## 概 述

TCLE/TRFE系列热力膨胀阀是分拆式膨胀阀，适用于空调、商业制冷、运输空调及冷冻等广泛

## 特 点

- 拼装式结构简单易修，只需旋下固定螺栓，就可更换动力头与阀芯。
- 稳定的过热度；具有双向节流功能。
- 可提供MOP（马达过载保护）功能。
- 可提供各种接管尺寸和形式。
- 适用R22, R134a, R407c, R404A/R507,R410A冷媒等介质。
- 特殊要求请与上恒联系



TCLE-S



TCLE-A

## General

TCLE/TRFE series are take-apart valves applicable to freezing ,refrigeration and air conditioning plant.

## Characteristics

- Interchangeable orifice assembly ,easier stocking ,easy capacity matching ,better service.
- Stable superheat setting with bi-flow function.
- MOP (Max. operating pressure) function is available.
- Various connection type and size can be made according to customer's requirement.
- Suitable for R22, R134a, R407C, R404A/R507,R410A.
- If you have special requirement , please contact STF.



TRFE-S



TRFE-A

## 膨胀阀产品命名方式

| TCL | E | 3 | H | C | S | IN | L3 |
|---|---|---|---|---|---|---|---|
| 阀基本型号 | 平衡方式<br>E=外平衡 | 名义冷量<br>（冷吨） | 制冷剂代码<br>H=R22<br>M=R134a<br>N=R407C<br>Z=R410A<br>S=R404A/R507 | 充注形式<br>C=液体充注<br>W100=混合充注<br>（带MOP保护） | 连接形式<br>S=直通<br>A=直角<br>F=法兰<br>（仅限TRFE） | 外平衡<br>英制接口 | 毛细管长度<br>L3=3米<br>1.5米省略 |

## 选型表格Technical data

| R134a | | | R22 | | | R407c | | | R404A/R507 | | | R410A | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 型号（Model） | | 名义容量 Nominal capacity (KW) | 型号（Model） | | 名义容量 Nominal capacity (KW) | 型号（Model） | | 名义容量 Nominal capacity (KW) | 型号（Model） | | 名义容量 Nominal capacity (KW) | 型号（Model） | | 名义容量 Nominal capacity (KW) |
| TCLE | 1/4M | 1.20 | TCLE | 1/2H | 1.76 | TCLE | 1/2N | 1.68 | TCLE | 1/3S | 1.17 | TCLE | 2/3Z | 2.20 |
| TCLE | 3/4M | 2.29 | TCLE | 1H | 3.52 | TCLE | 1N | 3.49 | TCLE | 2/3S | 2.35 | TCLE | 1-1/4Z | 4.40 |
| TCLE | 1-1/2M | 4.93 | TCLE | 2H | 7.04 | TCLE | 2N | 7.00 | TCLE | 1-1/2S | 5.28 | TCLE | 2-1/2Z | 8.80 |
| TCLE | 2-1/2M | 10.91 | TCLE | 3H | 10.55 | TCLE | 3N | 10.23 | TCLE | 2S | 7.04 | TCLE | 3-1/2Z | 12.30 |
| TCLE | 3-1/2M | 14.08 | TCLE | 5H | 17.60 | TCLE | 5N | 16.80 | TCLE | 3-1/2S | 12.32 | TCLE | 6Z | 21.10 |
| TCLE | 5-1/2M | 19.36 | TCLE | 7-1/2H | 26.40 | TCLE | 7-1/2N | 25.75 | TCLE | 5S | 17.60 | TCLE | 9Z | 31.60 |
| TCLE | 7-1/2M | 26.05 | TCLE | 10H | 35.20 | TCLE | 10N | 34.78 | TCLE | 7S | 24.64 | TCLE | 12Z | 42.20 |
| TCLE | 9M | 30.72 | TCLE | 12H | 42.24 | TCLE | 12N | 41.85 | TCLE | 8-1/2S | 29.92 | TCLE | 15Z | 52.80 |
| TRFE | 11M | 38.72 | TRFE | 14H | 49.28 | TRFE | 14N | 47.93 | TRFE | 10S | 35.20 | TRFE | 17Z | 60.00 |
| TRFE | 13M | 45.76 | TRFE | 18H | 63.36 | TRFE | 18N | 61.59 | TRFE | 12S | 42.24 | TRFE | 22Z | 77.40 |
| TRFE | 16M | 56.32 | TRFE | 22H | 77.44 | TRFE | 22N | 75.88 | TRFE | 15S | 52.80 | TRFE | 26Z | 91.50 |
| TRFE | 19M | 66.36 | TRFE | 26H | 91.52 | TRFE | 26N | 90.79 | TRFE | 18S | 63.36 | TRFE | 30Z | 105.00 |
| TRFE | 25M | 84.48 | TRFE | 35H | 123.20 | TRFE | 35N | 121.90 | TRFE | 25S | 88.00 | TRFE | 42Z | 147.80 |
| TRFE | 31M | 105.60 | TRFE | 45H | 158.40 | TRFE | 45N | 156.78 | TRFE | 32S | 112.64 | TRFE | 55Z | 193.60 |
| TRFE | 45M | 147.84 | TRFE | 55H | 193.60 | TRFE | 55N | 191.41 | TRFE | 38S | 133.76 | TRFE | 65Z | 228.80 |
| TRFE | 55M | 193.60 | TRFE | 75H | 264.00 | TRFE | 75N | 262.50 | TRFE | 52S | 183.04 | TRFE | 90Z | 316.80 |
| TRFE | 68M | 228.80 | TRFE | 100H | 352.00 | TRFE | 100N | 350.17 | TRFE | 70S | 246.40 | TRFE | 100Z | 352.00 |
| TRFE | 80M | 280.60 | TRFE | 120H | 420.70 | TRFE | 120N | 416.70 | TRFE | 84S | 295.70 | TRFE | 140Z | 492.00 |

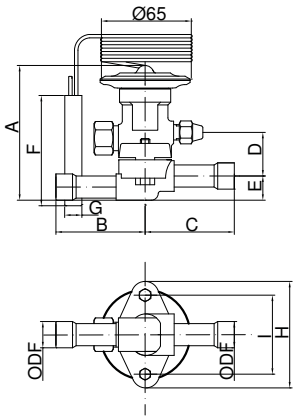
注：名义制冷量是基于蒸发温度te=4.4℃，冷凝温度tc=40℃,阀前制冷剂温度为t1=38℃。
Note: Nominal capacity is based on evaporating temperature te=4.4℃, condensing temperature tc=40℃,and refrigerant temperature ahead of valve t1= 38℃.
注：如需其它工作特性和规格产品，请与本公司接洽联系。
Note :If you have special requirement ,please contact STF.

## 过热度调节

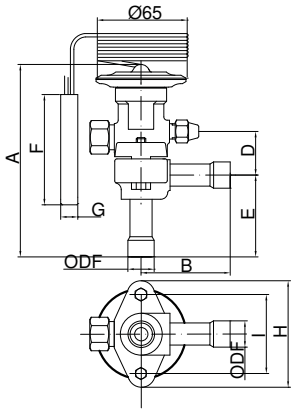
出厂过热度设定为3.5K，静过热度调节范围2～8K。
逆时针转动调节杆一圈，过热度减少0.3K。

## Superheat adjusting

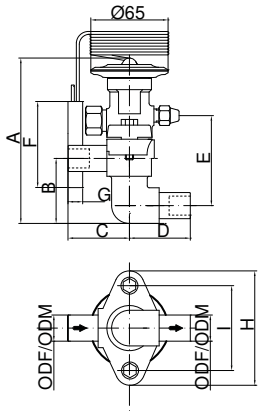
Factory setting :superheat 3.5K, static superheat adjusting range is between 2～8K.
Turn adjusting stem anticlockwise one round ,reduces superheat 0.3K.



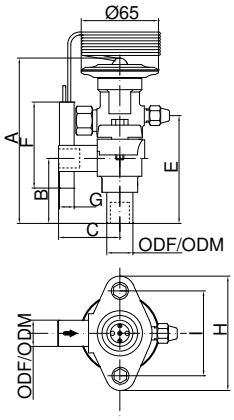

TCLE直通型热力膨胀阀




TCLE直角型热力膨胀阀




TRFE直通型热力膨胀阀




TRFE直角型热力膨胀阀

## 选型表格Technical data

| 型号 Model | 接管形式 Form of connection | 标准接管 Connection size 进口 Inlet | 标准接管 Connection size 出口 Outlet | A mm | B mm | C mm | D mm | E mm | F mm | G mm | H mm | I mm | 毛细管长度 Capillary length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLE | 直通式 Straight-way | ODF 16 ODF 5/8 | ODF 16 ODF 5/8 | 94 | 65 | 65 | 30.5 | 17 | 122 | Φ13 | 62 | 62 | 1.5m |
| | 直角式 Angle | ODF16 ODF5/8 | ODF16 ODF5/8 | 138 | 65 | / | 30.5 | 61 | 122 | Φ13 | 62 | 62 | |
| TRFE | 直通式 Straight-way | ODF22 ODF7/8 | ODF22 ODF7/8 | 138 | 55 | 49 | 44 | 75 | 122 | Φ13 | 65 | 65 | 1.5m 3m |
| | | ODM28.5 ODF1-1/8 | ODM28.5 ODF1-1/8 | | | | | | | | | | |
| | 直角式 Angle-way | ODF22 ODF7/8 | ODF22 ODF7/8 | 138 | 55 | 49 | / | 75 | 122 | Φ13 | 65 | 65 | |
| | | ODM28.5 ODF1-1/8 | ODM28.5 ODF1-1/8 | | | | | | | | | | |
| | 法兰式 Flange | Φ33X3.5 | Φ38.5X3.5 | 123 | 115 | 59 | 57 | Φ35 | 122 | Φ13 | 65 | 65 | |

注：毛细管长度有特殊要求可与本公司接洽联系。
Note :If you have special requirement about the length of capillary , please contact STF.

# TCLE/TRFE 扩展容量表（KW）
# TCLE,TRFE extended capacity tables

| R22 型号 规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +10℃ | | | | | | +4.4℃ | | | | | | -6.7℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 0.54 | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 | 0.54 | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 | 0.54 | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 |
| TCLE 1/2H | 1.58 | 1.80 | 2.01 | 2.18 | 2.36 | 2.53 | 1.52 | 1.76 | 1.97 | 2.15 | 2.32 | 2.50 | 1.48 | 1.72 | 1.94 | 2.11 | 2.32 | 2.43 |
| TCLE 1H | 2.89 | 3.34 | 3.87 | 4.22 | 4.58 | 4.58 | 2.85 | 3.31 | 3.85 | 4.20 | 4.22 | 4.58 | 2.82 | 3.24 | 3.52 | 2.87 | 4.22 | 4.58 |
| TCLE 2H | 5.98 | 7.04 | 7.74 | 8.45 | 9.15 | 9.86 | 5.98 | 6.69 | 7.74 | 8.40 | 9.15 | 9.50 | 4.93 | 6.69 | 7.39 | 8.10 | 9.15 | 9.50 |
| TCLE 3H | 10.91 | 12.70 | 14.08 | 15.49 | 16.54 | 17.92 | 10.90 | 12.32 | 14.08 | 15.14 | 16.50 | 17.60 | 10.55 | 11.97 | 13.73 | 14.78 | 16.54 | 17.25 |
| TCLE 5H | 15.84 | 18.60 | 20.42 | 22.18 | 23.94 | 25.7 | 15.50 | 17.95 | 20.06 | 22.18 | 22.94 | 25.34 | 15.14 | 17.60 | 19.71 | 21.47 | 23.94 | 24.64 |
| TCLE 7-1/2H | 22.88 | 26.40 | 29.57 | 32.38 | 34.85 | 37.31 | 22.40 | 26.05 | 29.21 | 32.03 | 34.50 | 36.96 | 21.82 | 25.34 | 28.51 | 30.98 | 34.50 | 35.90 |
| TCLE 10H | 31.33 | 36.26 | 40.48 | 44.35 | 48.22 | 51.40 | 30.98 | 35.90 | 40.10 | 44.00 | 47.52 | 50.69 | 30.27 | 34.85 | 39.07 | 42.94 | 47.52 | 49.63 |
| TCLE 12H | 38.02 | 44.00 | 48.93 | 53.86 | 58.08 | 61.60 | 37.66 | 43.29 | 48.65 | 53.15 | 57.38 | 61.25 | 36.31 | 42.24 | 47.17 | 51.74 | 57.40 | 59.84 |
| TRFE 14H | 45.40 | 52.10 | 58.40 | 64.10 | 69.00 | 73.90 | 44.70 | 51.70 | 57.70 | 63.40 | 68.60 | 73.20 | 43.60 | 50.30 | 56.30 | 62.00 | 66.90 | 71.50 |
| TRFE 18H | 54.20 | 62.70 | 70.40 | 76.70 | 83.10 | 88.70 | 53.50 | 62.00 | 69.30 | 76.00 | 82.00 | 87.60 | 52.40 | 60.50 | 67.60 | 73.90 | 79.90 | 85.50 |
| TRFE 22H | 67.50 | 78.50 | 87.50 | 96.10 | 103.50 | 110.90 | 67.20 | 77.40 | 86.60 | 94.70 | 102.40 | 109.50 | 65.50 | 75.30 | 84.50 | 92.60 | 100.00 | 109.50 |
| TRFE 26H | 80.30 | 92.60 | 103.50 | 113.30 | 122.50 | 130.90 | 79.20 | 91.50 | 102.40 | 112.00 | 121.10 | 129.60 | 77.10 | 89.10 | 99.60 | 109.10 | 117.90 | 126.00 |
| TRFE 35H | 108.10 | 124.60 | 139.40 | 152.80 | 164.80 | 176.40 | 106.70 | 123.20 | 137.60 | 151.00 | 163.00 | 174.20 | 103.80 | 120.00 | 134.10 | 147.10 | 158.80 | 169.70 |
| TRFE 45H | 138.70 | 160.20 | 179.20 | 196.40 | 211.90 | 226.70 | 137.30 | 158.40 | 177.10 | 194.00 | 209.40 | 223.90 | 133.80 | 154.50 | 172.50 | 189.00 | 204.20 | 218.20 |
| TRFE 55H | 169.70 | 195.70 | 218.90 | 240.10 | 259.10 | 277.00 | 167.60 | 193.60 | 216.50 | 244.00 | 256.30 | 273.90 | 163.30 | 188.70 | 210.80 | 230.90 | 249.60 | 266.80 |
| TRFE 75H | 231.30 | 267.20 | 298.50 | 327.00 | 353.40 | 377.70 | 228.50 | 264.00 | 293.50 | 323.50 | 349.20 | 373.50 | 222.80 | 257.30 | 287.60 | 315.00 | 340.40 | 364.00 |
| TRFE 100H | 308.40 | 356.20 | 398.10 | 436.10 | 471.00 | 503.80 | 304.80 | 352.00 | 393.50 | 431.20 | 465.70 | 497.80 | 297.10 | 342.90 | 383.70 | 419.90 | 453.70 | 485.10 |
| TRFE 120H | 368.60 | 425.90 | 476.20 | 521.30 | 563.20 | 602.40 | 364.30 | 420.70 | 470.50 | 515.60 | 556.80 | 594.90 | 354.40 | 410.10 | 458.70 | 501.90 | 542.80 | 580.10 |

| R22 型号 规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -17.8℃ | | | | | | -29℃ | | | | | | -40℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 | 1.62 | 0.90 | 1.08 | 1.26 | 1.44 | 1.62 | 1.80 | 0.90 | 1.08 | 1.26 | 1.44 | 1.62 | 1.80 |
| TCLE 1/2H | 1.41 | 1.58 | 1.72 | 1.87 | 2.01 | 2.11 | 1.09 | 1.20 | 1.30 | 1.37 | 1.48 | 1.55 | 0.77 | 0.84 | 0.91 | 0.99 | 1.06 | 1.09 |
| TCLE 1H | 2.60 | 2.92 | 3.20 | 3.45 | 3.87 | 3.87 | 2.08 | 2.29 | 2.46 | 2.64 | 2.78 | 2.92 | 1.44 | 0.88 | 1.72 | 1.83 | 1.94 | 2.04 |
| TCLE 2H | 5.28 | 5.98 | 6.69 | 7.04 | 7.74 | 8.10 | 4.22 | 4.58 | 4.93 | 5.28 | 5.63 | 5.98 | 2.99 | 3.29 | 3.52 | 3.87 | 4.05 | 4.22 |
| TCLE 3H | 9.86 | 10.91 | 11.97 | 13.02 | 14.08 | 14.78 | 7.74 | 8.45 | 9.15 | 9.86 | 10.56 | 10.91 | 5.63 | 5.98 | 6.69 | 7.04 | 7.39 | 7.74 |
| TCLE 5H | 14.08 | 15.84 | 17.25 | 18.66 | 20.06 | 21.47 | 11.26 | 12.32 | 13.38 | 14.43 | 15.14 | 15.84 | 8.10 | 8.80 | 8.50 | 9.86 | 10.56 | 11.26 |
| TCLE 7-1/2H | 20.77 | 22.88 | 25.34 | 27.10 | 29.22 | 30.98 | 16.54 | 17.95 | 19.36 | 20.77 | 21.82 | 23.23 | 11.62 | 12.62 | 13.73 | 14.43 | 15.49 | 16.19 |
| TCLE 10H | 28.51 | 32.03 | 34.85 | 37.66 | 40.13 | 42.59 | 22.52 | 24.64 | 26.75 | 28.51 | 30.27 | 32.03 | 15.84 | 17.29 | 18.66 | 20.06 | 21.12 | 22.53 |
| TCLE 12H | 34.14 | 38.37 | 41.98 | 45.41 | 48.58 | 51.39 | 27.10 | 29.92 | 32.38 | 34.49 | 36.31 | 38.37 | 19.09 | 20.77 | 22.53 | 24.29 | 25.70 | 27.10 |
| TRFE 14H | 40.80 | 45.80 | 50.00 | 54.20 | 57.70 | 61.20 | 32.40 | 35.60 | 38.40 | 41.20 | 43.60 | 46.10 | 23.90 | 26.00 | 28.20 | 30.30 | 32.00 | 33.80 |
| TRFE 18H | 48.90 | 54.60 | 59.80 | 64.80 | 69.30 | 73.40 | 39.10 | 42.60 | 46.10 | 49.30 | 52.10 | 54.90 | 27.50 | 29.90 | 32.40 | 34.50 | 36.60 | 38.40 |
| TRFE 22H | 61.30 | 68.30 | 75.00 | 81.00 | 86.60 | 91.90 | 48.60 | 53.50 | 57.70 | 61.60 | 65.50 | 67.00 | 37.30 | 40.50 | 43.40 | 45.80 | 48.20 | 50.70 |
| TRFE 26H | 72.20 | 81.00 | 88.70 | 95.70 | 102.10 | 108.40 | 57.40 | 63.00 | 67.90 | 72.90 | 77.10 | 81.30 | 44.40 | 47.90 | 51.40 | 54.20 | 57.00 | 59.80 |
| TRFE 35H | 97.20 | 108.80 | 119.30 | 128.80 | 137.60 | 146.10 | 77.40 | 84.80 | 91.50 | 97.90 | 103.80 | 109.50 | 59.50 | 64.40 | 68.60 | 72.70 | 76.70 | 80.60 |
| TRFE 45H | 125.00 | 139.80 | 153.10 | 165.40 | 177.10 | 187.60 | 99.60 | 109.10 | 117.90 | 126.00 | 133.80 | 140.80 | 76.40 | 82.70 | 88.40 | 93.60 | 98.70 | 103.50 |
| TRFE 55H | 153.10 | 171.10 | 187.30 | 202.40 | 216.10 | 229.50 | 121.80 | 133.40 | 143.90 | 153.80 | 163.30 | 172.10 | 93.60 | 101.00 | 108.10 | 114.40 | 120.70 | 126.70 |
| TRFE 75H | 209.80 | 233.00 | 255.60 | 276.00 | 295.00 | 313.00 | 166.10 | 182.00 | 196.40 | 209.80 | 222.80 | 234.80 | 127.40 | 137.60 | 147.10 | 156.00 | 164.40 | 172.50 |
| TRFE 100H | 278.10 | 310.80 | 340.40 | 367.80 | 393.20 | 417.40 | 221.40 | 242.50 | 261.90 | 278.90 | 296.70 | 312.90 | 170.00 | 183.40 | 196.10 | 208.00 | 219.30 | 230.20 |
| TRFE 120H | 332.30 | 371.40 | 406.90 | 439.70 | 470.30 | 498.90 | 264.70 | 289.70 | 312.90 | 333.50 | 354.40 | 373.80 | 200.50 | 216.60 | 232.00 | 246.40 | 260.00 | 272.80 |

# TCLE/TRFE 扩展容量表（KW）
# TCLE,TRFE extended capacity tables

| R134a 型号规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +10℃ | | | | | | +4.4℃ | | | | | | -6.7℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 0.30 | 0.40 | 0.60 | 0.70 | 0.80 | 0.80 | 0.40 | 0.60 | 0.70 | 0.80 | 1.00 | 1.10 | 0.40 | 0.60 | 0.70 | 0.80 | 1.00 | 1.10 |
| TCLE 1/4M | 1.10 | 1.20 | 1.50 | 1.60 | 1.80 | 1.80 | 1.20 | 1.50 | 1.60 | 1.70 | 1.90 | 2.00 | 1.10 | 1.40 | 1.50 | 1.60 | 1.80 | 1.90 |
| TCLE 3/4M | 2.10 | 2.40 | 2.90 | 3.10 | 3.40 | 3.40 | 2.30 | 2.80 | 3.00 | 3.20 | 3.60 | 3.80 | 2.20 | 2.70 | 2.90 | 3.10 | 3.50 | 3.60 |
| TCLE 1-1/2M | 4.40 | 5.10 | 6.30 | 6.80 | 7.20 | 7.20 | 4.90 | 6.00 | 6.50 | 6.90 | 7.80 | 8.10 | 4.70 | 5.80 | 6.30 | 6.70 | 7.50 | 7.80 |
| TCLE 2-1/2M | 9.80 | 11.30 | 13.80 | 15.00 | 16.00 | 16.00 | 10.90 | 13.30 | 14.40 | 15.40 | 17.20 | 18.00 | 10.50 | 12.80 | 13.80 | 14.80 | 16.50 | 17.30 |
| TCLE 3-1/2M | 12.60 | 14.60 | 17.90 | 19.30 | 20.60 | 20.60 | 14.00 | 17.20 | 18.60 | 19.80 | 22.20 | 23.30 | 13.50 | 16.50 | 17.90 | 19.10 | 21.30 | 22.40 |
| TCLE 5-1/2M | 17.40 | 20.10 | 24.60 | 26.50 | 28.40 | 28.40 | 19.30 | 23.60 | 25.50 | 27.30 | 30.50 | 32.00 | 18.60 | 22.70 | 24.60 | 26.20 | 29.40 | 30.80 |
| TCLE 7-1/2M | 23.40 | 27.00 | 33.10 | 35.70 | 38.20 | 38.20 | 26.00 | 31.80 | 34.40 | 36.70 | 41.10 | 43.10 | 25.00 | 30.60 | 33.00 | 35.30 | 39.50 | 41.40 |
| TCLE 9M | 27.50 | 31.70 | 38.90 | 42.00 | 44.90 | 44.90 | 30.50 | 37.40 | 40.40 | 43.20 | 48.30 | 50.60 | 29.40 | 35.90 | 38.80 | 41.50 | 46.40 | 48.70 |
| TRFE 11M | 33.00 | 38.90 | 47.00 | 51.00 | 54.00 | 54.00 | 37.00 | 45.00 | 49.00 | 52.00 | 58.00 | 61.00 | 35.00 | 43.00 | 47.00 | 50.00 | 56.00 | 59.00 |
| TRFE 13M | 40.00 | 46.00 | 56.00 | 61.00 | 66.00 | 66.00 | 44.00 | 54.00 | 59.00 | 63.00 | 70.00 | 73.20 | 43.00 | 52.00 | 56.00 | 60.00 | 67.00 | 71.00 |
| TRFE 16M | 49.00 | 57.00 | 70.00 | 75.00 | 80.00 | 80.00 | 55.00 | 57.00 | 72.00 | 77.00 | 87.00 | 91.50 | 53.00 | 65.00 | 70.00 | 74.00 | 83.00 | 87.00 |
| TRFE 19M | 57.00 | 68.00 | 80.00 | 87.00 | 93.00 | 93.00 | 63.00 | 77.00 | 84.00 | 89.00 | 100.00 | 105.20 | 61.00 | 74.00 | 80.00 | 86.00 | 96.90 | 101.90 |
| TRFE 25M | 78.00 | 87.00 | 107.00 | 115.00 | 123.00 | 123.00 | 84.00 | 103.90 | 111.00 | 119.00 | 133.50 | 139.60 | 81.00 | 99.00 | 107.00 | 114.00 | 128.00 | 134.00 |
| TRFE 31M | 94.00 | 109.00 | 133.00 | 144.00 | 154.00 | 154.00 | 105.00 | 128.00 | 130.00 | 148.00 | 155.20 | 173.50 | 101.00 | 123.00 | 133.00 | 142.00 | 159.00 | 167.00 |
| TRFE 45M | 132.00 | 152.00 | 187.00 | 202.00 | 216.00 | 216.00 | 147.00 | 180.00 | 194.00 | 207.00 | 232.10 | 243.00 | 141.00 | 173.00 | 187.00 | 199.00 | 223.00 | 234.00 |
| TRFE 55M | 170.00 | 196.00 | 240.00 | 259.00 | 277.00 | 277.00 | 188.00 | 231.00 | 249.00 | 266.00 | 298.70 | 312.50 | 181.00 | 222.00 | 240.00 | 256.00 | 287.00 | 300.00 |
| TRFE 68M | 206.00 | 238.00 | 292.00 | 315.00 | 337.00 | 337.00 | 229.00 | 281.00 | 303.00 | 324.00 | 362.40 | 380.10 | 220.00 | 270.00 | 292.00 | 312.00 | 349.00 | 365.00 |
| TRFE 80M | 248.00 | 283.00 | 347.00 | 374.00 | 400.00 | 400.00 | 313.00 | 334.90 | 360.00 | 385.00 | 432.20 | 452.10 | 262.00 | 321.00 | 347.00 | 370.00 | 415.00 | 434.00 |

| R134a 型号规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -17.8℃ | | | | | | -29℃ | | | | | | -40℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 0.60 | 0.70 | 0.80 | 1.00 | 1.10 | 1.20 | 0.60 | 0.70 | 0.80 | 1.00 | 1.10 | 1.20 | 0.60 | 0.70 | 0.80 | 1.00 | 1.10 | 1.20 |
| TCLE 1/4M | 1.10 | 1.20 | 1.20 | 1.40 | 1.50 | 1.50 | 0.72 | 0.78 | 0.84 | 0.94 | 0.98 | 1.03 | 0.47 | 0.50 | 0.54 | 0.60 | 0.63 | 0.66 |
| TCLE 3/4M | 2.10 | 2.20 | 2.40 | 2.70 | 2.80 | 2.90 | 1.40 | 1.50 | 1.60 | 1.80 | 1.90 | 2.00 | 0.89 | 0.96 | 1.03 | 1.15 | 1.21 | 1.26 |
| TCLE 1-1/2M | 4.40 | 4.80 | 6.10 | 7.70 | 8.00 | 8.30 | 3.00 | 3.20 | 3.40 | 3.90 | 4.00 | 4.20 | 1.90 | 2.10 | 2.20 | 2.50 | 2.60 | 2.70 |
| TCLE 2-1/2M | 9.80 | 10.60 | 11.30 | 12.70 | 13.30 | 13.90 | 6.60 | 7.10 | 7.60 | 8.50 | 8.90 | 9.30 | 4.30 | 4.60 | 4.90 | 5.50 | 5.80 | 6.00 |
| TCLE 3-1/2M | 12.70 | 13.70 | 14.60 | 16.40 | 17.20 | 17.90 | 8.50 | 9.20 | 9.80 | 11.10 | 11.50 | 12.10 | 5.50 | 5.90 | 6.30 | 7.10 | 7.40 | 7.80 |
| TCLE 5-1/2M | 17.40 | 18.80 | 20.10 | 22.50 | 23.60 | 24.70 | 11.70 | 12.70 | 13.50 | 15.10 | 15.90 | 16.60 | 7.60 | 8.20 | 8.70 | 9.80 | 10.20 | 10.70 |
| TCLE 7-1/2M | 23.50 | 25.30 | 27.10 | 30.30 | 31.80 | 33.20 | 15.80 | 17.00 | 18.20 | 20.40 | 21.40 | 22.30 | 10.20 | 11.00 | 11.70 | 13.10 | 13.80 | 14.40 |
| TCLE 9M | 27.60 | 29.80 | 31.80 | 35.50 | 37.30 | 39.00 | 18.50 | 20.00 | 21.40 | 24.00 | 25.10 | 26.20 | 11.90 | 12.90 | 13.80 | 15.40 | 16.20 | 16.90 |
| TRFE 11M | 33.00 | 36.00 | 38.10 | 43.50 | 45.70 | 47.20 | 22.30 | 24.60 | 26.50 | 29.10 | 30.30 | 32.50 | 14.00 | 16.00 | 17.00 | 19.00 | 20.00 | 21.00 |
| TRFE 13M | 40.00 | 43.50 | 46.20 | 52.30 | 54.20 | 57.50 | 27.50 | 29.60 | 31.20 | 35.40 | 36.20 | 38.40 | 17.00 | 19.90 | 20.00 | 22.00 | 23.00 | 25.00 |
| TRFE 16M | 50.20 | 53.60 | 57.80 | 64.20 | 67.50 | 70.30 | 33.40 | 36.50 | 38.20 | 43.20 | 45.30 | 47.80 | 21.00 | 23.00 | 25.00 | 28.00 | 29.00 | 30.00 |
| TRFE 19M | 57.40 | 62.50 | 66.80 | 74.10 | 77.50 | 81.40 | 38.10 | 42.20 | 44.70 | 50.60 | 52.20 | 54.30 | 25.00 | 27.00 | 29.00 | 32.00 | 34.00 | 35.00 |
| TRFE 25M | 76.50 | 82.10 | 88.60 | 97.90 | 103.10 | 107.50 | 54.20 | 55.40 | 59.60 | 66.30 | 69.10 | 72.10 | 33.00 | 36.00 | 38.00 | 42.00 | 44.00 | 46.00 |
| TRFE 31M | 96.20 | 102.10 | 108.50 | 122.30 | 128.50 | 134.50 | 54.60 | 69.50 | 73.70 | 82.90 | 86.50 | 90.30 | 41.00 | 44.00 | 47.00 | 53.00 | 55.00 | 58.00 |
| TRFE 45M | 123.10 | 143.20 | 153.50 | 171.40 | 179.60 | 187.20 | 89.20 | 96.30 | 103.10 | 115.20 | 121.40 | 126.70 | 57.00 | 62.00 | 66.00 | 74.00 | 78.00 | 81.00 |
| TRFE55M | 170.20 | 184.50 | 197.30 | 220.50 | 231.90 | 241.20 | 115.30 | 124.70 | 132.30 | 148.20 | 155.00 | 162.60 | 74.00 | 80.00 | 85.00 | 95.00 | 100.00 | 104.00 |
| TRFE 68M | 207.00 | 224.30 | 239.50 | 267.20 | 280.10 | 293.60 | 139.60 | 150.40 | 161.40 | 180.20 | 189.70 | 197.60 | 90.00 | 97.00 | 104.00 | 115.00 | 121.00 | 127.00 |
| TRFE 80M | 246.70 | 266.60 | 285.90 | 318.40 | 335.00 | 348.70 | 169.50 | 180.10 | 191.90 | 214.50 | 224.10 | 234.70 | 107.00 | 116.00 | 123.00 | 137.00 | 144.00 | 150.00 |

# TCLE/TRFE 扩展容量表（KW）
# TCLE,TRFE extended capacity tables

| R404A/ R507 型号规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +10℃ | | | | | | +4.4℃ | | | | | | -6.7℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 0.52 | 0.69 | 0.86 | 1.03 | 1.21 | 1.38 | 0.69 | 0.86 | 1.03 | 1.21 | 1.38 | 1.55 | 0.86 | 1.03 | 1.21 | 1.38 | 1.55 | 1.72 |
| TCLE 1/3S | 1.53 | 1.69 | 1.86 | 2.03 | 2.25 | 2.47 | 1.35 | 1.62 | 1.74 | 1.88 | 2.03 | 2.19 | 1.49 | 1.60 | 1.73 | 1.87 | 2.02 | 2.18 |
| TCLE 2/3S | 3.07 | 3.37 | 3.71 | 4.07 | 4.49 | 4.93 | 2.69 | 3.23 | 3.49 | 3.76 | 4.07 | 4.39 | 2.97 | 3.21 | 3.47 | 3.75 | 4.05 | 4.37 |
| TCLE 1-1/2 S | 6.92 | 7.61 | 8.38 | 9.17 | 10.14 | 11.13 | 6.08 | 7.29 | 7.86 | 8.48 | 9.17 | 9.89 | 6.71 | 7.23 | 7.82 | 8.45 | 9.13 | 9.85 |
| TCLE 2 S | 9.20 | 10.12 | 11.14 | 12.20 | 13.48 | 14.80 | 8.08 | 9.70 | 10.46 | 11.28 | 12.20 | 13.16 | 8.92 | 9.62 | 10.40 | 11.24 | 12.14 | 13.10 |
| TCLE 3-1/2 S | 16.10 | 17.71 | 19.50 | 21.35 | 23.59 | 25.90 | 14.14 | 16.98 | 18.31 | 19.74 | 21.35 | 23.03 | 15.61 | 16.84 | 18.20 | 19.67 | 21.25 | 22.93 |
| TCLE 5 S | 23.00 | 25.30 | 27.85 | 30.50 | 33.70 | 37.00 | 20.20 | 24.25 | 26.15 | 28.20 | 30.50 | 32.90 | 22.30 | 24.05 | 26.00 | 28.10 | 30.35 | 32.75 |
| TCLE 7 S | 32.20 | 35.42 | 38.99 | 42.70 | 47.18 | 51.80 | 28.28 | 33.95 | 36.61 | 39.48 | 42.70 | 46.06 | 31.22 | 33.67 | 36.40 | 39.34 | 42.49 | 45.85 |
| TCLE 8-1/2 S | 39.10 | 43.01 | 47.35 | 51.85 | 57.29 | 62.90 | 34.34 | 41.23 | 44.46 | 47.94 | 51.85 | 55.93 | 37.91 | 40.89 | 44.20 | 47.77 | 51.60 | 55.68 |
| TRFE 10 S | 46.00 | 50.60 | 55.70 | 61.00 | 67.40 | 74.00 | 40.40 | 48.50 | 52.30 | 56.40 | 61.00 | 65.80 | 44.60 | 48.10 | 52.00 | 56.20 | 60.70 | 65.50 |
| TRFE 12 S | 55.20 | 60.72 | 66.84 | 73.20 | 80.88 | 88.80 | 48.48 | 58.20 | 62.76 | 67.68 | 73.20 | 78.96 | 53.52 | 57.72 | 62.40 | 67.44 | 72.84 | 78.60 |
| TRFE 15S | 69.00 | 75.90 | 83.55 | 91.50 | 101.10 | 111.00 | 60.60 | 72.75 | 78.45 | 84.60 | 91.50 | 98.70 | 66.90 | 72.15 | 78.00 | 84.30 | 91.05 | 98.25 |
| TRFE 18 S | 82.80 | 91.08 | 100.26 | 109.80 | 121.32 | 133.20 | 72.72 | 87.30 | 94.14 | 101.52 | 109.80 | 118.44 | 80.28 | 86.58 | 93.60 | 101.16 | 109.26 | 117.90 |
| TRFE 25 S | 115.09 | 126.60 | 139.36 | 152.62 | 168.63 | 185.15 | 101.08 | 121.35 | 130.85 | 141.11 | 152.62 | 164.63 | 111.59 | 120.35 | 130.10 | 140.61 | 151.87 | 163.88 |
| TRFE 32 S | 159.98 | 175.98 | 193.71 | 212.14 | 234.40 | 257.36 | 140.50 | 168.67 | 181.89 | 196.15 | 212.14 | 228.84 | 155.11 | 167.28 | 180.84 | 195.45 | 211.10 | 227.79 |
| TRFE 38 S | 190.37 | 209.41 | 230.52 | 252.45 | 278.94 | 306.25 | 167.20 | 200.72 | 216.45 | 233.41 | 252.45 | 272.32 | 184.58 | 199.06 | 215.21 | 232.59 | 251.21 | 271.08 |
| TRFE 52 S | 260.81 | 286.89 | 315.81 | 345.86 | 382.15 | 419.57 | 229.06 | 274.99 | 296.53 | 319.78 | 345.86 | 373.07 | 252.87 | 272.72 | 294.83 | 318.64 | 344.16 | 371.37 |
| TRFE 70 S | 352.10 | 387.31 | 426.34 | 466.91 | 515.90 | 566.42 | 309.23 | 371.23 | 400.32 | 431.70 | 466.91 | 503.65 | 341.38 | 368.17 | 398.02 | 430.17 | 464.61 | 501.35 |
| TRFE 84 S | 420.79 | 462.90 | 509.50 | 558.00 | 616.60 | 676.90 | 369.60 | 443.70 | 478.40 | 515.90 | 558.00 | 601.90 | 408.00 | 440.00 | 475.70 | 514.10 | 555.30 | 599.20 |
| R404A/ R507 型号规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
| | -17.8℃ | | | | | | -29℃ | | | | | | -40℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 1.03 | 1.21 | 1.38 | 1.55 | 1.72 | 1.90 | 1.21 | 1.38 | 1.55 | 1.72 | 1.90 | 2.07 | 1.38 | 1.55 | 1.72 | 1.90 | 2.07 | 2.24 |
| TCLE 1/3S | 1.34 | 1.47 | 1.59 | 1.68 | 1.79 | 1.89 | 1.03 | 1.08 | 1.13 | 1.19 | 1.25 | 1.31 | 0.91 | 0.96 | 1.01 | 1.06 | 1.11 | 1.17 |
| TCLE 2/3S | 2.69 | 2.94 | 3.17 | 3.37 | 3.57 | 3.79 | 2.05 | 2.15 | 2.27 | 2.38 | 2.50 | 2.62 | 1.83 | 1.92 | 2.02 | 2.11 | 2.22 | 2.33 |
| TCLE 1-1/2 S | 6.06 | 6.63 | 7.16 | 7.59 | 8.06 | 8.54 | 4.63 | 4.86 | 5.11 | 5.37 | 5.64 | 5.91 | 4.12 | 4.33 | 4.56 | 4.77 | 5.01 | 5.26 |
| TCLE 2 S | 8.06 | 8.82 | 9.52 | 10.10 | 10.72 | 11.36 | 6.16 | 6.46 | 6.80 | 7.14 | 7.50 | 7.86 | 5.48 | 5.76 | 6.06 | 6.34 | 6.66 | 7.00 |
| TCLE 3-1/2 S | 14.11 | 15.44 | 16.66 | 17.68 | 18.76 | 19.88 | 10.78 | 11.31 | 11.90 | 12.50 | 13.13 | 13.76 | 9.59 | 10.08 | 10.61 | 11.10 | 11.66 | 12.25 |
| TCLE 5 S | 20.15 | 22.05 | 23.80 | 25.25 | 26.80 | 28.40 | 15.40 | 16.15 | 17.00 | 17.85 | 18.75 | 19.65 | 13.70 | 14.40 | 15.15 | 15.85 | 16.65 | 17.50 |
| TCLE 7 S | 28.21 | 30.87 | 33.32 | 35.35 | 37.52 | 39.76 | 21.56 | 22.61 | 23.80 | 24.99 | 26.25 | 27.51 | 19.18 | 20.16 | 21.21 | 22.19 | 23.31 | 24.50 |
| TCLE 8-1/2 S | 34.26 | 37.49 | 40.46 | 42.93 | 45.56 | 48.28 | 26.18 | 27.46 | 28.90 | 30.35 | 31.88 | 33.41 | 23.29 | 24.48 | 25.76 | 26.95 | 28.31 | 29.75 |
| TRFE 10 S | 40.30 | 44.10 | 47.60 | 50.50 | 53.60 | 56.80 | 30.80 | 32.30 | 34.00 | 35.70 | 37.50 | 39.30 | 27.40 | 28.80 | 30.30 | 31.70 | 33.30 | 35.00 |
| TRFE 12 S | 48.36 | 52.92 | 57.12 | 60.60 | 64.32 | 68.16 | 36.96 | 38.76 | 40.80 | 42.84 | 45.00 | 47.16 | 32.88 | 34.56 | 36.36 | 38.04 | 39.96 | 42.00 |
| TRFE 15S | 60.45 | 66.15 | 71.40 | 75.75 | 80.40 | 85.20 | 46.20 | 48.45 | 51.00 | 53.55 | 56.25 | 58.95 | 41.10 | 43.20 | 45.45 | 47.55 | 49.95 | 52.50 |
| TRFE 18 S | 72.54 | 79.38 | 85.68 | 90.90 | 96.48 | 102.24 | 55.44 | 58.14 | 61.20 | 64.26 | 67.50 | 70.74 | 49.32 | 51.84 | 54.54 | 57.06 | 59.94 | 63.00 |
| TRFE 25 S | 100.83 | 110.34 | 119.10 | 126.35 | 134.11 | 142.11 | 77.06 | 80.81 | 85.07 | 89.32 | 93.83 | 98.33 | 68.55 | 72.06 | 75.81 | 79.31 | 83.32 | 87.57 |
| TRFE 32 S | 129.06 | 141.23 | 152.44 | 161.73 | 171.66 | 181.91 | 98.64 | 103.44 | 108.89 | 114.33 | 120.10 | 125.86 | 87.75 | 92.23 | 97.04 | 101.52 | 106.65 | 112.09 |
| TRFE 38 S | 153.59 | 168.07 | 181.41 | 192.46 | 204.27 | 216.47 | 117.38 | 123.10 | 129.58 | 136.05 | 142.91 | 149.77 | 104.42 | 109.76 | 115.47 | 120.81 | 126.91 | 133.39 |
| TRFE 52 S | 210.41 | 230.25 | 248.53 | 263.67 | 279.85 | 296.56 | 160.81 | 168.64 | 177.52 | 186.39 | 195.79 | 205.19 | 143.06 | 150.37 | 158.20 | 165.51 | 173.86 | 182.74 |
| TRFE 70 S | 284.06 | 310.84 | 335.51 | 355.95 | 377.80 | 400.36 | 217.09 | 227.67 | 239.65 | 251.63 | 264.32 | 277.01 | 193.13 | 203.00 | 213.57 | 223.44 | 234.72 | 246.70 |
| TRFE 84 S | 339.50 | 371.50 | 401.00 | 425.40 | 451.50 | 478.50 | 259.50 | 272.10 | 286.40 | 300.70 | 315.90 | 331.05 | 230.80 | 242.40 | 255.2 | 267.00 | 280.50 | 294.80 |

# TCLE/TRFE 扩展容量表（KW）
# TCLE,TRFE extended capacity tables

| R407c 型号规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | +10℃ | | | | | | +4.4℃ | | | | | | -6.7℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 0.54 | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 | 0.54 | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 | 0.54 | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 |
| TCLE 1/2N | 1.39 | 1.60 | 1.86 | 2.03 | 2.20 | 2.33 | 1.37 | 1.59 | 1.85 | 2.02 | 2.12 | 2.20 | 1.35 | 1.56 | 1.69 | 1.86 | 2.03 | 2.20 |
| TCLE 1N | 2.77 | 3.20 | 3.72 | 4.05 | 4.40 | 4.66 | 2.74 | 3.18 | 3.70 | 4.03 | 4.24 | 4.40 | 2.70 | 3.11 | 3.38 | 3.71 | 4.05 | 4.39 |
| TCLE 2N | 5.54 | 6.40 | 7.44 | 8.10 | 8.80 | 9.32 | 5.48 | 6.36 | 7.40 | 8.06 | 8.48 | 8.80 | 5.40 | 6.22 | 6.76 | 7.42 | 8.10 | 8.78 |
| TCLE 3N | 8.31 | 9.60 | 11.16 | 12.15 | 13.20 | 13.98 | 8.22 | 9.54 | 11.10 | 12.09 | 12.72 | 13.20 | 8.10 | 9.33 | 10.14 | 11.13 | 12.15 | 13.17 |
| TCLE 5N | 13.85 | 16.00 | 18.60 | 20.25 | 22.00 | 23.30 | 13.70 | 15.90 | 18.50 | 20.15 | 21.20 | 22.00 | 13.50 | 15.55 | 16.90 | 18.55 | 20.25 | 21.95 |
| TCLE 7-1/2N | 20.78 | 24.00 | 27.90 | 30.38 | 33.00 | 34.95 | 20.55 | 23.85 | 27.75 | 30.23 | 31.80 | 33.00 | 20.25 | 23.33 | 25.35 | 27.83 | 30.38 | 32.93 |
| TCLE 10N | 27.70 | 32.00 | 37.20 | 40.50 | 44.00 | 46.60 | 27.40 | 31.80 | 37.00 | 40.30 | 42.40 | 44.00 | 27.00 | 31.10 | 33.80 | 37.10 | 40.50 | 43.90 |
| TCLE 12N | 33.24 | 38.40 | 44.64 | 48.60 | 52.80 | 55.92 | 32.88 | 38.16 | 44.40 | 48.36 | 50.88 | 52.80 | 32.40 | 37.32 | 40.56 | 44.52 | 48.60 | 52.68 |
| TRFE 14N | 38.78 | 44.80 | 52.08 | 56.70 | 61.60 | 65.24 | 38.36 | 44.52 | 51.80 | 56.42 | 59.36 | 61.60 | 37.80 | 43.54 | 47.32 | 51.94 | 56.70 | 61.46 |
| TRFE 18N | 49.86 | 57.60 | 66.96 | 72.90 | 79.20 | 83.88 | 49.32 | 57.24 | 66.60 | 72.54 | 76.32 | 79.20 | 48.60 | 55.98 | 60.84 | 66.78 | 72.90 | 79.02 |
| TRFE 22N | 60.94 | 70.40 | 81.84 | 89.10 | 96.80 | 102.52 | 60.28 | 69.96 | 81.40 | 88.66 | 93.28 | 96.80 | 59.40 | 68.42 | 74.36 | 81.62 | 89.10 | 96.58 |
| TRFE 26N | 72.02 | 83.20 | 96.72 | 105.30 | 114.40 | 121.16 | 71.24 | 82.68 | 96.20 | 104.78 | 110.24 | 114.40 | 70.20 | 80.86 | 87.88 | 96.46 | 105.30 | 114.14 |
| TRFE 35N | 96.95 | 112.00 | 130.20 | 141.75 | 154.00 | 163.10 | 95.90 | 111.30 | 129.50 | 141.05 | 148.40 | 154.00 | 94.50 | 108.85 | 118.30 | 129.85 | 141.75 | 153.65 |
| TRFE 45N | 124.65 | 144.00 | 167.40 | 182.25 | 198.00 | 209.70 | 123.30 | 143.10 | 166.50 | 181.35 | 190.80 | 198.00 | 121.50 | 139.95 | 152.10 | 166.95 | 182.25 | 197.55 |
| TRFE 55N | 152.35 | 176.00 | 204.60 | 222.75 | 242.00 | 256.30 | 150.70 | 174.90 | 203.50 | 221.65 | 233.20 | 242.00 | 148.50 | 171.05 | 185.90 | 204.05 | 222.75 | 241.45 |
| TRFE 75N | 207.75 | 240.00 | 279.00 | 303.75 | 330.00 | 349.50 | 205.50 | 238.50 | 277.50 | 302.25 | 318.00 | 330.00 | 202.50 | 233.25 | 253.50 | 278.25 | 303.75 | 329.25 |
| TRFE 100N | 277.00 | 320.00 | 372.00 | 405.00 | 440.00 | 466.00 | 274.00 | 318.00 | 370.00 | 403.00 | 424.00 | 440.00 | 270.00 | 311.00 | 338.00 | 371.00 | 405.00 | 439.00 |
| TRFE 120N | 332.40 | 384.00 | 446.40 | 486.00 | 528.00 | 559.20 | 328.80 | 381.60 | 444.00 | 483.60 | 508.80 | 528.00 | 324.00 | 373.20 | 405.60 | 445.20 | 486.00 | 526.80 |

| R407c 型号规格 | 蒸发温度（℃） Evaporating temperature （℃） | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -17.8℃ | | | | | | -29℃ | | | | | | -40℃ | | | | | |
| | 通过阀的压降 Pressure drop across valve (MPa) | | | | | | | | | | | | | | | | | |
| | 0.72 | 0.90 | 1.08 | 1.26 | 1.44 | 1.62 | 0.90 | 1.08 | 1.26 | 1.44 | 1.62 | 1.80 | 0.90 | 1.08 | 1.26 | 1.44 | 1.62 | 1.80 |
| TCLE 1/2N | 1.25 | 1.40 | 1.54 | 1.66 | 1.86 | 1.91 | 1.00 | 1.10 | 1.18 | 1.27 | 1.33 | 1.40 | 0.69 | 0.80 | 0.83 | 0.88 | 0.93 | 0.98 |
| TCLE 1N | 2.50 | 2.80 | 3.07 | 3.31 | 3.71 | 3.81 | 2.00 | 2.20 | 2.36 | 2.53 | 2.66 | 2.80 | 1.38 | 1.60 | 1.65 | 1.75 | 1.86 | 1.95 |
| TCLE 2N | 5.00 | 5.60 | 6.14 | 6.62 | 7.42 | 7.62 | 4.00 | 4.40 | 4.72 | 5.06 | 5.32 | 5.60 | 2.76 | 3.20 | 3.30 | 3.50 | 3.72 | 3.90 |
| TCLE 3N | 7.50 | 8.40 | 9.21 | 9.93 | 11.13 | 11.43 | 6.00 | 6.60 | 7.08 | 7.59 | 7.98 | 8.40 | 4.14 | 4.80 | 4.95 | 5.25 | 5.58 | 5.85 |
| TCLE 5N | 12.50 | 14.00 | 15.35 | 16.55 | 18.55 | 19.05 | 10.00 | 11.00 | 11.80 | 12.65 | 13.30 | 14.00 | 6.90 | 8.00 | 8.25 | 8.75 | 9.30 | 9.75 |
| TCLE 7-1/2N | 18.75 | 21.00 | 23.03 | 24.83 | 27.83 | 28.58 | 15.00 | 16.50 | 17.70 | 18.98 | 19.95 | 21.00 | 10.35 | 12.00 | 12.38 | 13.13 | 13.95 | 14.63 |
| TCLE 10N | 25.00 | 28.00 | 30.70 | 33.10 | 37.10 | 38.10 | 20.00 | 22.00 | 23.60 | 25.30 | 26.60 | 28.00 | 13.80 | 16.00 | 16.50 | 17.50 | 18.60 | 19.50 |
| TCLE 12N | 30.00 | 33.60 | 36.84 | 39.72 | 44.52 | 45.72 | 24.00 | 26.40 | 28.32 | 30.36 | 31.92 | 33.60 | 16.56 | 19.20 | 19.80 | 21.00 | 22.32 | 23.40 |
| TRFE 14N | 35.00 | 39.20 | 42.98 | 46.34 | 51.94 | 53.34 | 28.00 | 30.80 | 33.04 | 35.42 | 37.24 | 39.20 | 19.32 | 22.40 | 23.10 | 24.50 | 26.04 | 27.30 |
| TRFE 18N | 45.00 | 50.40 | 55.26 | 59.58 | 66.78 | 68.58 | 36.00 | 39.60 | 42.48 | 45.54 | 47.88 | 50.40 | 24.84 | 28.80 | 29.70 | 31.50 | 33.48 | 35.10 |
| TRFE 22N | 55.00 | 61.60 | 67.54 | 72.82 | 81.62 | 83.82 | 44.00 | 48.40 | 51.92 | 55.66 | 58.52 | 61.60 | 30.36 | 35.20 | 36.30 | 38.50 | 40.92 | 42.90 |
| TRFE 26N | 65.00 | 72.80 | 79.82 | 86.06 | 96.46 | 99.06 | 52.00 | 57.20 | 61.36 | 65.78 | 69.16 | 72.80 | 35.88 | 41.60 | 42.90 | 45.50 | 48.36 | 50.70 |
| TRFE 35N | 87.50 | 98.00 | 107.45 | 115.85 | 129.85 | 133.35 | 70.00 | 77.00 | 82.60 | 88.55 | 93.10 | 98.00 | 48.30 | 56.00 | 57.75 | 61.25 | 65.10 | 68.25 |
| TRFE 45N | 112.50 | 126.00 | 138.15 | 148.95 | 166.95 | 171.45 | 90.00 | 99.00 | 106.20 | 113.85 | 119.70 | 126.00 | 62.10 | 72.00 | 74.25 | 78.75 | 83.70 | 87.75 |
| TRFE 55N | 137.50 | 154.00 | 168.85 | 182.05 | 204.05 | 209.55 | 110.00 | 121.00 | 129.80 | 139.15 | 146.30 | 154.00 | 75.90 | 88.00 | 90.75 | 96.25 | 102.30 | 107.25 |
| TRFE 75N | 187.50 | 210.00 | 230.25 | 248.25 | 278.25 | 285.75 | 150.00 | 165.00 | 177.00 | 189.75 | 199.50 | 210.00 | 103.50 | 120.00 | 123.75 | 131.25 | 139.50 | 146.25 |
| TRFE 100N | 250.00 | 280.00 | 307.00 | 331.00 | 371.00 | 381.00 | 200.00 | 220.00 | 236.00 | 253.00 | 266.00 | 280.00 | 138.00 | 160.00 | 165.00 | 175.00 | 186.00 | 195.00 |
| TRFE 120N | 300.00 | 336.00 | 368.40 | 397.20 | 445.20 | 457.20 | 240.00 | 264.00 | 283.20 | 303.60 | 319.20 | 336.00 | 165.60 | 192.00 | 198.00 | 210.00 | 223.20 | 234.00 |