Tecumseh

CATALOGUE
CONDENSING UNITS
EUROPEAN RANGE 50Hz

COOLING FOR A BETTER TOMORROW ™


Tecumseh

A WORD FROM THE DIRECTOR

Tecumseh Europe has been established for more than 85 years as a major player in commercial refrigeration, combining product expertise and commitment to its customers.

Our reputation as a key player in the market is based on the simple principles driving our business: understanding our customers' issues and meeting their needs. It is thanks to the trust placed in us by each of our customers that we can continue to innovate and offer appropriate solutions.

Rising to the challenges currently facing our industry, combining professional expertise and passion, the Tecumseh teams are fully mobilised and at your side.

François Bouillot
Managing Director

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INTRODUCTION

AN INTERNATIONAL PLAYER

The **mission** of Tecumseh Europe, subsidiary of American Group Tecumseh Products Company, is to make life better through cooling. Tecumseh improves everyday life by offering a full range of compressors and condensing units. These products are intended for customers' food preservation and thermal comfort applications.

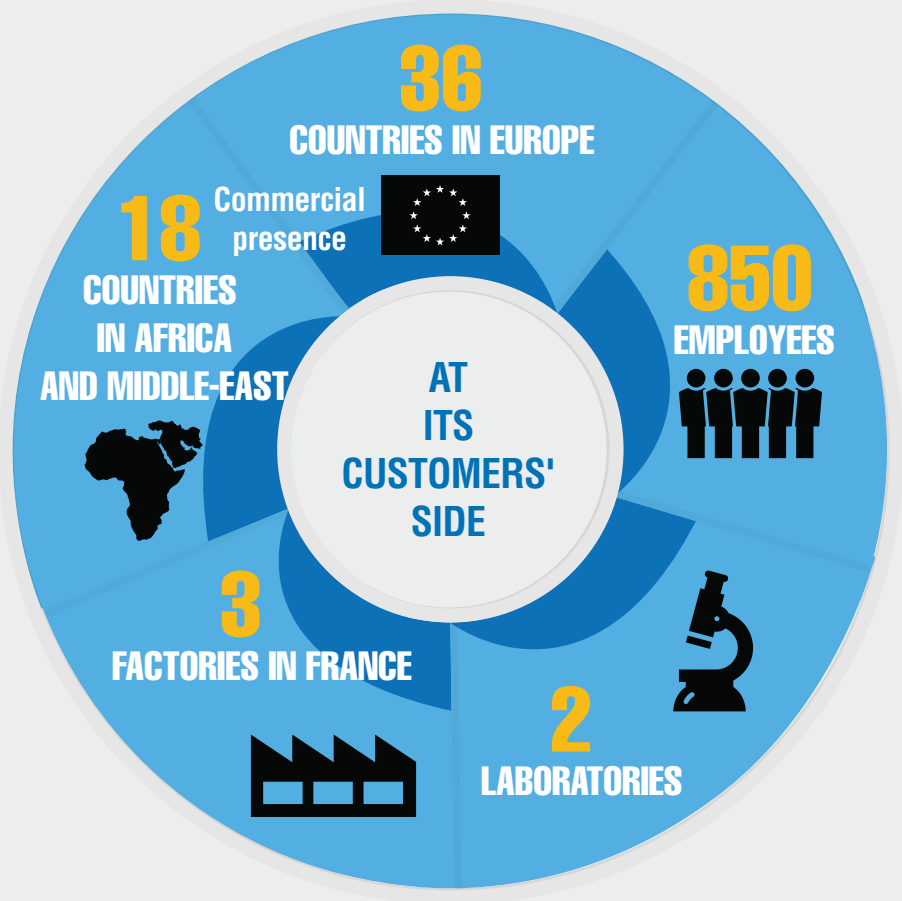
Tecumseh **aims** to become the expert in innovative, sustainable and safe cooling solutions for commercial use.

Aiming for global success and exceeding its results, Tecumseh is committed to participating in the success of its customers by offering innovative, certified and environmentally-friendly products.

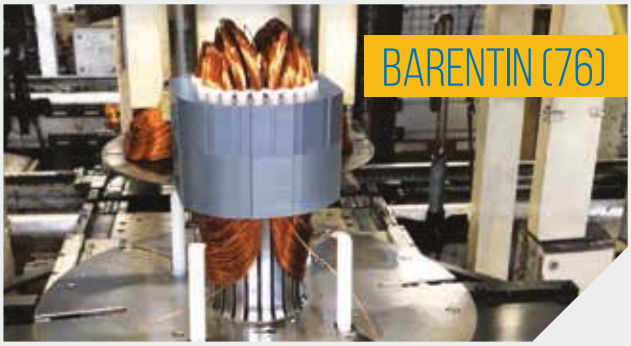
TECUMSEH AROUND THE WORLD

A LOCAL PRESENCE

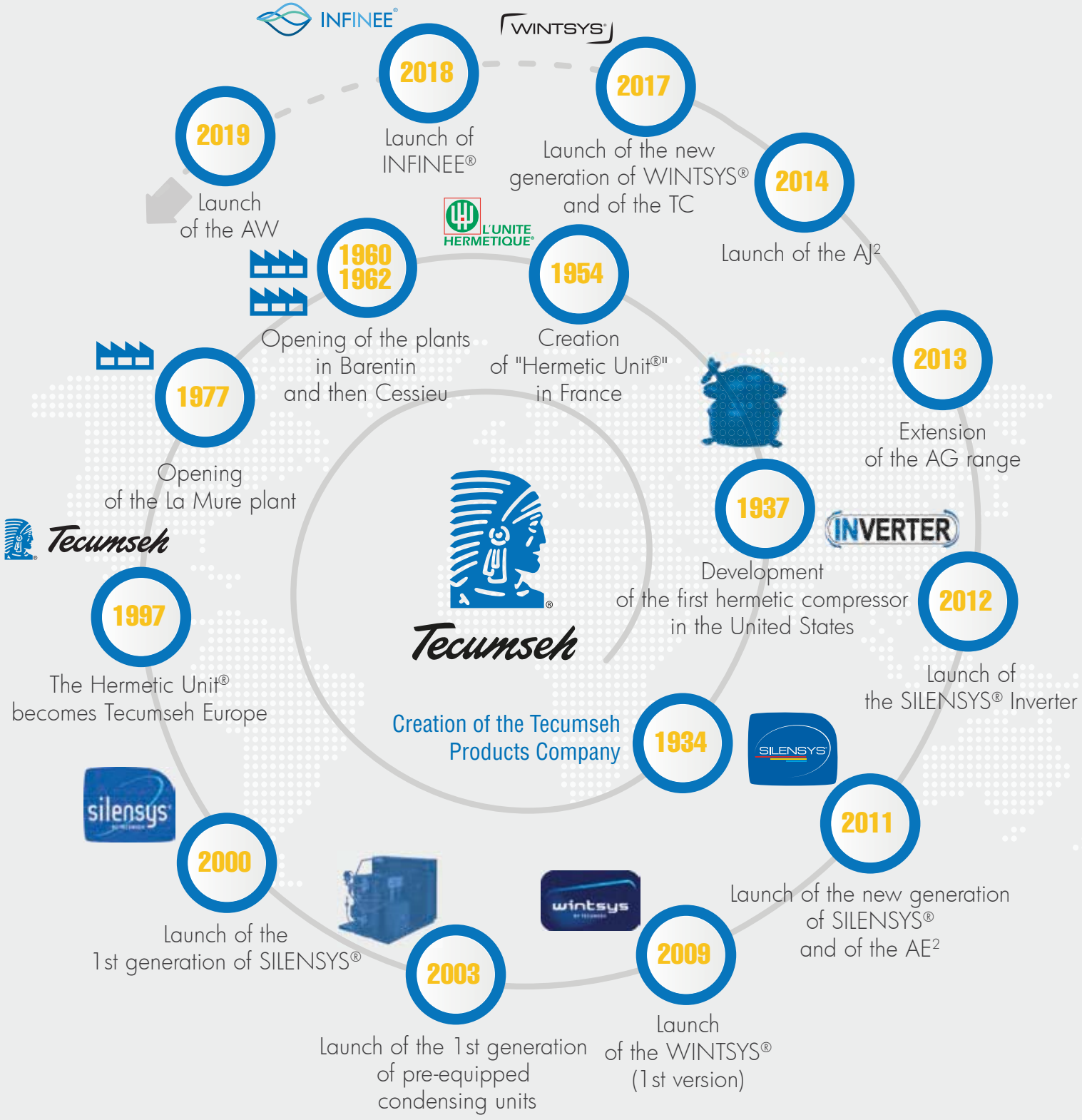
Tecumseh's largest geographic area, Tecumseh Europe, covers the whole of Europe and Africa. The headquarters of this subsidiary is located in the Auvergne-Rhône-Alpes region of France, in the heart of Europe. In order to be as close as possible to its customers, the company has a reinforced commercial presence across the entire area, with offices in Germany, Spain, Italy, Poland, the United Kingdom and Morocco, and European coverage extending as far as Russia.



OUR PLANTS IN FRANCE



MORE THAN
80 YEARS OF EXPERTISE



INTEGRITY - EXCELLENCE
PASSION - TEAM SPIRIT - RESPECT

Listed in the Tecumseh Products Company's DNA, our values are expressed in the daily lives of all teams around the world by guiding our actions and behaviors.

Integrity is a value based on the principle of consistency. We carry ourselves in a way where integrity is visible through our actions, words, decisions, methods and outcomes. We lead with honesty and authenticity and move forward with intentionality and thought. We are who we are always, regardless of the situation or the environment we are in. We recognize our impact on the world and those around us and are actively focused on the development of character. Most importantly, we lead by example and draw those around us to be on the same journey.

Excellence is also a founding value. By engaging with our customers, suppliers and partners, we always looking for perfection. The highest degree of quality applies everywhere: design of compressors and condensing units, search for safety, understanding customer needs. We share this desire to go beyond ourselves to offer the best to our customers.

If for 85 years, we have been dedicated to a single profession, commercial refrigeration is primarily for **passion**. Passion for what refrigeration brings to individuals: serenity, pleasure. Passion also for a profession concerning a precision industry, with the desire to design new solutions and deploy the enthusiasm to create them. Passion drives each of our 5,000 employees every day.

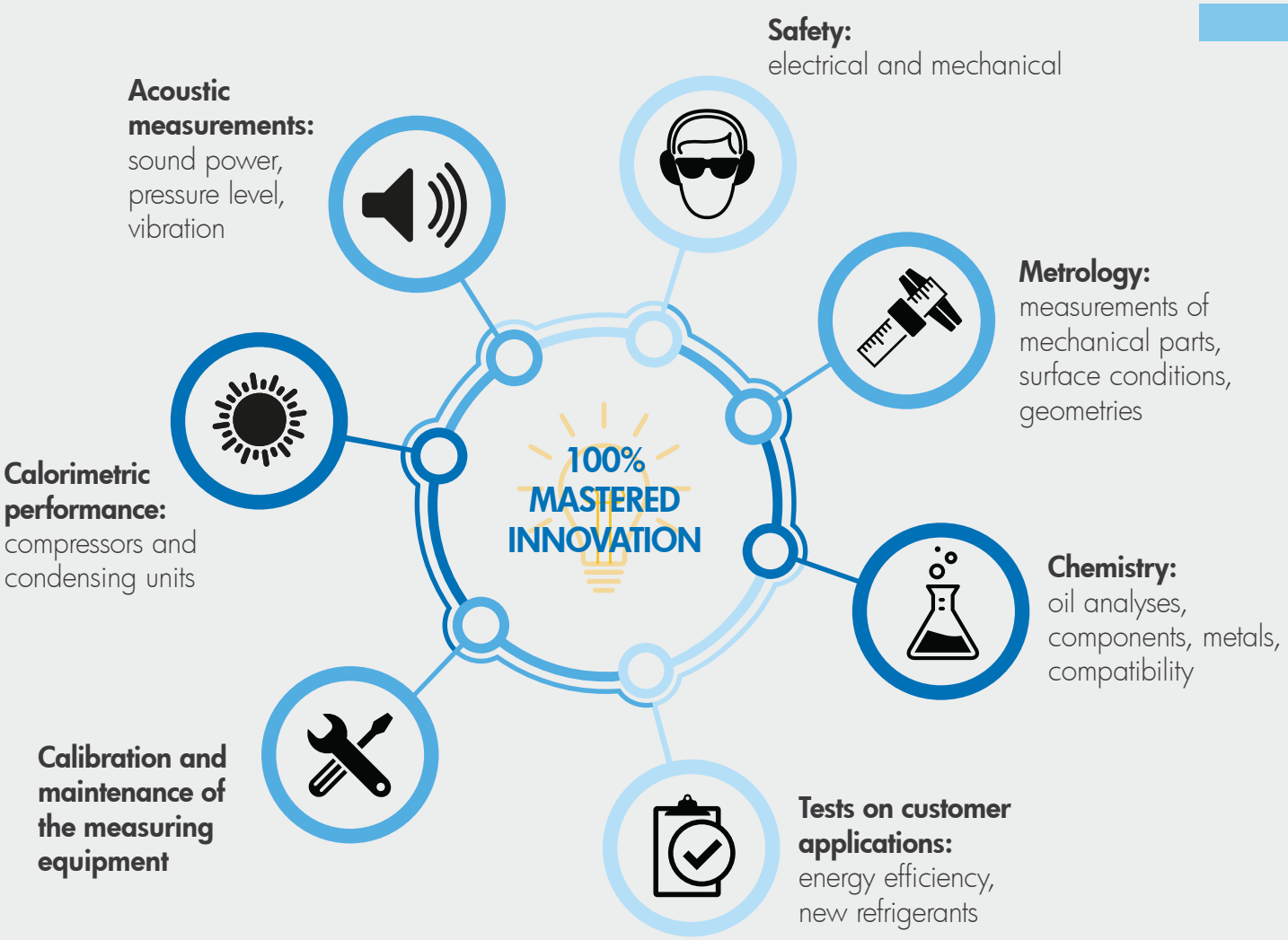
Teamwork is a value that has always been rooted in our practices and the involvement of our employees. It is the union of all our talents that shapes this spirit: the skills of one team with the expertise of others and thus contribute to our success. This team spirit gives full meaning to the relationship we build with our customers, partners and suppliers.

Finally, **respect** is embedded in our culture, animated since its inception by deep human values. Diversity and complementarity are considered as a wealth, a source of dynamism and creativity. Beyond an attitude of listening, respect is about fulfilling commitments in the long term. Respect is an integration of internal social responsibility as well as environmental responsibility.

THE TECUMSEH LABORATORIES

Reliability and efficiency are the key words for all Tecumseh products.

Our laboratories are unique tools, carrying out a range of R&D tests, certifications and measurements specific to the condensing units and compressors. In this way, Tecumseh guarantees customers the optimum operation and service life for its products.



29 TEST CHAMBERS AND 4 MOTOR TEST BENCHES

17 calorimeters

3 endurance rooms

2 acoustic rooms

7 climatic rooms

50 engineers and technicians

800 test reports per year

1200 measuring sensors

2500 products tested by year

CERTIFIED PRODUCTS

Tecumseh wishes to provide its customers with innovative products and services of excellent quality and high added value. So, it favours product certification.

QUALITY AND ENVIRONMENT

The two Management systems run by Tecumseh testify to its day-to-day commitment and its ability to maintain and advance its certifications.

ASERCOM

An active member of ASERCOM for more than 20 years, Tecumseh Europe submits all its products to the association certification procedures.

ASERCOM
ASSOCIATION OF EUROPEAN REFRIGERATION COMPONENT MANUFACTURERS

The performance and quality of Tecumseh products are measured in the laboratory in accordance with the procedures and conditions defined by standards EN 13771-1 and -2 and declared in accordance with EN 13215 and EN 12900. They are also compared to the competing products certified by ASERCOM.

ISO 17025 by the COFRAC

Audited every year, the laboratory is accredited for 2 test programmes:

- ▶ Refrigerating performance of compressors and condensing units
- ▶ Electrical and mechanical safety

The laboratory guarantees the accuracy of the measurements provided and the conformity of the products to installers, specifiers and users.

Accreditation n° 1-6140.
Scope available on
www.cofrac.fr

cofrac ESSAIS

ISO 9001, version 2015:
Quality Management System

This certification fulfils the needs and expectations of our customers by offering products that meet the requirements of the European regulation.

afaq ISO 9001 Qualité AFNOR CERTIFICATION

ISO 14001, version 2015:
Environmental Management System

The Cessieu plant has received ISO 14001 certification. This certification attests to Tecumseh's commitment to environmental aspects.

THE ENVIRONMENTAL TRANSITION

The condensing units offered by Tecumseh meet the requirements of the European directives:

▶ The requirements of the European **Ecodesign directive 2009/125/EC** relating to electrical devices affecting the level of energy efficiency of the condensing units through EU Regulation 2015/1095-Lot 1.

▶ The application of the European **F-Gas directive 517/2014** is gradually restricting the use of Hydrofluorocarbon (HFC) liquid refrigerants over time, with a high level of reduction of the marketing of new products imposed in 2018 and 2021.

THE ADVANTAGES OF THE TECUMSEH RANGE, YOUR PARTNER OF CHOICE:

▶ Condensing units with low power consumption
▶ An approved range with liquid refrigerants A1, A2L and A3
▶ A wide and varied range

A CHOICE OF LOW GWP FLUIDS

Since January 2018, there is a range of hermetic condensing units compatible with fluids having a GWP (Global Warming Potential) which are 50 to 60% lower than the fluids that they replace, those available are:

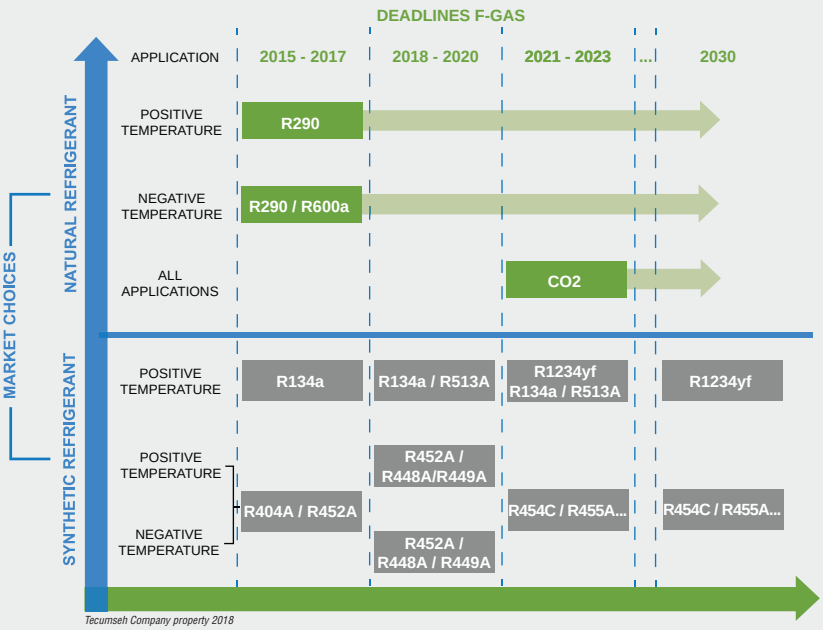
▶ **R452A/R404A** for low pressure and medium high pressure
▶ **R134a/R513A** for medium high pressure

THE LIQUID REFRIGERANT ROADMAP

By 2030, the F-Gas directive will limit the availability of HFCs, all fluids and all applications combined to 21%.

Between 2020 and 2022, additional measures will prohibit the use of HFCs with high GWP for certain applications such as fixed refrigeration equipment or mobile air conditioning.

Eventually, in order to limit the proliferation of alternatives, the choices of liquid refrigerants for commercial refrigeration will be made according to market requirements, which tend to synthetic fluids or natural fluids with GWP lower than 150.



ROADMAP OF PRODUCT LAUNCHES IN LINE WITH THE F-GAS CUT-OFF DATES

FOCUS ON
LIQUID REFRIGERANTS WITH GLIDE

TEMPERATURE OF THE LIQUID REFRIGERANTS DURING THE CHANGE OF STATE IN EXCHANGERS

▶ Definition:

The azeotropic mixtures (such as R404A) have a similar behaviour to the pure fluids (such as R134a). They condense and evaporate at an almost constant temperature.

The R452A, R449A and R448A refrigerants are non-azeotropic mixtures, also called "zeotropic mixtures". They show significant variation in temperature during the change of state at constant pressure. This temperature variation is called glide.

Therefore, a mean temperature (Tm) is defined to present the performance of systems operating with these zeotropic liquid refrigerants, and to compare them to the pure fluids.

Subcooling is determined from the Bubble Temperature.
Superheating is determined from the Dew Point Temperature.
Glide is defined by the difference between the Dew Point Temperature and the Bubble Temperature at constant pressure.

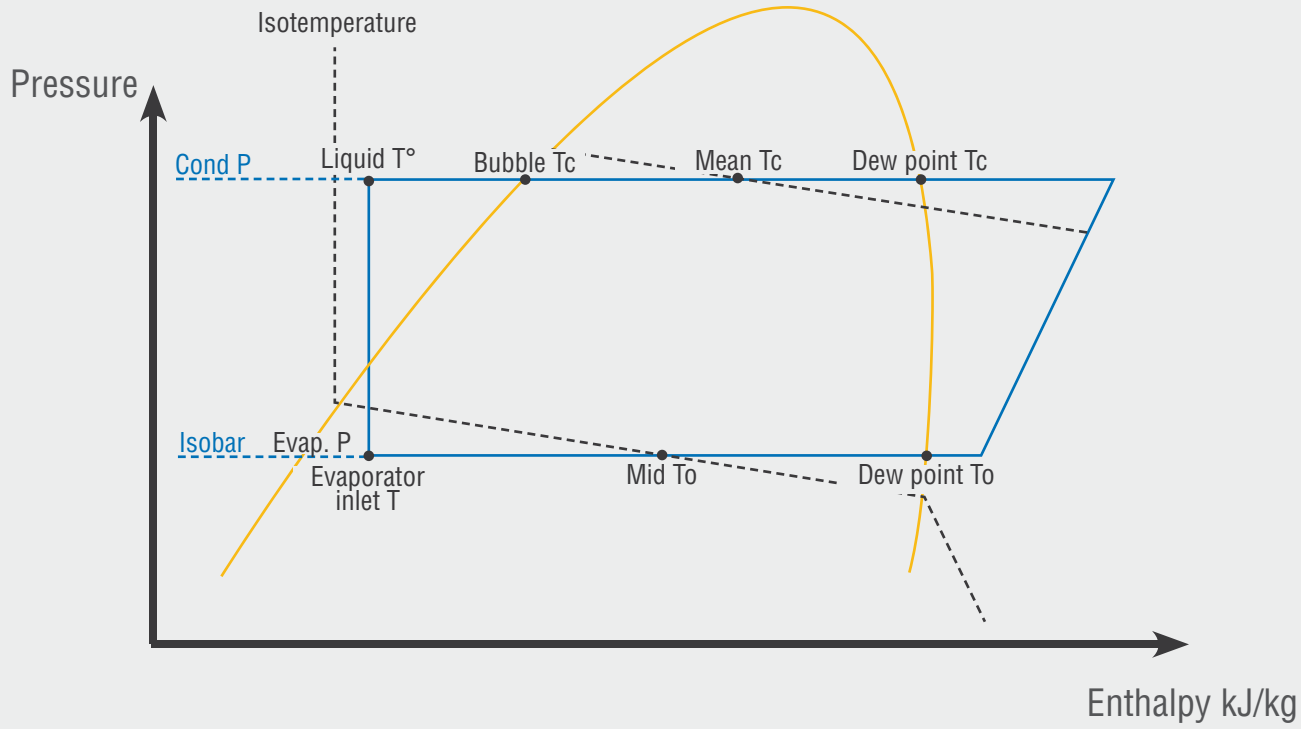
Mean condensing temperature:

$$Tc\_m = \frac{((\text{Dew point Tc} + \text{Bubble Tc}))}{2}$$

The mean evaporation temperature 'Tm' is defined by the relationship:

$$To\_m = \frac{((\text{Evaporator inlet T} + \text{Dew point To}))}{2}$$

▶ Diagram:



FROM THE SIMPLEST…

TRADITIONAL CONDENSING UNITS

W COOLING CAPACITY
ACCORDING TO EN13215 and SH 10 K

-30°C evap.: from 0.2 to 5.9 kW
-10°C evap.: from 0.1 to 17 kW

▶ A stretch of cooling capacity to suit all requirements with high efficiency

▶ Compactness for ease of integration within applications

▶ Recognised reliability

OPTION:
▶ Liquid line with full pre-equipped units

WINTSYS®

PRE-EQUIPPED AND EASY TO INSTALL

W COOLING CAPACITY
ACCORDING TO EN13215 and SH 10 K

-30°C evap.: from 0.4 to 1.6 kW
-10°C evap.: from 0.7 to 4.4 kW

▶ A competitive plug & play unit for demanding outdoor solutions

▶ Easy to install

APPLICATIONS

… TO THE MOST EXTENSIVELY EQUIPPED

SILENSYS®

THE ACOUSTIC REFERENCE ON THE MARKET

W COOLING CAPACITY
ACCORDING TO EN13215 and SH 10 K

-30°C evap.: from 0.5 to 6.1 kW
-10°C evap.: from 0.7 to 17 kW

- ▶ An acoustic solution for urban environments
- ▶ High energy efficiency without compromise on the components
- ▶ Enhanced electrical safety and complete electrical equipment

SILENSYS® INVERTER

PLUG & PLAY CAPACITY VARIATION

W COOLING CAPACITY
ACCORDING TO EN13215 and SH 10 K

-10°C evap.: from 0.7 to 17.3 kW

- ▶ Continuity of cooling the system assured by its dual control
- ▶ Variable capacity to suit the following types of installation:
  - multi-station
  - with extensive variation of heat load
- ▶ Advantages:
  - complete wiring
  - factory configuration
  - Tecumseh standard compressor

EXPLANATION
OF THE MODEL NAMES DESCRIPTION

T AJ N T 4 5 19 Z H R

Connection
Letter absence = with valve or to be soldered
R = with liquid reservoir

H = High suction pressure (-15°C to + 15°C)
B = Low pressure (-40°C to -10°C)
M = Medium and high suction pressure (-25°C to +15°C)

U = Refrigerant R290
Y = Refrigerant R513A – R134a
Z = Refrigerant R452A – R404A

Corresponds to the first digits of the cooling capacity expressed in BTU/h at 60 Hz in accordance with the given rating point conditions.
Example: 19 preceded by the digit 5 means: 19,000 BTU/h.

Number of figures making up the cooling capacity.
Example: 19,000 BTU/h.

Applications
2 = Low back pressure. Motor with high starting torque.
3 = High back pressure. Motor with high normal starting torque.
4 = High back pressure. Motor with high starting torque.
9 = Medium and high back pressure. Motor with high starting torque.

Condensing units
T = HAT (High Ambient Temperature)

Condensing units
N = New model AJ
Compressors
The letter **D** designates compressors or units mounted as a "duo".
The letter **T**R designates compressors mounted as a "trio".

Families: THB-AE-AJ-FH-AW-AG-HGA-RGA-SH.

Without letter = single-phase low torque
C = single-phase high torque
T = three-phase

COMPRESSOR DESIGNATION

CONDENSING UNIT DESIGNATION

Compressors or units supplied with oil under nitrogen pressure with suspension clearances. Adjustable valves supplied not mounted.

EXPLANATION
OF THE CODES AND VOLTAGE RANGES

CODE	FZ	XC	KZ	TZ - XG
PHASE	1~	1~	3~	3~
NOMINAL 50 Hz	220-240 V	220-240 V	220 V	400 V
VOLTAGE RANGE 50 Hz	198-253 V	198-264 V	180-253 V	340-440 V

SERIAL
LABEL

REFERENCE	DESIGNATION
A	Voltage
B	Frequency
C	Number of phases
D	Nominal current
E	Production order number
F	Liquid refrigerant
G	Designation of the unit
H	Serial number

TRADITIONAL CONDENSING UNITS

EQUIPMENT

ELECTRICAL COMPONENTS

- AC fans (AJ platform: EC fans), compatible with variable speed
- IP 44 electrical box
- Casing heater (AW, FH, AG)
- Compressor electrical protection

CIRCUIT

- Adjustable HP/LP pressure switch with automatic resetting on AW, FH and AG
- Condenser up to 46°C
- Liquid reservoir

INSTALLATION/MAINTENANCE

- Isolation valves, charge points and vacuum drawing

PRE-EQUIPPED TRADITIONAL CONDENSING UNITS

- Reduction in installation time recognised by installers (between half an hour and one hour)
- Increased safety with all components checked

sight glass

dryer filter

HP/LP pressure switch with manual or automatic resetting

fittings to be soldered (CAJN/TAJN units)

ACCESSORY: fan speed control kit

TRADITIONAL CONDENSING UNITS

LBP

R452A

Special condensing units*

MODEL NUMBER	REFRIGERATION OUTPUT 43 ° amb., 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C):						REFRIG. OUTPUT EN13215 Evap. T -35°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-35°	-30°	-25°	-20°	-15°	-10°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
CAJT2432ZBR	243	359	497	656	839	1046	397	0.83	39	1130	1.50	1/2"	1/4"	34/36	M300	6.5	na
CAJT/TAJT2446ZBR	384	538	711	901	1110	1343	625	0.96	40	1130	1.50	1/2"	3/8"	36/38	M300	8.8	3.3
CAJT/TAJT2464ZBR	545	745	980	1255	1571	1931	844	0.93	45	2464	1.50	5/8"	3/8"	47/51	M350	10.7	3.8

na: not applicable

** Special: Tropical units formerly called HTA.*

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32 ° amb., 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C):						REFRIG. OUTPUT EN13215 Evap. T -35°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-35°	-30°	-25°	-20°	-15°	-10°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
AET2415ZBR	159	209	267	331	402	479	184	0.80	28	340	0.75	3/8"	1/4"	20/21	M200	3.2	na
AET2420ZBR	201	268	345	434	533	643	232	0.88	27	410	0.75	3/8"	1/4"	20/21	M200	4.6	na
CAJ/TAJN2428ZBR	245	334	440	562	703	863	283	0.80	26	550	1.50	1/2"	1/4"	30/32	M250	5.3	2.2
AET2425ZBR	266	354	454	568	695	836	309	0.86	34	500	0.75	3/8"	1/4"	26/27	M250	4.6	na
CAJN2432ZBR	295	401	523	664	823	1003	342	0.86	28	550	1.50	1/2"	1/4"	30/32	M250	6.0	na
CAJN2440ZBR	416	573	758	970	1213	1489	473	0.98	27	900	1.50	1/2"	3/8"	32/34	M300	5.8	na
CAJ/TAJN2446ZBR	521	698	901	1129	1382	1659	600	1.04	31	900	2.35	1/2"	3/8"	33/35	M300	8.4	3.2
CAJ/TAJN2464ZBR	662	868	1103	1366	1657	1978	771	0.95	33	900	2.35	5/8"	3/8"	34/36	M300	10.2	4.0
FH/TFHT2480ZBR	1024	1375	1773	2219	2717	3273	1164	1.03	43	1750	1.50	5/8"	3/8"	57/61	M350	16.5	6.9
FH/TFHT2511ZBR	1279	1718	2217	2780	3423	4169	1465	1.06	46	1750	1.50	5/8"	3/8"	57/61	M350	24.6	7.8
TAGT2513ZBR	1472	2162	2959	3858	4856	5957	1631	0.95	51	3900	2.35	7/8"	3/8"	73/87	M420	na	9.3
TAGT2516ZBR	1773	2543	3434	4446	5586	6870	1992	1.09	50	3300	2.35	7/8"	3/8"	79/93	M420	na	10.2
TAGT2519ZBR	2066	2945	3968	5137	6464	7968	2317	1.60*	51	2500	3.90	7/8"	3/8"	85/105	M450	na	11.7
TAGT2522ZBR	2345	3271	4346	5573	6964	8540	2650	1.62*	51	2500	3.90	1"1/8	3/8"	86/100	M450	na	14.2
TAGT2525ZBR	2598	3597	4728	5993	7401	8974	2940	1.60*	54	2500	3.90	1"1/8	1/2"	87/101	M450	na	14.1
TAGDT2532ZBR	3586	5136	6909	8897	11100	13547	4020	1.63*	53	7000	6.00	1"1/8	1/2"	154/184	B420	na	21.3
TAGDT2538ZBR	4111	5738	7598	9687	12012	14612	4656	1.65*	53	7000	6.00	1"1/8	1/2"	154/184	B420	na	21.3
TAGDT2544ZBR	5010	6864	8918	11268	13932	16974	5707	1.65*	54	7000	6.00	1"1/8	1/2"	161/191	B420	na	29.0
TAGDT2550ZBR	5069	6982	9290	11913	14792	17834	5811	1.69*	57	7000	6.00	1"1/8	1/2"	161/191	B420	na	29.0
SHT2529ZBR-YZ	3603	4772	6063	7471	8997	10654	3729	1.92*	na	7600	3.90	1"1/8	1/2"	132/162	B420	na	14.0[c]
SHT2534ZBR-YZ	4479	5849	7376	9053	10872	12834	4667	1.88*	na	7000	3.90	1"3/8	5/8"	134/164	B420	na	16.3[c]
SHT2542ZBR-YZ	5332	6789	8422	10230	12210	14361	5637	1.86*	na	7000	6.00	1"3/8	5/8"	134/164	B420	na	16.7[c]
SHT2552ZBR-YZ	6694	8584	10715	13089	15703	18555	7002	2.04*	na	8270	6.00	1"3/8	5/8"	151/181	B420	na	21.7[c]
SHT2568ZBR-MZ	8666	10913	13349	16005	18901	22058	9207	1.99*	na	7600	9.50	1"3/8	5/8"	199/229	B500	na	27.2[d]
SHT2575ZBR-MZ	10142	13099	16380	20026	24065	28513	10551	2.13*	na	14600	9.50	1"5/8	5/8"	221/251	B500	na	33.2[d]

Statement of the seasonal COP / na: not applicable/ [a] voltage code XC, [b] voltage code XG, [c] voltage code YZ, [d] voltage code MZ

LBP

R404A

Special condensing units*

MODEL NUMBER	REFRIGERATION OUTPUT 43 ° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):						REFRIG. OUTPUT EN13215 Evap. T -35°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-35°	-30°	-25°	-20°	-15°	-10°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
CAJT2432ZBR	268	381	514	668	843	1039	465	0.95	38	1130	1.50	1/2"	1/4"	34/36	M300	6.5	na
CAJ/TAJT2446ZBR	396	543	708	890	1087	1298	701	1.01	40	1130	1.50	1/2"	3/8"	36/38	M300	8.8	3.3
CAJ/TAJT2464ZBR	557	755	985	1250	1548	1882	933	0.96	45	2464	1.50	5/8"	3/8"	47/51	M350	10.7	3.8

na: not applicable

For information, the cooling capacity of fluids R449A and R448A: at the evaporation point To = -30°C, SH10K, apply the multiplier ratio 0.94 to the cooling capacities read with R404A.

** Special: Tropical units formerly called HTA.*

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32 ° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):						REFRIG. OUTPUT EN13215 Evap. T -35°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-35°	-30°	-25°	-20°	-15°	-10°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
AET2415ZBR	160	208	263	323	389	459	202	0.83	28	340	0.75	3/8"	1/4"	20/21	M200	3.2	na
AET2420ZBR	206	271	347	432	526	628	259	0.92	27	410	0.75	3/8"	1/4"	20/21	M200	4.6	na
CAJ/TAJN2428ZBR	250	339	442	561	694	844	315	0.82	26	550	1.50	1/2"	1/4"	30/31	M250	5.3	2.2
AET2425ZBR	273	359	456	565	685	817	344	0.90	34	500	0.75	3/8"	1/4"	26/27	M250	4.6	na
HGA2426ZBR	299	385	482	597	729	880	375	1.07	37	1000	0.75	3/8"	1/4"	21/28	B200	3.8	na
CAJN2432ZBR	309	415	536	673	824	991	392	0.95	28	550	1.50	1/2"	1/4"	30/31	M250	6.0	na
HGA2432ZBR	367	467	578	705	848	1011	462	1.09	35	1000	0.75	3/8"	1/4"	21/28	B200	4.6	na
HGA2436ZBR	384	492	613	750	905	1080	484	1.08	39	1000	0.75	1/2"	1/4"	22/29	B200	5.4	na
CAJN2440ZBR	425	577	756	962	1194	1453	529	1.01	27	900	1.50	1/2"	3/8"	32/33	M300	5.8	na
HGA2446ZBR	494	636	794	974	1178	1409	623	1.11	38	1000	0.75	1/2"	3/8"	26/33	B200	5.8	na
CAJ/TAJN2446ZBR	530	707	907	1129	1370	1629	665	1.04	31	900	2.35	1/2"	3/8"	33/35	M300	8.4	3.2
CAJ/TAJN2464ZBR	678	881	1109	1361	1634	1924	856	0.98	33	900	2.35	5/8"	3/8"	34/36	M300	10.2	4.0
FH/TFHT2480ZBR	1068	1424	1822	2262	2743	3267	1323	1.08	43	1750	1.50	5/8"	3/8"	57/61	M350	16.5	6.9
FH/TFHT2511ZBR	1302	1743	2236	2782	3389	4073	1629	1.09	46	1750	1.50	5/8"	3/8"	57/61	M350	24.6	7.8
TAGT2513ZBR	1482	2092	2810	3632	4550	5553	1840	0.99	51	3900	2.35	7/8"	3/8"	73/87	M420	na	9.3
TAGT2516ZBR	1906	2681	3582	4605	5746	7005	2361	1.61*	50	3900	2.35	7/8"	3/8"	79/93	M420	na	10.2
TAGT2519ZBR	2117	2978	3977	5110	6377	7784	2629	1.70*	50	2500	3.90	7/8"	3/8"	85/105	M450	na	11.7
TAGT2522ZBR	2403	3306	4353	5542	6872	8343	2990	1.70*	51	2500	3.90	1"1/8	3/8"	86/100	M450	na	14.2
TAGT2525ZBR	2631	3589	4676	5888	7220	8671	3280	1.67*	54	2500	3.90	1"1/8	1/2"	87/101	M450	na	14.1
SHT2529ZBR	3378	4452	5661	7002	8473	10075	3813	1.69*	na	7600	3.90	1"1/8	1/2"	132/162	B420	na	14.0[c]
SHT2534ZBR	4197	5481	6926	8527	10275	12169	4753	1.69*	na	7000	3.90	1"3/8	5/8"	134/164	B420	na	16.3[c]
TAGDT2532ZBR	3713	5198	6906	8825	10941	13250	4612	1.73*	53	7000	6.00	1"1/8	1/2"	154/184	B420	na	21.3
TAGDT2538ZBR	4240	5803	7599	9613	11836	14268	5283	1.74*	53	7000	6.00	1"1/8	1/2"	154/184	B420	na	21.3
TAGDT2544ZBR	4755	6390	8264	10364	12687	15241	5944	1.75*	54	7000	6.00	1"1/8	1/2"	161/191	B420	na	29.0
SHT2542ZBR	5042	6424	7978	9703	11599	13666	5741	1.70*	na	7000	6.00	1"3/8	5/8"	134/164	B420	na	*16.7[c]*
TAGDT2550ZBR	5174	6903	8839	10971	13297	15835	6485	1.63*	57	7000	6.00	1"1/8	1/2"	161/191	B420	na	29
SHT2552ZBR	6387	8176	10219	12520	15076	17881	7206	1.89*	na	8270	6.00	1"3/8	5/8"	151/181	B420	na	*21.7[c]*
SHT2568ZBR	8076	10176	12451	14929	17629	20579	9252	1.83*	na	7600	9.50	1"3/8	5/8"	199/229	B500	na	*27.2[d]*
SHT2575ZBR	9525	12247	15300	18727	22557	26810	10749	1.77*	na	14600	9.50	1"5/8	5/8"	221/251	B500	na	*33.2[d]*

Statement of the seasonal COP / na: not applicable / [a] voltage code XC, [b] voltage code XG, [c] voltage code YZ, [d] voltage code MZ

LBP

R290

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32 ° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):						REFRIG. OUTPUT EN13215 Evap. T -35°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code
	-35°	-30°	-25°	-20°	-15°	-10°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ
AE2410UB	105	146	194	250	314	387	123	0.72	29	340	na	1/4"	1/4"	17/19	M200	2.5
AE2415UB	162	221	287	361	441	530	191	0.85	29	340	na	3/8"	1/4"	17/19	M200	3.1
AE2420UB	240	310	390	480	581	693	283	0.97	29	410	na	3/8"	1/4"	17/19	M200	3.9

na: not applicable

MHBP

R452A

Special condensing units*

MODEL NUMBER	REFRIGERATION OUTPUT 43 ° amb., 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-25°	-15°	-10°	-5°	0°	5°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
CAJ/TAJT9480ZMHR	430	754	948	1169	1422	1708	2393	1227	1.67	38	1130	1.50	1/2"	3/8"	37/39	M300	7.3	3.4
CAJ/TAJT9510ZMHR	550	948	1186	1458	1769	2122	2965	1538	1.72	40	1180	1.50	5/8"	3/8"	42/46	M320	9.2	3.4
CAJ/TAJT9513ZMHR	623	1156	1480	1849	2268	2743	3872	1966	1.89	45	2250	1.50	5/8"	3/8"	45/49	M350	12.0	4.3
CAJ/TAJT4517ZHR	712	1318	1648	2022	2449	2934	4103	2167	1.85	45	2250	2.35	5/8"	3/8"	48/52	M350	13.4	4.4
CAJ/TAJT4519ZHR	881	1632	2070	2566	3123	3742	5239	2752	1.73	40	1650	2.35	5/8"	3/8"	48/52	M350	15.6	6.6

** Special: Tropical units formerly called HTA.*

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-25°	-15°	-10°	-5°	0°	5°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
AET4425ZHR	154	262	329	408	499	604	857	340	1.44	31	410	0.75	3/8"	1/4"	19/21	M200	3.0	na
AET4430ZHR	189	320	398	489	592	709	981	414	1.49	29	410	0.75	3/8"	1/4"	20/21	M200	3.1	na
AET4440ZHR	259	437	544	667	808	969	1359	565	1.49	35	500	0.75	3/8"	1/4"	24/26	M250	4.1	na
AET4450ZHR	---	550	675	816	974	1151	1563	708	1.46	39	500	0.75	3/8"	1/4"	25/27	M250	5.5	na
AET4460ZHR	457	728	890	1079	1296	1543	2138	924	1.61	39	1130	0.75	3/8"	1/4"	25/27	M300	6.5	na
AET4470ZHR	523	847	1034	1248	1490	1766	2446	1077	1.61	39	1130	0.75	3/8"	1/4"	28/30	M300	5.9	na
HGA4467ZHR	511	772	928	1103	1297	1510	1997	974	2.10	38	1000	0.75	3/8"	1/4"	22/29	B200	4.0	na
HGA4480ZHR	614	932	1121	1332	1565	1820	2389	1176	2.16	35	1000	0.75	3/8"	3/8"	25/32	B200	5.7	na
HGA4492ZHR	711	1055	1259	1487	1739	2017	2655	1326	2.18	38	1000	0.75	1/2"	3/8"	26/33	B200	5.5	na
HGA4512ZHR	834	1238	1470	1721	1990	2274	2874	1562	1.98	39	1000	0.75	1/2"	3/8"	26/33	B200	7.1	na
CAJ/TAJN9480ZMHR	529	887	1098	1341	1616	1925	2648	1148	1.66	33	900	1.50	1/2"	3/8"	33/35	M300	6.9	3.2
CAJ/TAJN9510ZMHR	653	1068	1310	1586	1897	2246	3063	1380	1.64	34	900	1.50	5/8"	3/8"	33/35	M300	8.6	3.2
CAJ/TAJN9513ZMHR	768	1287	1585	1916	2278	2673	na	1675	1.70	34	900	1.50	5/8"	3/8"	34/36	M300	11.5	4.1
CAJ/TAJN4517ZHR	1000	1644	2023	2460	2955	3514	4845	2109	1.84	40	1700	2.35	5/8"	3/8"	44/48	M350	13.5	4.4
CAJ/TAJN4519ZHR	1212	2044	2520	3055	3649	4307	5835	2641	1.64	40	1700	2.35	5/8"	3/8"	44/48	M350	16.0	5.6
FH/TFHT4522ZHR	1122	2103	2692	3361	4097	4888	6526	2772	1.80	43	1650	2.35	5/8"	3/8"	55/59	M350	17.1	6.5
FH/TFHT4524ZHR	1325	2429	3088	3834	4660	5561	7558	3187	1.72	49	3900	2.35	5/8"	3/8"	63/77	M420	20.7	8.8
FH/TFHT4531ZHR	1747	3113	3895	4775	5754	6840	9353	4048	1.80	50	3670	3.90	7/8"	1/2"	69/83	M420	23.5	9.3
AWT4538ZHR	2218	3929	4905	5984	7162	8456	11556	5095	2.80*	50	3300	3.90	7/8"	1/2"	67/81	M420	27.0[a]	9.7[b-c]
TAGT4546ZHR	2349	4702	6146	7949	9572	11560	16229	6271	2.59*	55	7000	6.00	7/8"	1/2"	100/120	B420	na	15.6
TAGT4553ZHR	2714	5321	6891	8838	10558	12660	17569	7055	2.59*	54	7000	6.00	7/8"	5/8"	101/121	B420	na	16.3
TAGT4561ZHR	3219	6083	7779	9873	11698	13939	19232	7988	2.61*	55	7000	6.00	1"1/8	5/8"	101/121	B420	na	17.6
TAGT4568ZHR	3902	6953	8755	11000	12953	15391	21354	9065	2.60*	54	7000	6.00	1"1/8	5/8"	102/122	B420	na	20.1
TAGT4573ZHR	4411	7857	9877	12379	14531	17209	23545	10182	2.58*	54	6000	6.00	1"1/8	5/8"	107/127	B420	na	21.3

Statement of the seasonal COP / na: not applicable / [a] voltage code XC, [b] voltage code XG, [c] voltage code YZ, [d] voltage code MZ

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-25°	-15°	-10°	-5°	0°	5°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
SHT4576ZHR	5285	8488	10285	12296	14470	16803	21972	10245	2.80*	na	6000	6.00	1"1/8	5/8"	138/158	B420	na	13.9[c]
TAGT4581ZHR	4772	8216	10228	12719	14829	17435	23592	10636	2.55*	55	6000	6.00	1"1/8	5/8"	107/127	B420	na	23.1
TAGDT4590ZHR	4639	8809	11412	14692	17644	21257	29481	11739	2.85*	57	8270	9.50	1"1/8	5/8"	175/205	B420	na	28.9
SHT4591ZHR	6567	10391	12639	15225	18088	21217	na	12518	3.05*	na	8270	6.00	1"1/8	5/8"	151/181	B420	na	15.0[c]
TAGDT4610ZHR	5464	10107	12953	16518	19671	23520	32271	13359	2.85*	56	8270	9.50	1"1/8	5/8"	179/209	B420	na	30.3
SHT4610ZHR	7660	12292	14860	17726	20871	24379	na	14733	2.65*	na	14600	9.50	1"3/8	5/8"	180/210	B500	na	20.3[c]
TAGDT4612ZHR	6516	11815	15088	19210	22856	27288	37121	15532	2.65*	60	14600	9.50	1"1/8	5/8"	205/239	B500	na	33.3
SHT4612ZHR	8827	14158	16956	19977	23227	26885	na	16877	2.63*	na	14600	9.50	1"3/8	5/8"	180/210	B500	na	22.7[d]
TAGDT4614ZHR	7964	13744	17360	21957	26019	30986	42198	17962	2.72*	59	14600	12.00	1"3/8	7/8"	209/239	B500	na	38.3
TAGDT4615ZHR	8851	15470	19279	23955	27903	32842	45160	19970	2.72*	59	13000	12.00	1"3/8	7/8"	217/247	B500	na	*40.7*
SHT4615ZHR	10427	16310	19810	23806	28129	32666	na	19751	2.72*	na	14100	12.00	1"3/8	7/8"	227/257	B500	na	*25.1[d]*
TAGDT4616ZHR	9960	17486	21721	26889	31214	36654	50433	22554	2.69*	60	13000	12.00	1"3/8	7/8"	216/246	B500	na	*44.3*
SHT4620ZHR	14684	22333	26401	30937	35957	41690	na	26511	2.78*	na	13000	12.00	1"5/8	7/8"	234/264	B500	na	*35.1[d]*

Statement of the seasonal COP / na: not applicable / [a] voltage code XC, [b] voltage code XG, [c] voltage code YZ, [d] voltage code MZ

For information, the cooling capacity of fluids R449A and R448A: at the evaporation point To = -30°C, SH10K, apply the multiplier ratio 0.94 to the cooling capacities read with R404A.

MHBP

R404A

Special condensing units*

MODEL NUMBER	REFRIGERATION OUTPUT 43° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-25°	-15°	-10°	-5°	0°	5°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
CAJ/TAJT9480ZMHR	429	746	934	1143	1376	1634	2245	1299	1.69	38	1130	1.50	1/2"	3/8"	37/40	M300	7.3	3.4
CAJ/TAJT9510ZMHR	548	937	1168	1426	1711	2028	2781	1627	1.74	39	1180	1.50	5/8"	3/8"	42/41	M320	9.2	3.4
CAJ/TAJT9513ZMHR	616	1140	1454	1805	2193	2622	3633	2083	1.91	45	2250	1.50	5/8"	3/8"	45/47	M350	12.0	4.3
CAJ/TAJT4517ZHR	726	1305	1625	1979	2370	2804	3843	2292	1.87	46	2250	2.35	5/8"	3/8"	48/52	M350	13.4	4.4
CAJ/TAJT4519ZHR	938	1687	2119	2594	3112	3674	4937	3007	2	41	1350	2.35	5/8"	3/8"	48/52	M350	15.6	6.6

** Special: Tropical units formerly called HTA.*

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-25°	-15°	-10°	-5°	0°	5°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
AET4425ZHR	154	258	323	398	484	581	811	359	1.46	31	410	0.75	3/8"	1/4"	19/20	M200	3.0	na
AET4430ZHR	190	315	392	479	575	682	929	437	1.50	29	410	0.75	3/8"	1/4"	19/21	M200	3.1	na
AET4440ZHR	263	432	535	652	784	930	1273	596	1.51	35	500	0.75	3/8"	1/4"	24/25	M250	4.1	na
AET4450ZHR	339	545	666	799	944	1101	1458	746	1.47	39	500	0.75	3/8"	1/4"	25/26	M250	5.5	na
AET4460ZHR	463	721	880	1059	1261	1488	2029	976	1.63	39	1130	0.75	3/8"	1/4"	25/27	M300	6.5	na
AET4470ZHR	535	840	1020	1222	1448	1700	2304	1134	1.62	39	1130	0.75	3/8"	1/4"	28/30	M300	5.9	na
HGA4467ZHR	472	723	873	1040	1228	1440	1952	973	1.92	38	1000	0.75	3/8"	1/4"	22/28	B200	4.0	na
HGA4480ZHR	568	877	1057	1257	1480	1728	2324	1178	2.01	35	1000	0.75	3/8"	3/8"	25/31	B200	5.7	na
HGA4492ZHR	663	992	1185	1400	1639	1908	2559	1323	2.04	38	1000	0.75	1/2"	3/8"	26/32	B200	5.5	na
HGA4512ZHR	766	1170	1389	1621	1870	2138	2768	1561	1.83	39	1000	0.75	1/2"	3/8"	26/33	B200	7.1	na
CAJ/TAJN9480ZMH	533	877	1084	1315	1571	1852	2503	1212	1.66	33	900	1.50	1/2"	3/8"	33/35	M300	6.9	3.2
CAJ/TAJN9510ZMH	659	1058	1295	1557	1845	2159	2886	1455	1.63	34	900	1.50	5/8"	3/8"	33/35	M300	8.6	3.2
CAJ/TAJN9513ZMHR	774	1277	1569	1884	2219	2572	3351	1768	1.69	34	900	1.50	5/8"	3/8"	34/38	M300	11.5	4.1
CAJ/TAJN4517ZHR	1012	1629	2000	2415	2876	3386	4584	2229	1.85	40	1700	2.35	5/8"	3/8"	44/48	M350	13.5	4.4
CAJ/TAJN4519ZHR	1212	2023	2491	3002	3553	4148	5505	2788	1.65	40	1700	2.35	5/8"	3/8"	44/48	M350	16.0	5.6
FH/TFHT4522ZHR	1121	2068	2647	3290	3987	4720	6212	2942	1.82	43	1650	2.35	5/8"	3/8"	55/59	M350	17.1	6.5
FH/TFHT4524ZHR	1323	2390	3037	3751	4528	5359	7169	3377	1.73	49	3900	2.35	5/8"	3/8"	63/67	M420	20.7	8.8
FH/TFHT4531ZHR	1749	3075	3843	4684	5597	6586	8841	4285	1.81	50	3670	3.90	7/8"	1/2"	69/73	M420	23.5	9.3
AWT4538ZHR	2270	3871	4814	5852	6985	8219	11080	5352	2.81*	50	3300	3.90	7/8"	1/2"	67/81	M420	27	9.7[b]
TAGT4546ZHR	2423	4579	5924	7448	9147	11020	15330	6553	2.61*	55	7000	6.00	7/8"	1/2"	100/120	B420	na	15.6
TAGT4553ZHR	2751	5127	6580	8208	10007	11974	16475	7292	2.58*	54	7000	6.00	7/8"	5/8"	101/121	B420	na	16.3
TAGT4561ZHR	3326	5870	7419	9151	11061	13148	17911	8221	2.59*	55	7000	6.00	1"1/8	5/8"	101/121	B420	na	17.6
TAGT4568ZHR	3925	6682	8346	10204	12256	14509	19787	9286	2.58*	54	7000	6.00	1"1/8	5/8"	102/122	B420	na	20.1
TAGT4573ZHR	4447	7596	9448	11482	13703	16135	21976	10468	2.55*	54	6000	6.00	1"1/8	5/8"	107/127	B420	na	21.3

Statement of the seasonal COP / na: not applicable / [a] voltage code XC, [b] voltage code XG, [c] voltage code YZ, [d] voltage code MZ

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-25°	-15°	-10°	-5°	0°	5°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
SHT4576ZHR	5271	8392	10169	12070	14084	16199	20811	10780	2.86*	na	6000	6.00	1"1/8	5/8"	138/168	B420	na	13.9[d]
TAGT4581ZHR	5076	8324	10242	12350	14642	17118	22763	11386	2.56*	55	6000	6.00	1"1/8	5/8"	107/127	B420	na	23.1
TAGDT4590ZHR	4578	8623	11136	13971	17114	20550	28319	12367	2.88*	57	8270	9.50	1"1/8	5/8"	175/205	B420	na	28.9
SHT4591ZHR	6580	10265	12471	14911	17571	20434	na	13177	3.12*	na	8270	9.50	1"1/8	5/8"	151/181	B420	na	15.0[c]
TAGDT4610ZHR	5409	9916	12668	15742	19122	22791	31048	14067	2.89*	56	8270	9.50	1"1/8	5/8"	179/209	B420	na	30.3
SHT4610ZHR	7621	12144	14686	17399	20301	23457	na	15504	2.72*	na	14600	9.50	1"3/8	5/8"	180/210	B500	na	20.3[c]
TAGDT4612ZHR	6460	11583	14737	18282	22194	26434	35775	16334	2.69*	60	14600	9.50	1"1/8	5/8"	205/235	B500	na	33.3
SHT4612ZHR	8753	14010	16804	19670	22646	25873	na	17755	2.69*	na	14600	9.50	1"3/8	5/8"	180/210	B500	na	22.7[c]
TAGDT4614ZHR	7961	13516	16982	20902	25248	29971	40468	18860	2.75*	59	14600	12.00	1"3/8	7/8"	209/235	B500	na	38.3
TAGDT4615ZHR	8748	15218	18919	22914	27208	31871	43225	20964	2.75*	59	13000	12.00	1"3/8	7/8"	217/247	B500	na	40.7
TAGDT4616ZHR	10065	17093	21021	25217	29706	34596	46777	23265	2.68*	60	13000	12.00	1"3/8	7/8"	216/246	B500	na	44.3
SHT4615ZHR	10456	16126	19556	23313	27299	31394	na	20766	2.78*	na	14100	12.00	1"3/8	7/8"	227/257	B500	na	25.1[d]
SHT4620ZHR	14694	22161	26185	30419	34941	39949	na	27812	2.83*	na	13000	12.00	1"3/8	7/8"	234/264	B500	na	35.1[d]

Statement of the seasonal COP/na: not applicable/[a] voltage code XC, [b] voltage code XG, [c] voltage code YZ, [d] voltage code MZ

For information, the cooling capacity of fluids R449A and R448A: at the evaporation point To = -30°C, SH10K, apply the multiplier ratio 0.94 to the cooling capacities read with R404A.

MHBP

R513A

Special condensing units*

MODEL NUMBER	REFRIGERATION OUTPUT 43° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-15°	-10°	-5°	0°	5°	10°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
AET4425YHR	194	259	330	408	491	579	674	346	1.48	28	410	0.75	3/8"	1/4"	19/20	M200	2.6	na
AET4430YHR	268	342	427	522	629	747	877	445	1.44	34	500	0.75	3/8"	1/4"	22/23	M250	3.5	na
AET4440YHR	359	446	546	658	783	923	/	585	1.54	38	500	0.75	3/8"	1/4"	24/26	M250	4.1	na
AET4450YHR	466	584	718	866	1032	1215	1417	767	1.62	38	800	0.75	3/8"	1/4"	27/28	M300	5.2	na
AET4456YHR	538	673	826	997	1187	1398	1631	877	1.67	38	1130	0.75	3/8"	1/4"	26/28	M300	8.6	na
AET4460YHR	551	693	853	1033	1233	1457	1709	907	1.81	37	1130	0.75	3/8"	1/4"	26/28	M300	5.3	na
CAJT4452YHR	416	552	705	877	1068	1279	1509	759	1.49	38	1130	1.50	1/2"	1/4"	33/37	M300	6.1	na
CAJ/TAJT4461YHR	539	691	867	1067	1292	1541	1813	923	1.59	37	1130	1.50	1/2"	1/4"	33/37	M300	6.5	2.6
CAJT4476YHR	579	773	993	1241	1519	1826	2161	1066	1.57	37	1130	1.50	1/2"	3/8"	36/40	M300	7.5	na
CAJ/TAJT4492YHR	783	1038	1326	1650	2013	2416	2862	1387	1.73	44	2250	2.35	1/2"	3/8"	45/49	M350	9.6	3.2
CAJ/TAJT4511YHR	1066	1373	1716	2097	2517	2978	3480	1810	1.96	45	2250	2.35	5/8"	3/8"	47/51	M350	9.3	3.7

Statement of the seasonal COP / na: not applicable

** Special: Tropical units formerly called HTA.*

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-15°	-10°	-5°	0°	5°	10°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
THB4410YH	111	142	178	220	272	330	397	153	1.33	26	340	/	1/4"	1/4"	14/15	M200	1.1	na
THB4413YH	129	165	206	255	311	375	447	179	1.24	27	340	/	1/4"	1/4"	14/15	M200	1.8	na
THB4415YHR	161	204	254	312	374	445	520	221	1.42	26	340	0.75	1/4"	1/4"	14/15	M200	1.5	na
THB4419YHR	188	235	290	354	425	505	595	255	1.42	26	340	0.75	3/8"	1/4"	14/15	M200	1.8	na
THB4422YHR	228	283	346	416	494	579	671	306	1.42	26	340	0.75	3/8"	1/4"	12/14	M200	2.5	na
AE4430YHR	320	403	499	610	734	871	1021	439	1.59	28	410	0.75	3/8"	1/4"	15/17	M200	3.3	na
AE4440YHR	415	509	616	737	871	1020	1182	556	1.59	28	410	0.75	3/8"	1/4"	19/21	M200	3.9	na
AE4450YHR	553	681	823	984	1164	1362	1578	741	1.62	38	500	0.75	3/8"	1/4"	19/21	M250	5.0	na
AE4456YHR	614	755	914	1094	1294	1519	1764	821	1.60	38	500	0.75	3/8"	1/4"	25/26	M250	6.2	na
AE4460YHR	633	781	948	1134	1342	1573	1826	850	1.70	39	500	0.75	3/8"	1/4"	25/27	M250	5.1	na
CAJN4452YHR	481	610	752	906	1070	1241	1416	666	1.50	27	550	1.50	1/2"	1/4"	29/30	M250	5.6	na
CAJ/TAJN4461YHR	585	723	876	1042	1220	1405	---	793	1.50	27	550	1.50	1/2"	1/4"	29/30	M250	6.0	2.4
CAJN4476YHR	751	964	1207	1483	1795	2144	2531	1047	1.67	31	900	1.50	1/2"	3/8"	29/31	M300	7.1	na
CAJ/TAJN4492YHR	939	1192	1473	1782	2117	2471	2841	1297	1.79	32	900	2.35	1/2"	3/8"	30/32	M300	9.1	3
CAJ/TAJN4511YHR	1195	1478	1784	2110	2452	2803	---	1616	1.89	33	900	2.35	5/8"	3/8"	31/33	M300	8.8	3.5
CAJN4513YHR	1397	1767	2195	2686	3245	3877	4583	1914	1.98	39	1700	2.35	5/8"	3/8"	39/43	M350	10.5	na
FH/TFHT4518YHR	1703	2267	2921	3666	4497	5404	6365	2459	1.87	40	1650	1.50	5/8"	3/8"	52/56	M350	11.8	4.8
FH/TFHT4525YHR	2396	3069	3842	4711	5665	6681	7726	3343	1.99	43	1650	1.50	5/8"	3/8"	53/56	M350	15.8	7.3
TAGT4528YHR	2853	3653	4546	5532	6615	7798	9092	3968	2.27	50	3900	2.35	7/8"	3/8"	72/76	M420	na	11.1
TAGT4534YHR	2931	3885	5007	6268	7652	9142	10721	4223	1.94	52	3670	2.35	7/8"	3/8"	75/89	M420	na	11.5
TAGT4537YHR	3343	4307	5380	6566	7875	9323	10933	4694	2.04	49	3670	2.35	7/8"	3/8"	74/89	M420	na	11.1
TAGT4543YHR	3785	4900	6135	7498	8999	10660	12516	5331	2.75*	50	3300	2.35	7/8"	3/8"	76/89	M420	na	11.1
TAGT4547YHR	3995	5158	6465	7925	9542	11321	13268	5621	2.35*	54	na	3.90	1"1/8	1/2"	87/90	M450	na	11.6
TAGDT4556YHR	4303	6286	8679	11457	14622	18181	22141	6803	3.09*	53	7000	3.90	1"1/8	1/2"	153/183	B420	na	22.3
TAGDT4568YHR	5910	7926	10312	13013	15992	19210	22618	8577	2.79*	53	6000	3.90	1"1/8	1/2"	158/188	B420	na	21.9
TAGDT4574YHR	7161	9368	11894	14760	17982	21575	25554	10156	3.07*	53	8270	6.00	1"1/8	5/8"	171/201	B420	na	23.3
TAGDT4586YHR	7742	10058	12640	15495	18629	22055	25800	10924	3.11*	53	7600	6.00	1"1/8	5/8"	175/205	B420	na	22.3

Statement of the seasonal COP / na: not applicable

MHBP

R134a

Special condensing units*

MODEL NUMBER	REFRIGERATION OUTPUT 43° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-15°	-10°	-5°	0°	5°	10°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
AET4425YHR	181	246	319	400	488	584	687	320	1.45	28	410	0.75	3/8"	1/4"	19/20	M200	2.6	na
AET4430YHR	250	325	412	512	625	752	894	412	1.41	34	500	0.75	3/8"	1/4"	22/23	M250	3.5	na
AET4440YHR	335	424	527	645	778	929	---	541	1.51	38	500	0.75	3/8"	1/4"	24/26	M250	4.1	na
AET4450YHR	435	555	693	849	1025	1223	1445	709	1.59	38	800	0.75	3/8"	1/4"	27/28	M300	5.2	na
AET4456YHR	502	640	798	977	1179	1407	1663	811	1.64	38	1130	0.75	3/8"	1/4"	26/28	M300	8.6	na
AET4460YHR	514	659	824	1012	1225	1467	1743	839	1.77	37	1130	0.75	3/8"	1/4"	26/28	M300	5.3	na
CAJT4452YHR	387	524	681	859	1061	1287	1539	702	1.46	38	1130	1.50	1/2"	1/4"	33/37	M300	6.1	na
CAJ/TAJT4461YHR	502	657	838	1047	1285	1553	1853	853	1.56	37	1130	1.50	1/2"	1/4"	33/37	M300	6.5	2.6
CAJT4476YHR	549	747	971	1222	1500	1804	2135	999	1.56	37	1130	1.50	1/2"	3/8"	36/40	M300	7.5	na
CAJ/TAJT4492YHR	729	984	1277	1613	1994	2426	2910	1281	1.69	44	2250	2.35	1/2"	3/8"	45/49	M350	9.6	3.2
CAJ/TAJT4511YHR	995	1305	1657	2055	2501	2998	3549	1674	1.92	45	2250	2.35	5/8"	3/8"	47/51	M350	9.3	3.7

na: not applicable ** Special: Tropical units formerly called HTA.*

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-15°	-10	-5°	0°	5°	10°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
THB4410YH	103	134	170	213	264	322	388	143	1.32	26	340	na	1/4"	1/4"	14/15	M200	1.1	na
THB4413YH	120	156	197	246	302	366	437	167	1.23	27	340	na	1/4"	1/4"	14/15	M200	1.8	na
THB4415YHR	149	193	243	301	364	434	508	206	1.41	26	340	0.75	1/4"	1/4"	14/15	M200	1.5	na
THB4419YHR	174	222	278	342	413	493	582	238	1.41	26	340	0.75	3/8"	1/4"	14/15	M200	1.8	na
THB4422YHR	211	267	331	402	480	565	656	286	1.41	26	340	0.75	3/8"	1/4"	13/14	M200	2.5	na
AE4430YHR	297	381	478	589	713	849	998	410	1.58	28	410	0.75	3/8"	1/4"	16/17	M200	3.3	na
AE4440YHR	385	481	590	712	847	995	1155	519	1.58	28	410	0.75	3/8"	1/4"	20/21	M200	3.9	na
CAJN4452YHR	444	575	723	885	1061	1250	1449	620	1.48	27	550	1.50	1/2"	1/4"	29/31	M250	5.6	na
AE4450YHR	513	643	788	951	1131	1328	1542	692	1.61	38	500	0.75	3/8"	1/4"	20/21	M250	5.0	na
CAJ/TAJN4461YHR	541	685	846	1024	1218	1425	na	740	1.49	27	550	1.50	1/2"	1/4"	29/30	M250	6.0	2.4
AE4456YHR	569	713	875	1057	1258	1481	1724	767	1.59	38	500	0.75	3/8"	1/4"	25/27	M250	6.2	na
AE4460YHR	587	738	907	1096	1304	1534	1785	794	1.69	39	500	0.75	3/8"	1/4"	26/27	M250	5.1	na
CAJN4476YHR	700	915	1162	1442	1756	2104	2488	982	1.67	31	900	1.50	1/2"	3/8"	29/31	M300	7.1	na
CAJ/TAJN4492YHR	864	1120	1410	1733	2088	2474	2887	1203	1.77	32	900	2.35	1/2"	3/8"	30/32	M300	9.1	3.0
CAJ/TAJN4511YHR	1104	1396	1718	2067	2439	2831	na	1506	1.87	33	900	2.35	5/8"	3/8"	31/33	M300	8.8	3.5
CAJN4513YHR	1295	1669	2101	2595	3154	3781	4479	1787	1.97	39	1700	2.35	5/8"	3/8"	43/45	M350	10.5	na
FH/TFHT4518YHR	1564	2124	2783	3545	4408	5368	6414	2276	1.85	40	1650	1.50	5/8"	3/8"	52/56	M350	11.8	4.8
TAGT4528YHR	1979	2846	3866	5010	6253	7572	8948	3053	1.75	50	3900	2.35	7/8"	3/8"	72/76	M420	na	11.1
FH/TFHT4525YHR	2208	2888	3680	4583	5590	6689	7861	3106	1.97	43	1650	1.50	5/8"	3/8"	53/57	M350	15.8	7.3
TAGT4534YHR	2718	3670	4792	6056	7438	8916	10479	3943	1.93	52	3670	2.35	7/8"	3/8"	75/89	M420	na	11.5
TAGT4537YHR	3116	4131	5331	6684	8164	9749	11431	4444	1.94	49	3670	2.35	7/8"	3/8"	74/89	M420	na	11.1
TAGT4543YHR	3342	4407	5731	7271	8990	10861	12870	4734	1.95	50	3300	2.35	7/8"	3/8"	76/91	M420	na	11.1
TAGT4547YHR	3930	5153	6538	8084	9788	11652	13679	5526	2.56*	54	2500	3.90	1"1/8	1/2"	87/90	M450	na	11.6
TAGDT4556YHR	3990	5939	8307	11069	14212	17732	21641	6352	2.74*	53	7000	3.90	1"1/8	1/2"	153/183	B420	na	22.3
TAGDT4568YHR	5480	7488	9870	12573	15544	18735	22107	8009	2.77*	53	6000	3.90	1"1/8	1/2"	158/188	B420	na	21.9
TAGDT4574YHR	6362	8645	11395	14560	18086	21916	25995	9244	2.90*	53	8270	6.00	1"1/8	5/8"	171/201	B420	na	23.3
TAGDT4586YHR	6568	8766	11507	14703	18264	22108	26163	9388	2.78*	53	7600	6.00	1"1/8	5/8"	175/205	B420	na	22.3

Statement of the seasonal COP / na: not applicable

MHBP

R1234yf

Traditional condensing units

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code	
	-15°	-10°	-5°	0°	5°	10	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ	TZ
AE4430NH	305	386	480	587	708	845	1000	430	1.56	28	410	na	3/8"	1/4"	15/16	M200	3.3	na
AE4440NH	382	479	589	713	853	1013	1196	535	1.52	28	410	na	3/8"	1/4"	15/17	M200	3.9	na
CAJ/TAJN4492NH	890	1145	1434	1758	2115	2496	2893	1276	1.75	32	900	na	1/2"	5/16"	30/32	M300	9.1	3.7
CAJ/TAJN4511NH	1116	1403	1723	2077	2466	2894	3368	1570	1.89	33	900	na	1/2"	5/16"	30/32	M300	8.8	4.4
CAJN4513NH	1232	1565	1946	2376	2860	3401	4006	1738	1.88	39	1700	na	1/2"	3/8"	39/43	M350	10.5	na

na: not applicable

MHBP

R290

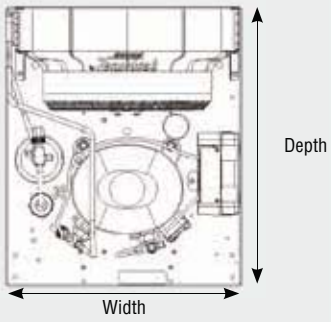
Traditional condensing units

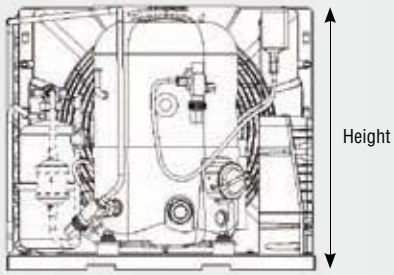
MODEL NUMBER	REFRIGERATION OUTPUT 32° amb., 10K superheating, 3K subcooling Evaporation temperature (°C):							REFRIG. OUTPUT EN13215 Evap. T -10°C		Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Diam. for tubing O.D.		Net/ Gross weight kg	No. Dim	Maximum current according to voltage code
	-25°	-15°	-10°	-5°	0°	5°	15°	Perf. (W)	COP (W/W)				Suc.	Liqu. Line			FZ
AE4425UH	162	269	332	399	483	572	783	359	1.54	30	340	na	3/8"	1/4"	17/19	M200	2.4
AE4430UH	198	331	414	504	617	734	984	447	1.70	29	410	na	3/8"	1/4"	18/19	M200	2.8
AE4440UH	277	440	537	636	762	891	1190	580	1.47	38	800	na	3/8"	1/4"	19/21	M250	3.9
AE4450UH	372	570	686	805	957	1115	1495	744	1.48	38	980	na	3/8"	1/4"	20/21	M250	5.0
AE4460UH	359	592	727	864	1036	1215	1655	789	1.38	40	980	na	3/8"	1/4"	20/21	M250	5.7

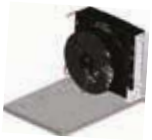
na: not applicable

DIMENSIONS

CONDENSING UNITS SPECIAL & TRADITIONAL





	HGA	THB	AE²	AJ²	FH/AW	TAG	TAGD	SH
M200 or B200								
M250								
M300								
M320 or M350								
M420 or M450								
B420								
B500								

M = Single fan / B = Dual fan/ The 3 digits following the letter indicate the fan diameter in mm.

LBP R290

MODEL NUMBER	Width	Height	Depth	Base
AE2410UB	300	227	374	M200
AE2415UB	300	227	374	M200
AE2420UB	322	257	404	M200

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MODEL NUMBER	Width	Height	Depth	Base
AET2415ZBR	312	237	398	M200
AET2420ZBR	322	257	404	M200
CAJ/TAJN2428ZBR	345	304	511	M250
AET2425ZBR	346	303	501	M250
CAJN2432ZBR	345	304	511	M250
CAJN2440ZBR	432	340	488	M300
CAJ/TAJN2446ZBR	432	340	488	M300
CAJ/TAJN2464ZBR	432	340	488	M300
HGA2426ZBR	500	219	450	B200
HGA2432ZBR	500	219	450	B200
HGA2436ZBR	500	219	450	B200
HGA2446ZBR	700	219	450	B200
TFHT2480ZBR	512	436	607	M350
TFHT2511ZBR	512	436	607	M350
TAGT2513ZBR	591	540	685	M420
TAGT2516ZBR	710	540	685	M420
TAGT2519ZBR	760	608	642	M450
TAGT2522ZBR	760	608	642	M450
TAGT2525ZBR	755	608	685	M450
TAGDT2532ZBR	1060	589	703	B420
TAGDT2538ZBR	1060	589	703	B420
TAGDT2544ZBR	1060	589	703	B420
TAGDT2550ZBR	1060	589	703	B420
SHT2529ZBR	601	556	1060	B420
SHT2534ZBR	601	556	1060	B420
SHT2542ZBR	1417	665	720	B420
SHT2552ZBR	1417	665	720	B420
SHT2568ZBR	1417	860	720	B500
SHT2575ZBR	1417	860	720	B500

LBP SPE. R452A R404

MODEL NUMBER	Width	Height	Depth	Base
CAJT2432ZBR	430	340	490	M300
CAJ/TAJT2446ZBR	430	340	490	M300
CAJ/TAJT2464ZBR	512	445	607	M350

MHBP R290

MODEL NUMBER	Width	Height	Depth	Base
AE4425UH	300	227	374	M200
AE4430UH	322	257	404	M200
AE4440UH	334	300	485	M250
AE4450UH	334	300	485	M250
AE4460UH	334	300	485	M250

MHBP SPE. R452A R404

MODEL NUMBER	Width	Height	Depth	Base
CAJ/TAJT9480ZMHR	430	340	490	M300
CAJ/TAJT9510ZMHR	512	445	607	M320
CAJ/TAJT9513ZMHR	512	445	607	M350
CAJ/TAJT4517ZHR	512	445	607	M350
CAJ/TAJT4519ZHR	513	436	608	M350

MHBP R452A R404

MODEL NUMBER	Width	Height	Depth	Base
AET4425ZHR	322	257	404	M200
AET4430ZHR	322	257	404	M200
AET4440ZHR	346	303	501	M250
AET4450ZHR	346	303	501	M250
AET4460ZHR	433	338	496	M300
AET4470ZHR	433	338	496	M300
HGA4467ZHR	500	219	450	B200
HGA4480ZHR	700	219	450	B200
HGA4492ZHR	700	219	450	B200
HGA4512ZHR	700	219	450	B200
CAJ/TAJN9480ZMH	432	340	488	M300
CAJ/TAJN9510ZMH	432	340	488	M300
CAJ/TAJN9513ZMHR	432	340	488	M300
CAJ/TAJN4517ZHR	513	437	608	M350
CAJ/TAJN4519ZHR	513	437	608	M350
FH/TFHT4522ZHR	512	436	607	M350
FH/TFHT4524ZHR	591	540	625	M420
FH/TFHT4531ZHR	591	540	625	M420
AWT4538ZHR	592	540	647	M420
TAGT4546ZHR	1060	555	615	B420
TAGT4553ZHR	1060	555	615	B420
TAGT4561ZHR	1060	555	615	B420
TAGT4568ZHR	1060	555	615	B420
TAGT4573ZHR	1060	555	615	B420
SHT4576ZHR	1060	555	601	B420
TAGT4581ZHR	1060	555	615	B420
TAGDT4590ZHR	1417	868	720	B420
SHT4591ZHR	1417	660	720	B420
TAGDT4610ZHR	1417	868	720	B420
SHT4610ZHR	1417	860	720	B420
TAGDT4612ZHR	1417	868	720	B500
SHT4612ZHR	1417	860	720	B500
TAGDT4614ZHR	1417	868	720	B500
TAGDT4615ZHR	1417	868	720	B500
TAGDT4616ZHR	1417	868	720	B500
SHT4615ZHR	1417	860	720	B500
SHT4620ZHR	1417	860	720	B500

MHBP R1234yf

MODEL NUMBER	Width	Height	Depth	Base
AE4430NH	322	257	378	M200
AE4440NH	322	257	378	M200
CAJ/TAJN4492NH	432	340	488	M300
CAJ/TAJN4511NH	432	340	488	M300
CAJN4513NH	512	437	607	M350

MHBP R134a R513A

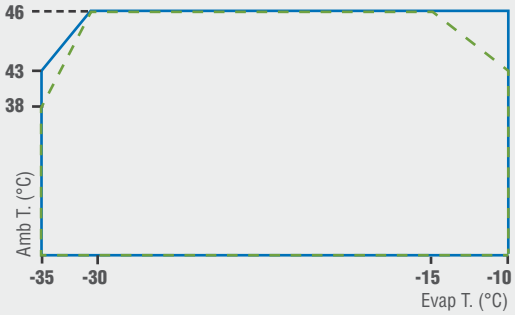
MODEL NUMBER	Width	Height	Depth	Base
THB4410YH	309	227	398	M200
THB4413YH	309	227	398	M200
THB4415YHR	309	227	398	M200
THB4419YHR	309	227	398	M200
THB4422YHR	309	227	398	M200
AE4430YHR	322	257	404	M200
AE4440YHR	322	257	404	M200
CAJN4452YHR	345	304	511	M250
AE4450YHR	346	303	501	M250
CAJ/TAJN4461YHR	345	304	511	M250
AE4456YHR	346	303	501	M250
AE4460YHR	346	303	501	M250
HGA4445YHR	500	218	450	B200
HGA4450YHR	500	218	450	B200
HGA4460YHR	500	218	450	B200
HGA4476YHR	700	218	450	B200
CAJN4476YHR	432	340	488	M300
CAJ/TAJN4492YHR	432	340	488	M300
CAJ/TAJN4511YHR	432	340	488	M300
CAJN4513YHR	513	437	608	M350
FH/TFHT4518YHR	512	436	607	M350
TAGT4528YHR	597	540	629	M420
FH/TFHT4525YHR	512	436	607	M350
TAGT4534YHR	597	540	629	M420
TAGT4537YHR	597	540	629	M420
TAGT4543YHR	597	540	629	M420
TAGT4547YHR	597	540	629	M450
TAGDT4556YHR	1060	589	703	B420
TAGDT4568YHR	1060	589	703	B420
TAGDT4574YHR	1417	868	720	B420
TAGDT4586YHR	1417	868	720	B420

MHBP SPE. R134a R513A

MODÈLE	Width	Height	Depth	Base
AET4425YHR	322	257	404	M200
AET4430YHR	336	298	486	M250
AET4440YHR	346	303	501	M250
AET4450YHR	433	338	496	M300
AET4456YHR	346	303	501	M300
AET4460YHR	346	303	501	M300
CAJT4452YHR	430	340	490	M300
CAJ/TAJT4461YHR	430	340	490	M300
CAJT4476YHR	430	340	490	M350
CAJ/TAJT4492YHR	512	445	607	M350
CAJ/TAJT4511YHR	512	445	607	M350

APPLICATION WINDOWS

LBP R452A R404A



MODEL NUMBER
T/CAJN 2428 ZBR
T/CAJN 2440 ZBR
T/CAJN 2446 ZBR
CAJT 2432 ZBR
T/CAJT 2446 ZBR
T/CAJT 2464 ZBR
T/FHT 2480 ZBR
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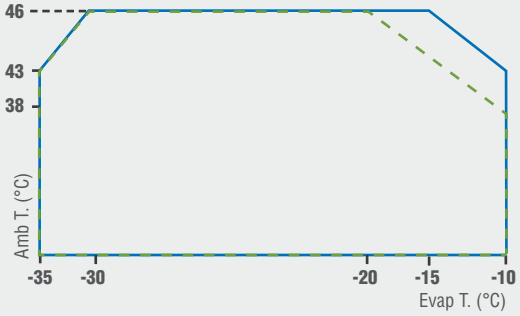
TAGT 2519 ZBR
TAGT 2522 ZBR
TAGT 2525 ZBR
SHT 2529 ZBR
SHT 2534 ZBR



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T/CAJN 2432 ZBR
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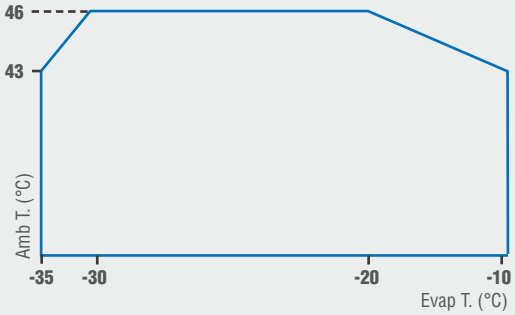
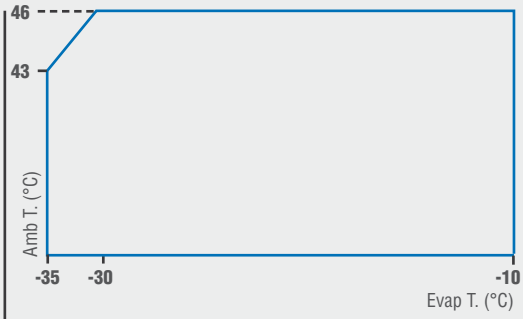
SHT 2534 ZBR

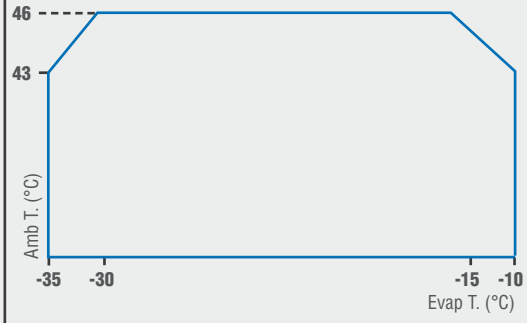


MODEL NUMBER
SHT 2542 ZBR

LBP R290

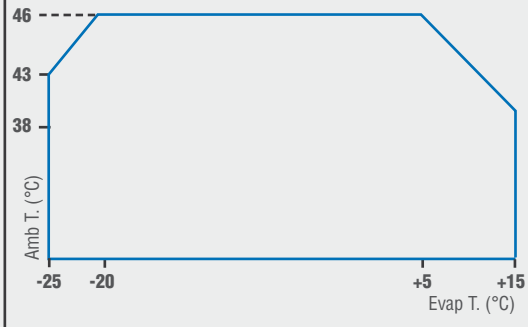


MODEL NUMBER
AE 2410 UB

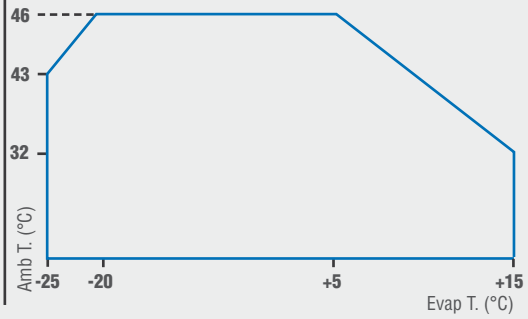


MODEL NUMBER
AE 2415 UB
AE 2420 UB

MHBP R290



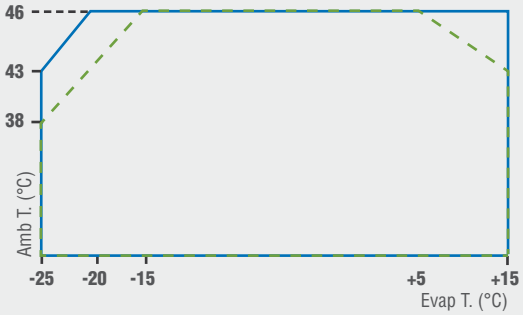
MODEL NUMBER
AE 4425 UH
AE 4430 UH
AE 4440 UH



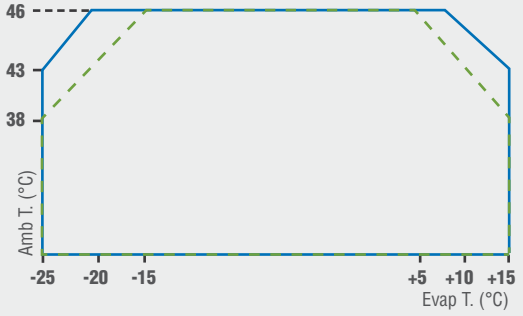
MODEL NUMBER
AE 4450 UH
AE 4460 UH

For R449A/R448A refrigerants, refer to the recommendations for use on our website www.tecumseh.com

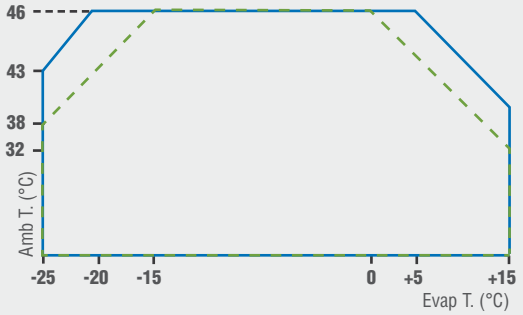
MHBP R452A R404A



MODEL NUMBER
T/CAJN 4517 ZHR
AET 4460 ZHR
AET 4470 ZHR
T/CAJT 9480 ZMHR
T/CAJT 9513 ZMHR
TAGT 4546 ZHR
TAGT 4553 ZHR
TAGT 4561 ZHR
TAGT 4573 ZHR
TAGDT 4612 ZHR
TAGDT 4614 ZHR
TAGDT 4616 ZHR



MODEL NUMBER
T/CAJN 9480 ZMHR
T/CAJN 4517 ZHR
AET 4425 ZHR
AET 4430 ZHR
AET 4440 ZHR
T/CAJT 9510 ZMHR
T/CAJT 4517 ZHR
T/CAJT 4519 ZHR
T/FHT 4522 ZHR
T/FHT 4524 ZHR
AWT 4538 ZHR
TAGT 4568 ZHR
TAGT 4581 ZHR
TAGDT 4590 ZHR
TAGDT 4610 ZHR
TAGDT 4615 ZHR



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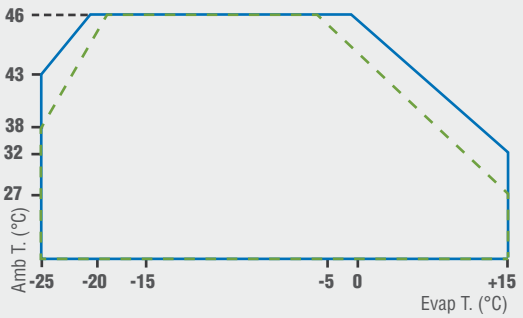
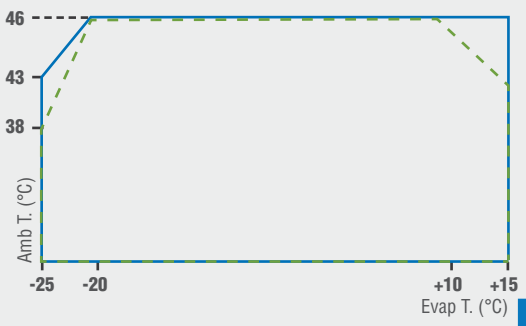
AET 4450 ZHR
T/FHT 4531 ZHR

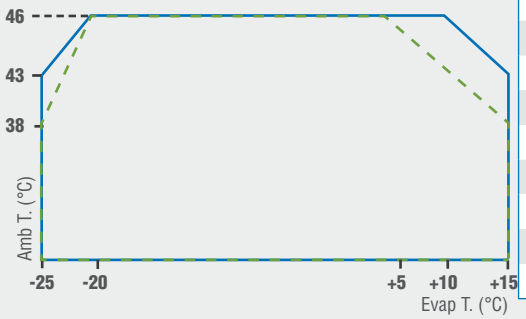


MODEL NUMBER
T/CAJN 9513 ZMHR
SHT 4576 ZHR
SHT 4591 ZHR
SHT 4610 ZHR
SHT 4612 ZHR
SHT 4615 ZHR
SHT 4620 ZHR

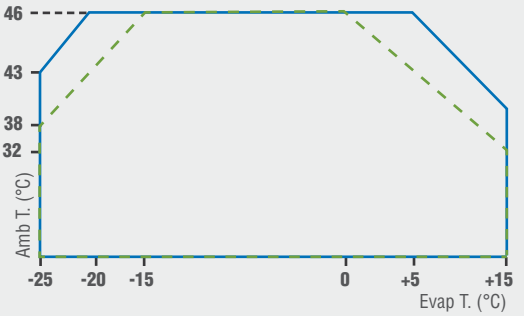
MHBP R134a R513A R1234yf



MODEL NUMBER
THB 4419 YHR
THB 4410 YH
THB 4413 YH
T/CAJT 4492 YHR



MODEL NUMBER
AE 4456 YHR
THB 4422 YHR
T/CAJN 4476 YHR
AET 4450 YHR
AET 4456 YHR
AET 4460 YHR
T/CAJT 4461 YHR
T/CAJT 4476 YHR
T/CAJT 4511 YHR
TAGDT 4556 YHR
TAGDT 4568 YHR
TAGDT 4574 YHR
CAJN 4513 YHR
AE 4430 NH
T/CAJN 4492NH
CAJN 4513 NH



MODEL NUMBER
AE 4430 YHR
AE 4440 YHR
AE 4450 YHR
AE 4456 YHR
AE 4460 YHR
CAJN 4452 YHR
T/CAJN 4492 YHR
AET 4425 YHR
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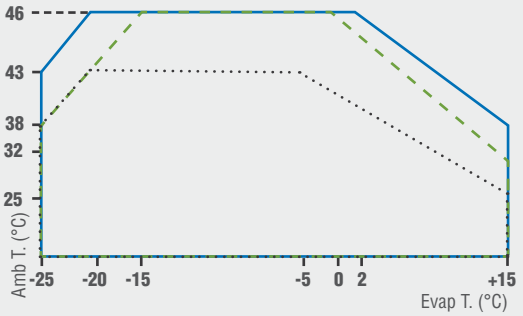
T/FHT 4525 YHR
TAGT 4528 YHR
TAGT 4534 YHR
TAGT 4547 YHR
TAGT 4586 YHR
AE 4440 NH



MODEL NUMBER
AE 4450 YHR
AE 4460 YHR
T/CAJN 4511 YHR
T/CAJN4511 NH
AE 4460 YHR
TAGT 4537 YHR
TAGT 4543 YHR
CAJN 4461 YHR