Mbsm.pro, compressor, cae2412y, Tecumseh, 1/3 hp, 306 w, 236 kcal/h, 1043 btu/h, Lbp, r134a

Category: compressor
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Technical data

- Model: **CAE2412Y**
- Refrigerant Gas: **R-134a**
- Pression/temperature: **LBP**
- Power: **1/3 HP**
- Voltage: **230 V**
- Current Type: **Single-Phase**
- Frequency: **50 Hz**
- Compressor Type: **Hermetic**
- Displacement: **14.20 cm³**
- Power Cons. -35°C: **191 W**
- Power Cons. -25°C: **270 W**
- Power Cons. -10°C: **397 W**
- T° Condensation: **40 °C**

- Cooling Cap. -35°C: **116 Kcal/h**
- Cooling Cap. -30°C: **195 Kcal/h**
- Cooling Cap. -25°C: **287 Kcal/h**
- Cooling Cap. -20°C: **392 Kcal/h**
- Cooling Cap. -15°C: **509 Kcal/h**
- Cooling Cap. -10°C: **639 Kcal/h**
- Test Type: **Standard TE**

Product Description

Tecumseh Hermetique R134a / R404a/ R22 reciprocating compressor
Hermetique R22 HBP
For Air Conditioning Applications.
Features:
Anti Vibration mounts supplied
Charged with mineral oil and dry nitrogen
Crankcase heater on TAG models
Fan cooling required on all models
Specifications:
Capacity Rating Basis: 35°C Ambient, 11K Return Gas Superheat, 54.5°C Condensing, 46.2°C Liquid entering Expansion Valve.
Current FLA are given at nominal voltage, rated conditions and 7.2°C Evaporating Temperature.
Motor Types:
PSC = Permanent Split Capacitor, 1 Phase, 50 Hz. 220-240 Volt
3Ø: 3 Phase, 50 Hz, 400 Volt
Expansion
Device:
C = Capillary Tube
C/V = Capillary Tube or Expansion Valve
R22 Hermetic

Model No.	Nominal HP	Displ. cm³/rev	Motor Type	Nominal Current FLA	Exp. Device	Oil Charge cm³	Connections: inches		
							cm³	Discharge	Proc.
AE 5465E	1/2	12.05	PSC	3.2	C	450	3/8 Tube	1/4 Tube	3/8 Tube
AJ 5510F	3/4	18.6	PSC	5.2	C	887	3/8 Tube	1/4 Tube	1/4 Tube
AJ 5512E	1	21.75	PSC	5.9	C	887	3/8 Tube	1/4 Tube	1/4 Tube
AJ 5513E	1	24.2	PSC	6	C	887	3/8 Tube	1/4 Tube	1/4 Tube
AJ 5515E	1 1/4	25.95	PSC	7.2	C	887	1/2 Tube	5/16 Tube	1/4 Tube
AJ 5518E	1 1/2	32.7	PSC	9.3	C	887	1/2 Tube	5/16 Tube	1/4 Tube
AJ 5519E	1 1/2	34.45	PSC	9.96	C	887	1/2 Tube	5/16 Tube	1/4 Tube
FH 5522E	1 3/4	39.95	PSC	9	C	1330	5/8 Tube	3/8 Tube	5/16 Tube
TFH 5522E	1 3/4	39.95	3Ø	3.8	C/V	1330	5/8 Tube	3/8 Tube	5/16 Tube
FH 5524E	2	43.5	PSC	10	C	1330	5/8 Tube	3/8 Tube	5/16 Tube
TFH 5524E	2	43.5	3Ø	4	C/V	1330	5/8 Tube	3/8 Tube	5/16 Tube
FH 5527E	2 1/4	49.1	PSC	12	C	1330	5/8 Tube	3/8 Tube	5/16 Tube
TFH 5527E	2 1/4	49.1	3Ø	4.2	C/V	1330	5/8 Tube	3/8 Tube	5/16 Tube
FH 5531E	2 1/2	56.65	PSC	14.1	C	1330	3/4 Tube	3/8 Tube	5/16 Tube
TFH 5531E	2 1/2	56.65	3Ø	8	C/V	1330	3/4 Tube	3/8 Tube	5/16 Tube

FH5540E	3	74.25	PSC	18.6	C	1330	3/4 Tube	3/8 Tube	5/16 Tube
TFH 5540E	3	74.25	3Ø	6	C/V	1330	3/4 Tube	3/8 Tube	5/16 Tube
TFH 5540E	3	74.25	3Ø	6	C/V	1330	78	1/2 Valve	5/16 Tube
TAG 5546E	3 3/4	90.2	3Ø	6.6	C/V	1960	7/8 Tube	1/2 Tube	3/8 Tube
TAG 5553E	4	100.7	3Ø	7.4	C/V	1960	7/8 Tube	1/2 Tube	3/8 Tube
TAG 5561E	5	112.5	3Ø	9	C/V	1960	7/8 Tube	1/2 Tube	3/8 Tube
TAG 5568E	6	124.4	3Ø	9.6	C/V	1960	7/8 Tube	1/2 Tube	3/8 Tube
TAG 5573E	6 1/2	134.8	3Ø	11	C/V	1960	7/8 Tube	1/2 Tube	3/8 Tube

Hermetique R22 M/HBP
For Medium / High Temperature Applications
Features:
Anti-Vibration mounts supplied
Charged with mineral oil and dry nitrogen
Rotalock suction valve on CAJ/TAJ models
Crankcase heater on FH/TFH and TAG models
Oil sight glass on FH/TFH and TAG models
Fan cooling required on all models
All models suit capillary tube or expansion valve operation
Rotalock suction and discharge valves on FH/TFH and TAG models
Specifications:
Capacity Rating Basis: 35°C Ambient, 11K Return Gas Superheat, 54.5°C Condensing, 46°C Liquid entering Expansion Valve.
Current FLA are given at nominal voltage, rated conditions and 7.2°C evaporating temperature.
Motor Types:
CSIR: Capacitor start, Induction run } 1 Phase, 50 Hz, 220-240 Volt
CSR: Capacitor start and run
3Ø: 3 Phase, 50 Hz, 400 Volt
Conversion: Watts x 3.412 = BTU/Hr BTU/Hr x 0.293 = Watts
R22 Hermetic

Model No.	Nominal HP	Displ. cm³/rev	Motor Type	Nominal Current FLA	Oil Charge cm³	Connections: inches Suction	Discharge
AEZ 4425E	1/5	4.5	CSIR	1.75	450	1/4 Tube	3/16 Tube
AEZ 4430E	1/4	5.7	CSIR	2.2	450	1/4 Tube	3/16 Tube
AEZ 4440E	1/3	7.55	CSIR	2.6	450	1/4 Tube	3/16 Tube
AEZ 9440T	1/3	7.55	CSR	2.03	450	3/8 Tube	1/4 Tube
CAE 4450E	3/8	9.4	CSIR	3.3	450	3/8 Tube	1/4 Tube
CAE 9450T	3/8	9.5	CSR	2.6	450	3/8 Tube	1/4 Tube
CAE 9460T	1/2	11.3	CSR	3.2	450	3/8 Tube	1/4 Tube
CAJ 9408T	5/8	15.2	CSR	3.68	887	1/2 Valve	5/16 Tube
CAJ 9510T	1	18.3	CSR	4.8	887	5/8 Valve	5/16 Tube
CAJ 9513T	1 1/8	24.2	CSR	5.9	887	5/8 Valve	5/16 Tube
CAJ 4517E	1 1/4	25.95	CSR	6.1	887	5/8 Valve	3/8 Tube
TAJ 4517T	1 1/2	25.95	3Ø	2.5	887	5/8 Valve	3/8 Tube

TAJ 4519T	1 1/2	34.45	3Ø	3.5	887	5/8 Valve	1/2 Valve
FH 4524F	2	43.5	CSR	9.55	1480	5/8 Valve	1/2 Valve
TFH 4524F	2	4.35	3Ø	3.9	1480	7/8 Valve	1/2 Valve
FH 4531F	2 1/2	56.65	CSR	12.6	1480	7/8 Valve	1/2 Valve
TFH4531F	2 1/2	56.65	3Ø	4.75	1480	7/8 Valve	1/2 Valve
TFH 4540F	3	74.25	3Ø	6.08	1480	7/8 Valve	1/2 Valve
TAG 4546T	4	90.2	3Ø	6.6	1960	7/8 Valve	5/8 Valve
TAG 4553T	4 1/2	100.7	3Ø	7.4	1960	7/8 Valve	5/8 Valve
TAG 4561T	5	112.5	3Ø	9	1960	1 7/8 Valve	5/8 Valve
TAG 4568T	6	124.4	3Ø	9.6	1960	1 7/8 Valve	5/8 Valve
TAG 4573T	6 1/2	134.8	3Ø	11	1960	1 7/8 Valve	5/8 Valve

Tecumseh Hermetique R134a
The world renowned L’Unite Hermetique compressors are manufactured by Tecumseh.
Features:
Charged with polyolester oil and dry nitrogen
Crankcase heater on FH/TFH and TAG models
Oil sight glass on FH/TFH and TAG models
Rotalock valves are included for all valve connection compressors
Anti-vibration mounts supplied
Single Phase – Medium High SST

Model No.	Nominal HP	Displacement: cm3/rev	Cooling	Oil Charge: ml
CAJ4476Y	5/8	21.75	Fan	887
CAJ4492Y	3/9	25.95	Fan	887
CAJ4511Y	1	32.7	Fan	887
FH4518Y	1 1/2	53.2	Fan	1480
FH4525Y	2	74.25	Fan	1480

Three Phase – Medium High SST

Model No.	Nominal HP	Displacement: cm3/rev	Cooling	Oil Charge: ml
TAJ4511Y	1	32.7	Fan	887
TFH4518Y	1 1/2	53.2	Fan	1480
TFH4525Y	2	74.25	Fan	1480
TAG4528Y	2 1/2	90.2	Fan	1960
TAG4534Y	2 3/4	100.7	Fan	1960
TAG4537Y	3	112.5	Fan	1960
TAG4543Y	3 1/2	124.4	Fan	1960

Superceded Models

Model No.	Nominal HP	Displacement: cm3/rev	Cooling	Oil Charge: ml
AEZ4425Y	1/5	7.55	Fan	450
AEZ4430Y	1/4	8.85	Fan	450
CAE4440Y	3/8	12.05	Fan	450
CAE4448Y	1/3	14.15	Fan	450
CAJ4452Y	1/3	15.2	Fan	887
CAE4456Y	1/2	16	Fan	450
CAJ4461Y	1/2	18.3	Fan	887

Tecumseh Hermetique R404A

The world renowned L’Unite Hermetique compressors are manufactured by Tecumseh.
Features:

Charged with polyolester oil and dry nitrogen
Crankcase heater on FH/TFH and TAG models
Oil sight glass on FH/TFH and TAG models
Rotalock valves are included for all valve connection compressors
Anti-vibration mounts supplied

Specifications:
Capacity Rating Basis: 35°C Ambient, 11K Return Gas Superheat, 54.5°C Condensing, 46°C Liquid entering Expansion Valve.
Current FLA are given at nominal voltage, rated conditions and 7.2°C Evaporating Temperature.
Motor Types:
CSIR: Capacitor Start, Induction Run 1 Phase, 50 Hz, 220-240 Volt
CSR: Capacitor Start and Run
3Ø: 3 Phase, 50 Hz, 400 Volt
All models are also suitable for operation with R507
Single Phase – Medium High SST

Model No.	Nominal HP	Displacement: cm3/rev	Cooling	Oil Charge: ml
CAJ9480Z	5/8	15.2	Fan	887
CAJ9510Z	1	18.3	Fan	887
CAJ9513Z	1 1/8	24.2	Fan	887
CAJ4517Z	1 1/4	25.95	Fan	887
CAJ4519Z	1 1/2	34.45	Fan	887
FH4522Z	1 3/4	39.95	Fan	1480
FH4524Z	2	43.5	Fan	1480
FH4531Z	2 1/2	56.65	Fan	1480
FH4540Z	3	74.25	Fan	1480

Three Phase – Medium High SST

Model No.	Nominal HP	Displacement: cm3/rev	Cooling	Oil Charge: ml
TAJ9480Z	5/8	15.2	Fan	887
TAJ9510Z	1	18.3	Fan	887
TAJ9513Z	1 1/8	24.2	Fan	887
TAJ4517Z	1 1/4	25.95	Fan	887
TAJ4519Z	1 1/2	34.45	Fan	887
TFH4522Z	1 3/4	39.95	Fan	1480
TFH4524Z	2	43.5	Fan	1480
TFH4531Z	2 1/2	56.65	Fan	1480
TFH4540Z	3	74.25	Fan	1480
TAG4546Z	4	90.2	Fan	1960
TAG4553Z	4 1/2	100.7	Fan	1960
TAG4561Z	5	112.5	Fan	1960
TAG4568Z	6	124.4	Fan	1960
TAG4573Z	6 1/2	134.8	Fan	1960

Single Phase – Low SST

Model No.	Nominal HP	Displacement: cm3/rev	Cooling	Oil Charge: ml
CAE2417Z	1/3	11.3	Fan	450
CAE2420Z	1/2	12.54	Fan	450
CAE2424Z	5/8	15	Fan	450
CAJ2428Z	1/2	15.2	Fan	887
CAJ2432Z	5/8	18.3	Fan	887
CAJ2446Z	3/4	26.15	Fan	887
CAJ2464Z	1 1/2	34.45	Fan	887
FH2480Z	2	53.2	Fan	1625
FH2511Z	2 1/2	74.25	Fan	1625

Three Phase – Low SST

Model No.	Nominal HP	Displacement: cm3/rev	Cooling	Oil Charge: ml
TAJ2464Z	1 1/2	34.45	Fan	887
TFH2480Z	2	53.2	Fan	1625
TFH2511Z	2 1/2	74.25	Fan	1625
TAG2516Z	4	112.5	Fan	1960
TAG2522Z	5 1/2	134.8	Fan	1960

Three Phase – Parallel Applications

Model No.	Nominal HP	Displacement: cm3/rev	Application: SST	Cooling	Oil Charge: ml
TAGP4546Z	4	90.2	Medium	Fan	1960
TAGP4553Z	4 1/2	100.7	Medium	Fan	1960
TAGP4561Z	5	112.5	Medium	Fan	1960
TAGP4568Z	6	124.4	Medium	Fan	1960
TAGP4573Z	6 1/2	134.8	Medium	Fan	1960
TAGP2516Z	4	112.5	Low	Fan	1960
TAGP2522Z	5 1/2	134.8	Low	Fan	1960

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EN12900 ASERCOM 220V ~ 60HZ 877 221 257 321 2.73 .69 .8 -25° C (-13° F) 55° C (131° F) 32° C (90° F) 32° C (90° F) 55° C (131° F)

General

Evaporating Temp. Range:

-40° C to -12.2° C (-40° F to 10° F)

Motor Torque:

High Start Torque (HST)

Compressor Cooling:

Fan

Mechanical

Weight:

10.81

Weight Unit of Measure:

KG

Displacement (cc) :

14.15

Oil Type:

Polyolester

Viscosity (cSt) :

32

Oil Charge (cc) :

250

Electrical

Voltage Range (50 Hz) :

N/ A

Voltage Range (60 Hz) :

187-242

Locked Rotor Amps (LRA) :

17

Rated Load Amps (RLA 50 Hz) :

2.3
Rated Load Amps (RLA 60 Hz) :
2.3
Max. Continuous Current (MCC in Amps) :
4
Motor Resistance (Ohm) – Main:
3.8
Motor Resistance (Ohm) – Start:
23.2
Motor Type:
CSIR
Overload Type:
EXTERNAL

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