



ECOFRIENDLY

LOCATION

WHY US?

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SPECIFICATIONS

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MIDI MODELS

VNTZ MODELS

VIVIZIMODEL

OTHER DETAILS

WIRING DIAGRAMS

OTHER DETAILS

APPLICATION SPECIFICATIONS - NOTIFICATIONS

HEAVY DUTY CARTON BOX

WOODEN PALLET TYPE

TEST CONDITIONS



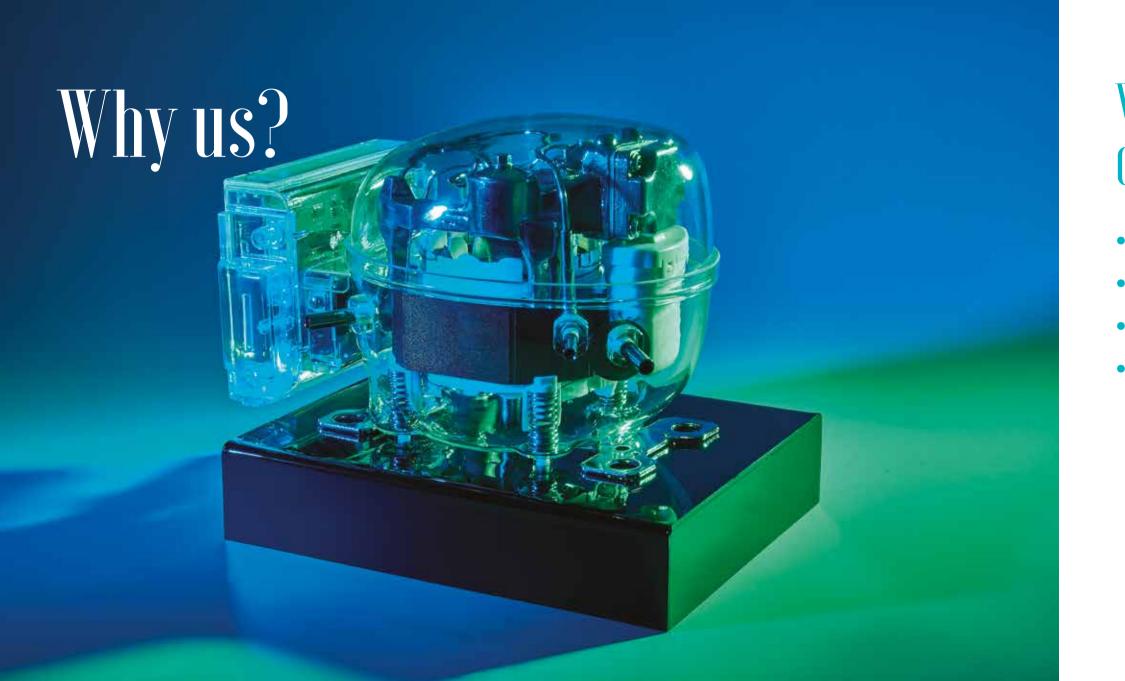
Energy efficient products, less electricity consumption and lower CO₂ footprint product



Logistic advantage from Eskişehir to

Lead time 1 week for Turkey and 2 weeks for EU region and North Africa*





WHY DO DOZENS OF MANUFACTURER CHOOSE TEE?

- Production over 4 decades
- Being close to the customer, lets us invent the technology
- Our production process focuses on consumer needs
- TEE is with you all the time and everywhere

TEE Compressor Plant
is a leading compressor
manufacturer with
experienced R&D and
advanced manufacturing
technologies since 1975. The
Company is the first and still
the only hermetic compressor
manufacturer in Turkey.

Today, TEE Compressor
Plant continues developing
environment-friendly, hi-tech,
efficient and compact hermetic
reciprocating compressor
technologies, providing
reliable and high quality
products to our worldwide
customers. Over the years, the
production capacities have
continuously been enlarged.
We produced more than 55
million compressors until today
and they are still working all
over the world.

In order to make a significant contribution to environmental protection, highly efficient

and environment-friendly
natural refrigerant R600a
used compressors have been
produced. TEE Compressor
Plant applies a Quality
Management System according
to ISO 9001 since 1993. Also
our compressor products have
passed certifications by various
authorities, e.g. TSE, TUV, VDE.

Our focus is to develop and manufacture environment-friendly, reliable and affordable products by implementing state-of-the art technologies and deliver after sales service to exceed customer expectations.

TEE creates and supports
high efficient, silent and
reliable solutions at household
hermetic reciprocating
compressor appliances.

• TEE considers your needs and develops latest technologies.

TEE provides a great product

range with both conventional and inverter compressor technologies that widely cover from small sized to large sized household refrigerator systems. This variety provides the optimal solutions to the customers.

• TEE cares about the world and the future.

TEE Inverter Compressor technology adjusts the compressor speed according to cooling system conditions. During low cooling requirements, this provides to work with very low speed as a sleep mode instead of stop-and-go mode; that increases the energy loses. This technology increases the total system efficiency by enabling more energy-efficient applications.

• TEE produces the energy efficient products for you.

TEE provides the high efficient hermetic reciprocating compressor with a COP of 2.00 at ASHRAE conditions.*

• TEE is with you all the time and everywhere.

TEE aims to give you the best customer support from design stage to after sales service in order to provide the optimal solution about compressor performance.

*At ASHRAE conditions.





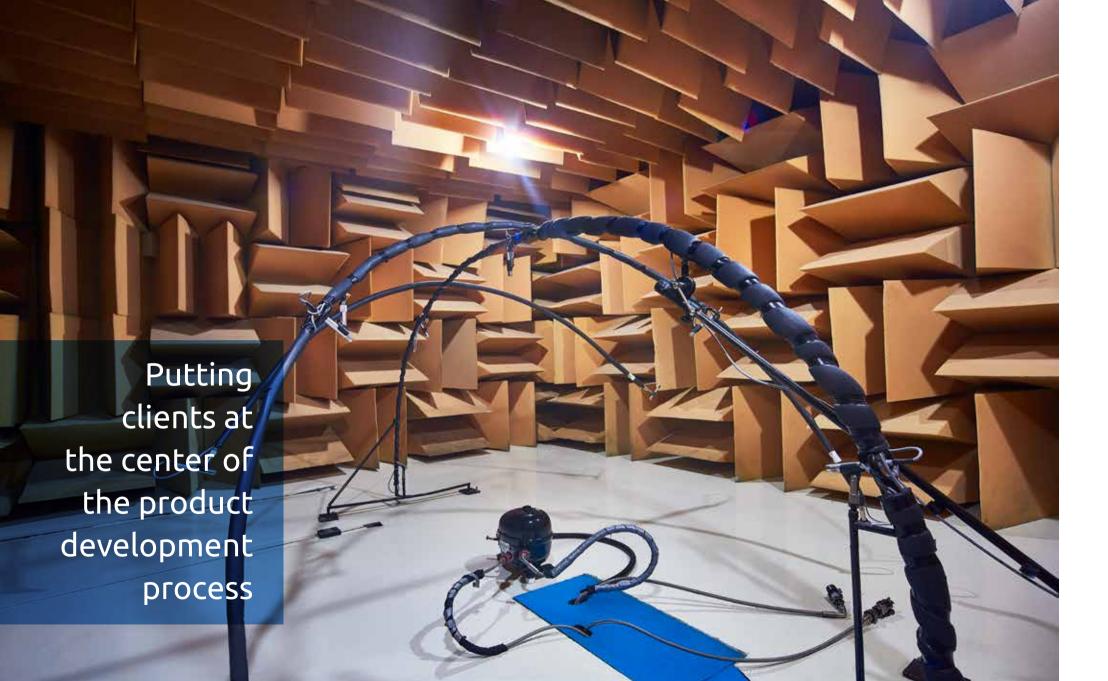














WORKING WITHOUT INVENTORY

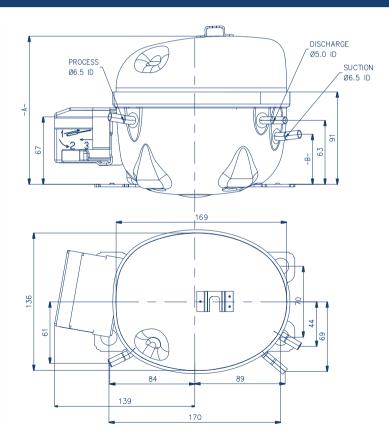


EVERYTHING JUST IN TIME

MINI-L MODELS

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





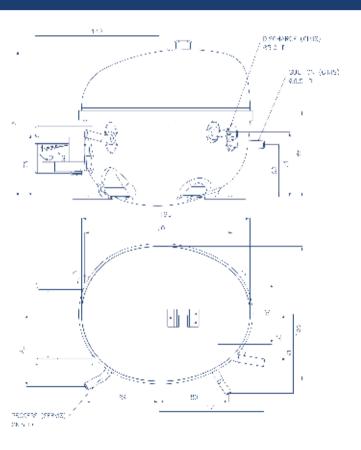
Application		Model					ent		96		incy				Refrigerati	ng Capacity				СОР		
	cation		0 N	Displacement	Net Wt.	Oil Charg	Motor Type	Voltage and Frequency	Ashrae							Cecomaf	Ashrae					
	Appli		B/M	<u> </u>					-35°C	-30°C	-25°C	-23,3°C	-20°C	-15°C	-10°C	-25°C	-23,3°C					
											сс	kg	сс		Volt	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h
	LBP	NTZ 145 MT	391-05	9,85	7,5	160	1	1	81	106	137	146	175	224	281	128	1,65					

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

MIDI MODELS

SERIES	BM NO	DIMENSIONS (mm.)			
SERIES	вм но				
NTU120,150,170	ALL	173			



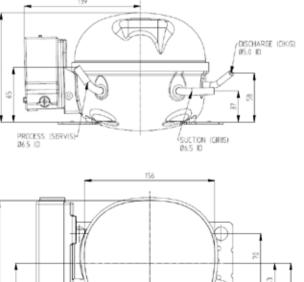


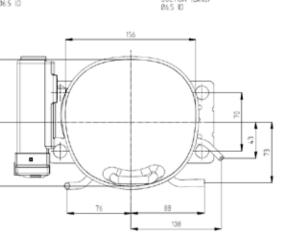
				ent		u		incy				Refrigerati	ng Capacity				СОР							
Refrigeran Application	Model	B/M No	Wire	Displacement	Net Wt.	Oil Charge	Motor Type	Voltage and Frequency				Ashrae				Cecomaf	Ashrae							
Refri	Modet	B/N		Dis		0	Motol	tage and	-35°C	-30°C	-25°C	-23,3°C	-20°C	-15°C	-10°C	-25°C	-23,3°C							
				main/ aux							сс	kg	сс		Volt	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	Kcal/h	w	w/w
R600a LBP	NTU 120 MT	232-00 232-16 232-05	Cu/Cu Al/Al Al/Al	8,61	9,0 8,1 7,9	175	1	1	64	84	109	120	143	183	229	105	1,83 1,80 1,65							
	NTU 150 MT	233-00 233-16 233-05	Cu/Cu Al/Al Al/Al	10,40	9,4 8,3 8,0	175	1	1	83	109	140	150	178	227	284	131	1,84 1,78 1,65							
	NTU 170 MT	234-00 234-16 234-05	Cu/Cu Al/Al Al/Al	11,55	10 8,5 8,5	175	1	1	92	122	159	170	206	262	327	149	1,83 1,78 1,65							
	NTU 185 MT	235-05	Al/Al	12,46	8,6	175	1	1	99	132	173	185	226	288	359	161	1,65							

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

VNTZ MODELS







	_			ement	Displacement Net Wt. Oil Charge		quency	Refrigerating Capacity	СОР		Po	oval	
Refrigeran	Application	Model	B/M No	Displac	Net.	oit c	Motor Type	Voltage and Frequency	Ashrae	Ashrae	Speed	Control Method	Standard Approval
				cc	kg	сс		Voltag	Kcal/h	w/w	rpm	Š	Stan
		VNTZ 105 M	258-05	7,53	6,0	210	2	2	45 76 110 155	1,57 1,75 1,70 1,60	1300 2100 3000 4500		
		VNTZ 105 M	258-00	7,53	6,0	210	2	2	45 76 110 155	1,80 1,88 1,80 1,66	1300 2100 3000 4500		
R600a	LBP	VNTZ 145 M	255-05	9,85	6,5	210	2	2	63 105 147 201	1,71 1,75 1,69 1,58	1300 2100 3000 4500	Drop-in Frequency	VDE*
R60	=	VNTZ 145 M	255-00	9,85	6,5	210	2	2	63 105 147 201	1,80 1,86 1,83 1,65	1300 2100 3000 4500		Δ >
		VNTZ 165 M	256-05	11,28	6,5	210	2	2	75 124 173 225	1,69 1,75 1,71 1,58	1300 2100 3000 4500		
		VNTZ 165 M	256-00	11,28	6,5	210	2	2	75 124 173 225	1,79 1,87 1,77 1,65	1300 2100 3000 4500		

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

OTHERS DETAILS

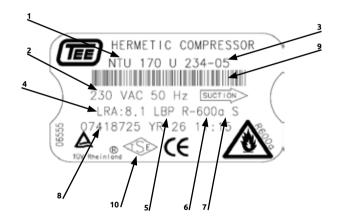
WIRING DIAGRAMS

Compressor Mounting Shapes



Dimensions Bracket Protector Relay Cover Cable Holder Crommet

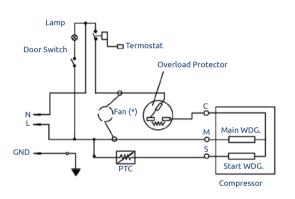
Compressor Identification



- 1. COMPESSOR MODEL NO $\frac{\text{NTU}}{\text{a}}$ $\frac{170}{\text{b}}$ $\frac{\text{M}}{\text{c}}$
- a. Compressor Design: NTU
 b. Capacity:Compressor cooling capacity (Kcal/hr at 50 Hz) at standart
- ASHRAE-T conditions c. Refrigerant R600a
- 2. RATED VOLTAGE AND FREQUENCY
- 3. COMPRESSOR B/M (Bill of Material) NO
 4. LOCKED ROTOR CURRENT
- 5. APPLICATION
- LBP:Low Back Pressure

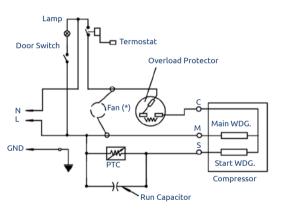
- 6. REFRIGERANT R600a
- 7. COOLING TYPE S: Static O: Oil F: Fan
- 8. SERIAL NUMBER AND DATE MANUFACTURE
- B/M NUMBER, SERIAL NUMBER, DATE OF MANUFACTURE BARCODE
- 10. APPROVAL

PTCSIR



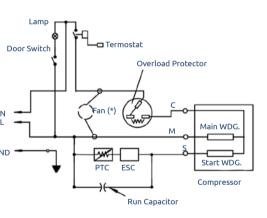
(*) Fan connection only on the models specified as fan cooled

PTCSCR



(*) Fan connection only on the models specified as fan cooled

E-PTCSCR

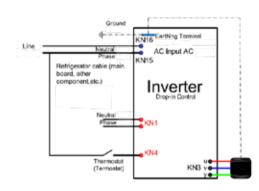


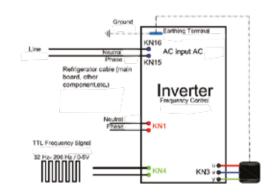
(*) Fan connection only on the models specified as fan cooled

OTHER DETAILS

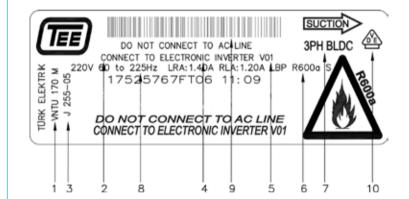
APPLICATION SPECIFICATIONS - NOTIFICATIONS

Inverter



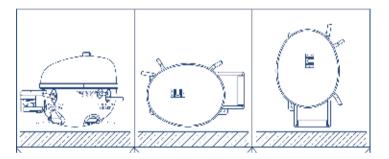


Compressor Identification

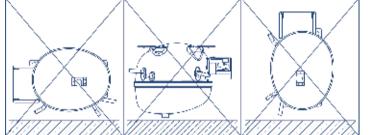


- DEFINITION
- a. Compressor Design: VNTU **b.** Capacity:Compressor cooling capacity (Kcal/hr at 50 Hz) at standart ASHRAE-T conditions c. Refrigerant R600a
- 2. RATED VOLTAGE AND FREQUENCY
- 3. COMPRESSOR B/M (Bill of Material) NO
- 4. LOCKED ROTOR CURRENT
- 5. APPLICATION LBP:Low Back Pressure

- 6. REFRIGERANT R600a 7. COOLING TYPE
- S: Static
- O: Oil F: Fan
- 8. SERIAL NUMBER AND DATE MANUFACTURE
- 9. B/M NUMBER, SERIAL NUMBER. DATE OF MANUFACTURE BARCODE
- 10. APPROVAL



- 1. Do not leave compressors without their plugs more than 10 minutes Compressors with rubber cap removed; must be attached to the system as soon as possible
- 2. Don't incline the compressors more than 5° during storage, transportation or installation and transportation must be made considering attached drawings. In addition to this avoid compressors from vibration and impact shock during transportation.
- 3. A dropped or highly impacted compressor must not be used.
- 4. Due to the reason that R600a is higly flammable, all components; especiallyincluding leakage test equipment must be exclusively designed for R600a and the system must be welded securely.
- 5. Excessive liquid back in refrigeration system must be avoided to prevent wear on bearings. Furthermore; liquid back can result in cause breakage on the crankshaft, rupture on the gasket and damage to the suction valve of the compressor.
- Do not apply direct AC power on terminals of the compressor.
- 7. The design of refrigeration system must be suitable to ensure that the oil inside the compressors could flow back to compressor after completing the refrigeration cycle.
- 8. Compressors should be stored in a dry, non-humid place.
- 9. The stocking period must be less than 12 months after the



- production date. If longer, vacuum levels of the compressors should be checked before usage
- 10. Use a filter dryer suitable for R600a refrigerant.
- 11. Do not operate or supply electrical power unless compressor is connected to ground, electric shock may occur.
- 12. The compressor must not be subjected to high voltage tests under vacuum conditions. All TEÉ compressors have already been submitted to 1.860 V for one second for electrical safety standards.
- 13. Electrical power must be disconnected when terminal protective cover is not in place to avoid electric shock.
- 14. The TEE Electronic Inverter is made for use only with the TEE VNTU Compressors.
- 15. Inverter Compressors should be driven by suitable inverter; otherwise compressor in order to reach best performance.
- 16. Do not connect the inverter compressors directly to the
- AC supply line, otherwise permanent damage may occur.

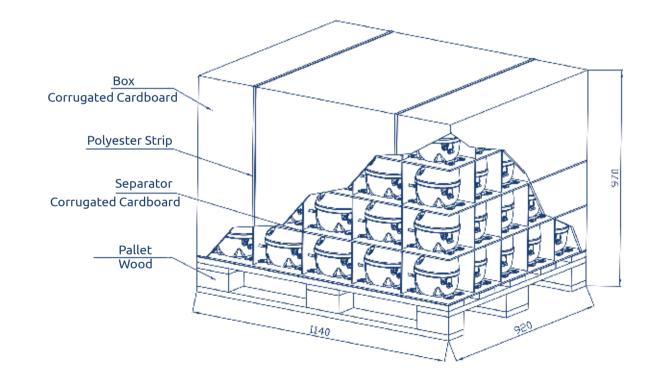
HEAVY DUTY CARTON BOX

WOODEN PALLET TYPE



STACKING: MAXIMUM 3 PA	STACKING: MAXIMUM 3 PALLETS							
MODELS / MODELLER	COMPRESSOR / PALLET							
COMPACT INVERTER	123							
MINI-L	100							
MIDI	80							

All dimensions are in mm.

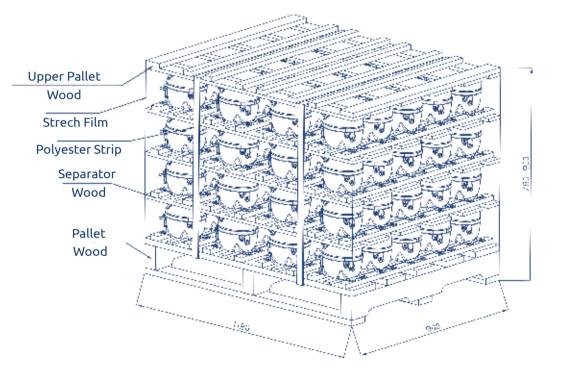




STACKING: MAXIMUM 2 PALLETS

MODELS / MODELLER	COMPRESSOR / PALLET
ALL	80

All dimensions are in mm.



TEST CONDITIONS

MOTOR TYPES

1 PTCSCR 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

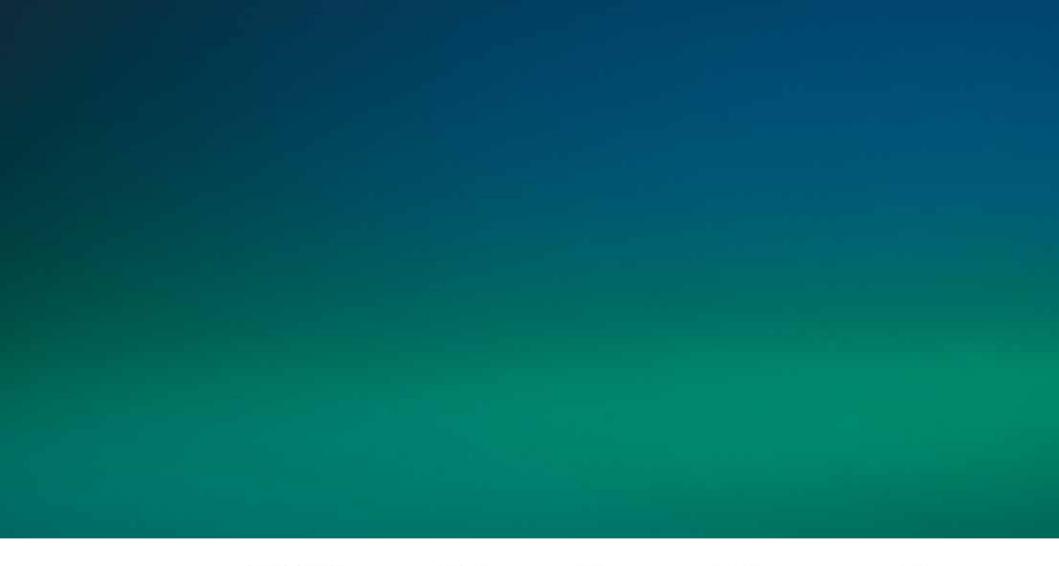
Refrigerating Capacity $= \pm 7\%$

Efficiency $= \pm 7\%$

	ASH	RAE	CECO	MAF
	LBP	НВР	LBP	НВР
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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