	-	-	-	-	3/8	1/4	1/4	
CAJ/TAJ9480T	2/3	15.20	1,218	1,510	2,024	3.9	5.3	1.7	2.8	1,362	1,609	1,997	1/2	5/16	3/8	
CAJ/TAJ9510T	1	18.30	1,527	1,882	2,501	4.7	7.5	1.8	3.1	1,612	1,903	2,365	5/8	5/16	3/8	
CAJ/TAJ9513T	1 1/8	24.20	1,974	2,453	3,287	6.0	9.6	2.3	3.7	1,970	2,315	2,845	5/8	5/16	3/8	
CAJ4517E	1 1/2	25.95	2,293	2,826	3,670	6.1	10.0	-	-	2,450	2,916	3,667	5/8	3/8	3/8	
TAJ4517T	1 1/2	25.95	2,293	2,826	3,670	-	-	2.5	3.7	2,450	2,916	3,667	5/8	3/8	3/8	
TAJ4519T	1 4/7	34.50	3,076	3,731	4,791	-	-	3.5	4.2	3,124	3,693	4,578	5/8	3/8	3/8	
FH/TFH4522F	1 5/6	39.95	3,092	3,911	5,265	8.4	12.1	3.7	4.6	3,317	3,950	4,956	5/8	1/2	3/8	
FH/TFH4524F	2	43.50	3,401	4,281	5,769	9.6	13.8	3.9	4.9	3,476	4,156	5,222	5/8	1/2	3/8	
FH/TFH4531F	2 1/2	56.65	4,772	5,864	7,613	12.6	21.0	4.8	6.6	5,127	6,031	7,445	7/8	1/2	3/8	
TFH4540F	3 1/3	74.25	6,067	7,596	9,973	-	-	6.1	8.4	6,111	7,248	9,013	7/8	1/2	3/8	
TAG4546T	3 5/6	90.20	6,322	8,142	11,290	-	-	6.6	10.0	6,858	8,431	11,019	7/8	5/8	3/8	
TAG4553T	4 5/6	100.70	7,483	9,503	12,916	-	-	7.4	12.0	7,939	9,576	12,221	7/8	5/8	3/8	
TAG4561T	5	112.50	8,620	10,977	15,027	-	-	9.0	15.0	9,239	11,108	14,029	1"1/8	5/8	1/2	
TAG4568T	5 2/3	124.40	9,737	12,395	16,876	-	-	9.6	15.6	10,466	12,307	15,165	1"1/8	5/8	1/2	
TAG4573T	6 1/8	134.80	10,493	13,275	18,114	-	-	11.0	18.0	11,289	13,057	15,769	1"1/8	5/8	1/2	
TAG4581T	6 3/4	145.00	11,250	13,988	18,754	-	-	9.6	15.6	12,274	14,236	16,882	1"1/8	5/8	1/2	

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

R-290

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)								EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase			Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C				
AE4425U-FZ	1/5	5.02	395	483	630	1.6	2.2	-	-	-	-	-	1/4	3/16	1/4	
AE4430U-FZ	1/4	6.12	473	577	752	1.9	2.6	-	-	-	-	-	1/4	3/16	1/4	
AE4440U-FZ	1/3	8.02	620	748	966	2.4	3.3	-	-	-	-	-	3/8	1/4	1/4	
AE4450U-FZ	3/8	10.33	836	1,007	1,297	3.0	4.4	-	-	-	-	-	3/8	1/4	1/4	
AE4460U-FZ	1/2	12.01	918	1,124	1,472	3.6	5.1	-	-	-	-	-	3/8	1/4	1/4	

R-134a

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)								EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase			Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C				
THB4410YFZ	1/12	2.73	144	182	249	0.8	0.9	-	-	179	220	291	1/4	3/16	1/4	
THB4413YFZ	1/9	3.40	171	216	295	1.0	1.6	-	-	207	254	331	1/4	3/16	1/4	
THB4415YFZ	1/8	4.00	214	268	359	1.2	1.3	-	-	252	306	391	1/4	3/16	1/4	
THB4419YFZ	1/6	5.00	241	304	413	1.4	1.6	-	-	278	338	434	1/4	3/16	1/4	
THB4422YFZ	1/5	5.90	307	380	507	1.6	1.8	-	-	343	410	513	1/4	3/16	1/4	

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

R-134a

Model	Nominal Power (HP)	Dis./Rev (cm³)	Compressor							Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)							EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C			
AE4425Y-FZ	1/5	6.69	348	443	605	1.6	2.4	-	-	374	452	568	1/4	3/16	1/4
AE4430Y-FZ	1/4	8.02	450	566	769	2.1	3.1	-	-	506	612	780	1/4	3/16	1/4
AE4440Y-FZ	1/3	10.33	591	733	981	2.5	3.7	-	-	624	739	917	5/16	1/4	1/4
AE4450Y-FZ	3/8	13.24	779	964	1,285	3.1	4.6	-	-	831	984	1,221	3/8	1/4	1/4
AE4456Y-FZ	1/2	14.51	854	1,052	1,394	3.6	5.2	-	-	918	1,087	1,384	3/8	1/4	1/4
AE4460Y-FZ	1/2	15.09	889	1,098	1,454	3.0	4.7	-	-	953	1,130	1,402	3/8	1/4	1/4
THK9384YCG	1/11	4.00	256	328	408	1.2	-	-	-	-	-	-	1/4	3/16	-
CAJ/TAJ4452Y	2/5	15.20	711	920	1,287	3.5	5.5	1.1	1.8	782	936	1,169	1/2	1/4	1/4
CAJ/TAJ4461Y	1/2	18.30	888	1,131	1,566	4.0	5.9	1.4	2.2	943	1,119	1,387	1/2	1/4	1/4
CAJ4476Y	2/3	21.80	1,043	1,343	1,862	4.9	7.2	-	-	1,200	1,457	1,860	1/2	1/4	3/8
CAJ/TAJ4492Y	3/4	25.95	1,313	1,681	2,317	5.6	8.4	1.7	2.8	1,495	1,804	2,284	1/2	5/16	3/8
CAJ/TAJ4511Y	1	32.70	1,744	2,195	2,966	5.1	8.6	2.1	3.4	1,843	2,184	2,692	5/8	5/16	3/8
CAJ4513Y	1	34.45	1,862	2,334	3,143	5.8	9.9	-	-	2,193	2,657	3,398	5/8	5/16	3/8
FH/TFH4518Y	1 1/2	53.20	2,405	3,179	4,525	7.8	11.2	3.4	4.2	2,818	3,422	4,379	5/8	1/2	3/8
FH/TFH4525Y	2	74.25	3,442	4,456	6,245	9.8	15.2	3.9	6.7	3,507	4,232	5,359	5/8	1/2	3/8
TAG4528Y	2 1/3	90.20	3,432	4,675	6,791	-	-	4.3	9.4	4,072	5,052	6,599	7/8	5/8	3/8
TAG4534Y	2 5/6	100.70	4,344	5,739	8,101	-	-	4.7	10.4	4,839	5,965	7,752	7/8	5/8	3/8
TAG4537Y	3	112.50	4,957	6,514	9,156	-	-	5.4	10.0	5,479	6,687	8,576	7/8	5/8	3/8
TAG4543Y	3 3/5	124.40	5,187	6,890	9,847	-	-	5.6	10.0	5,939	7,304	9,474	7/8	5/8	3/8

Model	Nominal Power (HP)	Dis./Rev (cm³)	Compressor							Condensing Unit			Diameter of Connection		
			ASHRAE							EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-15 °C	-3.9 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-35 °C	-30 °C	-20 °C			
TYA4475YKS	2/3	22.30	511	1,283	2,079	3.9	-	-	-	-	-	-	3/8	1/4	-
TYA4489YKS	3/4	26.00	590	1,482	2,401	4.8	-	-	-	-	-	-	3/8	1/4	-

COMMERCIAL / DOMESTIC REFRIGERATION

R-134a

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)							EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C			
AE1390Y-FZ	1/6	8.02	74	109	205	1.4	-	-	-	-	-	-	1/4	3/16	-
AE2390Y-FZ	1/6	8.02	60	100	195	1.3	-	-	-	-	-	-	1/4	3/16	-
AE2410Y-FZ	1/4	9.39	85	120	228	1.4	-	-	-	-	-	-	1/4	3/16	-
AE2413Y-FZ	1/3	12.01	109	157	291	1.8	-	-	-	-	-	-	1/4	3/16	-
AE2415Y-FZ	3/8	12.48	126	186	329	1.7	-	-	-	-	-	-	1/4	3/16	-

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Condensing Unit			Diameter of Connection		
			EN12900 (RTG 20 °C)							EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-35 °C	-30 °C	-20 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-40 °C	-30 °C	-20 °C			
THG1335YKS	1/9	3.79	29	43	84	0.5	0.8	-	-	45	64	114	1/4	3/16	-
THG1340YKS	1/9	4.23	35	53	102	0.6	1.0	-	-	55	80	131	1/4	3/16	-
THG1350YS	1/8	5.58	44	64	121	0.7	1.1	-	-	73	97	162	1/4	3/16	-

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Condensing Unit			Diameter of Connection		
			ASHRAE							EN13215 (RTG 20 °C)					
			Capacity (Watt)			Single Phase		Three Phase		Capacity (Watt)			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-6.7 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	-5 °C	0 °C	7.2 °C			
THK1330YCG	1/10	3.14	30	82	155	0.7	7.0	-	-	-	-	-	-	-	-
THK1340YCF	1/9	4.00	46	107	195	0.8	8.1	-	-	-	-	-	-	-	-
THK1351YJF	1/8	5.01	58	135	245	1.0	8.5	-	-	-	-	-	-	-	-
THK1365YCG	1/6	5.90	75	158	290	1.0	9.0	-	-	-	-	-	-	-	-
THK1374YFS	1/5	6.90	80	175	319	1.2	11.0	-	-	-	-	-	-	-	-
THK2390YJE	1/4	8.20	111	217	395	0.9	-	-	-	-	-	-	-	-	-

COMPRESSOR AIR CONDITIONING AND HEATING (AC)

R-22

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Diameter of Connection		
			EN12900 (RTG 20 °C)								Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			Single Phase		Three Phase					
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)				
AE5465E	1/2	12.00	945	1,183	1,581	3.2	5.7	-	-	3/8	1/4	-	
AE5470E	3/5	13.30	1,019	1,283	1,727	3.4	5.7	-	-	3/8	1/4	-	
AJ5510F	5/6	18.60	1,320	1,748	2,460	5.2	7.3	-	-	3/8	1/4	-	
AJ5512E	1	21.75	1,589	2,030	2,794	5.9	8.2	-	-	3/8	1/4	-	
AJ5513E	1 1/9	24.20	1,928	2,414	3,232	6.0	8.8	-	-	3/8	1/4	-	
AJ/TAJ5515E	1 1/4	25.95	2,209	2,753	3,652	7.2	12.0	2.7	3.7	1/2	5/16	-	
AJ5518E	1 1/2	32.70	2,822	3,475	4,589	9.9	13.1	-	-	1/2	5/16	-	
AJ/TAJ5519E	1 4/7	34.45	2,770	3,479	4,702	10.0	13.6	3.9	5.4	1/2	5/16	-	
FH/TFH5522E	1 5/6	39.95	2,974	3,812	5,257	9.0	14.5	3.8	5.8	5/8	3/8	-	
FH/TFH5524E	2	43.50	3,278	4,187	5,749	10.0	16.1	4.0	5.8	5/8	3/8	-	
FH/TFH5527E	2 1/4	49.10	3,686	4,703	6,522	12.0	19.5	4.2	6.5	5/8	3/8	-	
FH/TFH5531E	2 4/7	56.65	4,590	5,720	7,583	14.1	23.0	4.8	6.3	3/4	3/8	-	
FH/TFH5540E	3 1/3	74.25	5,483	6,936	9,406	18.6	30.5	6.4	10.0	3/4	3/8	-	
TAG5546E	3 5/6	90.20	6,027	7,929	11,307	-	-	6.6	7.5	7/8	1/2	-	
TAG5553E	4 3/7	100.70	7,116	9,209	12,996	-	-	7.4	12.0	7/8	1/2	-	
TAG5561E	5	112.50	8,298	10,715	14,938	-	-	9.0	15.0	7/8	1/2	-	
TAG5568E	5 2/3	124.40	9,321	11,997	16,758	-	-	9.6	15.6	7/8	1/2	-	
TAG5573E	6	134.80	9,946	12,777	17,912	-	-	11.0	18.0	7/8	1/2	-	
TAGD5590E	7 1/2	180.40	12,078	15,872	22,617	-	-	13.2	20.0	1"1/8	5/8	-	
TAGD5610E	8 1/3	201.40	14,245	18,436	26,019	-	-	14.8	24.0	1"1/8	5/8	-	
TAGD5612E	10	225.00	16,625	21,448	29,881	-	-	18.0	30.0	1"3/8	5/8	-	
TAGD5614E	11 2/3	248.80	18,653	24,019	33,558	-	-	19.0	31.0	1"3/8	5/8	-	
TAGD5615E	12 1/2	269.60	19,907	25,577	35,864	-	-	22.0	36.0	1"3/8	5/8	-	

COMPRESSOR AIR CONDITIONING AND HEATING (AC)

R-22

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Diameter of Connection		
			ASHRAE							Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			I Nom (Amps)		I Nom (Amps)				
			-6.7 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)			
AWG5524EXC	2	43.10	2,991	3,958	5,801	9.4	15.5	-	-	-	-	-
AVA5535EXC	3	62.36	4,076	5,601	8,585	13.4	21.4	-	-	-	-	-
AVA5535EXG	3	62.36	4,897	6,744	10,314	-	-	4.8	7.9	-	-	-
AVA5538EXC	3 1/6	67.01	4,487	6,158	9,376	14.6	27.0	-	-	-	-	-
AVA5538EXG	3 1/6	67.01	5,513	7,419	11,251	-	-	5.3	8.0	-	-	-
AVA5542EXC	3 1/2	73.27	4,956	6,803	10,372	15.6	25.8	-	-	-	-	-
AVA5542EXG	3 1/2	73.27	6,158	8,240	12,453	-	-	6.0	9.6	-	-	-
AVA5546EXC	3 5/6	78.97	5,425	7,449	11,354	18.4	28.6	-	-	-	-	-
AVA5546EXG	3 5/6	78.97	6,451	8,885	13,625	-	-	6.6	10.9	-	-	-
AVA5555EXG	4 4/7	91.04	8,533	11,173	16,115	-	-	7.8	13.4	-	-	-
AGC5553EXG	4 2/5	100.67	7,038	10,000	15,822	-	-	7.8	12.1	-	-	-
AGC5561EXG	5	112.44	8,446	11,583	17,873	-	-	9.5	14.8	-	-	-
AGC5568EXG	5 2/3	124.32	9,530	12,991	19,924	-	-	10.6	16.6	-	-	-
AGA5573EXG	6	135.10	10,499	14,281	21,243	-	-	11.8	18.5	-	-	-

COMPRESSOR AIR CONDITIONING AND HEATING (AC)

R-22

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Diameter of Connection		
			EN12900 (RTG 20 °C)									
			Capacity (Watt)			Single Phase		Three Phase		Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)			
RK5480E	2/3	11.40	1,206	1,458	1,895	2.8	4.8	-	-	1/2	5/16	-
RK5490E	3/4	12.90	1,395	1,678	2,172	3.1	5.6	-	-	1/2	5/16	-
RK5510E	5/6	14.60	1,568	1,909	2,468	3.5	5.6	-	-	1/2	5/16	-
RK5512E	1	16.30	1,755	2,108	2,726	4.0	7.0	-	-	1/2	5/16	-
RK5513E	1 1/9	18.10	1,946	2,350	3,040	4.3	6.9	-	-	1/2	5/16	-
RK5515E	1 1/4	21.40	2,245	2,725	3,543	5.3	8.5	-	-	5/8	5/16	-
RK5518E	1 1/2	24.40	2,632	3,194	4,128	6.4	10.2	-	-	5/8	5/16	-
RGA5480E	2/3	11.50	1,262	1,518	1,957	2.8	4.8	-	-	3/8	5/16	-
RGA5492E	3/4	12.80	1,415	1,710	2,206	3.1	5.2	-	-	1/2	5/16	-
RGA5510E	5/6	14.30	1,433	1,753	2,307	3.6	5.9	-	-	1/2	5/16	-
RGA5512E	1	16.10	1,749	2,108	2,728	4.0	7.0	-	-	1/2	5/16	-
HGA5467E	1/2	9.52	952	1,170	1,549	2.4	4.0	-	-	3/8	5/16	-
HGA5480E	2/3	11.50	1,180	1,441	1,888	2.9	5.0	-	-	3/8	5/16	-
HGA5485E	5/7	11.75	1,249	1,521	1,995	2.9	5.2	-	-	3/8	5/16	-
HGA5492E	3/4	12.80	1,292	1,591	2,102	3.1	5.2	-	-	1/2	5/16	-
HGA5510E	5/6	14.30	1,568	1,884	2,422	3.6	5.9	-	-	1/2	5/16	-
HGA5512E	1	16.10	1,735	2,104	2,718	4.0	7.1	-	-	1/2	5/16	-

COMPRESSOR AIR CONDITIONING AND HEATING (AC)

R-22

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Diameter of Connection		
			ASHRAE								Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			Single Phase		Three Phase					
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)				
AWR5524EGE	2	43.26	-	4,926	6,069	10.0	51.0	-	-	1/2	3/8	-	
AWR5530EGH	2 1/2	50.60	3,398	4,721	7,386	11.7	79.0	-	-	5/8	3/8	-	
AWR5532EGH	3	54.30	-	5,571	7,859	12.2	79.0	-	-	5/8	3/8	-	
AWR5535EGH	3	59.00	-	5,718	8,646	13.2	85.0	-	-	5/8	3/8	-	
AWR5538EXC	3 1/6	63.00	-	5,865	9,232	14.2	92.0	-	-	5/8	3/8	-	

R-134a

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Diameter of Connection		
			EN12900 (RTG 20 °C)								Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			Single Phase		Three Phase					
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)				
RK5450Y	3/7	11.40	759	936	1,256	1.8	2.8	-	-	1/2	5/16	-	
RK5480Y	2/3	18.10	1,242	1,533	2,050	2.9	5.7	-	-	1/2	5/16	-	
RK5512Y	1	24.40	1,596	1,967	2,622	4.0	6.0	-	-	5/8	5/16	-	
HGA5433Y	2/7	7.13	446	559	759	1.2	2.0	-	-	3/8	5/16	-	
HGA5450Y	3/7	11.50	719	898	1,212	2.0	3.8	-	-	3/8	5/16	-	
HGA5460Y	1/2	12.75	780	979	1,330	2.1	4.0	-	-	1/2	5/16	-	

COMPRESSOR AIR CONDITIONING AND HEATING (AC)

R407C

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor								Diameter of Connection		
			EN12900 (RTG 20 °C)										
			Capacity (Watt)			Single Phase		Three Phase			Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)				
AE5465C	1/2	12.00	791	1,047	1,491	3.0	6.0	-	-	3/8	1/4	-	
AE5470C	3/5	13.30	821	1,094	1,565	3.5	5.7	-	-	3/8	1/4	-	
AJ5510C	5/6	18.60	871	1,313	2,082	4.6	7.3	-	-	3/8	1/4	-	
AJ5512C	1	21.75	1,327	1,814	2,874	5.9	9.3	-	-	3/8	1/4	-	
AJ5513C	1 1/9	24.20	1,526	2,085	3,074	6.0	9.3	-	-	3/8	1/4	-	
AJ/TAJ5515C	1 1/4	25.95	1,831	2,435	3,487	7.3	12.0	2.8	3.8	1/2	5/16	-	
AJ5518C	1 1/2	32.70	2,509	3,209	4,420	9.7	14.0	-	-	1/2	5/16	-	
AJ/TAJ5519C	1 4/7	34.45	2,581	3,330	4,636	9.9	15.0	4.1	5.4	1/2	5/16	-	
FH/TFH5522C	1 5/6	39.95	2,492	3,356	4,864	8.2	15.0	3.5	7.1	5/8	3/8	-	
FH/TFH5524C	2	43.50	2,695	3,572	5,224	9.2	17.0	3.9	6.7	5/8	3/8	-	
FH/TFH5527C	2 1/4	49.10	3,130	4,136	6,020	11.8	20.4	4.2	7.0	5/8	3/8	-	
FH/TFH5531C	2 4/7	56.65	3,642	4,784	6,817	13.7	24.5	4.7	8.4	3/4	3/8	-	
FH/TFH5540C	3 1/3	74.25	4,825	6,315	8,921	18.0	31.5	5.0	10.6	3/4	3/8	-	
TAG5546C	3 5/6	90.20	4,468	6,297	9,589	-	-	5.9	10.1	7/8	1/2	-	
TAG5553C	4 3/7	100.70	5,622	7,833	11,705	-	-	6.7	12.0	7/8	1/2	-	
TAG5561C	5	112.50	6,803	9,154	13,373	-	-	7.9	14.6	7/8	1/2	-	
TAG5568C	5 2/3	124.40	7,849	10,416	14,897	-	-	8.9	15.8	7/8	1/2	-	
TAG5573C	6	134.80	8,723	11,496	16,346	-	-	9.8	18.5	7/8	1/2	-	
TAGD5590C	7 1/2	180.40	8,933	12,600	19,155	-	-	11.8	20.2	1"1/8	5/8	-	
TAGD5610C	8 1/3	201.40	11,269	15,673	23,348	-	-	13.4	24.0	1"1/8	5/8	-	
TAGD5612C	10	225.00	13,643	18,339	26,583	-	-	15.8	29.2	1"3/8	5/8	-	
TAGD5614C	11 2/3	248.80	15,719	20,843	29,724	-	-	17.8	32.0	1"3/8	5/8	-	
TAGD5615C	12 1/2	269.60	17,407	22,965	32,829	-	-	19.6	37.0	1"3/8	5/8	-	

COMPRESSOR AIR CONDITIONING AND HEATING (AC)

R407C

Model	Nominal Power (HP)	Dis./Rev (cm ³)	Compressor							Diameter of Connection		
			EN12900 (RTG 20 °C)							Suction (Inches)	Discharge (Inches)	Liquid Line (Inches)
			Capacity (Watt)			Single Phase		Three Phase				
			-5 °C	0 °C	7.2 °C	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)			
RK5480C	2/3	11.40	1,123	1,381	1,829	2.8	4.8	-	-	1/2	5/16	-
RK5490C	3/4	12.90	1,184	1,481	1,989	3.2	6.0	-	-	1/2	5/16	-
RK5510C	5/6	14.60	1,456	191	2,371	3.7	6.7	-	-	1/2	5/16	-
RK5512C	1	16.30	1,590	1,965	2,612	4.1	6.7	-	-	1/2	5/16	-
RK5513C	1 1/9	18.10	1,771	2,176	2,876	4.5	7.5	-	-	1/2	5/16	-
RK5515C	1 1/4	21.40	2,158	2,651	3,504	5.4	8.8	-	-	5/8	5/16	-
RK/TRK5518C	1 1/2	24.40	2,477	3,039	4,013	6.6	12.2	2.7	4.3	5/8	5/16	-
RGA5450C	3/7	7.13	642	802	1,078	1.7	3.2	-	-	3/8	5/16	-
RGA5460C	1/2	8.55	809	1,005	1,348	2.0	3.7	-	-	3/8	5/16	-
RGA5472C	3/5	10.24	977	1,209	1,616	2.5	4.7	-	-	3/8	5/16	-
RGA5480C	2/3	11.50	1,076	1,347	1,832	2.8	4.6	-	-	3/8	5/16	-
RGA5492C	3/4	12.80	1,209	1,516	2,057	3.0	5.8	-	-	1/2	5/16	-
RGA5510C	5/6	14.30	1,349	1,699	2,322	3.6	6.1	-	-	1/2	5/16	-
RGA5512C	1	16.10	1,496	1,878	2,548	4.0	7.0	-	-	1/2	5/16	-
HGA5450C	3/7	7.13	642	802	1,078	1.7	3.2	-	-	3/8	5/16	-
HGA5456C	1/2	7.95	832	1,014	1,332	1.9	3.3	-	-	3/8	5/16	-
HGA5460C	1/2	8.55	809	1,005	1,348	2.0	3.7	-	-	3/8	5/16	-
HGA5472C	3/5	10.24	977	1,209	1,616	2.5	4.7	-	-	3/8	5/16	-
HGA5480C	2/3	11.50	1,084	1,345	1,799	2.7	4.6	-	-	3/8	5/16	-
HGA5492C	3/4	12.80	1,210	1,517	2,059	3.0	5.8	-	-	1/2	5/16	-
HGA5510C	5/6	14.30	1,348	1,698	2,322	3.6	6.1	-	-	1/2	5/16	-
HGA5512C	1	16.10	1,497	1,879	2,549	4.0	7.0	-	-	1/2	5/16	-

AE² ENLARGED CONDENSING UNIT



Compact

Efficient



Tecumseh Reliability

FEATURES AND PERFORMANCE

- No modification of your installation, upgrade performance
- No modification of the panel dimension
- Same connection (size and placement) for each condensing unit
- The improved COP of the AE² compressor is transferred to the condensing unit (COP improved by +10 to +20%)
- Suitable for high ambient temperature
- Bigger condenser for better heat rejection



AE² ENLARGED CONDENSING UNIT - HBP

R-404A

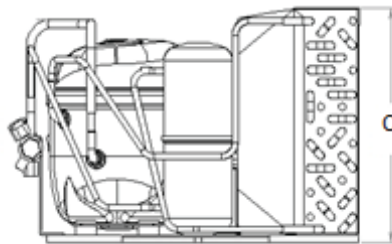
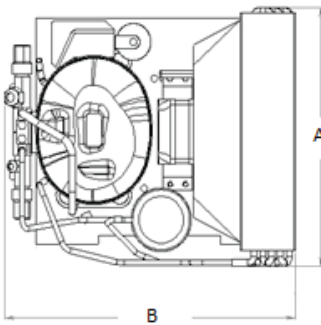
R-134a

Model	Refrigerant	Nominal Power (HP)	Capacity (W) at Te=-5 °C		Diameter of Connection		Single Phase		Condenser Fan		Weight (kg)	Bases
			Ambient (°C)		Suction (Inches)	Liquid (Inches)	I Nom (Amps)	I Max (Amps)	Nos	Dia (mm)		
			32	43								
AE4425	ZHR-FZ	1/5	432	347	3/8	1/4	2.0	3.0	1	200	18.9	I
	YHR-FZ		402	339			1.8	2.6				
AE4430	ZHR-FZ	1/4	525	424	3/8	1/4	2.7	3.5	1	250	23.5	II
	YHR-FZ		510	438			2.7	3.7				
AE4440	ZHR-FZ	1/3	692	559	3/8	1/4	3.3	4.3	1	250	24.1	II
	YHR-FZ		656	561			3.1	4.5				
AE4450	ZHR-FZ	3/8	980	796	3/8	1/4	4.0	5.7	1	300	26.5	III
	YHR-FZ		870	738			3.7	5.2				
AE4456	ZHR-FZ	1/2	-	-	3/8	1/4	-	-	1	300	26.1	III
	YHR-FZ		984	846			4.2	5.8				
AE4460	ZHR-FZ	1/2	1,141	929	3/8	1/4	4.9	6.5	1	300	26.1	III
	YHR-FZ		1,022	875			3.6	5.3				
AE4470	ZHR-FZ	5/8	1,316	1,092	3/8	1/4	4.3	5.9	1	300	28.2	III
	YHR-FZ		-	-			-	-				

AE² ENLARGED CONDENSING UNIT - LBP

R-404A

Model	Refrigerant	Nominal Power (HP)	Capacity (W) at Te=-25 °C		Diameter of Connection		Single Phase		Condenser Fan		Weight (kg)	Bases
			Ambient (°C)		Suction (Inches)	Liquid (Inches)	I Nom (Amps)	I Max (Amps)	Nos	Dia (mm)		
			32	43								
AE2415	ZBR-FZ	3/8	339	272	3/8	1/4	2.1	3.2	1	200	20.3	I
AE2420	ZBR-FZ	1/2	437	340	3/8	1/4	2.9	5.0	1	250	24.1	II
AE2425	ZBR-FZ	5/8	609	500	3/8	1/4	2.9	4.8	1	300	27.5	III

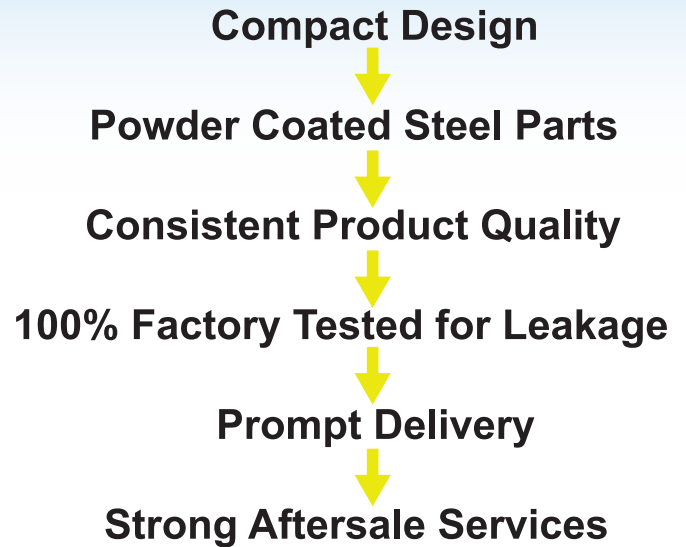


Bases	Description	A	B	C
I	Overall Unit	304	350	253
II	Overall Unit	328	485	292
III	Overall Unit	425	480	338

Dimension given in mm



PACKAGED CONDENSING UNIT



RELIABILITY AND ROBUSTNESS

- ① Proven technology in refrigeration
- ② Tough design and testing standard to assure long life in the field.
- ③ Equipped with high quality components
- ④ Corrosion resistance housing is another quality advantage.



INSTALLATION AND MAINTENANCE

- ① Fully factory fitted and wired
- ② Time savings for installer
- ③ Easy removable front panel for accessibility



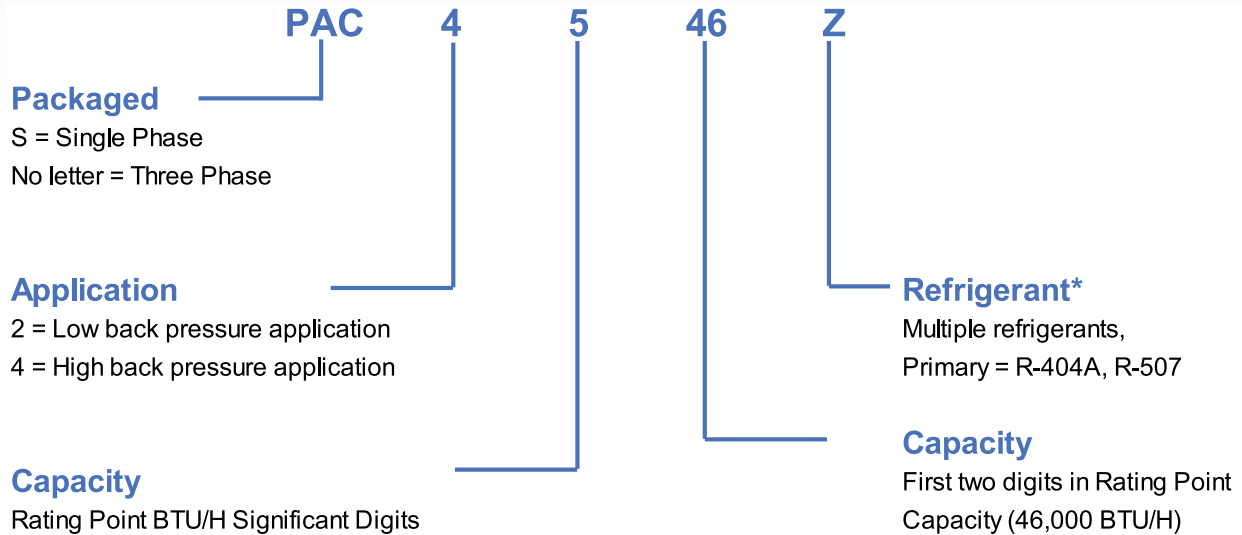
EVOLUTIONARY PRODUCT

- ① Multiple compressor technology (Piston, Rotary and Scroll) capability
- ② Esthetic evolution
- ③ Low noise level



PACKAGED CONDENSING UNIT

CONDENSING UNIT NOMENCLATURE



*Also designed for comon refrigerants R-22 and R-134a

Content	Standard	Optional
Compressor with Rotalock Valve	✓	
Air-Cooled Condenser	✓	
Axial Fan Motor	✓	
Powder Coated Metal Parts	✓	
Liquid Receiver	✓	
High-Low Pressure Control	✓	
Terminal Box	✓	
Filter Drier	✓	
Sight Glass	✓	
Hand Valve	✓	
Packaging	✓	
Electrical Box		✓
Solenoid Valve		✓
Oil Separator		✓
Suction Accumulator		✓

PERFORMANCE DATA

Packaged Model	Compressor Model	Ambient Temp. °C	Cooling Capacity in (W) at Evaporating Temp. (°C)							Power Input (W) @ evap. temp. +5 °C
			-20	-15	-10	-5	0	5	10	
PACS4517Z PAC4517Z	CAJ4517Z TAJ4517Z	27	1,633	2,035	2,475	2,947	3,443	3,955	4,471	1,684
		32	1,472	1,856	2,271	2,709	3,165	3,628	4,091	
		38	1,275	1,638	2,021	2,419	2,825	3,231	3,629	
		43	-	1,455	1,811	2,174	2,538	2,897	3,242	
PACS4519Z PAC4519Z	CAJ4519Z TAJ4519Z	27	2,246	2,769	3,342	3,957	4,607	5,281	5,968	2,218
		32	2,027	2,526	3,064	3,637	4,239	4,862	5,494	
		38	1,757	2,225	2,722	3,245	3,790	4,350	4,919	
		43	-	1,971	2,432	2,913	3,411	3,921	4,437	
PACS4524Z PAC4524Z	FH4524Z TFH4524Z	27	2,083	2,720	3,400	4,122	4,884	5,684	6,519	2416
		32	1,951	2,543	3,178	3,854	4,569	5,322	6,109	
		38	1,796	2,345	2,936	3,567	4,237	4,944	5,682	
		43	-	2,191	2,754	3,357	3,999	4,675	5,380	
PACS4531Z PAC4531Z	FH4531Z TFH4531Z	27	3,137	4,055	4,998	5,966	6,957	7,969	8,998	3,199
		32	2,934	3,788	4,669	5,576	6,507	7,460	8,431	
		38	2,698	3,491	4,312	5,161	6,034	6,929	7,842	
		43	-	3,262	4,045	4,856	5,693	6,551	7,427	
PACS4540Z PAC4540Z	FH4540Z TFH4540Z	27	4,025	5,004	6,052	7,169	8,351	9,598	10,904	4,147
		32	3,767	4,677	5,655	6,701	7,813	8,986	10,218	
		38	3,466	4,311	5,224	6,202	7,245	8,348	9,506	
		43	-	4,028	4,900	5,837	6,836	7,894	9,004	
PAC4546Z	TAG4546Z	27	4,315	5,613	7,102	8,779	10,642	12,687	14,908	4,374
		32	3,802	5,015	6,394	7,940	9,650	11,521	13,550	
		38	3,198	4,308	5,556	6,944	8,471	10,135	11,935	
		43	-	3,733	4,872	6,129	7,504	8,997	10,609	
PAC4553Z	TAG4553Z	27	4,876	6,316	7,953	9,782	11,794	13,979	16,321	5,027
		32	4,309	5,657	7,171	8,849	10,683	12,663	14,777	
		38	3,623	4,866	6,239	7,740	9,365	11,105	12,952	
		43	-	4,210	5,469	6,827	8,283	9,830	11,461	
PAC4561Z	TAG4561Z	27	5,628	7,131	8,825	10,703	12,759	14,983	17,367	5,694
		32	5,024	6,434	8,002	9,723	11,591	13,600	15,742	
		38	4,286	5,593	7,017	8,557	10,209	11,967	13,830	
		43	-	4,885	6,197	7,593	9,071	10,630	12,269	
PAC4568Z	TAG4568Z	27	6,773	8,482	10,422	12,600	15,022	17,699	20,640	6156
		32	6,103	7,728	9,553	11,586	13,836	16,314	19,032	
		38	5,295	6,817	8,502	10,361	12,403	14,643	17,095	
		43	-	6,056	7,624	9,336	11,206	13,248	15,482	
PAC4573Z	TAG4573Z	27	7,336	9,146	11,198	13,496	16,042	18,841	21,897	6,961
		32	6,660	8,359	10,265	12,383	14,717	17,273	20,059	
		38	5,828	7,389	9,116	11,015	13,092	15,356	17,816	
		43	-	6,568	8,143	9,856	11,718	13,738	15,930	
PAC4581Z	TAG4581Z	27	7,943	9,753	11,704	13,755	15,856	17,945	19,952	7,847
		32	7,217	8,950	10,794	12,716	14,670	16,603	18,450	
		38	6,323	7,963	9,682	11,451	13,233	14,982	16,644	
		43	-	7,125	8,740	10,385	12,027	13,629	15,145	

Test Condition

EN13215 : Return Gas Temperature 20 °C
 Ambient Temperature : 32 °C

Power Consumption referred at 32 °C ambient temperature
 Subcooling within the limits of the condensing unit

R-404A/R-507

High Back Pressure Application

PERFORMANCE DATA

Packaged Model	Compressor Model	Ambient Temp. °C	Cooling Capacity in (W) at Evaporating Temp. (°C)							Power Input (W) @ evap. temp. -25 °C
			-40	-35	-30	-25	-20	-15	-10	
PACS2480Z PAC2480Z	FH2480Z TFH2480Z	27	956	1,430	1,900	2,367	2,828	3,285	3,736	1,505
		32	835	1,279	1,726	2,174	2,625	3,077	3,528	
		38	718	1,123	1,538	1,963	2,398	2,841	3,291	
		43	642	1,013	1,400	1,804	2,223	2,656	3,102	
PACS2511Z PAC2511Z	FH2511Z TFH2511Z	27	1,304	1,870	2,488	3,159	3,881	4,653	5,473	1,956
		32	1,150	1,677	2,263	2,906	3,606	4,361	5,170	
		38	996	1,475	2,018	2,626	3,297	4,030	4,822	
		43	893	1,330	1,837	2,413	3,058	3,770	4,545	
PAC2513Z	TAG2513Z	27	1,423	2,134	2,985	3,967	5,066	6,257	7,508	2714
		32	1,160	1,821	2,607	3,513	4,524	5,620	6,769	
		38	854	1,455	2,165	2,980	3,888	4,870	5,898	
		43	622	1,175	1,826	2,569	3,397	4,289	5,223	
PAC2516Z	TAG2516Z	27	1,822	2,602	3,449	4,362	5,340	6,381	7,484	2939
		32	1,606	2,333	3,135	4,011	4,960	5,980	7,068	
		38	1,390	2,050	2,796	3,624	4,534	5,524	6,591	
		43	1,245	1,848	2,543	3,329	4,204	5,166	6,211	
PAC2522Z	TAG2522Z	27	2,378	3,317	4,426	5,704	7,144	8,734	10,456	3,839
		32	2,075	2,954	3,984	5,166	6,495	7,960	9,544	
		38	1,716	2,526	3,465	4,535	5,733	7,050	8,472	
		43	1,420	2,174	3,040	4,019	5,111	6,308	7,599	
PAC2525Z	TAG2525Z	27	2,598	3,597	4,728	5,970	7,291	8,643	9,968	4,244
		32	2,246	3,190	4,249	5,402	6,618	7,853	9,049	
		38	1,832	2,709	3,678	4,723	5,812	6,905	7,949	
		43	1,512	2,333	3,232	4,189	5,178	6,160	7,087	

Test Condition
 EN13215 : Return Gas Temperature 20 °C
 Ambient Temperature : 32 °C
 Power Consumption referred at 32 °C ambient temperature
 Subcooling within the limits of the condensing unit

R-404A/R-507

Low Back Pressure Application



PACKAGED CONDENSING UNIT

TECHNICAL SPECIFICATION

Model	PAC4517Z	PAC4519Z	PAC4524Z	PAC4531Z	PAC4540Z
Compressor	CAJ/TAJ4517Z	CAJ/TAJ4519Z	FH/TFH4524Z	FH/TFH4531Z	FH/TFH4540Z
Nominal HP	1.4	1.6	2.0	2.6	3.3
Oil Type	POE	POE	POE	POE	POE
RLA [A]	7.3 / 3	9.9 / 4	10.7 / 4.3	14.1 / 5.3	19.4 / 7.5
MCC [A]	12.7 / 4	15.2 / 4.8	18.1 / 7.7	22.4 / 9	27 / 9.2
LRA [A]	38.5 / 18	45 / 22	49 / 24	66 / 27	88 / 44
Fan Size	1 x 18"	1 x 18"	1 x 18"	1 x 18"	1 x 18"
Fan Input	1 x 250 W	1 x 250 W	1 x 250 W	1 x 250 W	1 x 250 W
Suction Line Tube	5/8"	5/8"	5/8"	5/8"	5/8"
Liquid Line Tube	3/8"	3/8"	3/8"	3/8"	3/8"
Liquid Receiver	2.35 L	2.35 L	3.9 L	3.9 L	3.9 L
Platform	1	1	1	1	1
Size L, [mm]	1,012	1,012	1,012	1,012	1,012
Size W, [mm]	505	505	505	505	505
Size H, [mm]	715	715	715	715	715
Weight	81	81	93	95	97

Model	PAC4546Z	PAC4553Z	PAC4561Z	PAC4568Z	PAC4573Z	PAC4581Z
Compressor	TAG4546Z	TAG4553Z	TAG4561Z	TAG4568Z	TAG4573Z	TAG4581Z
Nominal HP	3.8	4.4	5.0	5.7	6.0	6.75
Oil Type	POE	POE	POE	POE	POE	POE
RLA [A]	7	7.8	9	10.2	11.4	12.7
MCC [A]	11.4	13.4	14	15.2	19	20.8
LRA [A]	40	48	51	54	56	83
Fan Size	2 x 18"	2 x 18"	2 x 18"	2 x 18"	2 x 18"	2 x 18"
Fan Input	2 x 250 W	2 x 250 W	2 x 250 W	2 x 250 W	2 x 250 W	2 x 250 W
Suction Line Tube	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Liquid Line Tube	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Liquid Receiver	10 L	10 L	10 L	10 L	10 L	10 L
Platform	2	2	2	2	2	2
Size L, [mm]	1,156	1,156	1,156	1,156	1,156	1,156
Size W, [mm]	625	625	625	625	625	625
Size H, [mm]	1,309	1,309	1,309	1,309	1,309	1,309
Weight	160	161	162	163	163	163

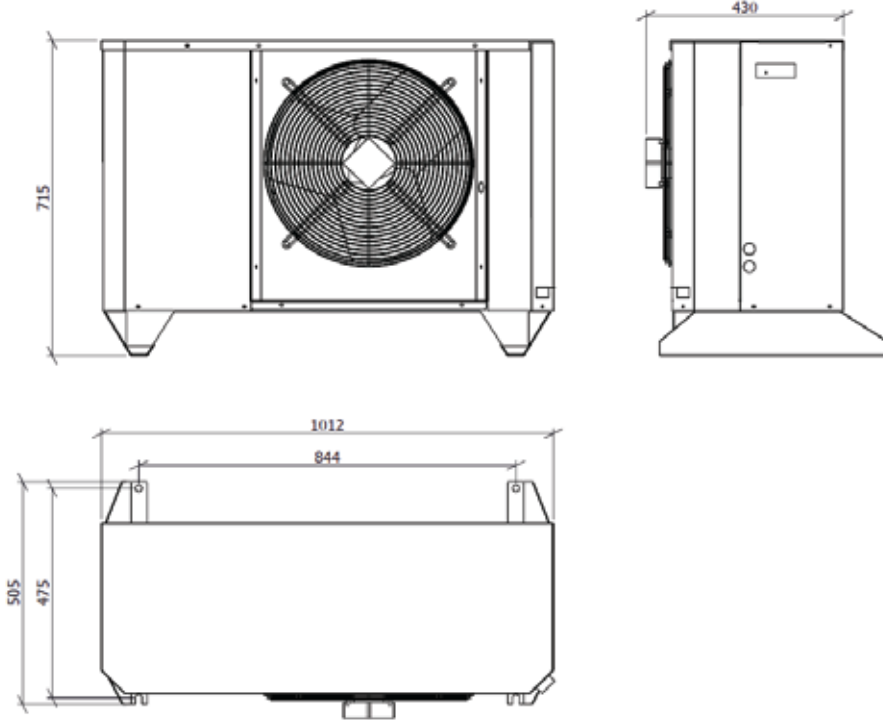
Model	PAC2480Z	PAC2511Z	PAC2513Z	PAC2516Z	PAC2522Z	PAC2525Z
Compressor	FH/TFH2480Z	FH/TFH2511Z	TAG2513Z	TAG2516Z	TAG2522Z	TAG2525Z
Nominal HP	2.0	2.75	3.25	4.0	5.5	6.25
Oil Type	POE	POE	POE	POE	POE	POE
RLA [A]	7.2 / 2.8	11.5 / 3.7	4.2	4.6	6.1	6.3
MCC [A]	16 / 6.3	24 / 7.2	8.5	9.8	12.5	13.3
LRA [A]	68 / 23	81 / 28	42	45	63	56
Fan Size	1 x 18"	1 x 18"	2 x 18"	2 x 18"	2 x 18"	2 x 18"
Fan Input	1 x 250 W	1 x 250 W	2 x 250 W	2 x 250 W	2 x 250 W	2 x 250 W
Suction Line Tube	5/8"	5/8"	7/8"	7/8"	7/8"	7/8"
Liquid Line Tube	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Liquid Receiver	3.9 L	3.9 L	10 L	10 L	10 L	10 L
Platform	1	1	2	2	2	2
Size L, [mm]	1,012	1,012	1,156	1,156	1,156	1,156
Size W, [mm]	505	505	625	625	625	625
Size H, [mm]	715	715	1,309	1,309	1,309	1,309
Weight	95	95	160	161	164	164

LRA : Lock Rotor Ampere
 RLA : Rated Load Ampere
 MCC : Maximum Continuous Current

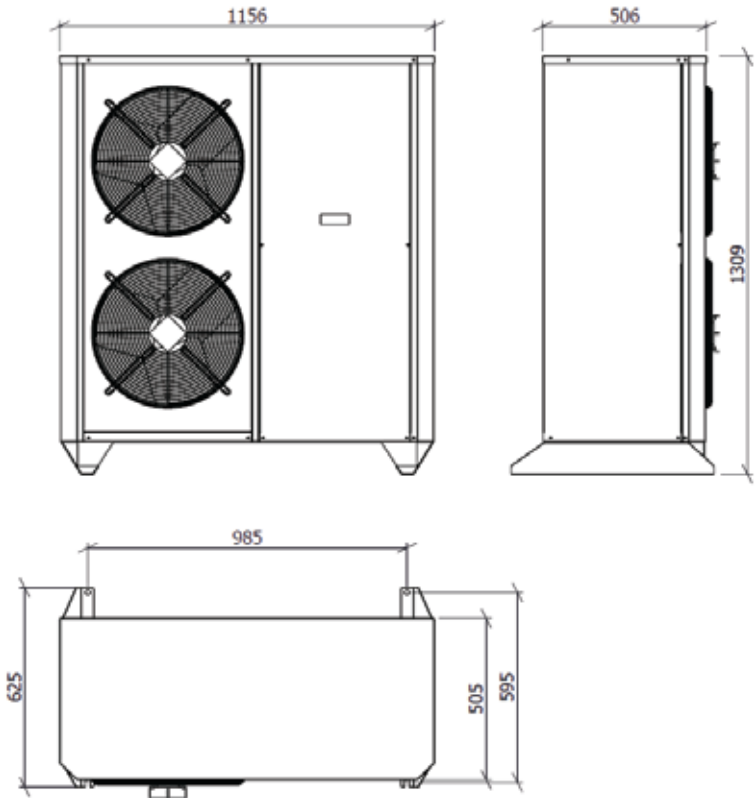
PACKAGED CONDENSING UNIT

DIMENSIONAL DRAWINGS

Base 1



Base 2



EASYPACK VERSION II

EASYPACK VERSION II



Easy

Affordable

Tecumseh Simplicity

FEATURES AND PERFORMANCE

- All units fitted with dual pressure controls
- Compressor / fan motor wired
- Liquid line isolating valves
- Suction isolating valves

Ease of service	: Simple in its design. No unnecessary complicated electronics
Proven reliability	: Retains use of reciprocating technology in an innovative way
Availability	: Units held in stock
Affordable	: Competitively priced
Adaptability	: Adaptable to a wide range of applications



EASYPACK VERSION II - HIGH BACK PRESSURE

R-404A

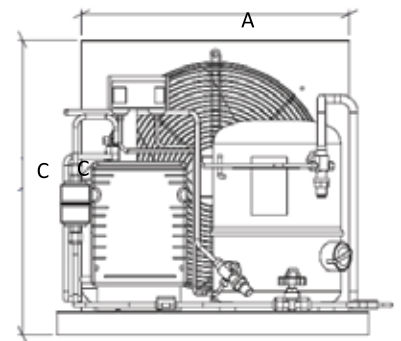
R-22

Model	Nominal Power (HP)	Ambient (°C)	Capacity (W) at Te=-5 °C		Diameter of Connection		F Voltage		T Voltage		Condenser Fan		Weight (kg)	Bases	Unit Cooler
			Refrigerant		Suction (Inches)	Liquid (Inches)	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	Nos	Dia (mm)			
			R404A (Z)	R22 (F/T)											
EPS/EP H4517	1 1/2	32	2,697	2,482	5/8	3/8	7.8	11.3	3.4	4.4	1	400	60.0	I	TEM-H-3.0/15
		43	2,186	2,174											
EPS/EP H4519	1 3/5	32	3,621	3,325	5/8	3/8	10.7	16.0	4.6	5.4	1	400	60.0	I	TEM-H-4.1/20
		43	2,960	2,914											
EPS/EP H4524	2	32	3,854	3,795	5/8	3/8	11.0	19.0	4.2	6.9	1	400	73.0	I	TEM-H-4.1/20
		43	3,357	3,326											
EPS/EP H4531	2 3/5	32	5,576	5,243	7/8	1/2	14.8	28.0	5.4	9.0	1	400	78.0	I	TEM-H-5.0/25
		43	4,856	4,596											
EPS/EP H4540	3 2/7	32	6,701	6,365	7/8	1/2	20.0	28.8	7.0	10.4	1	400	80.0	I	TEM-H-8.0/40
		43	5,837	5,580											
EP H4546	3 4/5	32	8,009	7,094	7/8	1/2	-	-	8.6	13.7	2	400	110.0	II	TEM-H-8.0/40
		43	6,975	6,219											
EP H4553	4 2/5	32	8,576	8,008	1"1/8	1/2	-	-	8.9	14.5	2	400	118.0	II	TEM-H-8.0/40
		43	7,473	7,013											
EP H4561	5	32	9,596	9,408	1"1/8	1/2	-	-	10.1	17.0	2	400	118.0	II	TEM-H-11.2/55
		43	8,361	8,246											
EP H4568	5 5/7	32	11,480	10,723	1"1/8	1/2	-	-	11.3	16.3	2	400	135.0	II	TEM-H-11.2/55
		43	10,003	9,399											
EP H4573	6	32	11,975	11,136	1"1/8	1/2	-	-	13.0	21.0	2	400	135.0	II	TEM-H-11.2/55
		43	10,430	9,764											
EP H4581	6 3/4	32	12,716	-	1"1/8	1/2	-	-	15.2	23.0	2	400	135.0	III	TEM-H-11.2/55
		43	10,385	-											

EASYPACK VERSION II - LOW BACK PRESSURE

R-404A

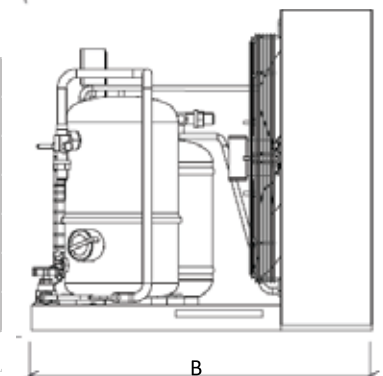
Model	Nominal Power (HP)	Ambient (°C)	Refrigerant, R404A		Diameter of Connection		F Voltage		T Voltage		Condenser Fan		Weight (kg)	Bases	Unit Cooler
			Capacity (W)		Suction (Inches)	Liquid (Inches)	I Nom (Amps)	I Max (Amps)	I Nom (Amps)	I Max (Amps)	Nos	Dia (mm)			
			-30 °C	-25 °C											
EPS/EP L2480	2	32	1,798	2,270	5/8	3/8	8.3	20.1	3.0	4.3	1	400	73.0	I	TEM-L-2.2/12
		43	1,470	1,897											
EPS/EP L2511	2 3/4	32	2,263	2,906	5/8	3/8	12.9	25.5	4.0	5.9	1	400	80.0	I	TEM-L-3.7/22
		43	1,837	2,413											
EP L2513	3 1/4	32	2,569	3,513	7/8	3/8	-	-	5.0	9.3	1	400	91.4	I	TEM-L-3.7/22
		43	1,826	2,569											
EP L2516	4	32	3,135	4,011	7/8	3/8	-	-	5.4	10.7	2	400	110.0	II	TEM-L-5.6/30
		43	2,543	3,329											
EP L2522	5 1/2	32	3,984	5,250	1"1/8	3/8	-	-	6.9	14.7	2	400	118.0	II	TEM-L-5.6/30
		43	3,040	4,069											
EP L2525	6 1/4	32	4,249	5,402	1"1/8	3/8	-	-	7.4	14.4	2	400	108.0	II	TEM-L-5.6/30
		43	3,232	4,189											



Accessories (Optional)	Description
	Filter Drier
	Sight Glass
	Hand Valve
	Weather Shield
	Packaging

Bases	Description	A	B	C
I	Bracket	600	600	-
	Overall Unit	600	600	558
II	Bracket	974	590	-
	Overall Unit	1072	590	565
III	Bracket	1060	690	-
	Overall Unit	1060	690	673

Dimension given in mm



UNIT COOLER



Compact

Easy Installation

Your Tecumseh Unit Coolers

FEATURES AND PERFORMANCE

- Compact
- Light in weight
- Rapidly temperature pull down
- Preserve the product's freshness
- Able to match with different capacity condensing unit
- Adopted rolled aluminum casing with epoxy plastic anti-erode paint
- Low noise fan motor
- Easy drainage
- Good stainless steel heater for defrost
- Easy installation

Nomenclature

TEM	H	2.2	/	7
Tecumseh Euro-Malaysia	Application	Rated Capacity in kW	-	External Surface (m ²)

Application Parameters		
Code	Application	Fin Spacing (mm)
H	High Back Pressure	4.5
L	Low Back Pressure	6.0

UNIT COOLER

Correction Factor of nominal capacity kW (R404A) for different room temperatures and TD

ΔT [K]								
10	1.09	1.09	1.1	1.13	1.16	1.19	1.22	1.25
9	0.98	0.98	0.99	1.02	1.04	1.07	1.10	1.13
8	0.87	0.87	0.88	0.9	0.93	0.95	0.98	1
7	0.76	0.76	0.77	0.79	0.81	0.83	0.85	0.88
6	0.65	0.65	0.66	0.68	0.7	0.71	0.73	0.75
5	0.54	0.54	0.55	0.57	0.58	0.60	0.61	0.63
4	0.44	0.44	0.44	0.45	0.46	0.48	0.49	0.5
°C	-35	-30	-25	-20	-15	-10	-5	0

Correction Factor for Refrigerants

T.Room (°C)	-35	-30	-25	-20	-15	-10	-5	0
R22	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
R134a	-	-	-	-	0.86	0.88	0.89	0.91
R404A	1	1	1	1	1	1	1	1
R507A	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97

High Back Pressure Models

Easy Pack Models	Unit Cooler Models	Semi-Hermetic	Unit Cooler Models
EPS/EP H4517Z	TEM-H-3.0/15	SHT4576 ZHR	TEM-H-16.2/80
EPS/EP H4519Z	TEM-H-4.1/20	SHT4591 ZHR	TEM-H-16.2/80
EPS/EP H4524Z	TEM-H-4.1/20	SHT4610 ZHR	TEM-H-21.3/105
EPS/EP H4531Z	TEM-H-5.0/25	SHT4612 ZHR	TEM-H-21.3/105
EPS/EP H4540Z	TEM-H-8.0/40	SHT4615 ZHR	TEM-H-25.0/125
EP H4546Z	TEM-H-8.0/40	SHT4620 ZHR	TEM-H-32.6/160
EP H4553Z	TEM-H-8.0/40	SHT4622ZHR	TEM-H-37.6/185
EP H4561Z	TEM-H-11.2/55	SHT4627ZHR	TEM-H-42.7/210
EP H4568Z	TEM-H-11.2/55	SHT4632ZHR	TEM-H-57.4/280
EP H4573Z	TEM-H-11.2/55	-	-
EP H4581Z	TEM-H-11.2/55	-	-

UNIT COOLER

Correction Factor of nominal capacity kW (R404A) for different room temperatures and TD

ΔT [K]									
10	1.29	1.34	1.38	1.42	1.47	1.47	1.47	1.47	1.47
9	1.16	1.20	1.24	1.28	1.32	1.32	1.32	1.32	1.32
8	1.04	1.07	1.1	1.14	1.17	1.17	1.17	1.17	1.17
7	0.91	0.94	0.97	1.00	1.03	1.03	1.03	1.03	1.03
6	0.78	0.8	0.83	0.85	0.88	0.88	0.88	0.88	0.88
5	0.65	0.67	0.69	0.71	0.73	0.73	0.73	0.73	0.73
4	0.52	0.54	0.55	0.57	0.59	0.59	0.59	0.59	0.59
$^{\circ}\text{C}$	1	2	3	4	5	6	8	10	12

Correction Factor for Refrigerants

T.Room ($^{\circ}\text{C}$)	1	2	3	4	5	6	8	10	12
R22	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
R134a	0.91	0.91	0.92	0.92	0.92	0.92	0.93	0.93	0.93
R404A	1	1	1	1	1	1	1	1	1
R507A	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97

Low Back Pressure Models

Easy Pack Models	Unit Cooler Models	Semi-Hermetic	Unit Cooler Models
EPS/EP L2480Z	TEM-L-2.2/12	SHT 2534 ZBR	TEM-L-7.5/40
EPS/EP L2511Z	TEM-L-3.7/22	SHT 2542 ZBR	TEM-L- 11.2/60
EP L2513Z	TEM-L-3.7/22	SHT 2552 ZBR	TEM-L- 11.2/60
EP L2516Z	TEM-L-5.6/30	SHT 2568 ZBR	TEM-L-14.9/80
EP L2522Z	TEM-L-5.6/30	SHT 2575 ZBR	TEM-L-18.7/100
EP L2525Z	TEM-L-5.6/30	SHT 2610 ZBR	TEM-L-22.4/120
-	-	SHT 2614 ZBR	TEM-L-26.2/140
-	-	SHT 2615 ZBR	TEM-L-30.0/160

UNIT COOLER

R-404A

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

Model	Rated Capacity $\Delta T = 7\text{ K}$ ($T_{\text{room}} = 0\text{ }^{\circ}\text{C}$)		Fan Motor					Defrost Heater			Weight (kg)
	W	Btu/hr	Nos	Dia Φ (mm)	Air Volume (m^3/hr)	Motor Power (W)	Volt (V)	Coil (W)	Drain Pan (W)	Volt (V)	
TEM-H-3.0/15	3,000	10,246	2	Φ 330	2 x 1700	2 x 90	220	900	600	220	30
TEM-H-4.1/20	4,100	14,002	2	Φ 330	2 x 1700	2 x 90	220	1,200	600	220	37
TEM-H-5.0/25	5,000	17,076	3	Φ 330	3 x 1700	3 x 90	220	1,200	600	220	49
TEM-H-8.0/40	8,000	27,321	2	Φ 400	2 x 3000	2 x 250	220	1,500	600	220	68
TEM-H-11.2/55	11,200	38,250	2	Φ 400	2 x 3000	2 x 250	220	2,100	600	220	77
TEM-H-16.2/80	16,200	55,326	2	Φ 500	2 x 6000	2 x 550	380	3,000	600	220	120
TEM-H-21.3/105	21,300	72,743	2	Φ 500	2 x 6000	2 x 550	380	4,200	600	220	132
TEM-H-25.0/125	25,000	85,379	3	Φ 500	3 x 6000	3 x 550	380	4,800	780	220	182
TEM-H-32.6/160	32,600	111,335	3	Φ 500	3 x 6000	3 x 550	380	6,000	800	220	193
TEM-H-37.6/185	37,600	128,411	4	Φ 500	4 x 6000	4 x 550	380	7,200	900	220	230
TEM-H-42.7/210	42,700	145,828	4	Φ 500	4 x 6000	4 x 550	380	7,800	900	220	260
TEM-H-57.4/280	57,400	196,031	4	Φ 500	4 x 6000	4 x 550	380	10,470	900	220	290

COMMERCIAL LOW TEMPERATURE REFRIGERATION

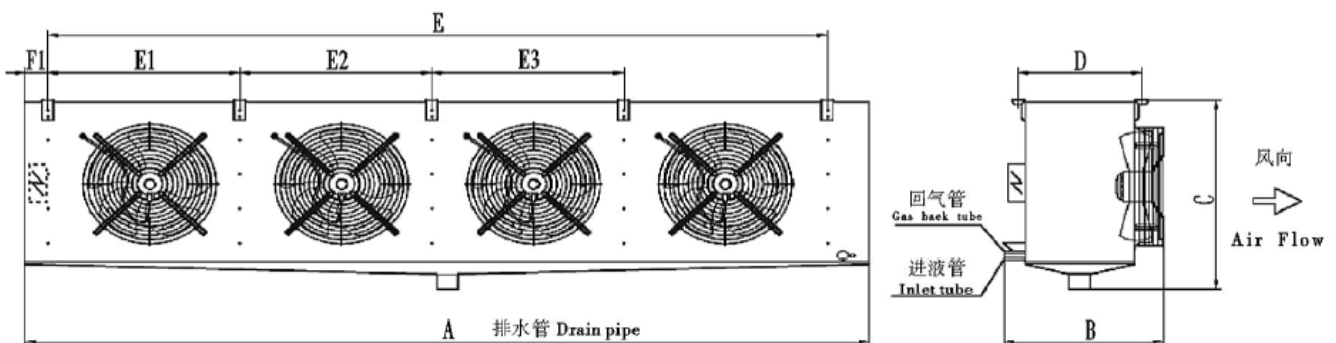
Model	Rated Capacity $\Delta T = 7\text{ K}$ ($T_{\text{room}} = -18\text{ }^{\circ}\text{C}$)		Fan Motor					Defrost Heater			Weight (kg)
	W	Btu/hr	Nos	Dia Φ (mm)	Air Volume (m^3/hr)	Motor Power (W)	Volt (V)	Coil (W)	Drain Pan (W)	Volt (V)	
TEM-L-2.2/12	2,200	7,513	2	Φ 330	2 x 1700	2 x 90	220	1,800	900	220	27
TEM-L-3.7/22	3,700	12,636	3	Φ 330	3 x 1700	3 x 90	220	1,800	1,200	220	45
TEM-L-5.6/30	5,600	19,125	2	Φ 400	2 x 3000	2 x 250	220	3,000	1,200	220	65
TEM-L-7.5/40	7,500	25,614	2	Φ 400	2 x 3000	2 x 250	220	4,200	1,200	220	73
TEM-L-11.2/60	11,200	38,250	2	Φ 500	2 x 6000	2 x 550	380	6,000	1,200	220	115
TEM-L-14.9/80	14,900	50,886	2	Φ 500	2 x 6000	2 x 550	380	7,800	1,200	220	125
TEM-L-18.7/100	18,700	63,864	3	Φ 500	3 x 6000	3 x 550	380	9,600	1,500	220	170
TEM-L-22.4/120	22,400	76,500	3	Φ 500	3 x 3000	3 x 250	380	12,000	1,500	220	180
TEM-L-26.2/140	26,200	89,478	4	Φ 500	4 x 6000	4 x 550	380	13,800	2,100	220	210
TEM-L-30.0/160	30,000	102,455	4	Φ 500	4 x 6000	4 x 550	380	15,600	2,100	220	240

UNIT COOLER

R-404A

DIMENSION

Model	A	B	C	D	E	E1	E2	E3	F1	Connection (Inch)		
										Liquid	Suction	Drainage
TEM-H-3.0/15 TEM-L-2.2/12	1000	440	490	325	780	-	-	-	80	1/2	3/4	3/4
TEM-H-4.1/20	1130	440	490	325	910	-	-	-			7/8	
TEM-H-5.0/25 TEM-L-3.7/22	1500	440	490	325	1275	-	460	-				
TEM-H-8.0/40 TEM-L-5.6/30	1330	470	630	365	1060	-	-	-	95	5/8	1"1/8	1"
TEM-H-11.2/55 TEM-L-7.5/40	1600	470	630	365	1330	-	-	-				
TEM-H-16.2/80 TEM-L-11.2/60	1920	635	730	435	1650	800	-	-				
TEM-H-21.3/105 TEM-L-14.9/80	1920	635	730	435	1650	800	-	-	95	3/4	1"1/4	1"
TEM-H-25.0/125 TEM-L-18.7/100	2720	635	730	435	2450	800	800	-				
TEM-H-32.6/160 TEM-L-22.4/120	2720	635	730	435	2450	800	800	-				
TEM-H-37.6/185 TEM-L-26.2/140	3520	635	730	435	3250	800	800	800	95	3/4	1"1/2	1"
TEM-H-42.7/210 TEM-L-30.0/160	3520	635	730	435	3250	800	800	800				
TEM-H-57.4/280	3520	725	830	525	3250	800	800	800				



Dimension given in mm

SEMI-HERMETIC

SEMI-HERMETIC COMPRESSOR AND CONDENSING UNIT



Reliable, Compact, Robust
More Capacity, Tecumseh version

FEATURES AND PERFORMANCE

Tecumseh Capacity

To complement our existing ranges, we have selected high and low pressure R404A compressors, from 6HP up to 30HP. Our semi-hermetic unit include:

- a semi-hermetic compressor
- an air-cooled HTA version twin-fan condenser
(up to 46 °C ambient temperature)
- a large liquid receiver
- discharge vibration absorber
- suction and discharge valves
- silentbloc system
- electronic protection module
- crankcase heater

Tecumseh Efficiency

The best of semi-hermetic technology now available in Tecumseh range. With our units, you can fit a frequency converter (Inverter), a power regulator and/or a unload start-up system for improved energy consumption.

Tecumseh Interchangeability

The semi-hermetic compressor lets the user monitor changes in refrigerants and access the mechanics of the system. We put all of the accessories at your disposal to help you develop your installation, regulate the capacity and even reconfigure the compressor.

Tecumseh Robustness

The semi-hermetic compressor represents **tried and tested technology** which is constantly being improved.

- multi- refrigerant compressors R404A, R134a, R22, R407C, R507
- optimized valve-plates
- centrifugal disk lubrication
- thermistors within the electric coils linked to an INT protection module

SEMI-HERMETIC

Compressor Nomenclature

SH	4	591	Z	YZ
Compressor family	Application	BTU Capacity (First digit) Rated BTU Capacity (Last two digits)	Refrigerant	Supply

In this example (5) total digits,
Example: 91,000 Btu/hr

Application Parameters
Evap. Temp.
2 = Low
4 = High

Primary Refrigerant
Z = R404A/R507

YZ = Electric motor for direct start [DOL]
MZ = Electric motor for part winding start [PWS]

Condensing Unit Nomenclature

SHT	4	591	Z	H	R
Compressor family	Application	BTU Capacity (First digit) Rated BTU Capacity (Last two digits)	Refrigerant	Suction Pressure	R for unit with receiver tank

In this example (5) total digits,
Example: 91,000 Btu/hr

Application Parameters
Temp.
2 = Low
4 = High

Pressure Codes
H = High
B = Low

Primary Refrigerant
Z = R404A/R507

SEMI-HERMETIC

Compressor Model (High Temperature Refrigeration)	SH4550ZYZ	SH4576ZYZ	SH4613ZMZ	SH4623ZMZ	SH4641ZMZ
	SH4552ZYZ	SH4587ZYZ	SH4622ZMZ	SH4627ZMZ	SH4648ZMZ
	SH4564ZYZ	SH4591ZYZ	SH4615ZMZ	SH4632ZMZ	SH4661ZMZ
		SH4610ZYZ	SH4620ZMZ	SH4636ZMZ	
SH4612ZYZ					
Electric motor for direct start [DOL], motor winding with PTC thermistor ● 220-240V/380-420V/3/50Hz	√	√			
Electric motor for part winding start [PWS], motor winding with PTC thermistor ● 380-420V/3/50Hz /// 440-480V/3/60Hz			√	√	√
Electronic control unit T00ECA01 (motor winding temperature monitor)	√				
Electronic control unit T00ECA01D (motor winding temperature monitor and diagnostic)	▲	√	√		
Electronic control unit T00ECA11D (motor winding and discharge temperature monitor and diagnostic)				√	√
Forced lubrication with reversible pump				√	√
Electronic switch oil differential pressure Kriwan®				√	√
Oil charge POE (polyolester)	√ [32cSt]	√ [32cSt]	√ [32cSt]	√ [68cSt]	√ [68cSt]
Crankcase heater [230V, other voltage on request]	▲ [50 W]	▲ [70 W]	▲ [70 W]	▲ [150 W]	▲ [150 W]
Opto-electronic oil level control [T00WK252]	▲	▲	▲	▲	▲
Oil level regulator T00EC1900 [230V]	▲	▲	▲	▲	▲
Discharge temperature sensor		▲	▲	√	√
Capacity control [230V coil, other voltages on request]		▲ 100% 50%	▲ 100% 50%	▲ 100% 50%	▲ 100% 66-33%
Unloaded start [230V coil, other voltages on request]		▲	▲	▲	▲
Suction and discharges valves	√	√	√	√	√
Additional cooling fan motor [230V]	▲ [SZ-FM1]	▲ [SZ-FM9]	▲ [SZ-FM2S]	▲ [SZ-FM2V]	▲ [SZ-FM3]
Flange + oil equalizing valve	▲	▲	▲	▲	▲
Rubber antivibration mountings [other dimensions and hardness on request]	▲ [30x30] [45Sh]	▲ [40x40] [45Sh]	▲ [50x50] [55Sh]	▲ [30x50] [55Sh]	▲ [50x40] [55Sh]
Compressor Model (Low Temperature Refrigeration)	SH2511ZYZ	SH2529ZYZ	SH2553ZMZ	SH2579ZMZ	SH2613ZMZ
	SH2517ZYZ	SH2534ZYZ	SH2568ZMZ	SH2594ZMZ	SH2615ZMZ
	SH2519ZYZ	SH2542ZYZ	SH2575ZMZ	SH2610ZMZ	SH2621ZMZ
	SH2520ZYZ	SH2552ZYZ		SH2611ZMZ	
	SH2524ZYZ			SH2614ZMZ	
	SH2526ZYZ				

√ Standard ▲ Optional

SEMI-HERMETIC COMPRESSOR

R-404A

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

Model	No of Cylinder	Displacement (m ³ /h)	EN12900 (RTG 20 °C) Capacity (Watt)			Current		Diameter of Connection		Oil Charge (cm ³)	Weight (kg)
			-15 °C	-10 °C	-5 °C	I Nom (Amps)	I Max (Amps)	Suction (Inches)	Discharge (Inches)		
SH 4550ZYZ	2	13.15	4,710	5,840	7,150	8.4	8.8	1"1/8	5/8	1,200	49.0
SH 4552ZYZ	2	15.36	5,550	6,790	8,240	9.6	10.1	1"1/8	5/8	1,200	49.0
SH 4564ZYZ	2	16.40	6,110	7,560	9,250	10.7	11.6	1"1/8	3/4	1,200	55.0
SH 4576ZYZ	4	21.18	7,160	9,000	11,081	10.6	11.6	1"1/8	3/4	1,600	79.0
SH 4587ZYZ	4	23.91	8,230	10,290	12,680	11.9	13.8	1"1/8	7/8	1,600	79.0
SH 4591ZYZ	4	24.69	8,640	10,730	13,164	12.6	12.7	1"1/8	7/8	1,600	79.0
SH 4610ZYZ	4	28.02	10,210	12,620	15,409	16.4	17.6	1"3/8	1"1/8	1,600	79.0
SH 4612ZYZ	4	32.66	11,800	14,570	17,778	18.6	20.0	1"3/8	1"1/8	1,600	79.0
SH 4613ZMZ	4	32.80	12,190	14,980	18,190	18.6	20.4	1"3/8	1"1/8	2,900	117.0
SH 4615ZMZ	4	41.32	14,020	17,630	21,829	20.7	22.4	1"3/8	1"1/8	2,900	120.0
SH 4620ZMZ	4	51.50	19,640	24,050	29,128	30.1	32.4	1"5/8	1"1/8	2,900	126.0
SH 4622ZMZ	4	56.00	21,690	26,530	32,090	34.9	38.4	1"5/8	1"1/8	2,900	132.0
SH 4623ZMZ	4	58.48	20,480	25,750	31,900	32.5	35.3	2"1/8	1"3/8	4,000	174.0
SH 4627ZMZ	4	70.77	24,810	31,050	38,340	38.2	43.5	2"1/8	1"3/8	4,000	184.0
SH 4632ZMZ	4	83.81	30,380	37,830	46,490	44.3	49.2	2"1/8	1"3/8	4,000	187.0
SH 4636ZMZ	4	93.05	31,850	40,270	50,090	45.8	53.1	2"1/8	1"3/8	4,000	192.0
SH 4641ZMZ	6	106.16	38,310	47,670	58,650	50.7	60.2	2"1/8	1"3/8	3,700	223.0
SH 4648ZMZ	6	125.72	44,350	55,400	68,340	58.1	71.9	2"5/8	1"5/8	7,200	240.0
SH 4661ZMZ	6	154.38	54,580	68,090	83,770	73.9	90.4	2"5/8	1"5/8	7,200	244.0

SEMI-HERMETIC COMPRESSOR

R-404A

COMMERCIAL LOW TEMPERATURE REFRIGERATION

Model	No of Cylinder	Displacement (m ³ /h)	EN12900 (RTG 20 °C) Capacity (Watt)				Current		Diameter of Connection		Oil Charge (cm ³)	Weight (kg)
			-35 °C	-30 °C	-25 °C	-20 °C	I Nom (Amps)	I Max (Amps)	Suction (Inches)	Discharge (Inches)		
SH 2511ZYZ	2	9.880	1,430	1,950	2,550	3,260	3.9	5.5	5/8	1/2	1,000	38.0
SH 2517ZYZ	2	13.150	2,140	2,830	3,670	4,660	8.8	12.4	7/8	5/8	1,200	45.0
SH 2517ZYZ	2	13.150	2,140	2,830	3,670	4,660	5.0	7.1	7/8	5/8	1,200	45.0
SH 2519ZYZ	2	15.360	2,400	3,180	4,100	5,200	5.5	8.4	7/8	5/8	1,200	45.0
SH 2520ZYZ	2	16.400	2,530	3,430	4,500	5,750	6.4	9.9	1"1/8	5/8	1,200	49.0
SH 2524ZYZ	2	17.930	3,120	4,060	5,170	6,470	6.9	10.0	1"1/8	5/8	1,200	49.0
SH 2526ZYZ	2	19.120	3,470	4,440	5,590	6,940	7.3	9.8	1"1/8	5/8	1,200	49.0
SH 2529ZYZ	4	23.910	3,500	4,780	6,300	8,070	7.2	11.7	1"1/8	3/4	1,600	79.0
SH 2534ZYZ	4	28.020	4,435	5,956	7,750	9,867	8.8	14.0	1"3/8	7/8	1,600	79.0
SH 2542ZYZ	4	32.660	5,514	7,227	9,250	11,628	9.8	14.4	1"3/8	1"1/8	1,600	79.0
SH 2552ZYZ	4	35.860	6,643	8,661	11,040	13,811	12.8	19.4	1"3/8	1"1/8	1,600	79.0
SH 2553ZMZ	4	41.320	6,860	9,280	12,080	15,330	12.1	20.3	1"3/8	1"1/8	2,900	117.0
SH 2568ZMZ	4	51.500	9,146	11,915	15,080	18,767	15.9	24.5	1"3/8	1"1/8	2,900	120.0
SH 2575ZMZ	4	56.000	9,914	13,059	16,660	20,867	20.7	30.7	1"5/8	1"1/8	2,900	130.0
SH 2579ZMZ	4	58.480	10,330	13,550	17,240	21,530	21.4	31.1	1"5/8	1"1/8	4,000	170.0
SH 2594ZMZ	4	70.770	12,260	16,100	20,480	25,570	22.1	32.2	1"5/8	1"1/8	4,000	174.0
SH 2610ZMZ	4	83.810	13,500	17,990	23,310	29,560	26.3	42.6	1"5/8	1"1/8	4,000	180.0
SH 2611ZMZ	4	93.050	13,680	18,780	24,810	31,860	28.7	52.3	2"1/8	1"3/8	4,000	200.0
SH 2614ZMZ	4	102.860	16,050	21,860	28,740	36,760	34.2	45.0	2"1/8	1"3/8	4,000	190.0
SH 2613ZMZ	6	106.160	16,530	22,510	29,670	38,150	32.6	53.6	2"1/8	1"3/8	3,700	220.0
SH 2615ZMZ	6	125.720	19,490	26,320	34,480	44,100	34.7	55.7	2"1/8	1"3/8	7,200	229.0
SH 2621ZMZ	6	154.380	27,440	35,960	45,590	56,710	45.8	77.9	2"5/8	1"5/8	7,200	240.0

SEMI-HERMETIC CONDENSING UNIT

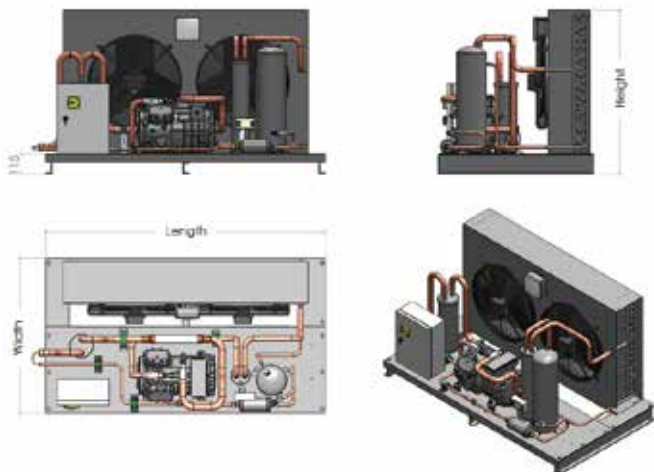
R-404A

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

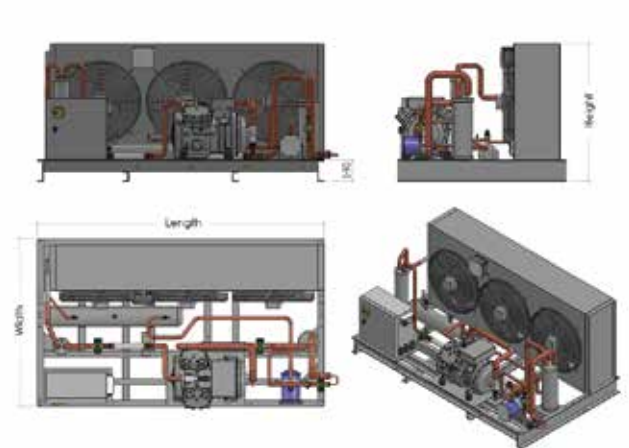
Model	EN13215 (RTG 20 °C) Capacity (Watt)			Current (Amps)		Diameter of Connection		Condenser Fan		Weight (kg)	Bases
	-15 °C	-10 °C	-5 °C	I Nom	I Max	Suction (Inches)	Liquid (Inches)	Nos	Dia. (mm)		
SHT 4576ZHR	8,592	10,299	12,069	13.1	14.1	1"1/8	5/8	2	500	177.0	II
SHT 4591ZHR	10,777	12,815	14,991	15.1	15.2	1"1/8	5/8	2	500	177.0	II
SHT 4610ZHR	11,839	14,082	16,459	18.9	20.1	1"3/8	5/8	2	500	182.0	II
SHT 4612ZHR	13,551	16,269	19,258	21.1	22.5	1"3/8	5/8	2	500	186.0	II
SHT 4615ZHR	17,292	20,446	23,743	23.2	24.9	1"3/8	7/8	2	500	232.0	II
SHT 4620ZHR	23,168	27,033	30,973	32.6	34.9	1"5/8	7/8	2	500	232.0	II
SHT 4622ZHR	23,860	28,120	32,720	38.5	42.4	1"5/8	7/8	3	500	320.0	III
SHT 4627ZHR	27,470	32,250	37,360	41.6	47.5	2"1/8	7/8	4	500	372.0	IV
SHT 4632ZHR	35,110	41,340	48,130	46.4	53.2	2"1/8	7/8	4	500	375.0	IV

DIMENSION

Base I and II



Base III



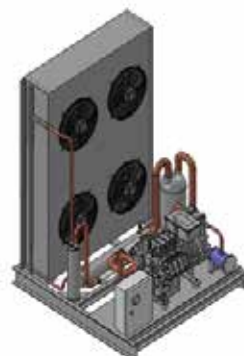
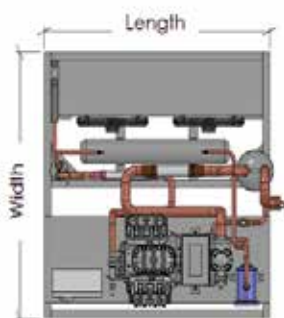
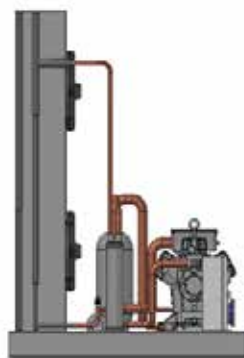
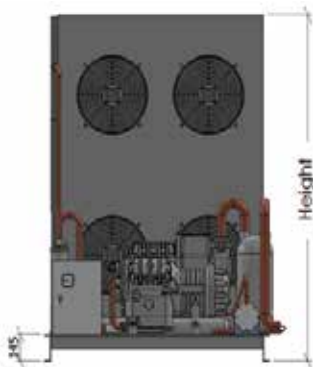
SEMI-HERMETIC CONDENSING UNIT

R-404A

COMMERCIAL LOW TEMPERATURE REFRIGERATION

Model	EN13215 (RTG 20 °C) Capacity (Watt)			Current (Amps)		Diameter of Connection		Condenser Fan		Weight (kg)	Bases
	-35 °C	-30 °C	-25 °C	I Nom	I Max	Suction (Inches)	Liquid (Inches)	Nos	Dia. (mm)		
SHT 2534ZBR	4,738	6,181	7,825	11.3	16.6	1"3/8	5/8	2	400	177.0	I
SHT 2542ZBR	5,545	7,026	8,674	12.3	16.9	1"3/8	5/8	2	500	182.0	II
SHT 2552ZBR	6,619	8,417	10,369	15.3	22.0	1"3/8	5/8	2	500	186.0	II
SHT 2568ZBR	9,089	11,560	14,237	18.4	27.0	1"3/8	5/8	2	500	227.0	II
SHT 2575ZBR	10,548	13,553	16,852	23.3	33.2	1"5/8	5/8	2	500	242.0	II
SHT 2610ZBR	14,610	18,480	22,570	29.6	42.4	1"5/8	7/8	3	500	367.0	III
SHT 2614ZBR	16,477	20,856	25,565	37.3	47.5	2"1/8	7/8	4	500	391.0	IV
SHT 2615ZBR	20,210	25,270	30,740	38.0	53.2	2"1/8	7/8	4	500	416.0	IV

DIMENSION



Base	Length	Width	Height
I	1,600	690	690
II	1,600	890	936
III	1,880	1,100	905
IV	1,368	1,440	1,875

Dimension given in mm





Tecumseh

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