

Model: AGB4547YTZ
Product Description

Type: Reciprocating Compressors
Application: HBP - High Back Pressure
ProductDescription: R-134a
Voltage/Frequency: 440V 3~ 60Hz 400V 3~ 50Hz
Version: N/A


Product Specifications
Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power (I) W	(E) Efficiency			EVAP TEMP	Condition	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		(R) Btu/h	(R) kcal/h	(R) W		(E) Btu/Wh	(E) kcal/Wh	W/W					
EN12900	400V 3~ 50HZ	32963	8306	9658	3867	8.52	2.14	2.49	5°C (41°F)	50°C (122°F)	32°C (90°F)	20°C (68°F)	50°C (122°F)
EN12900	440V 3~ 60HZ	38965	9819	11416	4934	7.89	1.99	2.31	5°C (41°F)	50°C (122°F)	32°C (90°F)	20°C (68°F)	50°C (122°F)

General

Evaporating Temp. Range: -6.7°C to 12.8°C (20°F to 55°F)
Motor Torque: High Start Torque (HST)
Compressor Cooling: Fan

Mechanical

Weight: 44
Weight Unit of Measure: KG
Displacement (cc): 134.8
Oil Type: Polyolester
Viscosity (cSt): 32
Oil Charge (cc): 1960

Electrical

Voltage Range (50 Hz): 340-440
Voltage Range (60 Hz): 396-499
Locked Rotor Amps (LRA): 40.4
Rated Load Amps (RLA 50 Hz): 5.6
Rated Load Amps (RLA 60 Hz): 7.3
Max. Continuous Current (MCC in Amps): 10.5

Motor Resistance (Ohm) - Main: 4.3
Motor Resistance (Ohm) - Start: 4.3
Motor Type: 3PH
Overload Type:
Relay Type:

Agency Approval

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed, VDE Listed

AGB4547YTZ
General

Model	AGB4547YTZ	Unit of Measure	Celsius
Condition	EN12900 (R-134a)	Voltage/Frequency	400V 3~ 50HZ
RETURN GAS	20°C (68°F) RETURN GAS	MotorType	3PH

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.637258E+06	1.627737E+06	1.038154E+06	
C2	7.208398E+06	-4.035665E+06	-2.031948E+06	
C3	-1.900575E+06	7.799974E+06	-2.036124E+06	
C4	1.113470E+05	-2.196178E+06	-3.470837E+02	
C5	-7.792498E+06	3.795221E+06	5.797378E+03	
C6	3.008084E+06	-1.095127E+06	2.209963E+03	
C7	5.295525E+04	-1.959143E+04	0.000000E+00	
C8	-1.039436E+06	4.173993E+04	0.000000E+00	
C9	1.871694E+04	-2.405229E+04	0.000000E+00	
C10	-8.976854E-01	5.087564E+03	0.000000E+00	

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AGB4547YTZ
General

Model	AGB4547YTZ	Unit of Measure	Celsius
Condition	EN12900 (R-134a)	Voltage/Frequency	440V 3~ 60HZ
RETURN GAS	20°C (68°F) RETURN GAS	MotorType	3PH

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.752285E+06	2.463034E+06	3.906641E+06	
C2	7.371248E+06	8.703705E+06	5.701056E+04	
C3	-1.548040E+05	5.842739E+06	9.636725E+04	
C4	1.112400E+04	-8.287539E+06	5.794190E+01	
C5	-6.424812E+06	2.319319E+06	2.071236E+03	
C6	-4.238689E+06	-3.194437E+06	-8.919964E+02	
C7	5.344826E+04	-8.389290E+02	0.000000E+00	
C8	-9.775656E+04	1.594512E+04	0.000000E+00	
C9	6.789085E+03	-3.623025E+03	0.000000E+00	
C10	3.015862E+03	-1.828130E+02	0.000000E+00	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AGB4547YTZ
General

Model	AGB4547YTZ	Unit of Measure	Celsius
Condition	Tecumseh Europe (R-513A)	Voltage/Frequency	400V3~ 50HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	3PH

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.814170E+05	1.907590E+05	1.038154E+06	
C2	7.897019E+06	-4.260584E+06	-2.031948E+06	
C3	-2.466337E+06	7.680812E+06	-2.036124E+06	
C4	1.261999E+06	-2.279307E+06	-3.470840E+01	
C5	-9.146785E+06	3.940207E+06	5.797378E+03	
C6	9.218714E+06	-1.109324E+06	2.209963E+03	
C7	7.124143E+04	-1.911005E+04	-5.697230E-14	
C8	-1.117297E+06	4.394007E+04	-5.926520E-15	
C9	2.686861E+04	-2.373959E+04	-3.500170E-14	
C10	-2.940926E+03	5.308959E+03	-5.025230E-14	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AGB4547YTZ
General

Model	AGB4547YTZ	Unit of Measure	Celsius
Condition	Tecumseh Europe (R-513A)	Voltage/Frequency	440V3~ 60HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	3PH

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.945503E+06	2.848125E+06	3.906641E+06	
C2	8.079405E+06	1.060086E+06	5.701056E+04	
C3	-2.138986E+06	5.380685E+06	9.636725E+04	
C4	1.264010E+05	-7.915658E+06	5.794190E+01	
C5	-7.686850E+05	2.306916E+06	2.071236E+03	
C6	1.913688E+06	-2.541257E+06	-8.919960E+01	
C7	7.288206E+04	-6.635260E+02	-1.460830E-14	
C8	-1.030890E+05	1.600281E+04	4.741220E-15	
C9	1.386148E+04	-1.147936E+03	3.733510E-14	
C10	9.171680E+00	-2.204074E+03	-9.268140E-15	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature
Tc = Condensing Temperature