

Mbsm.pro, Compressor, AJE4511YTZ ,
R134a, hbp, TAJ4511Y, R-12/R-409A,
lbp, 1HP, 3hp, 400V U.H., CAJ4511A,
1ph, R-12, lbp, 220v

Category: compressor

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Product Specifications

Performance

Condition	Test Voltage	(R) Btu/h	(R) kcal/h	(R) W	(I) W	(E) Btu/Wh	(E) kcal/Wh	W/W	EVAP TEMP	COND TEMP	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
EN12900	440V 3~ 60HZ	11249	2835	3296	1285	8.75	2.21	2.56	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)
EN12900	400V 3~ 50HZ	9826	2476	2879	1032	9.52	2.4	2.79	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)

General

Evaporating Temp. Range: -15°C to 15°C (5°F to 59°F)

Motor Torque: High Start Torque (HST)

Compressor Cooling: Fan

Mechanical

Weight: 21

Weight Unit of Measure: KG

Displacement (cc): 32.7

Oil Type: Polyolester

Viscosity (cSt): 32

Oil Charge (cc): 782

Electrical

Voltage Range (50 Hz): 340-440

Voltage Range (60 Hz): 396-499

Locked Rotor Amps (LRA): 14

Rated Load Amps (RLA 50 Hz): 2.3

Rated Load Amps (RLA 60 Hz): 2.1

Max. Continuous Current (MCC in Amps): 3.4

Motor Resistance (Ohm) – Main: 15.3

Motor Resistance (Ohm) – Start: 15.3

MotorType: 3PH

Overload Type: N/A

Relay Type: N/A

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. cm ³ /rev	Motor Type	Nominal Current FLA	Exp. Device	Oil Charge cm ³	Connections: inches		
cm ³	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. cm ³ /rev	Motor Type	Nominal Oil Current Charge FLA cm ³		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: cm ³ /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: cm ³ /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: cm ³ /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: cm ³ /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: cm ³ /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

