

# 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 PTCS CR  
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 | Ashrae |         |
|                         |            |        |              |         |            |            |                       | -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 | Ashrae |         |
|                         |            |        |              |         |            |            |                       | -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 WT. | Oil Charge | Motor Type | Voltage and frequency | Refrigerating Capacity        |                                      | COP                                  | Speed                | Control Method | Standard Approval |
|-------------|-------------|------------|--------|--------------|---------|------------|------------|-----------------------|-------------------------------|--------------------------------------|--------------------------------------|----------------------|----------------|-------------------|
|             |             |            |        |              |         |            |            |                       | Ashrae                        | Ashrae                               |                                      |                      |                |                   |
|             |             |            |        |              |         |            |            |                       | Kcal/h                        | W/W                                  | rpm                                  |                      |                |                   |
| R600a       | LBP         | VNTZ 105 M | 257-05 | 7,53         | 5,9     | 210        | 2          | 2                     | 46<br>57<br>100<br>141<br>156 | 1,70<br>1,75<br>1,76<br>1,70<br>1,63 | 1300<br>1600<br>2700<br>4000<br>4500 | Drop-In<br>Frequency | VDE*           |                   |
|             |             | VNTZ 145 M | 255-00 | 9,85         | 6,0     | 210        | 2          | 2                     | 62<br>80<br>136<br>185<br>203 | 1,80<br>1,91<br>1,91<br>1,85<br>1,73 | 1300<br>1600<br>2700<br>4000<br>4500 | Drop-In<br>Frequency | VDE*           |                   |
|             |             | VNTZ 165 M | 256-05 | 11,28        | 6,0     | 210        | 2          | 2                     | 75<br>90<br>173<br>215<br>235 | 1,72<br>1,78<br>1,75<br>1,65<br>1,62 | 1300<br>1600<br>3000<br>4000<br>4500 | Drop-In<br>Frequency | VDE*           |                   |
|             |             | VNTZ 165 M | 256-00 | 11,28        | 6,0     | 210        | 2          | 2                     | 75<br>90<br>173<br>215<br>235 | 1,80<br>1,90<br>1,91<br>1,85<br>1,73 | 1300<br>1600<br>3000<br>4000<br>4500 | Drop-In<br>Frequency | VDE*           |                   |

\*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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| كمية الزيت | الفريون | التطبيق | 220 / 240 / 50 HZ |      |       |       |          |          | الإنزاحة | الأمبير | Freq | القدرة المسحوبة |          | MODEL |
|------------|---------|---------|-------------------|------|-------|-------|----------|----------|----------|---------|------|-----------------|----------|-------|
|            |         |         | COOLING CAPACITY  |      |       |       |          | Displ.CC |          |         |      | W               | H P      |       |
|            |         |         | W 7.2+            | W -5 | W -23 | B T U | k CAL/HR |          |          |         |      |                 |          |       |
| 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 |         |         |                  |      |       |       |          |                     |                |            |                 |     |          |
|-------------------|---------|---------|------------------|------|-------|-------|----------|---------------------|----------------|------------|-----------------|-----|----------|
| كمية الزيت        | الفريون | التطبيق | COOLING CAPACITY |      |       |       |          | الإزاحة<br>Displ.CC | الأمبير<br>RLA | Freq<br>HZ | القدرة المسحوبة |     | MODEL    |
|                   |         |         | W 7.2+           | W -5 | W -23 | B T U | k CAL/HR |                     |                |            | W               | H P |          |
| 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 |         |         |                  |      |       |       |          |                     |                |            |                 |        |                 |
|-------------------|---------|---------|------------------|------|-------|-------|----------|---------------------|----------------|------------|-----------------|--------|-----------------|
| كمية الزيت        | الفريون | التطبيق | COOLING CAPACITY |      |       |       |          | الإزاحة<br>Displ.CC | الأمبير<br>RLA | Freq<br>HZ | القدرة المسحوبة |        | MODEL           |
|                   |         |         | 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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| 220 / 240 / 50 HZ |         |         |                  |      |       |       |          |                     |                |            |                 |     |                      |
|-------------------|---------|---------|------------------|------|-------|-------|----------|---------------------|----------------|------------|-----------------|-----|----------------------|
| كمية اريث         | الفريون | التطبيق | COOLING CAPACITY |      |       |       |          | الإزاحة<br>Displ.CC | الأمبير<br>RLA | Freq<br>HZ | القدرة المسحوبة |     | MODEL                |
|                   |         |         | W 7.2+           | W -5 | W -23 | B T U | k CAL/HR |                     |                |            | 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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