

Tee Compressor

written by Pro | 9 February 2024



TEE Compressor Plant is a Turkish company that manufactures compressors for refrigerators and other appliances. They are the first and only hermetic compressor manufacturer in Turkey and have been in business since 1975.

TEE compressors are known for their high quality, reliability, and efficiency. They are also environmentally friendly, as they use the natural refrigerant R600a. R600a is a hydrocarbon that is safe for the environment and has a low global warming potential.

TEE compressors are used in a wide variety of applications, including refrigerators, freezers, air conditioners, and dehumidifiers. They are also used in commercial and industrial applications.

TEST CONDITIONS

MOTOR TYPES

1 PTCSR
2 BLDC

VOLTAGE AND FREQUENCY

1 220-240V / 50 Hz --- 230V / 50 Hz
2 220-240V / 50 Hz --- 60 Hz

CONVERSION FACTORS

Kcal/h x 1,163 = W
Kcal/h x 3,968 = Btu/h
W x 3,412 = Btu/h
W x 0,864 = Kcal/h
Capacity(at 50Hz) x 1,16 = Capacity (at 60Hz)
cc x 0,061 = Cu. in.

TOLERANCES

Refrigerating Capacity = ±7%

Efficiency = ±7%

	ASHRAE		CECOMAF	
	LBP	HBP	LBP	HBP
Evaporating Temperature °C	-23,3	7,2	-25,0	5,0
Condensing Temperature °C	54,4	54,4	55,0	55,0
Liquid Temperature °C	32,2	46,1	55,0	55,0
Ambient Temperature °C	32,2	35,0	32,0	32,0
Gas Suction Temperature °C	32,2	35,0	32,0	32,0

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SERIES	BM NO	DIMENSIONS (mm.)	
		A	B
NTZ145	ALL	158	59

Refrigerant	Application	Model	B/M No	Displacement	Net Wt.	Oil Charge	Motor Type	Voltage and Frequency	Refrigerating Capacity								COP
									Ashrae							Cecomaf	
									-35°C	-30°C	-25°C	-23,3°C	-20°C	-15°C	-10°C	-25°C	-23,3°C
									Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	W	W/W
R600a	LBP	NTZ 145 MT	391-05	9,85	7,5	160	1	1	81	106	137	146	175	224	281	128	1,65

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Refrigerant	Application	Model	B/M No	Displacement	Net Wt.	Oil Charge	Motor Type	Voltage and Frequency	Refrigerating Capacity								COP
									Ashrae							Cecomaf	
									-35°C	-30°C	-25°C	-23,3°C	-20°C	-15°C	-10°C	-25°C	-23,3°C
									Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	W	W/W
R600a	LBP	NTU 120 MT	232-06	8,61	8,2	175	1	1	64	84	109	120	143	183	229	105	1,78
		NTU 150 MT	233-06	10,40	8,4	175	1	1	83	109	140	150	178	227	284	131	1,78
		NTU 170 MT	234-06	11,55	8,4	175	1	1	92	122	159	170	206	262	327	149	1,78
		NTU 170 MT	234-05	11,55	8,0	175	1	1	92	122	159	170	206	262	327	149	1,70

*All models are certified by VDE or TUV and TSE.

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Refrigerant	Application	Model	B/M No	Displacement	Net WL	Oil Charge	Motor Type	Voltage and Frequency	Refrigerating Capacity	COP	Speed	Control Method	Standard Approval
				cc	kg	cc			Ashrae	Ashrae			
									Kcal/h	W/W			
R600a	LBP	VNTZ 105 M	257-05	7,53	5,9	210	2	2	46	1,70	1300	Drop-In Frequency	VDE*
									57	1,75	1600		
									100	1,76	2700		
									141	1,70	4000		
		156	1,63	4500									
		VNTZ 145 M	255-00	9,85	6,0	210	2	2	62	1,80	1300	Drop-In Frequency	VDE*
									80	1,91	1600		
									136	1,91	2700		
									185	1,85	4000		
		203	1,73	4500									
		VNTZ 165 M	256-05	11,28	6,0	210	2	2	75	1,72	1300	Drop-In Frequency	VDE*
									90	1,78	1600		
173	1,75								3000				
215	1,65								4000				
235	1,62	4500											
VNTZ 165 M	256-00	11,28	6,0	210	2	2	75	1,80	1300	Drop-In Frequency	VDE*		
							90	1,90	1600				
							173	1,91	3000				
							215	1,85	4000				
235	1,73	4500											

* VDE Certificate is ready for VNTZ165 / 256-05 model; for the other models; the certificate will be ready in 4th quarter of 2016

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220 / 240 / 50 HZ												MODEL	
كمية الزيت	الفرير	التطبيق	COOLING CAPACITY					الإزاحة	الأمبير	Freq	القدرة المسحوبة		
			W 7.2+	W -5	W -23	B T U	k CAL/HR				Displ.CC		RLA
220	R600a	LBP			41	139	35	2.80		50			MTH35MT
220	R600a	LBP			52	179	45	3.59		50			MTH45MT
220	R600a	LBP			64	218	55	4.23		50			MTH55MT
270	R600a	LBP			79	270	68	5.00		50			MTH65MT
240	R600a	LBP			90	306	77	5.59		50			MTH75MT
240	R600a	LBP			98	333	84	5.90		50			MTH85MT
430	R600a	LBP			105	357	90	6.36		50			MTE90MT
430	R600a	LBP			116	397	100	6.91		50			MTE100MT
430	R600a	LBP			126	429	108	7.50		50			MTE108MT
430	R600a	LBP			134	456	115	7.94		50			MTE115MT
430	R600a	LBP			151	516	130	8.99		50			MTE130MT
430	R600a	LBP			174	595	150	10.01		50			MTE150MT
430	R600a	LBP			192	655	165	10.91		50			MTE165MT

450	R404a	LBP			291	992	250	5.75		50			AE250ZC
450	R404a	LBP			366	1250	315	6.91		50			AE315ZC
450	R404a	LBP			413	1409	355	7.94		50			AE355ZC
450	R404a	LBP			436	1488	375	8.99		50			AE375ZC

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220 / 240 / 50 HZ													MODEL
كمية الزيت	الفریون	التطبيق	COOLING CAPACITY					الإزاحة	الأمبير	Freq	القدرة المسحوبة		
			W 7.2+	W -5	W -23	B T U	k CAL/HR				Displ.CC	RLA	
175	R600a	LBP			140	476	120	8,61		50			NTU120MT
175	R600a	LBP			174	595	150	10,40		50			NTU150MT
175	R600a	LBP			198	675	170	11,55		50			NTU170MT
160	R600a	LBP			170	579	146	9,85		50			NTZ145MT
	R600a	LBP			198	675	170			50			MTS170MT
	R600a	LBP			215	734	185			50			MTS185MT
	R600a	LBP			233	794	200			50			MTS200MT
220	R600a	LBP			52	179	45	4.00		50			AZ45MT
220	R600a	LBP			72	246	62	5.59		50			AZ62MT
240	R600a	LBP			87	298	75	5.90		50			AZ75MT
470	R600a	LBP			116	397	100	7.94		50			AE100MT
470	R600a	LBP			141	480	121	8.99		50			AE121MT
220	R600a	LBP			40	135	34	2.80		50			THA34MT
220	R600a	LBP			51	175	44	3.59		50			THA44MT
270	R600a	LBP			74	254	64	5.00		50			THA64MT
240	R600a	LBP			94	321	81	5.90		50			THA81MTT
430	R600a	LBP			99	337	85	6.36		50			TE85MT
430	R600a	LBP			110	377	95	6.91		50			TE95MT
430	R600a	LBP			119	405	102	7.50		50			TE102MT
430	R600a	LBP			126	429	108	7.94		50			TE108MT
430	R600a	LBP			142	484	122	8.99		50			TE122MT

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220 / 240 / 50 HZ													MODEL
كمية الزيت	الفریون	التطبيق	COOLING CAPACITY					الإزاحة Displ.CC	الأمبير RLA	Freq HZ	القدرة المسحوبة		
			W 7.2+	W -5	W -23	B T U	k CAL/HR				W	H P	
	R134a	LBP			76	258	65	3.08		50		1\4	THA65YP/YT
	R134a	LBP			94	321	81	3.59		50		1\4 +	THA80YP/YT
	R134a	LBP			102	349	88	3.80		50		1\4 ++	THA90YP/YT
	R134a	LBP			115	393	99	4.23		50		1\3	THA100YP/YT
	R134a	LBP			127	433	109	5.00		50		1\2	THA110YP/YT
	R134a	LBP			147	500	126	5.59		50		2\3	THA125YP/YT
	R134a	LBP			160	548	138	5.90		50		3\4	THA138YP/YT
	R134a	LBP			63	214	54	2.80		50			THB55YP / YT
	R134a	LBP			88	302	76	3.59		50			THB75YP / YT
	R134a	LBP			99	337	85	3.80		50			THB85YP / YT
	R134a	LBP			109	373	94	4.23		50			THB95YP / YT
	R134a	LBP			123	421	106	5.00		50			THB105YP / YT
	R134a	LBP			137	468	118	5.59		50			THB118YP / YT
	R134a	LBP			152	520	131	5.90		50			THB130YP / YT
	R134a	LBP			85	290	73	3.09		50			MTH75YP / YT
	R134a	LBP			100	341	86	3.59		50			MTH85YP / YT
	R134a	LBP			109	373	94	3.80		50			MTH95YP / YT
	R134a	LBP			122	417	105	4.23		50			MTH105YP / YT
	R134a	LBP			141	480	121	5.00		50			MTH115YP / YT
	R134a	LBP			149	508	128	5.59		50			MTH135YP / YT
	R134a	LBP			173	591	149	5.90		50			MTH145YP / YT
	R134a	HBP	651			2222	560	7.57		50			AE560YD /YP /YC
	R134a	HBP	775			2643	666	8.84		50			AE666YC / YK
	R134a	HBP	1025			3496	881	12.04		50			AE881YC / YK
	R134a	HBP	1191			4063	1024	14.17		50			AE1024YC / YK

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كمية الزيت	الفرغون	التطبيق	COOLING CAPACITY					الإزاحة	الأمبير	Freq	القدرة المسحوبة		
			W 7.2+	W -5	W -23	B T U	k CAL/HR	Displ.CC	RLA	HZ	W	H P	
	R134a	LBP			143	488	123	5.75		50			AE123YD /YP/YT/YC
	R134a	LBP			172	587	148	6.91		50			AE148YD /YP/YT/YC
	R134a	LBP			205	698	176	7.94		50			AE176YD /YP/YT/YC
	R134a	LBP			228	778	196	8.99		50			AE196YD /YP/YT/YC/YK
	R134a	LBP			267	913	230	14.17		50			AE230YC
	R134a	LBP			328	1119	282	16.13		50			AE282YC
	R134a	LBP			173	591	149	6.36		50			TE150YP / YT
	R134a	LBP			192	655	165	6.91		50			TE165YP / YT
	R134a	LBP			211	718	181	7.50		50			TE180YP / YT
	R134a	LBP			224	766	193	7.94		50			TE195YP / YT
	R134a	LBP			252	861	217	8.99		50			TE215YP / YT
	R134a	LBP			186	635	160	6.36		50			MTE160YP / YT
	R134a	LBP			202	690	174	6.91		50			MTE175YP / YT
	R134a	LBP			220	750	189	7.50		50			MTE190YP / YT
	R134a	LBP			238	813	205	7.94		50			MTE205YP / YT
	R134a	LBP			262	893	225	8.99		50			MTE225YP / YT
	R134a	LBP			55	186	47	2.80		50		1\8	AZ47YD/YP/YT
	R134a	LBP			79	270	68	3.59		50		1\7	AZ68YD/YP/YT
	R134a	LBP			95	325	82	4.00		50		1\6	AZ82YD/YP/YT
	R134a	LBP			105	357	90	5.00		50		1\5	AZ90YD/YP/YT
	R134a	LBP			124	425	107	5.59		50		1\5 +	AZ107YD/YP/YT
	R134a	LBP			141	480	121	5.90		50		1\5 ++	AZ121YD/YP/YT

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