

Data sheet

Thermostatic expansion valves

Type TGE 10, TGE 20 and TGE 40



TGE is a dedicated designed series of thermostatic expansion valves for all standard refrigerants including R32 and HC.

The hermetic tight design meets the environmental demands for today and future. Versions for non standard refrigerants can be produced to order.

Applications

- Air conditioning systems
- Heat pumps
- Water chillers
- Refrigerated containers
- Traditional refrigeration systems - and others

Features

- Hermetic TXV for R22, R134a, R404A, R507, R407C, R410A, R32 and R290
- Head pressure independent
- Version with MOP (Max. Operating Pressure)
- Straightway flow
- Balance port (BP)
- Low hysteresis
- Max. working pressure 46 bar/ 667 psig
- Long lifetime for heat pump application
- Cylindrical bulb design with upgraded bulb strap
- Biflow with expansion in both directions
- Adjustable superheat setting
- Laser welded, stainless steel power element / capillary tube
- Mechanical connections (solder, flare, MIO, ORFS) available
- Capacity range: 3.5 to 52 TR (12 to 182 kW) R410A
- Version with or without bleed function
- Compliance with ATEX hazard zone 2

Technical data

Thermostatic charge for R410A/R32, R22/R407C, R134a, R407C, R404A/R507, R410A and R290:

- MAH -30 - +15 °C
-22 - +60 °F
For Air Conditioning applications
- N -40 - +10 °C without MOP
-40 - +50 °F without MOP
For refrigeration applications
- K -25 - +10 °C MOP + 15 °C
-15 - +50 °F MOP + 60 °F
For refrigeration applications

Static superheat (SS): 4K / 7.2°F

Connection

| Type | Inlet ODF solder | Outlet ODF solder |
|--------|------------------|------------------------|
| TGE 10 | 3/8, 1/2, 5/8 | 5/8, 7/8, 1-1/8 |
| | 10, 12, 16 | 16, 22, 28 |
| TGE 20 | 5/8, 7/8, 1-1/8 | 5/8, 7/8, 1-1/8, 1-3/8 |
| TGE 40 | 16, 22, 28 | 16, 22, 28, 35 |

Capillary tube length

| Type | Capillary tube length | |
|--------|-----------------------|-------------------|
| TGE 10 | 1.5 m | 59 in. |
| TGE 20 | 1.5 m or 3 m | 59 in. or 118 in. |
| TGE 40 | 1.5 m or 3 m | 59 in. or 118 in. |

Valve options

In addition to the standard programme, variants of following options may be available:

- Refrigerants
- Evaporating temperature range
- MOP point
- Static superheat setting (0K / 0 °F - 8K / 14.4 °F)
- Flare connections

Please contact your nearest Danfoss sales office to discuss valve options.

Operating conditions

Max. operating temperature

- Thermostatic element
- MAH charge: 150 °C / 302 °F
- N charge: 100 °C / 210 °F (R410A)
- K charge: 150 °C / 302 °F (R410A)
- Valve body: 110 °C / 230 °F

Max. working pressure 46 bar / 667 psig
Max. test pressure 51 bar / 740 psig

TGE valves are designed for biflow operations.

MOP function

| Refrigerant | Range K |
|-------------|---|
| | -25 - +10 °C / -15 - +50 °F |
| | MOP point for evaporating temperature t_e and evaporating pressure p_e $t_e = +15 °C / +60 °F$ |
| R22 | 100 psig / 6.9 bar (abs) |
| R407C | 95 psig / 6.6 bar (abs) |
| R134a | 55 psig / 5 bar (abs) |
| R410A | 165 psig / 11.5 bar (abs) |
| R404A/ R507 | 120 psig / 8.3 bar (abs) |

¹⁾ MOP for R290, R32, please contact Danfoss for more info.

Identification

Important valve information is provided on the diaphragm element (fig. 1)

Main valve example:

- TGE = Valve type
- 9 TR = Nominal capacity Q_{nom} in tons of refrigeration
- 32 kW = Rated capacity Q_{nom} in kW
- R410A = Refrigerant
- 25 / +10 °C = Evaporating temperature range (°C)
- 15 / + 50 °F = Evaporating temperature range (°F)
- 067N3006 = Code number
- MOP = Max. Operating Pressure
- PS 46 bar / MWP 667 psig = Max. Working Pressure in bar and psig

- BE2211E: BE = China
- 22 = week
- 11 = 2011
- E = friday

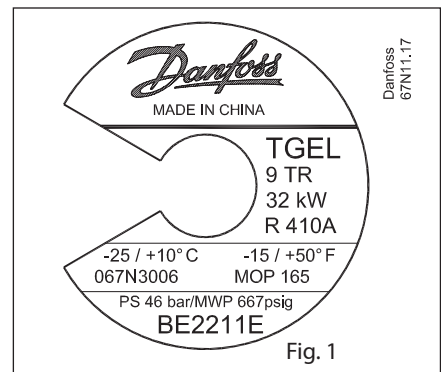


Fig. 1

Refrigerant code:

- R22 = X
- R410A/R32 = L
- R410A = L
- R407C = Z
- R134a = N
- R404A/R507 = S
- R290 = -

Nominal capacity*)

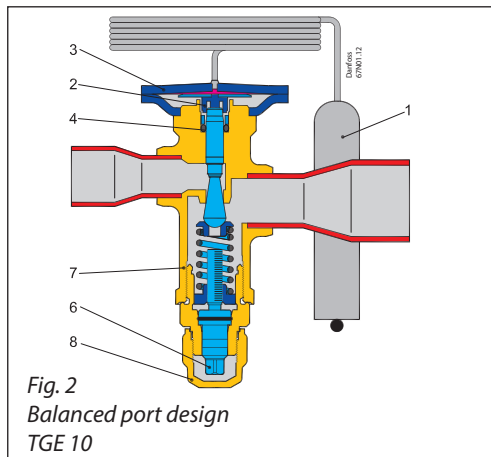
| Valve type | Orifice no. | Range N, K, MAH | | | | | | | | | | | | | |
|------------|-------------|-----------------|-------|--------|-------|------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | | R134a | | R407C | | R404A/R507 | | R22 | | R290 | | R410A | | R32 | |
| | | kW | TR | kW | TR | kW | TR | kW | TR | kW | TR | kW | TR | kW | TR |
| TGE 10 | 3 | 6.12 | 1.74 | 9.63 | 2.74 | 7.01 | 1.99 | 10.40 | 2.96 | 10.40 | 2.94 | 12.30 | 3.48 | 18.10 | 5.13 |
| | 4 | 8.36 | 2.38 | 13.00 | 3.71 | 9.51 | 2.70 | 14.10 | 4.01 | 14.10 | 4.00 | 16.60 | 4.72 | 24.50 | 6.95 |
| | 6 | 12.50 | 3.54 | 19.10 | 5.44 | 14.00 | 3.97 | 20.70 | 5.87 | 20.80 | 5.90 | 24.30 | 6.90 | 35.70 | 10.20 |
| | 8 | 16.90 | 4.79 | 25.50 | 7.25 | 18.60 | 5.29 | 27.40 | 7.78 | 27.70 | 7.86 | 32.10 | 9.13 | 47.30 | 13.40 |
| | 9 | 19.90 | 5.64 | 30.60 | 8.70 | 21.60 | 6.14 | 32.60 | 9.25 | 32.60 | 9.28 | 37.30 | 10.60 | 55.00 | 15.60 |
| TGE 20 | 11 | 24.50 | 6.96 | 37.10 | 10.50 | 26.60 | 7.56 | 38.80 | 11.00 | 39.20 | 11.10 | 45.90 | 13.00 | 68.00 | 19.20 |
| | 12.5 | 29.70 | 8.44 | 42.90 | 12.20 | 31.60 | 9.00 | 43.50 | 12.40 | 43.90 | 12.50 | 55.00 | 15.70 | 81.00 | 23.10 |
| | 16 | 37.60 | 10.70 | 54.00 | 15.30 | 39.90 | 11.40 | 55.00 | 15.60 | 56.00 | 15.80 | 69.00 | 19.70 | 102.00 | 29.10 |
| | 20 | 44.60 | 12.70 | 64.00 | 18.10 | 46.80 | 13.30 | 65.00 | 18.40 | 66.00 | 18.60 | 81.00 | 23.10 | 120.00 | 34.00 |
| TGE 40 | 21 | 52.00 | 14.70 | 77.00 | 22.00 | 53.00 | 15.10 | 75.00 | 21.30 | 75.00 | 21.30 | 91.00 | 26.00 | 135.00 | 38.30 |
| | 26 | 62.00 | 17.60 | 86.00 | 24.50 | 64.00 | 18.20 | 94.00 | 26.80 | 96.00 | 27.20 | 112.00 | 32.00 | 165.00 | 47.10 |
| | 30 | 71.00 | 20.10 | 98.00 | 27.80 | 72.00 | 20.60 | 107.00 | 30.40 | 109.00 | 30.90 | 127.00 | 36.20 | 187.00 | 53.00 |
| | 40 | 87.00 | 24.80 | 125.00 | 35.50 | 94.00 | 26.60 | 136.00 | 38.80 | 137.00 | 39.00 | 160.00 | 45.60 | 236.00 | 67.00 |
| | 42 | 101.00 | 28.70 | 150.00 | 42.50 | 106.00 | 30.30 | 155.00 | 44.00 | 154.00 | 43.70 | 185.00 | 53.00 | 273.00 | 78.00 |

*Nominal capacity according to ARI standard

| Units / Conditions | t _{evap} | t _{cond} | Subcooling |
|--------------------|-------------------|-------------------|------------|
| SI [°C] | 4.4 | 38 | 1 |
| US [°F] | 40 | 100 | 1.8 |

Design and function

1. Bulb with capillary tube
2. Thrust pad
3. Thermostatic element
4. Push pin seal
5. Double balance port
6. Static superheat adjustment spindle
7. Valve body
8. Protective cap



The central push pin is fitted with a robust seal (4) that ensures maximum tightness for the life of the valve.

Static superheat (SS) can be adjusted by the setting spindle (6), see fig. 5. The standard superheat setting (SS) is 4K / 7.2 °F and adjustable for 0 - 8K / 0 → 14.4 °F.

SS = static superheat
OS = opening superheat
SH = SS + OS = total superheat

Example:

Static superheat SS = 4K / 7.2 °F (factory setting)

Opening superheat OS = 4K / 7.2 °F

The opening superheat is 4K, i.e. from the point the valve begins to open up to nominal capacity. Opening superheat is determined by the design and cannot be changed.

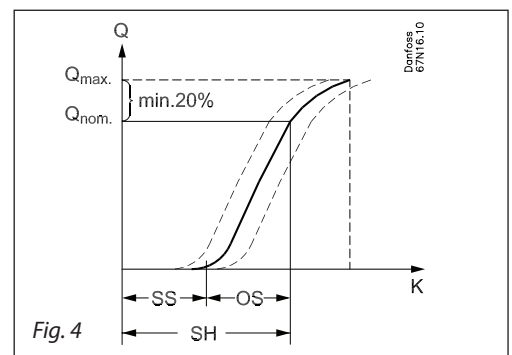
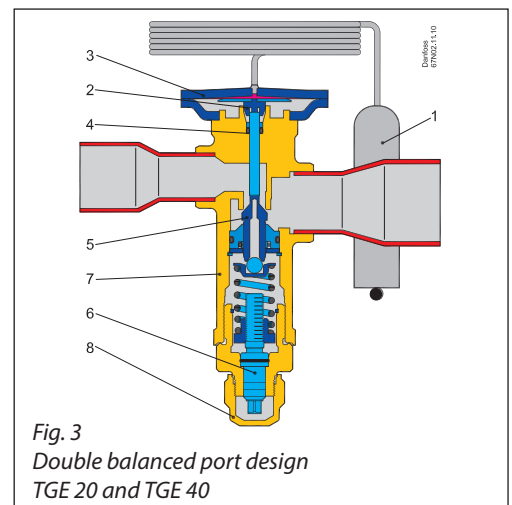
Total superheat SH = SS+OS

$$SH = 4+4 = 8K / 14.4 °F$$

Total superheat SH can be altered by changing SS (by using the setting spindle).

Balanced port design and advantage

The TGE series of thermostatic expansion valves have balanced port design. Balanced port design prevents changes in pressure drop across the valve from influencing



operation and provides excellent control on applications having widely varying operating conditions. Balanced port TXV's are recommended in refrigeration and air conditioning systems with any combinations of these conditions:

- 1) Widely varying head pressures
- 2) Widely varying evaporator loads
- 3) Widely varying pressure drop across the TXV
- 4) Fluctuating or extremely low liquid temperatures
- 5) Intermittent liquid line flash gas

Application

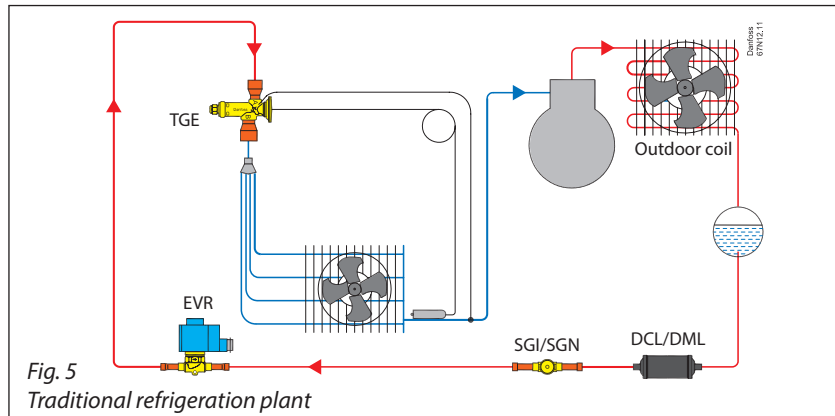


Fig. 2 A diagram of a traditional refrigeration plant where TGE is used for flow in one direction only.

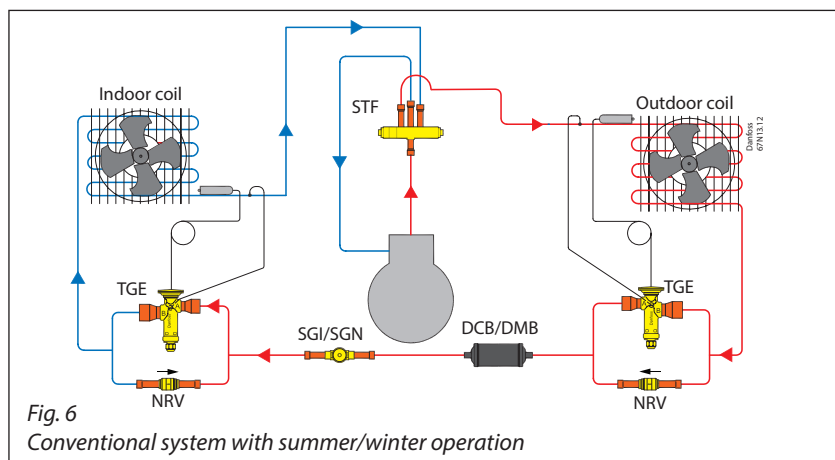


Fig. 3 A conventional split heat pump system shown in cooling mode. This system has two TGE thermostatic expansion valves with fixed direction flow. An NRV check valve is placed in series with each TGE to allow liquid refrigerant to bypass when flow is opposite the TXV fixed direction.

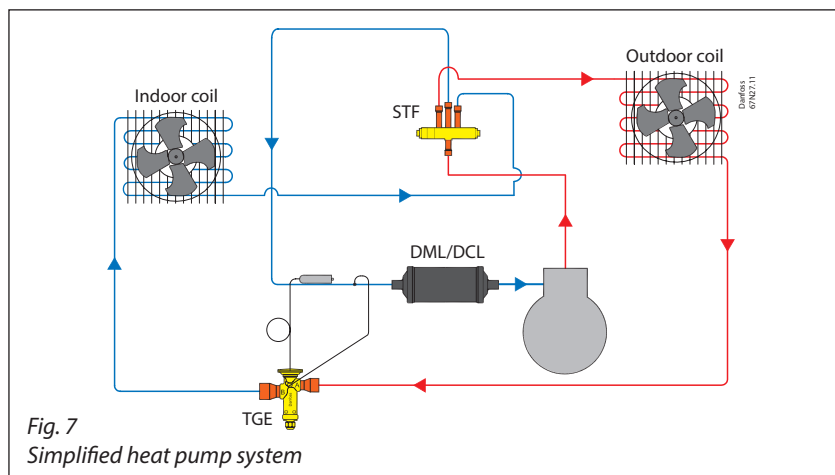


Fig. 4 A heat pump system similar to that in fig. 3 but with a more compact design, where the distance between evaporator and condenser is very short. This system has only one bi-flow TGE valve metering liquid refrigerant effectively in both directions. Changeover is by means of a 4-way valve. A suction filter drier is often placed in suction lines just before the compressor. The normal flow direction of TGE is determined by the primary function, i.e. cooling or heating.

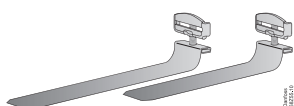
Ordering

The valve and bulb straps are supplied in multi packs or industrial packs. For industrial pack please contact Danfoss.

Multi pack, TGE 10 / 12 pcs
 Multi pack, TGE 20 / 8 pcs
 Multi pack, TGE 40 / 6 pcs

Industrial pack, TGE 10 / 12 pcs
 Industrial pack, TGE 20 / 8 pcs
 Industrial pack, TGE 40 / 8 pcs

Bulb straps (delivered separately) in Industrial pack

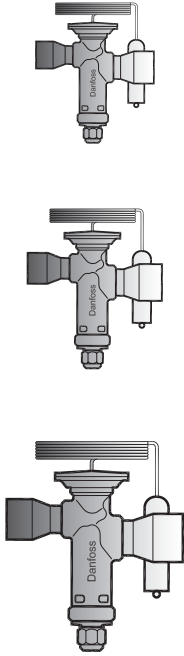


| Code no. | Length | Max. tube diameter | Quantity / pack |
|----------|--------|--------------------|-----------------|
| 067N0551 | 140 mm | 7/8 | 40 |
| 067N0557 | 225 mm | 2 1/8 | 40 |
| 067N0559 | 350 mm | 3 1/8 | 40 |

R22/R407C

Range N = -40 – +10 °C / -40 – 50 °F, OS = 4 K/7.2 °F

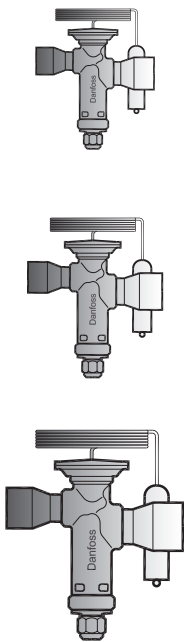
Ordering Standard range



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|-------------------------------------|-----|---|------------------------|--|------------------------|
| | | | | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF × ODF ¹⁾ mm | Code no. Multi pack |
| | | kW | TR | | | | |
| TGEX 10 | 3 | 10 | 3 | $\frac{3}{8} \times \frac{5}{8}$ | 067N2150 | 10 × 16 | 067N2190 |
| TGEX 10 | 3 | 10 | 3 | $\frac{1}{2} \times \frac{5}{8}$ | 067N2151 | 12 × 16 | 067N2191 |
| TGEX 10 | 4 | 14 | 4 | $\frac{1}{2} \times \frac{7}{8}$ | 067N2152 | 12 × 22 | 067N2192 |
| TGEX 10 | 6 | 20 | 6 | $\frac{1}{2} \times \frac{5}{8}$ | 067N2153 | 12 × 16 | 067N2193 |
| TGEX 10 | 6 | 20 | 6 | $\frac{1}{2} \times \frac{7}{8}$ | 067N2154 | 12 × 22 | 067N2194 |
| TGEX 10 | 6 | 20 | 6 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2155 | 16 × 22 | 067N2195 |
| TGEX 10 | 8 | 27 | 7.5 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2156 | 16 × 22 | 067N2196 |
| TGEX 10 | 11 | 38 | 11 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2157 | 16 × 22 | 067N2197 |
| TGEX 10 | 11 | 38 | 11 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N2158 | 16 × 28 | 067N2198 |
| TGEX 20 | 12.5 | 43 | 12 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2159 | 16 × 22 | 067N2199 |
| TGEX 20 | 12.5 | 43 | 12 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N2160 | 16 × 28 | 067N2200 |
| TGEX 20 | 16 | 54 | 15 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N2161 | 16 × 28 | 067N2201 |
| TGEX 20 | 16 | 54 | 15 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N2162 | 22 × 28 | 067N2202 |
| TGEX 20 | 20 | 63 | 18 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N2163 | 22 × 28 | 067N2203 |
| TGEX 20 | 20 | 63 | 18 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N2164 | 22 × 35 | 067N2204 |
| TGEX 40 | 26 | 92 | 26 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N2165 | 22 × 35 | 067N2205 |
| TGEX 40 | 26 | 92 | 26 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N2166 | 28 × 35 | 067N2206 |
| TGEX 40 | 30 | 104 | 30 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N2167 | 22 × 35 | 067N2207 |
| TGEX 40 | 30 | 104 | 30 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N2168 | 28 × 35 | 067N2208 |
| TGEX 40 | 40 | 134 | 38 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N2169 | 28 × 35 | 067N2209 |

Range K = -25 – +10 °C / -15 – +50 °F
with MOP 100 psig/6.9 bar abs, OS = 4 K/7.2 °F

R22/R407C



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|-------------------------------------|-----|---|------------------------|--|------------------------|
| | | | | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF × ODF ¹⁾ mm | Code no. Multi pack |
| | | kW | TR | | | | |
| TGEX 10 | 3 | 10 | 3 | $\frac{3}{8} \times \frac{5}{8}$ | 067N2000 | 10 × 16 | 067N2040 |
| TGEX 10 | 3 | 10 | 3 | $\frac{1}{2} \times \frac{5}{8}$ | 067N2001 | 12 × 16 | 067N2041 |
| TGEX 10 | 4 | 14 | 4 | $\frac{1}{2} \times \frac{7}{8}$ | 067N2002 | 12 × 22 | 067N2042 |
| TGEX 10 | 6 | 20 | 6 | $\frac{1}{2} \times \frac{5}{8}$ | 067N2003 | 12 × 16 | 067N2043 |
| TGEX 10 | 6 | 20 | 6 | $\frac{1}{2} \times \frac{7}{8}$ | 067N2004 | 12 × 22 | 067N2044 |
| TGEX 10 | 6 | 20 | 6 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2005 | 16 × 22 | 067N2045 |
| TGEX 10 | 8 | 27 | 7.5 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2006 | 16 × 22 | 067N2046 |
| TGEX 10 | 11 | 38 | 11 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2007 | 16 × 22 | 067N2047 |
| TGEX 10 | 11 | 38 | 11 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N2008 | 16 × 28 | 067N2048 |
| TGEX 20 | 12.5 | 43 | 12 | $\frac{5}{8} \times \frac{7}{8}$ | 067N2009 | 16 × 22 | 067N2049 |
| TGEX 20 | 12.5 | 43 | 12 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N2010 | 16 × 28 | 067N2050 |
| TGEX 20 | 16 | 54 | 15 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N2011 | 16 × 28 | 067N2051 |
| TGEX 20 | 16 | 54 | 15 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N2012 | 22 × 28 | 067N2052 |
| TGEX 20 | 20 | 63 | 18 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N2013 | 22 × 28 | 067N2053 |
| TGEX 20 | 20 | 63 | 18 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N2014 | 22 × 35 | 067N2054 |
| TGEX 40 | 26 | 92 | 26 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N2015 | 22 × 35 | 067N2055 |
| TGEX 40 | 26 | 92 | 26 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N2016 | 28 × 35 | 067N2056 |
| TGEX 40 | 30 | 104 | 30 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N2017 | 22 × 35 | 067N2057 |
| TGEX 40 | 30 | 104 | 30 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N2018 | 28 × 35 | 067N2058 |
| TGEX 40 | 40 | 134 | 38 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N2019 | 28 × 35 | 067N2059 |

¹⁾ Pressure equalisation = $\frac{1}{4}$ in (6 mm) ODF

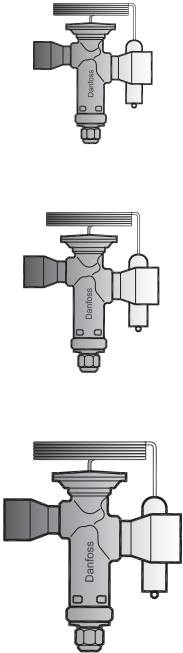
²⁾ The nominal capacity is based on: ARI standard

Evaporating temperature, $T_e = 4.4$ °C/40 °F
Liquid temperature, $T_l = 37$ °C/99 °F
Condensing temperature, $T_c = 38$ °C/100 °F
Opening superheat, OS = 4 K/7.2 °F

Ordering
Standard range (continued)

Range MAH = -30 – +15 °C / -22 – +60 °F
OS = 4 K/7.2 °F

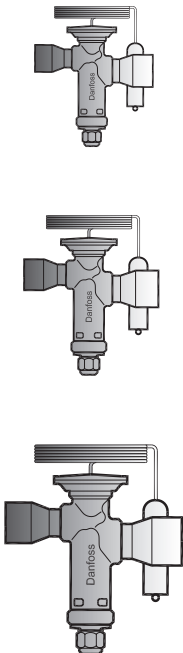
R22/R407C



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | |
|------------|-------------|-------------------------------------|------|---|---------------------|
| | | | | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack |
| | | kW | TR | | |
| TGEX 10 | 3 | 10 | 3 | $\frac{3}{8} \times \frac{5}{8}$ | 067N9400 |
| TGEX 10 | 3 | 10 | 3 | $\frac{1}{2} \times \frac{5}{8}$ | 067N9401 |
| TGEX 10 | 4 | 14 | 4 | $\frac{1}{2} \times \frac{7}{8}$ | 067N9402 |
| TGEX 10 | 4 | 14 | 4 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N9480 |
| TGEX 10 | 6 | 20 | 6 | $\frac{3}{8} \times \frac{5}{8}$ | 067N9481 |
| TGEX 10 | 6 | 20 | 6 | $\frac{1}{2} \times \frac{5}{8}$ | 067N9403 |
| TGEX 10 | 6 | 20 | 6 | $\frac{1}{2} \times \frac{7}{8}$ | 067N9404 |
| TGEX 10 | 6 | 20 | 6 | $\frac{5}{8} \times \frac{7}{8}$ | 067N9405 |
| TGEX 10 | 6 | 20 | 6 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N9482 |
| TGEX 10 | 8 | 27 | 7.50 | $\frac{5}{8} \times \frac{7}{8}$ | 067N9406 |
| TGEX 10 | 8 | 27 | 7.50 | $\frac{5}{8} \times \frac{7}{8}$ | 067N9483 |
| TGEX 10 | 11 | 38 | 11 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N9407 |
| TGEX 10 | 11 | 38 | 11 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N9408 |
| TGEX 20 | 12.5 | 43 | 12 | $\frac{5}{8} \times \frac{7}{8}$ | 067N9409 |
| TGEX 20 | 12.5 | 43 | 12 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N9410 |
| TGEX 20 | 16 | 54 | 15 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N9411 |
| TGEX 20 | 16 | 54 | 15 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N9412 |
| TGEX 20 | 20 | 63 | 18 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N9413 |
| TGEX 40 | 26 | 92 | 26 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N9415 |
| TGEX 40 | 30 | 104 | 30 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N9418 |
| TGEX 40 | 40 | 134 | 38 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N9419 |

Range K = -25 – +10 °C / -15 – +50 °F
with MOP 55 psig/5 bar abs, OS = 4 K/7.2 °F

R134a



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|-------------------------------------|-----|---|---------------------|--|---------------------|
| | | | | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF × ODF ¹⁾ mm | Code no. Multi pack |
| | | kW | TR | | | | |
| TGEN 10 | 3 | 6 | 1.5 | $\frac{3}{8} \times \frac{5}{8}$ | 067N5000 | 10 × 16 | 067N5040 |
| TGEN 10 | 3 | 6 | 1.5 | $\frac{1}{2} \times \frac{5}{8}$ | 067N5001 | 12 × 16 | 067N5041 |
| TGEN 10 | 4 | 8 | 2.5 | $\frac{1}{2} \times \frac{7}{8}$ | 067N5002 | 12 × 22 | 067N5042 |
| TGEN 10 | 6 | 12 | 3.5 | $\frac{1}{2} \times \frac{5}{8}$ | 067N5003 | 12 × 16 | 067N5043 |
| TGEN 10 | 6 | 12 | 3.5 | $\frac{1}{2} \times \frac{7}{8}$ | 067N5004 | 12 × 22 | 067N5044 |
| TGEN 10 | 6 | 12 | 3.5 | $\frac{5}{8} \times \frac{7}{8}$ | 067N5005 | 16 × 22 | - |
| TGEN 10 | 8 | 17 | 4.5 | $\frac{5}{8} \times \frac{7}{8}$ | 067N5006 | 16 × 22 | 067N5046 |
| TGEN 10 | 11 | 24 | 7 | $\frac{5}{8} \times \frac{7}{8}$ | 067N5007 | 16 × 22 | 067N5047 |
| TGEN 10 | 11 | 24 | 7 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N5008 | 16 × 28 | 067N5048 |
| TGEN 20 | 12.5 | 29 | 8 | $\frac{5}{8} \times \frac{7}{8}$ | 067N5009 | 16 × 22 | 067N5049 |
| TGEN 20 | 12.5 | 29 | 8 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N5010 | 16 × 28 | 067N5050 |
| TGEN 20 | 16 | 37 | 10 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N5011 | 16 × 28 | - |
| TGEN 20 | 16 | 37 | 10 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N5012 | 22 × 28 | - |
| TGEN 20 | 20 | 44 | 12 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N5013 | 22 × 28 | 067N5053 |
| TGEN 20 | 20 | 44 | 12 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N5014 | 22 × 35 | 067N5054 |
| TGEN 40 | 26 | 61 | 17 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N5015 | 22 × 35 | 067N5055 |
| TGEN 40 | 26 | 61 | 17 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N5016 | 28 × 35 | 067N5056 |
| TGEN 40 | 30 | 70 | 20 | $\frac{7}{8} \times 1 \frac{3}{8}$ | 067N5017 | 22 × 35 | 067N5057 |
| TGEN 40 | 30 | 70 | 20 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N5018 | 28 × 35 | 067N5058 |
| TGEN 40 | 40 | 87 | 25 | $1 \frac{1}{8} \times 1 \frac{3}{8}$ | 067N5019 | 28 × 35 | 067N5059 |

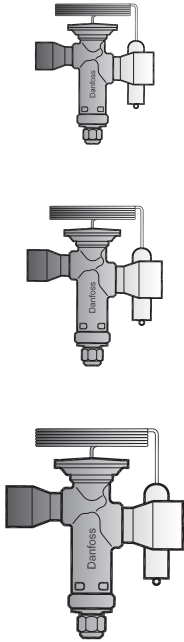
¹⁾ Pressure equalisation = $\frac{1}{4}$ in (6 mm) ODF
²⁾ The nominal capacity is based on: ARI standard

Evaporating temperature, $T_e = 4.4$ °C / 40 °F
Liquid temperature, $T_l = 37$ °C / 99 °F
Condensing temperature, $T_c = 38$ °C / 100 °F
Opening surperheat, OS = 4 K/7.2 °F

Ordering
Standard range (continued)

Range N = -40 – +10°C / -40 – 50 °F, OS = 4 K/7.2 °F

R134a

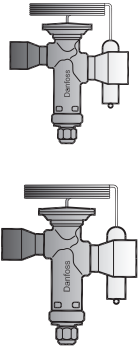


| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|-------------------------------------|-----|---|------------------------|--|------------------------|
| | | kW | TR | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF × ODF ¹⁾ mm | Code no. Multi pack |
| TGEN 10 | 3 | 6 | 1.5 | $3/8 \times 5/8$ | 067N5150 | 10 × 16 | 067N5190 |
| TGEN 10 | 3 | 6 | 1.5 | $1/2 \times 5/8$ | 067N5151 | 12 × 16 | 067N5191 |
| TGEN 10 | 4 | 8 | 2.5 | $1/2 \times 5/8$ | 067N5252 | - | - |
| TGEN 10 | 4 | 8 | 2.5 | $1/2 \times 7/8$ | 067N5152 | 12 × 22 | 067N5192 |
| TGEN 10 | 6 | 12 | 3.5 | $1/2 \times 5/8$ | 067N5153 | 12 × 16 | 067N5193 |
| TGEN 10 | 6 | 12 | 3.5 | $1/2 \times 7/8$ | 067N5154 | 12 × 22 | 067N5194 |
| TGEN 10 | 6 | 12 | 3.5 | $5/8 \times 7/8$ | 067N5155 | 16 × 22 | 067N5195 |
| TGEN 10 | 8 | 17 | 4.5 | $1/2 \times 5/8$ | 067N5253 | - | - |
| TGEN 10 | 8 | 17 | 4.5 | $5/8 \times 7/8$ | 067N5156 | 16 × 22 | 067N5196 |
| TGEN 10 | 11 | 24 | 7 | $5/8 \times 7/8$ | 067N5157 | 16 × 22 | 067N5197 |
| TGEN 10 | 11 | 24 | 7 | $5/8 \times 1 1/8$ | 067N5158 | 16 × 28 | 067N5198 |
| TGEN 20 | 12.5 | 29 | 8 | $5/8 \times 7/8$ | 067N5159 | 16 × 22 | - |
| TGEN 20 | 12.5 | 29 | 8 | $5/8 \times 1 1/8$ | 067N5160 | 16 × 28 | 067N5200 |
| TGEN 20 | 16 | 37 | 10 | $5/8 \times 1 1/8$ | 067N5161 | 16 × 28 | - |
| TGEN 20 | 16 | 37 | 10 | $7/8 \times 1 1/8$ | 067N5162 | 22 × 28 | 067N5202 |
| TGEN 20 | 20 | 44 | 12 | $7/8 \times 1 1/8$ | 067N5163 | 22 × 28 | 067N5203 |
| TGEN 20 | 20 | 44 | 12 | $7/8 \times 1 3/8$ | 067N5164 | 22 × 35 | 067N5204 |
| TGEN 40 | 26 | 61 | 17 | $7/8 \times 1 3/8$ | 067N5165 | 22 × 35 | 067N5205 |
| TGEN 40 | 26 | 61 | 17 | $1 1/8 \times 1 3/8$ | 067N5166 | 28 × 35 | 067N5206 |
| TGEN 40 | 26 | 61 | 17 | $1 1/8 \times 1 1/8$ | 067N5254 | - | - |
| TGEN 40 | 30 | 70 | 20 | $1 1/8 \times 1 1/8$ | 067N5255 | - | - |
| TGEN 40 | 30 | 70 | 20 | $7/8 \times 1 3/8$ | 067N5167 | 22 × 35 | 067N5207 |
| TGEN 40 | 30 | 70 | 20 | $1 1/8 \times 1 3/8$ | 067N5168 | 28 × 35 | 067N5208 |
| TGEN 40 | 40 | 87 | 25 | $1 1/8 \times 1 3/8$ | 067N5169 | 28 × 35 | 067N5209 |

Ordering
Standard range (continued)

Range N = -40 – +10 °C / -40 – 50 °F, OS = 4 K/7.2 °F

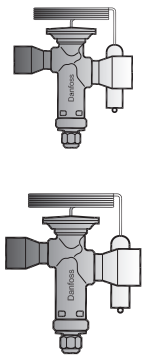
R134a



| Valve type | Orifice no. | Nominal capacity $Q_{nom. 2)}$ | | In. version | |
|------------|-------------|-----------------------------------|-----|-------------------------------------|------------------------|
| | | kW | TR | Connection Screw in. | Code no. Multi pack |
| TGEN 10 | 3 | 6 | 1.5 | $1/2 \times 5/8 \times 1/4$ MIO | 067N7150 |
| TGEN 10 | 4 | 8 | 2.5 | $1/2 \times 5/8 \times 1/4$ MIO | 067N7152 |
| TGEN 10 | 4 | 8 | 2.5 | $3/8 \times 1/2$ MIO $\times 1/4$ F | 067N7153 |
| TGEN 10 | 4 | 8 | 2.5 | $3/8 \times 1/2 \times 1/4$ Flare | 067N7154 |
| TGEN 10 | 6 | 12 | 3.5 | $1/2 \times 5/8 \times 1/4$ Flare | 067N7157 |
| TGEN 10 | 6 | 12 | 3.5 | $3/8 \times 1/2$ MIO $\times 1/4$ F | 067N7158 |
| TGEN 10 | 6 | 12 | 3.5 | $3/8 \times 1/2 \times 1/4$ Flare | 067N7160 |
| TGEN 10 | 8 | 17 | 4.5 | $1/2 \times 5/8 \times 1/4$ MIO | 067N7161 |
| TGEN 10 | 8 | 17 | 4.5 | $1/2 \times 5/8 \times 1/4$ Flare | 067N7163 |
| TGEN 10 | 8 | 17 | 4.5 | $3/8 \times 1/2$ MIO $\times 1/4$ F | 067N7164 |
| TGEN 10 | 8 | 17 | 4.5 | $5/8 \times 3/4 \times 1/4$ MIO | 067N7165 |
| TGEN 10 | 11 | 24 | 7 | $5/8 \times 3/4 \times 1/4$ MIO | 067N7166 |
| TGEN 20 | 12.5 | 29 | 8 | $5/8 \times 3/4 \times 1/4$ MIO | 067N7167 |
| TGEN 20 | 16 | 37 | 10 | $5/8 \times 3/4 \times 1/4$ Flare | 067N7168 |

Range K = -25 – +10 °C / -15 – +50 °F
with MOP 55 psig/5 bar abs, OS = 4 K/7.2 °F

R134a



| Valve type | Orifice no. | Nominal capacity $Q_{nom. 2)}$ | | Inch version | |
|------------|-------------|-----------------------------------|-----|-------------------------------------|------------------------|
| | | kW | TR | Connection Screw in. | Code no. Multi pack |
| TGEN 10 | 4 | 8 | 2.5 | $3/8 \times 1/2 \times 1/4$ F | 067N7000 |
| TGEN 10 | 6 | 12 | 3.5 | $3/8 \times 1/2 \times 1/4$ F | 067N7003 |
| TGEN 10 | 6 | 12 | 3.5 | $1/2 \times 5/8 \times 1/4$ F | 067N7004 |
| TGEN 10 | 8 | 17 | 4.5 | $1/2 \times 5/8 \times 1/4$ F | 067N7008 |
| TGEN 10 | 8 | 17 | 4.5 | $5/8 \times 3/4 \times 1/4$ F | 067N7013 |
| TGEN 10 | 11 | 24 | 7 | $5/8 \times 3/4 \times 1/4$ F | 067N7016 |
| TGEN 20 | 12.5 | 29 | 8 | $5/8 \times 3/4 \times 1/4$ F | 067N7018 |
| TGEN 20 | 16 | 37 | 10 | $5/8 \times 3/4 \times 1/4$ F | 067N7020 |
| TGEN 20 | 20 | 44 | 12 | $5/8 \times 3/4 \times 1/4$ F | 067N7021 |
| TGEN 10 | 4 | 8 | 2.5 | $1/2 \times 5/8 \times 1/4$ MIO | 067N7002 |
| TGEN 10 | 8 | 17 | 4.5 | $1/2 \times 5/8 \times 1/4$ MIO | 067N7010 |
| TGEN 10 | 6 | 12 | 3.5 | $1/2 \times 5/8$ MIO $\times 1/4$ F | 067N7006 |
| TGEN 10 | 8 | 17 | 4.5 | $5/8 \times 3/4 \times 1/4$ MIO | 067N7012 |
| TGEN 10 | 11 | 24 | 7 | $5/8 \times 3/4 \times 1/4$ MIO | 067N7015 |
| TGEN 20 | 12.5 | 29 | 8 | $5/8 \times 3/4 \times 1/4$ MIO | 067N7017 |
| TGEN 20 | 16 | 37 | 10 | $5/8 \times 3/4 \times 1/4$ MIO | 067N7019 |

¹⁾The nominal capacity is based on: ARI standard

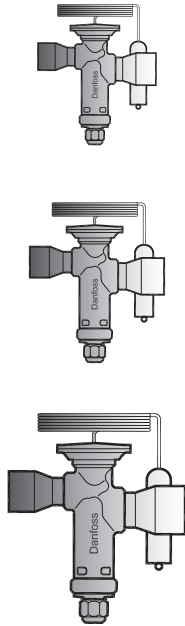
F: Flare
MIO: Male inserts O-ring
ORFS: O-ring face seal

Evaporating temperature, $T_e = 4.4$ °C/40 °F
Liquid temperature, $T_l = 37$ °C/99 °F
Condensing temperature, $T_c = 38$ °C/100 °F
Opening superheat, OS = 4 K/7.2 °F

Ordering
Standard range (continued)

Range N = -40 – +10 °C / -40 – 50 °F, OS = 4 K/7.2 °F

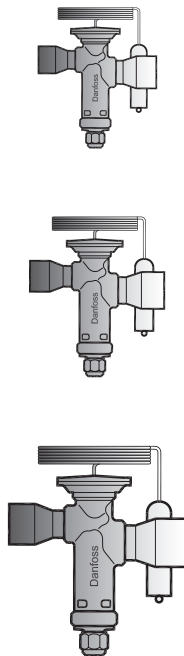
R407C



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|-------------------------------------|-----|---|------------------------|--|------------------------|
| | | | | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF × ODF ¹⁾ mm | Code no. Multi pack |
| | | kW | TR | | | | |
| TGEZ 10 | 3 | 9 | 2.5 | $\frac{3}{8} \times \frac{5}{8}$ | - | 10 × 16 | 067N4190 |
| TGEZ 10 | 3 | 9 | 2.5 | $\frac{1}{2} \times \frac{5}{8}$ | 067N4151 | 12 × 16 | 067N4191 |
| TGEZ 10 | 4 | 13 | 3.5 | $\frac{1}{2} \times \frac{7}{8}$ | 067N4152 | 12 × 22 | 067N4192 |
| TGEZ 10 | 6 | 19 | 5 | $\frac{1}{2} \times \frac{5}{8}$ | 067N4153 | 12 × 16 | 067N4193 |
| TGEZ 10 | 6 | 19 | 5 | $\frac{1}{2} \times \frac{7}{8}$ | 067N4154 | 12 × 22 | 067N4194 |
| TGEZ 10 | 6 | 19 | 5 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4155 | 16 × 22 | 067N4195 |
| TGEZ 10 | 8 | 25 | 7 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4156 | 16 × 22 | 067N4196 |
| TGEZ 10 | 11 | 36 | 10 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4157 | 16 × 22 | 067N4197 |
| TGEZ 10 | 11 | 36 | 10 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N4158 | 16 × 28 | 067N4198 |
| TGEZ 20 | 12.5 | 42 | 12 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4159 | 16 × 22 | 067N4199 |
| TGEZ 20 | 12.5 | 42 | 12 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N4160 | 16 × 28 | 067N4200 |
| TGEZ 20 | 16 | 53 | 15 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N4161 | 16 × 28 | 067N4201 |
| TGEZ 20 | 16 | 53 | 15 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N4162 | 22 × 28 | 067N4202 |
| TGEZ 20 | 20 | 62 | 18 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N4163 | 22 × 28 | 067N4203 |
| TGEZ 20 | 20 | 62 | 18 | $\frac{7}{8} \times \frac{3}{8}$ | 067N4164 | 22 × 35 | 067N4204 |
| TGEZ 40 | 26 | 84 | 24 | $\frac{7}{8} \times \frac{3}{8}$ | 067N4165 | 22 × 35 | - |
| TGEZ 40 | 26 | 84 | 24 | $1 \frac{1}{8} \times \frac{3}{8}$ | 067N4166 | 28 × 35 | 067N4206 |
| TGEZ 40 | 30 | 95 | 27 | $\frac{7}{8} \times \frac{3}{8}$ | 067N4167 | 22 × 35 | 067N4207 |
| TGEZ 40 | 30 | 95 | 27 | $1 \frac{1}{8} \times \frac{3}{8}$ | 067N4168 | 28 × 35 | 067N4208 |
| TGEZ 40 | 40 | 121 | 34 | $1 \frac{1}{8} \times \frac{3}{8}$ | 067N4169 | 28 × 35 | 067N4209 |

Range K = -25 – +10 °C / -15 – +50 °F
with MOP 95 psig/6.6 bar abs, OS = 4 K/7.2 °F

R407C



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|-------------------------------------|-----|---|------------------------|--|------------------------|
| | | | | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF × ODF ¹⁾ mm | Code no. Multi pack |
| | | kW | TR | | | | |
| TGEZ 10 | 3 | 9 | 2.5 | $\frac{3}{8} \times \frac{5}{8}$ | 067N4000 | 10 × 16 | 067N4040 |
| TGEZ 10 | 3 | 9 | 2.5 | $\frac{1}{2} \times \frac{5}{8}$ | - | 12 × 16 | 067N4041 |
| TGEZ 10 | 4 | 13 | 3.5 | $\frac{1}{2} \times \frac{7}{8}$ | 067N4002 | 12 × 22 | 067N4042 |
| TGEZ 10 | 6 | 19 | 5 | $\frac{1}{2} \times \frac{5}{8}$ | 067N4003 | 12 × 16 | 067N4043 |
| TGEZ 10 | 6 | 19 | 5 | $\frac{1}{2} \times \frac{7}{8}$ | 067N4004 | 12 × 22 | 067N4044 |
| TGEZ 10 | 6 | 19 | 5 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4005 | 16 × 22 | 067N4045 |
| TGEZ 10 | 8 | 25 | 7 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4006 | 16 × 22 | 067N4046 |
| TGEZ 10 | 11 | 36 | 10 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4007 | 16 × 22 | 067N4047 |
| TGEZ 10 | 11 | 36 | 10 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N4008 | 16 × 28 | 067N4048 |
| TGEZ 20 | 12.5 | 42 | 12 | $\frac{5}{8} \times \frac{7}{8}$ | 067N4009 | 16 × 22 | 067N4049 |
| TGEZ 20 | 12.5 | 42 | 12 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N4010 | 16 × 28 | |
| TGEZ 20 | 16 | 53 | 15 | $\frac{5}{8} \times 1 \frac{1}{8}$ | 067N4011 | 16 × 28 | 067N4051 |
| TGEZ 20 | 16 | 53 | 15 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N4012 | 22 × 28 | |
| TGEZ 20 | 20 | 62 | 18 | $\frac{7}{8} \times 1 \frac{1}{8}$ | 067N4013 | 22 × 28 | 067N4053 |
| TGEZ 20 | 20 | 62 | 18 | $\frac{7}{8} \times \frac{3}{8}$ | 067N4014 | 22 × 35 | 067N4054 |
| TGEZ 40 | 26 | 84 | 24 | $\frac{7}{8} \times \frac{3}{8}$ | 067N4015 | 22 × 35 | |
| TGEZ 40 | 26 | 84 | 24 | $1 \frac{1}{8} \times \frac{3}{8}$ | - | 28 × 35 | 067N4056 |
| TGEZ 40 | 30 | 95 | 27 | $\frac{7}{8} \times \frac{3}{8}$ | 067N4017 | 22 × 35 | - |
| TGEZ 40 | 30 | 95 | 27 | $1 \frac{1}{8} \times \frac{3}{8}$ | 067N4018 | 28 × 35 | 067N4058 |
| TGEZ 40 | 40 | 121 | 34 | $1 \frac{1}{8} \times \frac{3}{8}$ | 067N4019 | 28 × 35 | |

¹⁾ Pressure equalisation = $\frac{1}{4}$ in (6 mm) ODF

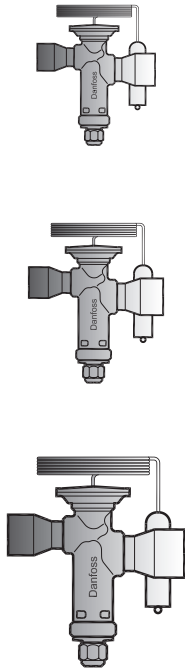
²⁾ The nominal capacity is based on: ARI standard

Evaporating temperature, $T_e = 4.4$ °C/40 °F
Liquid temperature, $T_l = 37$ °C/99 °F
Condensing temperature, $T_c = 38$ °C/100 °F
Opening surperheat, OS = 4 K/7.2 °F

Ordering
Standard range (continued)

Range MAH = -30 °C – +15 °C / -22 – +60 °F, OS = 4K/7.2 °F

R407C



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|-------------------------------------|-----|--------------------------------|---------------------|--|---------------------|
| | | | | Connections Solder ODFxODF in. | Code no. Multi pack | Connection Solder ODF x ODF ¹⁾ mm | Code no. Multi pack |
| | | kW | TR | | | | |
| TGEZ 10 | 3 | 9 | 2.5 | $3/8 \times 5/8$ | 067N9600 | 10 x 16 | 067N9640 |
| TGEZ 10 | 3 | 9 | 2.5 | $1/2 \times 5/8$ | 067N9601 | 12 x 16 | 067N9641 |
| TGEZ 10 | 4 | 13 | 3.5 | $1/2 \times 7/8$ | 067N9602 | 12 x 22 | 067N9642 |
| TGEZ 10 | 6 | 19 | 5 | $1/2 \times 5/8$ | 067N9603 | 12 x 16 | 067N9643 |
| TGEZ 10 | 6 | 19 | 5 | $1/2 \times 7/8$ | 067N9604 | 12 x 22 | 067N9644 |
| TGEZ 10 | 6 | 19 | 5 | $5/8 \times 7/8$ | 067N9605 | 16 x 22 | 067N9645 |
| TGEZ 10 | 8 | 25 | 7 | $5/8 \times 7/8$ | 067N9606 | 16 x 22 | 067N9646 |
| TGEZ 10 | 11 | 36 | 10 | $5/8 \times 7/8$ | 067N9607 | 16 x 22 | 067N9647 |
| TGEZ 10 | 11 | 36 | 10 | $5/8 \times 1 1/8$ | 067N9608 | 16 x 28 | 067N9648 |
| TGEZ 20 | 12.5 | 42 | 12 | $5/8 \times 7/8$ | 067N9609 | 16 x 22 | 067N9649 |
| TGEZ 20 | 12.5 | 42 | 12 | $5/8 \times 1 1/8$ | 067N9610 | 16 x 28 | 067N9650 |
| TGEZ 20 | 16 | 53 | 15 | $5/8 \times 1 1/8$ | 067N9611 | 16 x 28 | 067N9651 |
| TGEZ 20 | 16 | 53 | 15 | $7/8 \times 1 1/8$ | 067N9612 | 22 x 28 | 067N9652 |
| TGEZ 20 | 20 | 62 | 18 | $7/8 \times 1 1/8$ | 067N9613 | 22 x 28 | 067N9653 |
| TGEZ 20 | 20 | 62 | 18 | $7/8 \times 1 3/8$ | 067N9614 | 22 x 35 | 067N9654 |
| TGEZ 40 | 26 | 84 | 24 | $7/8 \times 1 3/8$ | 067N9615 | 22 x 35 | 067N9655 |
| TGEZ 40 | 26 | 84 | 24 | $1 1/8 \times 1 3/8$ | 067N9616 | 28 x 35 | 067N9656 |
| TGEZ 40 | 30 | 95 | 27 | $7/8 \times 1 3/8$ | 067N9617 | 22 x 35 | 067N9657 |
| TGEZ 40 | 30 | 95 | 27 | $1 1/8 \times 1 3/8$ | 067N9618 | 28 x 35 | 067N9658 |
| TGEZ 40 | 40 | 121 | 34 | $1 1/8 \times 1 3/8$ | 067N9619 | 28 x 35 | 067N9659 |

¹⁾ Pressure equalisation = 1/4 in (6 mm) ODF

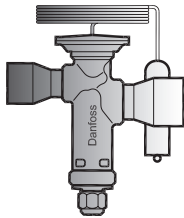
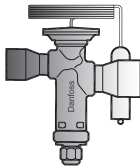
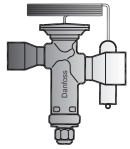
²⁾ The nominal capacity is based on: ARI standard

Evaporating temperature, $T_e = 4.4 \text{ °C} / 40 \text{ °F}$
 Liquid temperature, $T_l = 37 \text{ °C} / 99 \text{ °F}$
 Condensing temperature, $T_c = 38 \text{ °C} / 100 \text{ °F}$
 Opening surperheat, OS = 4 K/7.2 °F

Ordering
Standard range (continued)

! Only solder versions, connection size $\leq 22\text{mm} / 7/8\text{ in.}$ are approved for flammable refrigerants.
Range N = $-40 - +10\text{ }^\circ\text{C} / -40 - 50\text{ }^\circ\text{F}$, OS = 4 K/7.2 °F

R410A/R32



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | | | Inch version | | mm version | |
|------------|-------------|----------------------------------|-----|-----|----|---|---------------------|--|---------------------|
| | | R410A | | R32 | | Connection Solder ODF x ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF x ODF ¹⁾ mm | Code no. Multi pack |
| | | kW | TR | kW | TR | | | | |
| TGEL 10 | 3 | 12 | 3.5 | 18 | 5 | $3/8 \times 5/8$ | 067N3150 | 10 x 16 | 067N3190 |
| TGEL 10 | 3 | 12 | 3.5 | 18 | 5 | $1/2 \times 5/8$ | 067N3151 | 12 x 16 | 067N3191 |
| TGEL 10 | 4 | 16 | 4.5 | 24 | 7 | $1/2 \times 7/8$ | 067N3152 | 12 x 22 | 067N3192 |
| TGEL 10 | 6 | 24 | 6.5 | 35 | 10 | $1/2 \times 5/8$ | 067N3153 | 12 x 16 | 067N3193 |
| TGEL 10 | 6 | 24 | 6.5 | 35 | 10 | $1/2 \times 7/8$ | 067N3154 | 12 x 22 | 067N3194 |
| TGEL 10 | 6 | 24 | 6.5 | 35 | 10 | $5/8 \times 7/8$ | 067N3155 | 16 x 22 | 067N3195 |
| TGEL 10 | 8 | 32 | 9 | 47 | 13 | $5/8 \times 7/8$ | 067N3156 | 16 x 22 | 067N3196 |
| TGEL 10 | 11 | 45 | 13 | 68 | 19 | $5/8 \times 7/8$ | 067N3157 | 16 x 22 | 067N3197 |
| TGEL 20 | 12.5 | 54 | 15 | 81 | 23 | $5/8 \times 7/8$ | 067N3159 | 16 x 22 | 067N3199 |

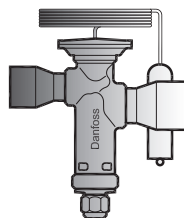
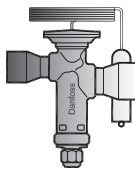
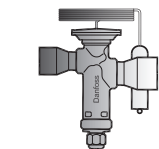
R410A

Range N = $-40 - +10\text{ }^\circ\text{C} / -40 - 50\text{ }^\circ\text{F}$, OS = 4 K/7.2 °F

| | | | | | | | | | |
|---------|------|-----|----|--|--|------------------------|----------|---------|----------|
| TGEL 10 | 11 | 45 | 13 | | | $5/8 \times 1\ 1/8$ | 067N3158 | 16 x 28 | 067N3198 |
| TGEL 20 | 12.5 | 54 | 15 | | | $5/8 \times 1\ 1/8$ | 067N3160 | 16 x 28 | 067N3200 |
| TGEL 20 | 16 | 68 | 19 | | | $5/8 \times 1\ 1/8$ | 067N3161 | 16 x 28 | 067N3201 |
| TGEL 20 | 16 | 68 | 19 | | | $7/8 \times 1\ 1/8$ | 067N3162 | 22 x 28 | 067N3202 |
| TGEL 20 | 20 | 79 | 23 | | | $7/8 \times 1\ 1/8$ | 067N3163 | 22 x 28 | 067N3203 |
| TGEL 20 | 20 | 79 | 23 | | | $7/8 \times 1\ 3/8$ | 067N3164 | 22 x 35 | 067N3204 |
| TGEL 40 | 26 | 110 | 31 | | | $7/8 \times 1\ 3/8$ | 067N3165 | 22 x 35 | 067N3205 |
| TGEL 40 | 26 | 110 | 31 | | | $1\ 1/8 \times 1\ 3/8$ | 067N3166 | 28 x 35 | - |
| TGEL 40 | 30 | 125 | 35 | | | $7/8 \times 1\ 3/8$ | - | 22 x 35 | 067N3207 |
| TGEL 40 | 30 | 125 | 35 | | | $1\ 1/8 \times 1\ 3/8$ | 067N3168 | 28 x 35 | - |
| TGEL 40 | 40 | 161 | 46 | | | $1\ 1/8 \times 1\ 3/8$ | 067N3169 | 28 x 35 | 067N3209 |

Range K = $-25 - +10\text{ }^\circ\text{C} / -15 - +50\text{ }^\circ\text{F}$
with MOP 165 psig/11.5 bar abs, OS = 4 K/7.2 °F

R410A



| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | | mm version | |
|------------|-------------|----------------------------------|-----|---|---------------------|--|---------------------|
| | | kW | TR | Connection Solder ODF x ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF x ODF ¹⁾ mm | Code no. Multi pack |
| TGEL 10 | 3 | 12 | 3.5 | $3/8 \times 5/8$ | 067N3000 | 10 x 16 | 067N3040 |
| TGEL 10 | 3 | 12 | 3.5 | $1/2 \times 5/8$ | 067N3001 | 12 x 16 | 067N3041 |
| TGEL 10 | 4 | 16 | 4.5 | $1/2 \times 7/8$ | 067N3002 | 12 x 22 | 067N3042 |
| TGEL 10 | 6 | 24 | 6.5 | $1/2 \times 5/8$ | 067N3003 | 12 x 16 | 067N3043 |
| TGEL 10 | 6 | 24 | 6.5 | $1/2 \times 7/8$ | 067N3004 | 12 x 22 | 067N3044 |
| TGEL 10 | 6 | 24 | 6.5 | $5/8 \times 7/8$ | 067N3005 | 16 x 22 | 067N3045 |
| TGEL 10 | 8 | 32 | 9 | $5/8 \times 7/8$ | 067N3006 | 16 x 22 | - |
| TGEL 10 | 11 | 45 | 13 | $5/8 \times 7/8$ | 067N3007 | 16 x 22 | - |
| TGEL 10 | 11 | 45 | 13 | $5/8 \times 1\ 1/8$ | 067N3008 | 16 x 28 | 067N3048 |
| TGEL 20 | 12.5 | 54 | 15 | $5/8 \times 7/8$ | 067N3009 | 16 x 22 | 067N3049 |
| TGEL 20 | 12.5 | 54 | 15 | $5/8 \times 1\ 1/8$ | 067N3010 | 16 x 28 | 067N3050 |
| TGEL 20 | 16 | 68 | 19 | $5/8 \times 1\ 1/8$ | 067N3011 | 16 x 28 | 067N3051 |
| TGEL 20 | 16 | 68 | 19 | $7/8 \times 1\ 1/8$ | 067N3012 | 22 x 28 | 067N3052 |
| TGEL 20 | 20 | 79 | 23 | $7/8 \times 1\ 1/8$ | 067N3013 | 22 x 28 | 067N3053 |
| TGEL 20 | 20 | 79 | 23 | $7/8 \times 1\ 3/8$ | 067N3014 | 22 x 35 | 067N3054 |
| TGEL 40 | 26 | 110 | 31 | $7/8 \times 1\ 3/8$ | 067N3015 | 22 x 35 | 067N3055 |
| TGEL 40 | 26 | 110 | 31 | $1\ 1/8 \times 1\ 3/8$ | 067N3016 | 28 x 35 | 067N3056 |
| TGEL 40 | 30 | 125 | 35 | $7/8 \times 1\ 3/8$ | 067N3017 | 22 x 35 | 067N3057 |
| TGEL 40 | 30 | 125 | 35 | $1\ 1/8 \times 1\ 3/8$ | 067N3018 | 28 x 35 | - |
| TGEL 40 | 40 | 161 | 46 | $1\ 1/8 \times 1\ 3/8$ | 067N3019 | 28 x 35 | 067N3059 |

¹⁾ Pressure equalisation = $1/4\text{ in.}$ (6 mm) ODF

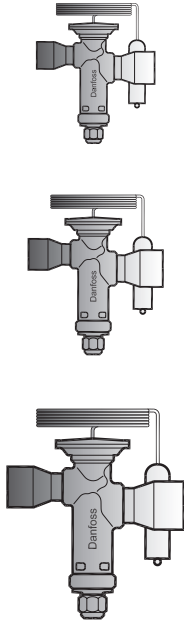
²⁾ The nominal capacity is based on: ARI standard

Evaporating temperature, $T_e = 4.4\text{ }^\circ\text{C} / 40\text{ }^\circ\text{F}$
Liquid temperature, $T_l = 37\text{ }^\circ\text{C} / 99\text{ }^\circ\text{F}$
Condensing temperature, $T_c = 38\text{ }^\circ\text{C} / 100\text{ }^\circ\text{F}$
Opening surperheat, OS = 4 K/7.2 °F

Ordering
Standard range (continued)

Range MAH = -30 – +15 °C / -22 – +60 °F, OS = 4K/7.2 °F

R410A



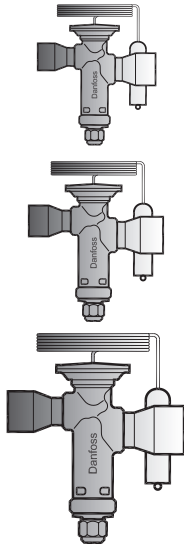
| Valve type | Orifice no. | Nominal capacity Q _{nom.} ²⁾ | | Inch version | | mm version | |
|------------|-------------|---|-----|--|------------------------|--|------------------------|
| | | | | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack |
| | | kW | TR | | | | |
| TGEL 10 | 3 | 12 | 3.5 | 3/8 × 5/8 | 067N9205 | 10 × 16 | 067N9245 |
| TGEL 10 | 3 | 12 | 3.5 | 1/2 × 5/8 | 067N9201 | 12 × 16 | 067N9241 |
| TGEL 10 | 4 | 16 | 4.5 | 1/2 × 7/8 | 067N9202 | 12 × 22 | 067N9242 |
| TGEL 10 | 6 | 24 | 6.5 | 1/2 × 5/8 | 067N9203 | 12 × 16 | 067N9243 |
| TGEL 10 | 6 | 24 | 6.5 | 1/2 × 7/8 | 067N9204 | 12 × 22 | 067N9244 |
| TGEL 10 | 6 | 24 | 6.5 | 5/8 × 7/8 | 067N9200 | 16 × 22 | 067N9240 |
| TGEL 10 | 8 | 32 | 9 | 5/8 × 7/8 | 067N9206 | 16 × 22 | 067N9246 |
| TGEL 10 | 9 | 37 | 11 | 5/8 × 7/8 | 067N9287 | - | - |
| TGEL 10 | 11 | 45 | 13 | 5/8 × 7/8 | 067N9207 | 16 × 22 | 067N9247 |
| TGEL 10 | 11 | 45 | 13 | 5/8 × 1 1/8 | 067N9208 | 16 × 28 | 067N9248 |
| TGEL 20 | 12.5 | 54 | 15 | 5/8 × 7/8 | 067N9209 | 16 × 22 | 067N9249 |
| TGEL 20 | 12.5 | 54 | 15 | 7/8 × 7/8 | 067N9282 | - | - |
| TGEL 20 | 12.5 | 54 | 15 | 7/8 × 1 1/8 | 067N9283 | - | - |
| TGEL 20 | 12.5 | 54 | 15 | 5/8 × 1 1/8 | 067N9210 | 16 × 28 | 067N9250 |
| TGEL 20 | 16 | 68 | 19 | 5/8 × 1 1/8 | 067N9211 | 16 × 28 | 067N9251 |
| TGEL 20 | 16 | 68 | 19 | 7/8 × 1 1/8 | 067N9212 | 22 × 28 | 067N9252 |
| TGEL 20 | 20 | 79 | 23 | 7/8 × 1 1/8 | 067N9213 | 22 × 28 | 067N9253 |
| TGEL 20 | 20 | 79 | 23 | 1 1/8 × 1 1/8 | 067N9284 | - | - |
| TGEL 20 | 20 | 79 | 23 | 7/8 × 1 3/8 | 067N9214 | 22 × 35 | 067N9254 |
| TGEL 20 | 21 | 91 | 26 | 7/8 × 1 1/8 | 067N9288 ³⁾ | - | - |
| TGEL 40 | 26 | 110 | 31 | 7/8 × 1 3/8 | 067N9215 | 22 × 35 | 067N9255 |
| TGEL 40 | 26 | 110 | 31 | 7/8 × 1 1/8 | 067N9285 | - | - |
| TGEL 40 | 26 | 110 | 31 | 1 1/8 × 1 3/8 | 067N9216 | 28 × 35 | 067N9256 |
| TGEL 40 | 30 | 125 | 35 | 7/8 × 1 3/8 | 067N9217 | 22 × 35 | 067N9257 |
| TGEL 40 | 30 | 125 | 35 | 1 1/8 × 1 3/8 | 067N9218 | 28 × 35 | 067N9258 |
| TGEL 40 | 40 | 161 | 46 | 1 1/8 × 1 3/8 | 067N9219 | 28 × 35 | 067N9259 |
| TGEL 40 | 42 | 182 | 52 | 1 1/8 × 1 3/8 | 067N9289 | - | - |

¹⁾ Pressure equalisation = 1/4 in (6 mm) ODF

²⁾ The nominal capacity is based on: ARI standard

³⁾ Contact Danfoss for more information

Evaporating temperature, T_e = 4.4 °C/40 °F
Liquid temperature, T_l = 37 °C/99 °F
Condensing temperature, T_c = 38 °C/100 °F
Opening superheat, OS = 4 K/7.2 °F



R404A/R507

Range N = -40 – +10 °C/-40 –50 °F, OS = 4K/7.2 °F

| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | |
|------------|-------------|-------------------------------------|------|---|------------------------|
| | | kW | TR | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack |
| TGES 10 | 6 | 14 | 4 | $1/2 \times 7/8$ | 067N6151 |
| TGES 10 | 8 | 18 | 5 | $1/2 \times 7/8$ | 067N6166 |
| TGES 10 | 8 | 18 | 5 | $5/8 \times 7/8$ | 067N6150 |
| TGES 10 | 11 | 26 | 7.50 | $5/8 \times 7/8$ | 067N6154 |
| TGES 20 | 12.5 | 31 | 9 | $5/8 \times 7/8$ | 067N6158 |
| TGES 20 | 16 | 39 | 11 | $1 1/8 \times 1 3/8$ | 067N6188 |
| TGES 20 | 16 | 39 | 11 | $5/8 \times 1 1/8$ | 067N6155 |
| TGES 20 | 16 | 39 | 11 | $7/8 \times 1 1/8$ | 067N6181 |
| TGES 20 | 20 | 45 | 13 | $7/8 \times 1 1/8$ | 067N6162 |
| TGES 40 | 30 | 72 | 21 | $1 1/8 \times 1 3/8$ | 067N6186 |

Only solder versions, connection size $\leq 22\text{mm} / 7/8 \text{ in.}$ are approved for flammable refrigerants.

Range N = -40 – +10 °C/-40 –50 °F, OS = 4K/7.2 °F

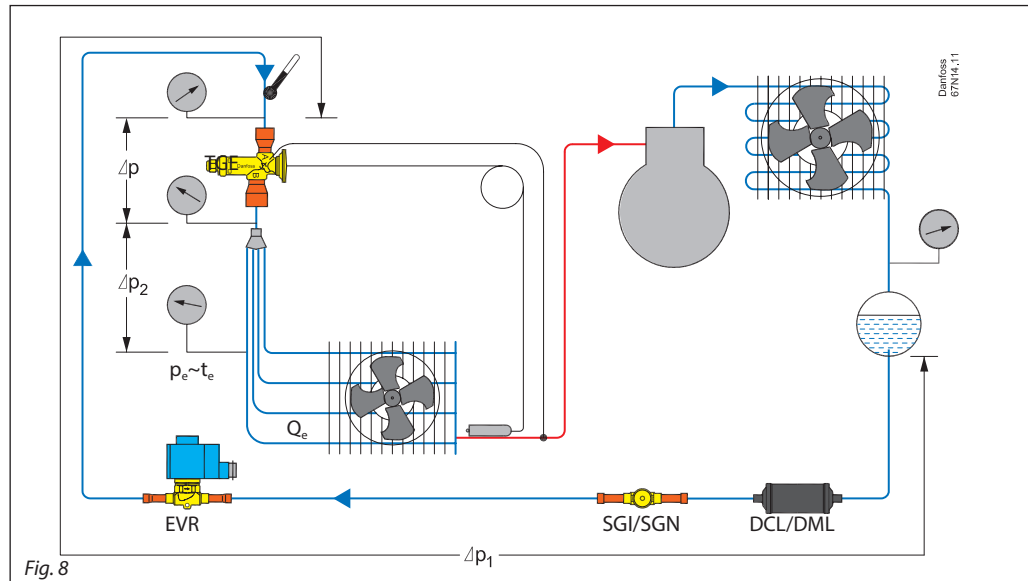
R290

| Valve type | Orifice no. | Nominal capacity $Q_{nom.}^{2)}$ | | Inch version | |
|------------|-------------|-------------------------------------|----|---|------------------------|
| | | kW | TR | Connection Solder ODF × ODF ¹⁾ in. | Code no. Multi pack |
| TGE 10 | 6 | 19 | 5 | $5/8 \times 7/8$ | 067N9100 |
| TGE 10 | 8 | 25 | 7 | $5/8 \times 7/8$ | 067N9101 |
| TGE 10 | 11 | 36 | 10 | $5/8 \times 7/8$ | 067N9103 |
| TGE 20 | 12.5 | 44 | 12 | $5/8 \times 7/8$ | 067N9104 |
| TGE 20 | 20 | 63 | 18 | $7/8 \times 7/8$ | 067N9106 |
| TGE 40 | 30 | 106 | 30 | $7/8 \times 7/8$ | 067N9108 |

¹⁾ Pressure equalisation = $1/4 \text{ in (6 mm)}$ ODF
²⁾ The nominal capacity is based on: ARI standard
³⁾ Contact Danfoss for more information

Evaporating temperature, $T_e = 4.4 \text{ °C}/40 \text{ °F}$
 Liquid temperature, $T_l = 37 \text{ °C}/99 \text{ °F}$
 Condensing temperature, $T_c = 38 \text{ °C}/100 \text{ °F}$
 Opening surperheat, OS = $4 \text{ K}/7.2 \text{ °F}$

Sizing



Sizing examples (SI and US)

Refrigerant:
Evaporator capacity:
Evaporator with several circuits, i.e. a valve with distributor is required
Evaporating temperature:

R410A
 $Q_e = 30 \text{ kW} / 8.6 \text{ TR}$

Condensing temperature:

$t_e = 0^\circ\text{C} / 32^\circ\text{F}$
 $p_e = 8 \text{ bar} / 116 \text{ psi}$
 $t_c = +36^\circ\text{C} / 96.8^\circ\text{F}$
 $p_c = 22 \text{ bar} / 319 \text{ psi}$

Refrigerant liquid temperature:
Subcooling:

$t_1 = +26^\circ\text{C} / 78.8^\circ\text{F}$
 $\Delta t_{\text{sub}} = 36 - 26 = 10 \text{ K} / 96.8^\circ\text{F} - 78.8^\circ\text{F} = 18^\circ\text{F}$

Pressure drop Δp_2 in the liquid distributor can also be assumed as 1.0 bar / 14.5 psi.

The correction factor at $\Delta t_{\text{sub}} (f_{\text{sub}}) = 10 \text{ K} / 18^\circ\text{F}$ is 1.07.
The correction factor at distributor (fp) = 0.96.
The corrected evaporator capacity thus 30 kW/ 8.6 TR divided by 1.07 and 0.96 = 19.2 kW / 8.4 TR.

Since the capacity of the expansion valve must be equal to or slightly higher than the corrected evaporator capacity of 19.2 kW / 8.4 TR, a TGE 10 orifice 08 giving 32 kW/ 9.1 TR would be a suitable choice (See tables below).

R410A

Capacity in kW. Range N: -40 °C to +10 °C. Range K: -25 °C to +10 °C. Opening superheat sh= 4 K

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 35 | 5.47 | 6.26 | 7.09 | 7.95 | 8.84 | 9.73 | 10.60 | 11.40 | 12.10 | 12.60 | 12.80 | 12.70 | TGE 10 | 3 |
| | 7.33 | 8.40 | 9.52 | 10.70 | 11.90 | 13.10 | 14.30 | 15.50 | 16.40 | 17.10 | 17.40 | 17.20 | TGE 10 | 4 |
| | 10.70 | 12.30 | 13.90 | 15.60 | 17.40 | 19.20 | 21.00 | 22.70 | 24.10 | 25.10 | 25.50 | 25.20 | TGE 10 | 6 |
| | 14.40 | 16.50 | 18.70 | 21.00 | 23.40 | 25.70 | 28.10 | 30.20 | 32.00 | 33.20 | 33.60 | 33.00 | TGE 10 | 8 |
| | 16.50 | 18.90 | 21.50 | 24.30 | 27.20 | 30.00 | 32.80 | 35.20 | 37.20 | 38.60 | 39.30 | 39.00 | TGE 10 | 9 |
| | 21.40 | 24.70 | 28.20 | 31.80 | 35.30 | 38.70 | 41.80 | 44.30 | 46.10 | 46.90 | 46.40 | 44.40 | TGE 10 | 11 |
| | 21.30 | 24.80 | 28.50 | 32.50 | 36.80 | 41.30 | 45.90 | 50.00 | 54.00 | 58.00 | 59.00 | 59.00 | TGE 20 | 12.5 |
| | 26.40 | 30.70 | 35.30 | 40.40 | 45.80 | 52.00 | 57.00 | 63.00 | 68.00 | 73.00 | 75.00 | 76.00 | TGE 20 | 16 |
| | 32.40 | 37.60 | 43.10 | 49.00 | 55.00 | 62.00 | 68.00 | 75.00 | 80.00 | 85.00 | 87.00 | 87.00 | TGE 20 | 20 |
| | 44.80 | 52.00 | 59.00 | 66.00 | 73.00 | 80.00 | 85.00 | 90.00 | 93.00 | 94.00 | 93.00 | 90.00 | TGE 20 | 21 |
| | 41.50 | 48.10 | 55.00 | 63.00 | 72.00 | 81.00 | 91.00 | 101.00 | 110.00 | 119.00 | 124.00 | 126.00 | TGE 40 | 26 |
| | 47.00 | 55.00 | 63.00 | 72.00 | 82.00 | 92.00 | 104.00 | 115.00 | 125.00 | 134.00 | 140.00 | 142.00 | TGE 40 | 30 |
| | 57.00 | 67.00 | 77.00 | 89.00 | 102.00 | 116.00 | 130.00 | 144.00 | 157.00 | 168.00 | 175.00 | 177.00 | TGE 40 | 40 |
| | 90.00 | 103.00 | 116.00 | 129.00 | 143.00 | 156.00 | 168.00 | 179.00 | 186.00 | 190.00 | 189.00 | 184.00 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.98 | 1.00 | 1.07 | 1.13 | 1.19 | 1.25 | 1.31 | 1.37 | 1.42 | 1.48 | 1.54 |

Distributor correction factor*

| Evaporating temp. [°C] | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.96 | 0.96 | 0.96 | 0.95 | 0.94 |
| | 15 | 0.96 | 0.96 | 0.96 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.93 | 0.93 | 0.91 |
| | 2 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.88 |

*calculated at 32 °C condensing temperature

Capacity in kW. Range N: -40 °C to +10 °C. Opening superheat sh= 4 K

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 25 | 4.39 | 5.03 | 5.68 | 6.36 | 7.02 | 7.65 | 8.22 | 8.68 | 8.97 | 9.01 | 8.70 | 7.90 | TGE 10 | 3 |
| | 5.94 | 6.80 | 7.70 | 8.62 | 9.54 | 10.40 | 11.20 | 11.80 | 12.20 | 12.30 | 11.90 | 10.80 | TGE 10 | 4 |
| | 8.76 | 10.10 | 11.40 | 12.80 | 14.10 | 15.40 | 16.60 | 17.50 | 18.10 | 18.20 | 17.50 | 15.90 | TGE 10 | 6 |
| | 11.90 | 13.60 | 15.50 | 17.30 | 19.10 | 20.80 | 22.30 | 23.50 | 24.20 | 24.20 | 23.20 | 20.90 | TGE 10 | 8 |
| | 13.90 | 16.00 | 18.10 | 20.30 | 22.50 | 24.50 | 26.40 | 27.90 | 28.80 | 28.80 | 27.70 | 25.00 | TGE 10 | 9 |
| | 17.70 | 20.40 | 23.10 | 25.80 | 28.40 | 30.60 | 32.40 | 33.50 | 33.80 | 33.00 | 31.10 | 27.70 | TGE 10 | 11 |
| | 16.50 | 19.10 | 21.90 | 24.90 | 28.00 | 31.10 | 34.10 | 36.70 | 38.70 | 39.50 | 38.80 | 36.00 | TGE 20 | 12.5 |
| | 20.70 | 24.00 | 27.50 | 31.30 | 35.30 | 39.30 | 43.20 | 46.60 | 49.20 | 50.00 | 49.80 | 46.20 | TGE 20 | 16 |
| | 25.60 | 29.50 | 33.70 | 38.10 | 42.70 | 47.20 | 51.00 | 55.00 | 58.00 | 59.00 | 57.00 | 52.00 | TGE 20 | 20 |
| | 33.60 | 38.50 | 43.50 | 48.40 | 53.00 | 57.00 | 61.00 | 64.00 | 65.00 | 64.00 | 60.00 | 53.00 | TGE 20 | 21 |
| | 34.60 | 40.30 | 46.50 | 53.00 | 60.00 | 67.00 | 75.00 | 81.00 | 86.00 | 89.00 | 87.00 | 81.00 | TGE 40 | 26 |
| | 39.40 | 45.80 | 53.00 | 61.00 | 69.00 | 77.00 | 85.00 | 92.00 | 98.00 | 101.00 | 99.00 | 91.00 | TGE 40 | 30 |
| | 47.30 | 55.00 | 64.00 | 73.00 | 83.00 | 94.00 | 104.00 | 114.00 | 121.00 | 124.00 | 121.00 | 109.00 | TGE 40 | 40 |
| | 67.00 | 77.00 | 87.00 | 97.00 | 107.00 | 116.00 | 124.00 | 129.00 | 132.00 | 131.00 | 125.00 | 111.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 35 | 4.44 | 5.11 | 5.81 | 6.55 | 7.30 | 8.06 | 8.79 | 9.47 | 10.00 | 10.50 | 10.70 | 10.60 | TGE 10 | 3 |
| | 5.96 | 6.86 | 7.82 | 8.82 | 9.86 | 10.90 | 11.90 | 12.80 | 13.60 | 14.20 | 14.50 | 14.40 | TGE 10 | 4 |
| | 8.69 | 10.00 | 11.40 | 12.90 | 14.40 | 16.00 | 17.50 | 18.90 | 20.00 | 20.90 | 21.30 | 21.00 | TGE 10 | 6 |
| | 11.70 | 13.50 | 15.40 | 17.40 | 19.40 | 21.40 | 23.40 | 25.20 | 26.70 | 27.70 | 28.10 | 27.60 | TGE 10 | 8 |
| | 13.60 | 15.70 | 18.00 | 20.30 | 22.70 | 25.20 | 27.50 | 29.70 | 31.60 | 33.00 | 33.60 | 33.20 | TGE 10 | 9 |
| | 17.30 | 20.20 | 23.20 | 26.30 | 29.30 | 32.20 | 34.80 | 36.80 | 38.20 | 38.80 | 38.40 | 36.90 | TGE 10 | 11 |
| | 16.30 | 18.90 | 21.70 | 24.70 | 28.10 | 31.50 | 35.10 | 38.60 | 41.80 | 44.40 | 46.10 | 46.50 | TGE 20 | 12.5 |
| | 20.20 | 23.40 | 27.00 | 30.90 | 35.10 | 39.50 | 44.10 | 48.60 | 53.00 | 56.00 | 59.00 | 59.00 | TGE 20 | 16 |
| | 25.00 | 28.80 | 33.10 | 37.60 | 42.50 | 47.60 | 53.00 | 58.00 | 62.00 | 66.00 | 68.00 | 68.00 | TGE 20 | 20 |
| | 34.10 | 39.20 | 44.60 | 50.00 | 56.00 | 61.00 | 66.00 | 70.00 | 73.00 | 75.00 | 75.00 | 73.00 | TGE 20 | 21 |
| | 33.00 | 38.50 | 44.60 | 51.00 | 59.00 | 66.00 | 75.00 | 83.00 | 90.00 | 97.00 | 102.00 | 103.00 | TGE 40 | 26 |
| | 37.40 | 43.70 | 51.00 | 58.00 | 67.00 | 75.00 | 85.00 | 94.00 | 103.00 | 110.00 | 115.00 | 117.00 | TGE 40 | 30 |
| | 45.00 | 52.00 | 61.00 | 71.00 | 81.00 | 93.00 | 105.00 | 118.00 | 130.00 | 139.00 | 145.00 | 146.00 | TGE 40 | 40 |
| | 69.00 | 80.00 | 90.00 | 102.00 | 113.00 | 124.00 | 134.00 | 143.00 | 151.00 | 155.00 | 156.00 | 152.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 45 | 4.39 | 5.07 | 5.79 | 6.56 | 7.35 | 8.18 | 9.00 | 9.81 | 10.60 | 11.20 | 11.80 | 12.10 | TGE 10 | 3 |
| | 5.84 | 6.75 | 7.73 | 8.76 | 9.85 | 11.00 | 12.10 | 13.20 | 14.30 | 15.20 | 15.90 | 16.40 | TGE 10 | 4 |
| | 8.40 | 9.74 | 11.20 | 12.70 | 14.30 | 15.90 | 17.60 | 19.20 | 20.80 | 22.10 | 23.20 | 23.80 | TGE 10 | 6 |
| | 11.20 | 13.00 | 14.90 | 16.90 | 19.00 | 21.20 | 23.40 | 25.50 | 27.50 | 29.20 | 30.50 | 31.20 | TGE 10 | 8 |
| | 12.90 | 15.00 | 17.30 | 19.70 | 22.20 | 24.80 | 27.40 | 30.00 | 32.50 | 34.60 | 36.40 | 37.40 | TGE 10 | 9 |
| | 16.50 | 19.40 | 22.50 | 25.80 | 29.10 | 32.40 | 35.50 | 38.30 | 40.50 | 42.10 | 42.90 | 42.70 | TGE 10 | 11 |
| | 15.70 | 18.20 | 20.90 | 23.90 | 27.20 | 30.70 | 34.50 | 38.30 | 42.10 | 45.70 | 48.80 | 51.00 | TGE 20 | 12.5 |
| | 19.30 | 22.40 | 25.80 | 29.50 | 33.70 | 38.20 | 42.90 | 47.90 | 53.00 | 57.00 | 62.00 | 65.00 | TGE 20 | 16 |
| | 23.80 | 27.50 | 31.60 | 36.00 | 40.90 | 46.00 | 52.00 | 57.00 | 63.00 | 68.00 | 72.00 | 76.00 | TGE 20 | 20 |
| | 33.80 | 39.10 | 44.60 | 50.00 | 56.00 | 62.00 | 68.00 | 73.00 | 78.00 | 81.00 | 84.00 | 84.00 | TGE 20 | 21 |
| | 30.80 | 35.90 | 41.70 | 48.00 | 55.00 | 63.00 | 71.00 | 80.00 | 88.00 | 97.00 | 105.00 | 111.00 | TGE 40 | 26 |
| | 34.70 | 40.60 | 47.10 | 54.00 | 62.00 | 71.00 | 80.00 | 90.00 | 100.00 | 110.00 | 119.00 | 126.00 | TGE 40 | 30 |
| | 41.70 | 48.70 | 57.00 | 66.00 | 76.00 | 88.00 | 101.00 | 114.00 | 129.00 | 143.00 | 155.00 | 164.00 | TGE 40 | 40 |
| | 70.00 | 81.00 | 92.00 | 104.00 | 116.00 | 128.00 | 140.00 | 151.00 | 161.00 | 169.00 | 175.00 | 176.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 55 | 4.26 | 4.93 | 5.64 | 6.40 | 7.21 | 8.05 | 8.91 | 9.78 | 10.60 | 11.40 | 12.20 | 12.70 | TGE 10 | 3 |
| | 5.61 | 6.50 | 7.46 | 8.48 | 9.57 | 10.70 | 11.90 | 13.10 | 14.20 | 15.30 | 16.30 | 17.10 | TGE 10 | 4 |
| | 7.95 | 9.24 | 10.60 | 12.10 | 13.70 | 15.40 | 17.10 | 18.80 | 20.50 | 22.10 | 23.60 | 24.70 | TGE 10 | 6 |
| | 10.40 | 12.20 | 14.00 | 16.00 | 18.10 | 20.30 | 22.50 | 24.80 | 27.00 | 29.10 | 30.90 | 32.20 | TGE 10 | 8 |
| | 11.90 | 14.00 | 16.20 | 18.50 | 21.00 | 23.60 | 26.30 | 29.00 | 31.70 | 34.30 | 36.60 | 38.50 | TGE 10 | 9 |
| | 15.30 | 18.10 | 21.20 | 24.50 | 27.90 | 31.40 | 34.80 | 38.10 | 40.90 | 43.20 | 44.90 | 45.70 | TGE 10 | 11 |
| | 14.90 | 17.20 | 19.70 | 22.50 | 25.60 | 29.00 | 32.70 | 36.50 | 40.50 | 44.40 | 48.20 | 52.00 | TGE 20 | 12.5 |
| | 18.20 | 21.00 | 24.10 | 27.60 | 31.50 | 35.70 | 40.30 | 45.20 | 50.00 | 55.00 | 60.00 | 65.00 | TGE 20 | 16 |
| | 22.30 | 25.70 | 29.50 | 33.60 | 38.20 | 43.10 | 48.40 | 54.00 | 60.00 | 66.00 | 71.00 | 76.00 | TGE 20 | 20 |
| | 32.90 | 38.20 | 43.70 | 49.60 | 56.00 | 62.00 | 68.00 | 74.00 | 79.00 | 84.00 | 87.00 | 90.00 | TGE 20 | 21 |
| | 28.20 | 32.90 | 38.10 | 43.90 | 50.00 | 57.00 | 65.00 | 74.00 | 82.00 | 91.00 | 100.00 | 109.00 | TGE 40 | 26 |
| | 31.60 | 36.90 | 42.90 | 49.50 | 57.00 | 65.00 | 74.00 | 83.00 | 93.00 | 103.00 | 113.00 | 123.00 | TGE 40 | 30 |
| | 37.80 | 44.10 | 51.00 | 60.00 | 69.00 | 80.00 | 92.00 | 106.00 | 120.00 | 136.00 | 151.00 | 165.00 | TGE 40 | 40 |
| | 70.00 | 80.00 | 92.00 | 104.00 | 116.00 | 129.00 | 141.00 | 154.00 | 165.00 | 175.00 | 183.00 | 189.00 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.98 | 1.00 | 1.06 | 1.10 | 1.15 | 1.19 | 1.24 | 1.28 | 1.33 | 1.37 | 1.41 |

Distributor correction factor (fp)*

| Evaporating temp. [°C] | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 1 | 0.96 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.92 | 0.91 | 0.89 |
| | 1.5 | 0.93 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.88 | 0.86 | 0.82 |
| | 2 | 0.91 | 0.91 | 0.90 | 0.90 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.84 | 0.81 | 0.76 |

*calculated at 32 °C condensing temperature

Capacity in TR. Range N: -40°F to +50°F. Opening superheat sh= 7.2 °F

US units R22

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 75 | 1.24 | 1.44 | 1.65 | 1.86 | 2.06 | 2.25 | 2.40 | 2.49 | 2.50 | 2.39 | 2.09 | TGE 10 | 3 |
| | 1.68 | 1.96 | 2.24 | 2.52 | 2.80 | 3.06 | 3.27 | 3.40 | 3.42 | 3.27 | 2.86 | TGE 10 | 4 |
| | 2.49 | 2.89 | 3.31 | 3.74 | 4.15 | 4.53 | 4.84 | 5.04 | 5.06 | 4.82 | 4.21 | TGE 10 | 6 |
| | 3.38 | 3.93 | 4.50 | 5.07 | 5.62 | 6.11 | 6.51 | 6.74 | 6.74 | 6.39 | 5.54 | TGE 10 | 8 |
| | 3.96 | 4.61 | 5.28 | 5.96 | 6.62 | 7.22 | 7.71 | 8.02 | 8.03 | 7.63 | 6.59 | TGE 10 | 9 |
| | 5.02 | 5.87 | 6.73 | 7.55 | 8.30 | 8.91 | 9.31 | 9.44 | 9.21 | 8.55 | 7.33 | TGE 10 | 11 |
| | 4.70 | 5.51 | 6.40 | 7.34 | 8.32 | 9.27 | 10.10 | 10.70 | 11.00 | 10.70 | 9.58 | TGE 20 | 12.5 |
| | 5.89 | 6.92 | 8.05 | 9.25 | 10.50 | 11.70 | 12.80 | 13.70 | 14.10 | 13.70 | 12.30 | TGE 20 | 16 |
| | 7.28 | 8.52 | 9.85 | 11.20 | 12.70 | 14.00 | 15.20 | 16.10 | 16.30 | 15.70 | 13.90 | TGE 20 | 20 |
| | 9.51 | 11.00 | 12.60 | 14.10 | 15.50 | 16.70 | 17.60 | 18.00 | 17.70 | 16.50 | 14.00 | TGE 20 | 21 |
| | 9.86 | 11.70 | 13.60 | 15.80 | 18.00 | 20.20 | 22.30 | 23.90 | 24.70 | 24.10 | 21.50 | TGE 40 | 26 |
| | 11.20 | 13.30 | 15.50 | 18.00 | 20.50 | 23.00 | 25.40 | 27.20 | 28.00 | 27.40 | 24.30 | TGE 40 | 30 |
| | 13.50 | 16.00 | 18.70 | 21.70 | 25.00 | 28.20 | 31.30 | 33.50 | 34.40 | 33.20 | 28.90 | TGE 40 | 40 |
| 19.00 | 22.00 | 25.10 | 28.20 | 31.20 | 33.80 | 35.80 | 36.80 | 36.40 | 34.10 | 29.10 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 95 | 1.26 | 1.47 | 1.70 | 1.93 | 2.17 | 2.41 | 2.63 | 2.82 | 2.96 | 3.03 | 2.99 | TGE 10 | 3 |
| | 1.69 | 1.98 | 2.28 | 2.60 | 2.93 | 3.25 | 3.56 | 3.83 | 4.03 | 4.12 | 4.07 | TGE 10 | 4 |
| | 2.47 | 2.89 | 3.34 | 3.81 | 4.30 | 4.78 | 5.23 | 5.62 | 5.91 | 6.04 | 5.96 | TGE 10 | 6 |
| | 3.32 | 3.89 | 4.49 | 5.13 | 5.77 | 6.40 | 6.99 | 7.49 | 7.84 | 7.98 | 7.82 | TGE 10 | 8 |
| | 3.85 | 4.53 | 5.25 | 6.00 | 6.77 | 7.53 | 8.25 | 8.87 | 9.33 | 9.54 | 9.39 | TGE 10 | 9 |
| | 4.92 | 5.83 | 6.78 | 7.75 | 8.70 | 9.56 | 10.30 | 10.80 | 11.00 | 10.90 | 10.40 | TGE 10 | 11 |
| | 4.63 | 5.44 | 6.34 | 7.34 | 8.41 | 9.52 | 10.60 | 11.70 | 12.50 | 13.10 | 13.20 | TGE 20 | 12.5 |
| | 5.75 | 6.76 | 7.90 | 9.16 | 10.50 | 12.00 | 13.40 | 14.70 | 15.90 | 16.70 | 16.80 | TGE 20 | 16 |
| | 7.09 | 8.32 | 9.67 | 11.10 | 12.70 | 14.30 | 16.00 | 17.40 | 18.60 | 19.40 | 19.30 | TGE 20 | 20 |
| | 9.67 | 11.30 | 13.00 | 14.80 | 16.50 | 18.10 | 19.50 | 20.60 | 21.30 | 21.30 | 20.50 | TGE 20 | 21 |
| | 9.37 | 11.10 | 13.10 | 15.20 | 17.60 | 20.10 | 22.70 | 25.20 | 27.40 | 28.90 | 29.40 | TGE 40 | 26 |
| | 10.60 | 12.60 | 14.80 | 17.30 | 20.00 | 22.90 | 25.80 | 28.60 | 31.00 | 32.70 | 33.20 | TGE 40 | 30 |
| | 12.80 | 15.20 | 17.90 | 21.00 | 24.50 | 28.30 | 32.30 | 36.10 | 39.30 | 41.30 | 41.30 | TGE 40 | 40 |
| 19.70 | 22.90 | 26.40 | 29.90 | 33.50 | 36.90 | 39.90 | 42.40 | 44.00 | 44.20 | 42.80 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 115 | 1.24 | 1.46 | 1.69 | 1.93 | 2.19 | 2.45 | 2.71 | 2.96 | 3.19 | 3.37 | 3.48 | TGE 10 | 3 |
| | 1.65 | 1.94 | 2.25 | 2.58 | 2.93 | 3.29 | 3.65 | 3.99 | 4.30 | 4.55 | 4.70 | TGE 10 | 4 |
| | 2.37 | 2.80 | 3.25 | 3.74 | 4.25 | 4.78 | 5.30 | 5.81 | 6.26 | 6.61 | 6.83 | TGE 10 | 6 |
| | 3.15 | 3.72 | 4.33 | 4.98 | 5.65 | 6.35 | 7.04 | 7.69 | 8.26 | 8.70 | 8.93 | TGE 10 | 8 |
| | 3.63 | 4.30 | 5.02 | 5.79 | 6.60 | 7.43 | 8.26 | 9.07 | 9.79 | 10.40 | 10.70 | TGE 10 | 9 |
| | 4.65 | 5.57 | 6.56 | 7.60 | 8.66 | 9.69 | 10.60 | 11.40 | 12.00 | 12.30 | 12.20 | TGE 10 | 11 |
| | 4.45 | 5.21 | 6.08 | 7.04 | 8.11 | 9.26 | 10.50 | 11.70 | 12.90 | 13.90 | 14.70 | TGE 20 | 12.5 |
| | 5.46 | 6.42 | 7.50 | 8.71 | 10.10 | 11.50 | 13.10 | 14.60 | 16.20 | 17.50 | 18.50 | TGE 20 | 16 |
| | 6.72 | 7.88 | 9.17 | 10.60 | 12.20 | 13.90 | 15.60 | 17.40 | 19.10 | 20.60 | 21.60 | TGE 20 | 20 |
| | 9.57 | 11.30 | 13.00 | 14.90 | 16.70 | 18.60 | 20.30 | 21.90 | 23.10 | 23.90 | 24.10 | TGE 20 | 21 |
| | 8.66 | 10.30 | 12.10 | 14.20 | 16.40 | 18.90 | 21.60 | 24.40 | 27.20 | 29.70 | 31.80 | TGE 40 | 26 |
| | 9.76 | 11.60 | 13.70 | 16.00 | 18.60 | 21.40 | 24.50 | 27.60 | 30.80 | 33.60 | 35.90 | TGE 40 | 30 |
| | 11.70 | 13.90 | 16.50 | 19.40 | 22.80 | 26.70 | 30.90 | 35.50 | 40.00 | 44.10 | 46.90 | TGE 40 | 40 |
| 19.90 | 23.30 | 26.90 | 30.60 | 34.50 | 38.30 | 42.10 | 45.40 | 48.10 | 50.00 | 51.00 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 135 | 1.20 | 1.41 | 1.64 | 1.88 | 2.14 | 2.40 | 2.68 | 2.95 | 3.22 | 3.45 | 3.64 | TGE 10 | 3 |
| | 1.57 | 1.85 | 2.16 | 2.49 | 2.83 | 3.20 | 3.57 | 3.95 | 4.30 | 4.63 | 4.90 | TGE 10 | 4 |
| | 2.22 | 2.63 | 3.07 | 3.54 | 4.05 | 4.58 | 5.13 | 5.67 | 6.19 | 6.66 | 7.05 | TGE 10 | 6 |
| | 2.91 | 3.45 | 4.04 | 4.67 | 5.33 | 6.03 | 6.75 | 7.46 | 8.13 | 8.72 | 9.18 | TGE 10 | 8 |
| | 3.32 | 3.96 | 4.65 | 5.39 | 6.19 | 7.02 | 7.87 | 8.74 | 9.57 | 10.30 | 11.00 | TGE 10 | 9 |
| | 4.26 | 5.15 | 6.13 | 7.17 | 8.26 | 9.37 | 10.40 | 11.40 | 12.20 | 12.80 | 13.10 | TGE 10 | 11 |
| | 4.19 | 4.89 | 5.68 | 6.57 | 7.57 | 8.67 | 9.84 | 11.10 | 12.30 | 13.50 | 14.60 | TGE 20 | 12.5 |
| | 5.08 | 5.95 | 6.93 | 8.05 | 9.30 | 10.70 | 12.20 | 13.70 | 15.30 | 16.90 | 18.30 | TGE 20 | 16 |
| | 6.22 | 7.28 | 8.46 | 9.78 | 11.20 | 12.80 | 14.60 | 16.40 | 18.20 | 20.00 | 21.60 | TGE 20 | 20 |
| | 9.26 | 10.90 | 12.70 | 14.50 | 16.50 | 18.40 | 20.30 | 22.00 | 23.60 | 24.80 | 25.60 | TGE 20 | 21 |
| | 7.83 | 9.28 | 10.90 | 12.80 | 14.80 | 17.10 | 19.60 | 22.30 | 25.20 | 28.00 | 30.60 | TGE 40 | 26 |
| | 8.77 | 10.40 | 12.30 | 14.40 | 16.70 | 19.30 | 22.20 | 25.20 | 28.40 | 31.60 | 34.60 | TGE 40 | 30 |
| | 10.50 | 12.40 | 14.70 | 17.40 | 20.40 | 24.00 | 28.00 | 32.50 | 37.40 | 42.30 | 46.80 | TGE 40 | 40 |
| 19.80 | 23.10 | 26.70 | 30.50 | 34.50 | 38.50 | 42.50 | 46.30 | 49.60 | 52.00 | 54.00 | TGE 40 | 42 | |

Subcooling correction factor 'fsub'

| Subcooling [°F] | 2 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.92 | 1.00 | 1.05 | 1.12 | 1.19 | 1.27 | 1.34 | 1.41 | 1.49 | 1.56 | 1.63 |

Distributor correction factor (fp)*

| Evaporating temp. [°F] | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [psi] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 15 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.92 | 0.91 | 0.88 |
| | 22 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.79 |
| | 30 | 0.91 | 0.90 | 0.90 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.84 | 0.74 |

*calculated at 90°F condensing temperature

Capacity in kW. Range N: -40 °C to +10 °C. Opening superheat sh= 4K

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 25 | 8.33 | 9.42 | 10.50 | 11.60 | 12.70 | 13.80 | 14.70 | 15.40 | 15.80 | 15.70 | 15.00 | 13.50 | TGE 10 | 3 |
| | 11.20 | 12.70 | 14.30 | 15.80 | 17.30 | 18.70 | 20.00 | 21.00 | 21.50 | 21.50 | 20.60 | 18.50 | TGE 10 | 4 |
| | 16.60 | 18.80 | 21.00 | 23.30 | 25.60 | 27.70 | 29.60 | 31.00 | 31.80 | 31.70 | 30.30 | 27.20 | TGE 10 | 6 |
| | 22.50 | 25.40 | 28.50 | 31.50 | 34.50 | 37.30 | 39.70 | 41.60 | 42.50 | 42.20 | 40.20 | 35.90 | TGE 10 | 8 |
| | 25.80 | 29.10 | 32.70 | 36.40 | 40.10 | 43.50 | 46.50 | 48.80 | 50.00 | 50.00 | 47.90 | 42.90 | TGE 10 | 9 |
| | 33.50 | 38.10 | 42.60 | 47.10 | 51.00 | 55.00 | 58.00 | 60.00 | 60.00 | 58.00 | 54.00 | 47.20 | TGE 10 | 11 |
| | 33.60 | 38.70 | 44.10 | 49.70 | 56.00 | 61.00 | 67.00 | 71.00 | 74.00 | 75.00 | 73.00 | 66.00 | TGE 20 | 12.5 |
| | 41.90 | 48.30 | 55.00 | 62.00 | 70.00 | 77.00 | 84.00 | 90.00 | 94.00 | 95.00 | 93.00 | 85.00 | TGE 20 | 16 |
| | 52.00 | 59.00 | 67.00 | 75.00 | 84.00 | 92.00 | 99.00 | 106.00 | 109.00 | 110.00 | 106.00 | 95.00 | TGE 20 | 20 |
| | 68.00 | 77.00 | 86.00 | 96.00 | 104.00 | 112.00 | 117.00 | 121.00 | 121.00 | 118.00 | 110.00 | 96.00 | TGE 20 | 21 |
| | 67.00 | 77.00 | 87.00 | 99.00 | 111.00 | 124.00 | 136.00 | 146.00 | 154.00 | 158.00 | 154.00 | 141.00 | TGE 40 | 26 |
| | 76.00 | 87.00 | 100.00 | 113.00 | 126.00 | 141.00 | 154.00 | 166.00 | 175.00 | 179.00 | 175.00 | 160.00 | TGE 40 | 30 |
| | 92.00 | 105.00 | 120.00 | 137.00 | 154.00 | 172.00 | 190.00 | 205.00 | 216.00 | 221.00 | 216.00 | 196.00 | TGE 40 | 40 |
| | 134.00 | 151.00 | 168.00 | 186.00 | 203.00 | 218.00 | 231.00 | 239.00 | 242.00 | 237.00 | 223.00 | 194.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 35 | 8.34 | 9.48 | 10.70 | 11.90 | 13.10 | 14.40 | 15.60 | 16.70 | 17.60 | 18.20 | 18.50 | 18.10 | TGE 10 | 3 |
| | 11.20 | 12.70 | 14.30 | 16.00 | 17.70 | 19.40 | 21.10 | 22.60 | 23.90 | 24.80 | 25.10 | 24.70 | TGE 10 | 4 |
| | 16.30 | 18.60 | 20.90 | 23.40 | 25.90 | 28.40 | 30.90 | 33.10 | 35.00 | 36.30 | 36.70 | 36.00 | TGE 10 | 6 |
| | 21.90 | 24.90 | 28.10 | 31.40 | 34.70 | 38.10 | 41.30 | 44.20 | 46.50 | 48.10 | 48.40 | 47.30 | TGE 10 | 8 |
| | 25.20 | 28.70 | 32.40 | 36.40 | 40.40 | 44.40 | 48.20 | 52.00 | 54.00 | 56.00 | 57.00 | 56.00 | TGE 10 | 9 |
| | 32.60 | 37.50 | 42.50 | 47.50 | 52.00 | 57.00 | 61.00 | 65.00 | 67.00 | 68.00 | 67.00 | 64.00 | TGE 10 | 11 |
| | 32.50 | 37.50 | 42.90 | 48.70 | 55.00 | 61.00 | 67.00 | 74.00 | 79.00 | 83.00 | 86.00 | 85.00 | TGE 20 | 12.5 |
| | 40.20 | 46.40 | 53.00 | 60.00 | 68.00 | 76.00 | 84.00 | 92.00 | 100.00 | 105.00 | 109.00 | 108.00 | TGE 20 | 16 |
| | 49.40 | 57.00 | 65.00 | 73.00 | 82.00 | 91.00 | 100.00 | 109.00 | 117.00 | 123.00 | 126.00 | 124.00 | TGE 20 | 20 |
| | 68.00 | 78.00 | 88.00 | 99.00 | 109.00 | 118.00 | 125.00 | 131.00 | 135.00 | 136.00 | 134.00 | 129.00 | TGE 20 | 21 |
| | 63.00 | 73.00 | 83.00 | 95.00 | 107.00 | 120.00 | 134.00 | 148.00 | 161.00 | 172.00 | 179.00 | 180.00 | TGE 40 | 26 |
| | 72.00 | 83.00 | 95.00 | 108.00 | 122.00 | 137.00 | 152.00 | 168.00 | 182.00 | 194.00 | 202.00 | 203.00 | TGE 40 | 30 |
| | 88.00 | 101.00 | 116.00 | 133.00 | 152.00 | 171.00 | 192.00 | 211.00 | 229.00 | 243.00 | 252.00 | 253.00 | TGE 40 | 40 |
| | 138.00 | 155.00 | 174.00 | 194.00 | 213.00 | 231.00 | 248.00 | 261.00 | 271.00 | 275.00 | 273.00 | 263.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 45 | 8.15 | 9.28 | 10.50 | 11.70 | 13.00 | 14.40 | 15.70 | 17.00 | 18.30 | 19.30 | 20.10 | 20.50 | TGE 10 | 3 |
| | 10.80 | 12.40 | 14.00 | 15.70 | 17.40 | 19.30 | 21.10 | 22.90 | 24.60 | 26.10 | 27.20 | 27.80 | TGE 10 | 4 |
| | 15.60 | 17.80 | 20.20 | 22.60 | 25.20 | 27.90 | 30.60 | 33.20 | 35.70 | 37.80 | 39.50 | 40.30 | TGE 10 | 6 |
| | 20.70 | 23.70 | 26.90 | 30.10 | 33.60 | 37.10 | 40.60 | 44.00 | 47.20 | 49.90 | 52.00 | 53.00 | TGE 10 | 8 |
| | 23.90 | 27.30 | 31.00 | 35.10 | 39.30 | 43.50 | 47.70 | 52.00 | 55.00 | 58.00 | 60.00 | 61.00 | TGE 10 | 9 |
| | 30.70 | 35.70 | 40.80 | 46.10 | 51.00 | 57.00 | 62.00 | 66.00 | 70.00 | 73.00 | 74.00 | 73.00 | TGE 10 | 11 |
| | 30.70 | 35.40 | 40.50 | 46.00 | 52.00 | 58.00 | 65.00 | 71.00 | 78.00 | 84.00 | 89.00 | 92.00 | TGE 20 | 12.5 |
| | 37.60 | 43.40 | 49.80 | 57.00 | 64.00 | 72.00 | 80.00 | 89.00 | 97.00 | 105.00 | 112.00 | 116.00 | TGE 20 | 16 |
| | 46.10 | 53.00 | 61.00 | 69.00 | 77.00 | 86.00 | 96.00 | 106.00 | 115.00 | 124.00 | 131.00 | 136.00 | TGE 20 | 20 |
| | 67.00 | 77.00 | 88.00 | 99.00 | 109.00 | 120.00 | 129.00 | 136.00 | 142.00 | 145.00 | 146.00 | 146.00 | TGE 20 | 21 |
| | 59.00 | 67.00 | 77.00 | 88.00 | 100.00 | 112.00 | 126.00 | 140.00 | 154.00 | 168.00 | 181.00 | 190.00 | TGE 40 | 26 |
| | 66.00 | 76.00 | 87.00 | 99.00 | 113.00 | 127.00 | 142.00 | 159.00 | 175.00 | 190.00 | 204.00 | 214.00 | TGE 40 | 30 |
| | 81.00 | 93.00 | 108.00 | 125.00 | 143.00 | 163.00 | 184.00 | 206.00 | 227.00 | 246.00 | 262.00 | 273.00 | TGE 40 | 40 |
| | 138.00 | 156.00 | 176.00 | 196.00 | 217.00 | 238.00 | 256.00 | 273.00 | 286.00 | 296.00 | 300.00 | 299.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 55 | 7.82 | 8.91 | 10.10 | 11.30 | 12.50 | 13.80 | 15.20 | 16.50 | 17.80 | 19.00 | 20.10 | 20.90 | TGE 10 | 3 |
| | 10.30 | 11.70 | 13.30 | 14.90 | 16.60 | 18.40 | 20.20 | 22.00 | 23.80 | 25.50 | 26.90 | 28.10 | TGE 10 | 4 |
| | 14.60 | 16.70 | 18.90 | 21.30 | 23.70 | 26.30 | 28.90 | 31.60 | 34.20 | 36.60 | 38.70 | 40.40 | TGE 10 | 6 |
| | 19.10 | 22.00 | 25.00 | 28.10 | 31.30 | 34.70 | 38.10 | 41.60 | 44.90 | 48.00 | 51.00 | 53.00 | TGE 10 | 8 |
| | 21.70 | 25.00 | 28.60 | 32.50 | 36.60 | 40.90 | 45.20 | 49.30 | 53.00 | 57.00 | 60.00 | 62.00 | TGE 10 | 9 |
| | 28.20 | 33.00 | 38.00 | 43.20 | 48.60 | 54.00 | 59.00 | 64.00 | 69.00 | 72.00 | 75.00 | 75.00 | TGE 10 | 11 |
| | 28.70 | 32.90 | 37.40 | 42.40 | 47.60 | 53.00 | 59.00 | 66.00 | 72.00 | 78.00 | 84.00 | 89.00 | TGE 20 | 12.5 |
| | 34.70 | 39.90 | 45.60 | 52.00 | 58.00 | 65.00 | 73.00 | 81.00 | 89.00 | 97.00 | 105.00 | 111.00 | TGE 20 | 16 |
| | 42.40 | 48.80 | 56.00 | 63.00 | 71.00 | 79.00 | 87.00 | 96.00 | 106.00 | 115.00 | 124.00 | 132.00 | TGE 20 | 20 |
| | 64.00 | 74.00 | 85.00 | 96.00 | 107.00 | 118.00 | 128.00 | 136.00 | 143.00 | 148.00 | 151.00 | 153.00 | TGE 20 | 21 |
| | 54.00 | 61.00 | 70.00 | 80.00 | 90.00 | 102.00 | 114.00 | 127.00 | 140.00 | 154.00 | 167.00 | 179.00 | TGE 40 | 26 |
| | 60.00 | 69.00 | 79.00 | 90.00 | 102.00 | 115.00 | 128.00 | 143.00 | 159.00 | 174.00 | 189.00 | 202.00 | TGE 40 | 30 |
| | 71.00 | 83.00 | 96.00 | 111.00 | 128.00 | 147.00 | 168.00 | 189.00 | 211.00 | 232.00 | 251.00 | 269.00 | TGE 40 | 40 |
| | 136.00 | 154.00 | 174.00 | 195.00 | 217.00 | 238.00 | 259.00 | 277.00 | 293.00 | 305.00 | 313.00 | 317.00 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.98 | 1.00 | 1.06 | 1.11 | 1.15 | 1.20 | 1.24 | 1.29 | 1.33 | 1.38 | 1.42 |

Distributor correction factor (fp)*

| Evaporating temp. [°C] | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.96 | 0.96 | 0.96 | 0.95 | 0.94 | 0.93 |
| 1.5 | 0.96 | 0.96 | 0.96 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.92 | 0.89 |
| 2 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.88 | 0.86 |

*calculated at 32 °C condensing temperature

Capacity in TR. Range N: -40°F to +50°F. Opening superheat sh= 7.2 °F

US units **R32**

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 75 | 2.36 | 2.70 | 3.05 | 3.40 | 3.73 | 4.03 | 4.26 | 4.40 | 4.37 | 4.13 | 3.58 | TGE 10 | 3 |
| | 3.19 | 3.66 | 4.13 | 4.61 | 5.07 | 5.49 | 5.81 | 6.00 | 5.98 | 5.66 | 4.90 | TGE 10 | 4 |
| | 4.71 | 5.40 | 6.11 | 6.82 | 7.50 | 8.11 | 8.60 | 8.88 | 8.83 | 8.34 | 7.21 | TGE 10 | 6 |
| | 6.39 | 7.32 | 8.27 | 9.22 | 10.10 | 10.90 | 11.50 | 11.90 | 11.80 | 11.10 | 9.49 | TGE 10 | 8 |
| | 7.32 | 8.38 | 9.50 | 10.70 | 11.80 | 12.80 | 13.60 | 14.00 | 14.00 | 13.20 | 11.30 | TGE 10 | 9 |
| | 9.51 | 10.90 | 12.40 | 13.70 | 15.00 | 16.00 | 16.60 | 16.70 | 16.20 | 14.80 | 12.40 | TGE 10 | 11 |
| | 9.56 | 11.20 | 12.90 | 14.70 | 16.50 | 18.20 | 19.60 | 20.60 | 20.90 | 20.00 | 17.60 | TGE 20 | 12.5 |
| | 11.90 | 14.00 | 16.10 | 18.40 | 20.70 | 22.90 | 24.80 | 26.20 | 26.60 | 25.60 | 22.60 | TGE 20 | 16 |
| | 14.70 | 17.10 | 19.60 | 22.20 | 24.80 | 27.20 | 29.20 | 30.50 | 30.70 | 29.10 | 25.10 | TGE 20 | 20 |
| | 19.20 | 22.10 | 25.00 | 27.90 | 30.40 | 32.40 | 33.70 | 33.90 | 32.90 | 30.20 | 25.00 | TGE 20 | 21 |
| | 19.00 | 22.20 | 25.60 | 29.30 | 33.20 | 37.00 | 40.40 | 43.00 | 44.10 | 42.60 | 37.50 | TGE 40 | 26 |
| | 21.70 | 25.30 | 29.20 | 33.40 | 37.70 | 42.10 | 46.00 | 48.90 | 50.00 | 48.30 | 42.40 | TGE 40 | 30 |
| | 26.10 | 30.40 | 35.20 | 40.50 | 46.00 | 52.00 | 56.00 | 60.00 | 62.00 | 60.00 | 52.00 | TGE 40 | 40 |
| 38.00 | 43.20 | 48.70 | 54.00 | 59.00 | 63.00 | 66.00 | 68.00 | 66.00 | 61.00 | 51.00 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 95 | 2.37 | 2.73 | 3.11 | 3.50 | 3.89 | 4.28 | 4.64 | 4.95 | 5.17 | 5.24 | 5.13 | TGE 10 | 3 |
| | 3.17 | 3.66 | 4.17 | 4.71 | 5.25 | 5.79 | 6.29 | 6.71 | 7.02 | 7.13 | 6.98 | TGE 10 | 4 |
| | 4.63 | 5.34 | 6.10 | 6.88 | 7.68 | 8.47 | 9.21 | 9.84 | 10.30 | 10.40 | 10.20 | TGE 10 | 6 |
| | 6.22 | 7.18 | 8.19 | 9.23 | 10.30 | 11.30 | 12.30 | 13.10 | 13.60 | 13.80 | 13.40 | TGE 10 | 8 |
| | 7.16 | 8.26 | 9.45 | 10.70 | 12.00 | 13.20 | 14.30 | 15.20 | 15.80 | 16.10 | 15.80 | TGE 10 | 9 |
| | 9.25 | 10.80 | 12.40 | 14.00 | 15.50 | 16.90 | 18.10 | 19.00 | 19.30 | 19.00 | 17.90 | TGE 10 | 11 |
| | 9.24 | 10.80 | 12.50 | 14.40 | 16.30 | 18.40 | 20.30 | 22.10 | 23.50 | 24.30 | 24.10 | TGE 20 | 12.5 |
| | 11.40 | 13.40 | 15.60 | 17.90 | 20.40 | 22.90 | 25.50 | 27.90 | 29.70 | 30.80 | 30.70 | TGE 20 | 16 |
| | 14.00 | 16.40 | 18.90 | 21.60 | 24.50 | 27.40 | 30.20 | 32.80 | 34.70 | 35.70 | 35.10 | TGE 20 | 20 |
| | 19.40 | 22.50 | 25.70 | 29.00 | 32.00 | 34.70 | 36.80 | 38.10 | 38.50 | 38.00 | 36.30 | TGE 20 | 21 |
| | 18.00 | 21.00 | 24.40 | 28.10 | 32.10 | 36.40 | 40.70 | 44.90 | 48.40 | 51.00 | 51.00 | TGE 40 | 26 |
| | 20.30 | 23.80 | 27.60 | 31.90 | 36.40 | 41.30 | 46.20 | 51.00 | 55.00 | 57.00 | 58.00 | TGE 40 | 30 |
| | 24.90 | 29.10 | 34.00 | 39.50 | 45.50 | 52.00 | 58.00 | 64.00 | 69.00 | 71.00 | 72.00 | TGE 40 | 40 |
| 39.10 | 44.70 | 51.00 | 57.00 | 63.00 | 68.00 | 73.00 | 76.00 | 78.00 | 77.00 | 74.00 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 115 | 2.31 | 2.66 | 3.04 | 3.44 | 3.86 | 4.28 | 4.70 | 5.11 | 5.46 | 5.73 | 5.88 | TGE 10 | 3 |
| | 3.06 | 3.54 | 4.05 | 4.59 | 5.16 | 5.74 | 6.32 | 6.87 | 7.36 | 7.74 | 7.95 | TGE 10 | 4 |
| | 4.39 | 5.10 | 5.84 | 6.63 | 7.46 | 8.31 | 9.16 | 9.97 | 10.70 | 11.20 | 11.50 | TGE 10 | 6 |
| | 5.84 | 6.78 | 7.78 | 8.82 | 9.91 | 11.00 | 12.10 | 13.20 | 14.10 | 14.70 | 15.00 | TGE 10 | 8 |
| | 6.72 | 7.80 | 9.00 | 10.30 | 11.60 | 13.00 | 14.30 | 15.40 | 16.40 | 17.10 | 17.50 | TGE 10 | 9 |
| | 8.65 | 10.20 | 11.80 | 13.50 | 15.20 | 16.90 | 18.40 | 19.70 | 20.60 | 21.00 | 20.80 | TGE 10 | 11 |
| | 8.66 | 10.10 | 11.70 | 13.50 | 15.40 | 17.40 | 19.50 | 21.60 | 23.50 | 25.20 | 26.30 | TGE 20 | 12.5 |
| | 10.60 | 12.40 | 14.40 | 16.60 | 19.00 | 21.50 | 24.20 | 26.90 | 29.40 | 31.60 | 33.20 | TGE 20 | 16 |
| | 13.00 | 15.20 | 17.60 | 20.10 | 22.90 | 25.80 | 28.80 | 31.90 | 34.80 | 37.20 | 38.80 | TGE 20 | 20 |
| | 19.00 | 22.20 | 25.60 | 29.00 | 32.40 | 35.40 | 38.00 | 40.00 | 41.20 | 41.80 | 41.70 | TGE 20 | 21 |
| | 16.50 | 19.30 | 22.40 | 25.80 | 29.60 | 33.70 | 38.10 | 42.60 | 47.00 | 51.00 | 54.00 | TGE 40 | 26 |
| | 18.60 | 21.70 | 25.30 | 29.10 | 33.40 | 38.10 | 43.10 | 48.20 | 53.00 | 58.00 | 61.00 | TGE 40 | 30 |
| | 22.60 | 26.60 | 31.30 | 36.70 | 42.70 | 49.20 | 56.00 | 63.00 | 69.00 | 74.00 | 78.00 | TGE 40 | 40 |
| 39.10 | 45.00 | 51.00 | 58.00 | 64.00 | 71.00 | 76.00 | 81.00 | 84.00 | 86.00 | 86.00 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 135 | 2.20 | 2.79 | 3.21 | 3.65 | 4.10 | 4.56 | 5.01 | 5.46 | 5.87 | 6.23 | 6.52 | TGE 10 | 3 |
| | 3.12 | 3.64 | 4.20 | 4.79 | 5.39 | 6.01 | 6.63 | 7.24 | 7.80 | 8.30 | 8.69 | TGE 10 | 4 |
| | 4.29 | 5.03 | 5.85 | 6.74 | 7.66 | 8.59 | 9.49 | 10.33 | 11.09 | 11.77 | 12.38 | TGE 10 | 6 |
| | 5.56 | 6.55 | 7.63 | 8.80 | 10.01 | 11.23 | 12.38 | 13.45 | 14.39 | 15.21 | 15.94 | TGE 10 | 8 |
| | 5.95 | 7.04 | 8.25 | 9.57 | 10.96 | 12.37 | 13.74 | 15.03 | 16.19 | 17.24 | 18.19 | TGE 10 | 9 |
| | 8.18 | 9.89 | 11.80 | 13.86 | 15.94 | 17.88 | 19.56 | 20.86 | 21.79 | 22.39 | 22.80 | TGE 10 | 11 |
| | 8.50 | 10.00 | 11.62 | 13.37 | 15.25 | 17.25 | 19.34 | 21.48 | 23.60 | 25.60 | 27.35 | TGE 20 | 12.5 |
| | 9.98 | 11.89 | 14.04 | 16.41 | 18.94 | 21.55 | 24.16 | 26.70 | 29.12 | 31.46 | 33.85 | TGE 20 | 16 |
| | 12.11 | 14.43 | 17.01 | 19.81 | 22.77 | 25.80 | 28.82 | 31.74 | 34.54 | 37.26 | 40.03 | TGE 20 | 20 |
| | 18.50 | 21.93 | 25.40 | 28.85 | 32.22 | 35.43 | 38.37 | 40.93 | 42.97 | 44.36 | 44.94 | TGE 20 | 21 |
| | 14.36 | 17.13 | 20.25 | 23.71 | 27.46 | 31.41 | 35.44 | 39.44 | 43.33 | 47.10 | 50.88 | TGE 40 | 26 |
| | 16.04 | 19.17 | 22.71 | 26.63 | 30.89 | 35.36 | 39.92 | 44.43 | 48.80 | 53.03 | 57.29 | TGE 40 | 30 |
| | 19.07 | 22.89 | 27.32 | 32.42 | 38.20 | 44.63 | 51.60 | 58.88 | 66.12 | 72.86 | 78.59 | TGE 40 | 40 |
| 41.84 | 48.44 | 55.25 | 62.18 | 69.08 | 75.76 | 81.96 | 87.36 | 91.57 | 94.15 | 94.65 | TGE 40 | 42 | |

Subcooling correction factor 'fsub'

| Subcooling [°F] | 2 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.92 | 1.00 | 1.05 | 1.12 | 1.20 | 1.27 | 1.35 | 1.42 | 1.50 | 1.57 | 1.64 |

Distributor correction factor (fp)*

| Evaporating temp. [°F] | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [psi] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 15 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.96 | 0.96 | 0.96 | 0.95 | 0.94 |
| | 22 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.93 | 0.92 | 0.90 |
| | 30 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.88 |

*calculated at 90°F condensing temperature

Capacity in kW. Range N: -40 °C to +10 °C. Opening superheat sh= 4 K

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 25 | 2.44 | 2.76 | 3.10 | 3.47 | 3.85 | 4.24 | 4.62 | 4.96 | 5.23 | 5.37 | 5.31 | 4.92 | TGE 10 | 3 |
| | 3.33 | 3.77 | 4.24 | 4.74 | 5.27 | 5.81 | 6.33 | 6.81 | 7.18 | 7.38 | 7.30 | 6.77 | TGE 10 | 4 |
| | 5.00 | 5.66 | 6.37 | 7.13 | 7.92 | 8.73 | 9.52 | 10.20 | 10.80 | 11.10 | 11.00 | 10.10 | TGE 10 | 6 |
| | 6.90 | 7.81 | 8.78 | 9.82 | 10.90 | 12.00 | 13.10 | 14.00 | 14.70 | 15.10 | 14.90 | 13.70 | TGE 10 | 8 |
| | 8.11 | 9.14 | 10.30 | 11.50 | 12.80 | 14.10 | 15.40 | 16.60 | 17.50 | 18.00 | 17.80 | 16.40 | TGE 10 | 9 |
| | 10.20 | 11.50 | 13.00 | 14.50 | 16.10 | 17.60 | 19.10 | 20.30 | 21.20 | 21.40 | 20.80 | 18.80 | TGE 10 | 11 |
| | 10.60 | 12.20 | 14.00 | 15.90 | 17.90 | 20.10 | 22.30 | 24.40 | 26.10 | 27.20 | 27.20 | 25.60 | TGE 20 | 12.5 |
| | 13.40 | 15.40 | 17.60 | 20.10 | 22.70 | 25.50 | 28.40 | 31.10 | 33.40 | 34.90 | 35.00 | 32.90 | TGE 20 | 16 |
| | 16.60 | 19.10 | 21.80 | 24.70 | 27.80 | 31.00 | 34.20 | 37.20 | 39.60 | 41.00 | 40.80 | 37.90 | TGE 20 | 20 |
| | 21.00 | 23.90 | 27.10 | 30.50 | 33.90 | 37.40 | 40.50 | 43.20 | 45.00 | 45.40 | 44.00 | 39.80 | TGE 20 | 21 |
| | 22.10 | 25.40 | 29.10 | 33.20 | 37.60 | 42.30 | 47.10 | 52.00 | 56.00 | 59.00 | 59.00 | 56.00 | TGE 40 | 26 |
| | 25.30 | 29.10 | 33.30 | 38.00 | 43.00 | 48.40 | 54.00 | 59.00 | 64.00 | 67.00 | 68.00 | 64.00 | TGE 40 | 30 |
| | 30.50 | 35.00 | 40.00 | 45.60 | 52.00 | 58.00 | 65.00 | 72.00 | 77.00 | 81.00 | 82.00 | 77.00 | TGE 40 | 40 |
| 39.70 | 45.00 | 51.00 | 57.00 | 64.00 | 70.00 | 77.00 | 82.00 | 86.00 | 88.00 | 86.00 | 78.00 | TGE 40 | 42 | |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 35 | 2.46 | 2.79 | 3.16 | 3.56 | 3.99 | 4.44 | 4.92 | 5.39 | 5.84 | 6.22 | 6.49 | 6.59 | TGE 10 | 3 |
| | 3.34 | 3.79 | 4.29 | 4.84 | 5.43 | 6.05 | 6.70 | 7.36 | 7.97 | 8.51 | 8.89 | 9.02 | TGE 10 | 4 |
| | 4.96 | 5.64 | 6.39 | 7.21 | 8.09 | 9.03 | 10.00 | 11.00 | 11.90 | 12.70 | 13.30 | 13.50 | TGE 10 | 6 |
| | 6.79 | 7.73 | 8.75 | 9.87 | 11.10 | 12.30 | 13.60 | 14.90 | 16.20 | 17.20 | 17.90 | 18.10 | TGE 10 | 8 |
| | 7.99 | 9.06 | 10.20 | 11.60 | 13.00 | 14.50 | 16.10 | 17.60 | 19.10 | 20.30 | 21.20 | 21.50 | TGE 10 | 9 |
| | 9.95 | 11.40 | 12.90 | 14.60 | 16.40 | 18.30 | 20.20 | 22.00 | 23.60 | 24.80 | 25.40 | 25.30 | TGE 10 | 11 |
| | 10.50 | 12.00 | 13.80 | 15.80 | 18.00 | 20.40 | 22.90 | 25.60 | 28.20 | 30.50 | 32.40 | 33.30 | TGE 20 | 12.5 |
| | 13.10 | 15.10 | 17.30 | 19.80 | 22.60 | 25.70 | 29.00 | 32.40 | 35.70 | 38.80 | 41.30 | 42.60 | TGE 20 | 16 |
| | 16.10 | 18.60 | 21.40 | 24.40 | 27.70 | 31.20 | 35.00 | 38.80 | 42.60 | 45.90 | 48.40 | 49.50 | TGE 20 | 20 |
| | 21.20 | 24.30 | 27.70 | 31.40 | 35.30 | 39.30 | 43.30 | 47.00 | 50.00 | 53.00 | 54.00 | 53.00 | TGE 20 | 21 |
| | 21.20 | 24.40 | 28.10 | 32.30 | 36.90 | 41.90 | 47.40 | 53.00 | 59.00 | 64.00 | 69.00 | 71.00 | TGE 40 | 26 |
| | 24.10 | 27.80 | 32.00 | 36.80 | 42.00 | 47.80 | 54.00 | 61.00 | 67.00 | 73.00 | 78.00 | 81.00 | TGE 40 | 30 |
| | 29.20 | 33.60 | 38.60 | 44.20 | 51.00 | 58.00 | 65.00 | 74.00 | 82.00 | 90.00 | 97.00 | 100.00 | TGE 40 | 40 |
| 40.70 | 46.40 | 53.00 | 60.00 | 67.00 | 75.00 | 83.00 | 90.00 | 97.00 | 102.00 | 105.00 | 106.00 | TGE 40 | 42 | |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 45 | 2.41 | 2.75 | 3.12 | 3.53 | 3.98 | 4.47 | 5.00 | 5.55 | 6.10 | 6.64 | 7.13 | 7.52 | TGE 10 | 3 |
| | 3.25 | 3.71 | 4.21 | 4.77 | 5.39 | 6.06 | 6.78 | 7.53 | 8.29 | 9.04 | 9.71 | 10.20 | TGE 10 | 4 |
| | 4.78 | 5.46 | 6.21 | 7.05 | 7.96 | 8.96 | 10.00 | 11.10 | 12.30 | 13.40 | 14.40 | 15.20 | TGE 10 | 6 |
| | 6.48 | 7.41 | 8.44 | 9.57 | 10.80 | 12.20 | 13.60 | 15.10 | 16.60 | 18.10 | 19.40 | 20.40 | TGE 10 | 8 |
| | 7.60 | 8.66 | 9.85 | 11.20 | 12.70 | 14.30 | 16.00 | 17.80 | 19.50 | 21.20 | 22.70 | 23.90 | TGE 10 | 9 |
| | 9.44 | 10.90 | 12.40 | 14.20 | 16.10 | 18.10 | 20.30 | 22.50 | 24.60 | 26.60 | 28.10 | 29.00 | TGE 10 | 11 |
| | 10.00 | 11.50 | 13.30 | 15.20 | 17.40 | 19.80 | 22.50 | 25.30 | 28.30 | 31.30 | 34.20 | 36.60 | TGE 20 | 12.5 |
| | 12.40 | 14.30 | 16.50 | 18.90 | 21.70 | 24.70 | 28.10 | 31.80 | 35.60 | 39.50 | 43.30 | 46.50 | TGE 20 | 16 |
| | 15.30 | 17.60 | 20.30 | 23.20 | 26.50 | 30.10 | 34.00 | 38.20 | 42.60 | 47.00 | 51.00 | 54.00 | TGE 20 | 20 |
| | 20.80 | 23.90 | 27.40 | 31.30 | 35.50 | 39.80 | 44.30 | 48.70 | 53.00 | 56.00 | 59.00 | 61.00 | TGE 20 | 21 |
| | 19.70 | 22.70 | 26.20 | 30.20 | 34.70 | 39.70 | 45.30 | 51.00 | 58.00 | 65.00 | 71.00 | 77.00 | TGE 40 | 26 |
| | 22.30 | 25.80 | 29.80 | 34.30 | 39.40 | 45.20 | 52.00 | 59.00 | 66.00 | 73.00 | 81.00 | 87.00 | TGE 40 | 30 |
| | 27.00 | 31.20 | 35.90 | 41.40 | 47.60 | 55.00 | 63.00 | 72.00 | 81.00 | 92.00 | 102.00 | 110.00 | TGE 40 | 40 |
| 40.60 | 46.40 | 53.00 | 60.00 | 68.00 | 76.00 | 85.00 | 94.00 | 103.00 | 110.00 | 117.00 | 121.00 | TGE 40 | 42 | |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 55 | 2.31 | 2.64 | 3.00 | 3.41 | 3.86 | 4.35 | 4.89 | 5.47 | 6.07 | 6.69 | 7.29 | 7.85 | TGE 10 | 3 |
| | 3.09 | 3.53 | 4.02 | 4.57 | 5.18 | 5.85 | 6.59 | 7.37 | 8.20 | 9.05 | 9.88 | 10.60 | TGE 10 | 4 |
| | 4.48 | 5.13 | 5.86 | 6.67 | 7.57 | 8.57 | 9.65 | 10.80 | 12.00 | 13.30 | 14.50 | 15.60 | TGE 10 | 6 |
| | 6.00 | 6.89 | 7.88 | 8.98 | 10.20 | 11.50 | 13.00 | 14.50 | 16.20 | 17.80 | 19.50 | 20.90 | TGE 10 | 8 |
| | 6.95 | 7.96 | 9.11 | 10.40 | 11.90 | 13.50 | 15.20 | 17.10 | 19.00 | 21.00 | 22.80 | 24.60 | TGE 10 | 9 |
| | 8.68 | 10.00 | 11.60 | 13.30 | 15.20 | 17.30 | 19.50 | 21.90 | 24.40 | 26.70 | 28.80 | 30.50 | TGE 10 | 11 |
| | 9.41 | 10.80 | 12.40 | 14.20 | 16.30 | 18.60 | 21.10 | 24.00 | 27.00 | 30.20 | 33.50 | 36.60 | TGE 20 | 12.5 |
| | 11.50 | 13.30 | 15.30 | 17.50 | 20.10 | 23.00 | 26.20 | 29.80 | 33.70 | 37.80 | 42.00 | 46.10 | TGE 20 | 16 |
| | 14.10 | 16.30 | 18.70 | 21.50 | 24.60 | 28.00 | 31.80 | 35.90 | 40.40 | 45.10 | 49.90 | 54.00 | TGE 20 | 20 |
| | 19.70 | 22.80 | 26.30 | 30.20 | 34.40 | 38.90 | 43.70 | 48.40 | 53.00 | 57.00 | 61.00 | 64.00 | TGE 20 | 21 |
| | 17.70 | 20.50 | 23.70 | 27.30 | 31.50 | 36.20 | 41.50 | 47.40 | 54.00 | 61.00 | 68.00 | 75.00 | TGE 40 | 26 |
| | 20.00 | 23.20 | 26.80 | 30.90 | 35.60 | 41.00 | 47.00 | 54.00 | 61.00 | 69.00 | 77.00 | 85.00 | TGE 40 | 30 |
| | 24.20 | 28.00 | 32.30 | 37.30 | 43.00 | 49.60 | 57.00 | 66.00 | 76.00 | 87.00 | 98.00 | 110.00 | TGE 40 | 40 |
| 39.30 | 45.10 | 52.00 | 59.00 | 67.00 | 76.00 | 85.00 | 95.00 | 104.00 | 113.00 | 121.00 | 128.00 | TGE 40 | 42 | |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.98 | 1.00 | 1.07 | 1.12 | 1.18 | 1.23 | 1.29 | 1.34 | 1.40 | 1.45 | 1.50 |

Distributor correction factor (fp)*

| Evaporating temp. [°C] | Capacity [kW] | | | | | | | | | | | |
|------------------------|---------------|------|------|------|------|------|------|------|------|------|------|------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
| Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 0.93 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.90 | 0.89 | 0.87 |
| | 1.5 | 0.90 | 0.89 | 0.89 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.84 | 0.82 | 0.79 |
| | 2 | 0.86 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.79 | 0.76 | 0.71 |

*calculated at 32 °C condensing temperature

Capacity in TR. Range N: -40°F to +50°F. Opening superheat sh= 7.2 °F

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 75 | 0.07 | 0.07 | 0.08 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.10 | 0.08 | TGE 10 | 3 |
| | 0.13 | 0.15 | 0.16 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.20 | 0.19 | 0.16 | TGE 10 | 4 |
| | 0.17 | 0.18 | 0.21 | 0.25 | 0.29 | 0.34 | 0.38 | 0.40 | 0.41 | 0.39 | 0.33 | TGE 10 | 6 |
| | 0.18 | 0.23 | 0.28 | 0.33 | 0.39 | 0.44 | 0.48 | 0.52 | 0.53 | 0.52 | 0.44 | TGE 10 | 8 |
| | 0.28 | 0.34 | 0.41 | 0.49 | 0.57 | 0.65 | 0.72 | 0.78 | 0.81 | 0.79 | 0.68 | TGE 10 | 9 |
| | 0.28 | 0.34 | 0.42 | 0.51 | 0.61 | 0.71 | 0.80 | 0.89 | 0.94 | 0.94 | 0.79 | TGE 10 | 11 |
| | 3.02 | 3.52 | 4.07 | 4.69 | 5.35 | 6.03 | 6.68 | 7.22 | 7.56 | 7.51 | 6.81 | TGE 20 | 12.5 |
| | 3.81 | 4.44 | 5.16 | 5.94 | 6.79 | 7.66 | 8.51 | 9.23 | 9.68 | 9.65 | 8.77 | TGE 20 | 16 |
| | 4.71 | 5.50 | 6.36 | 7.29 | 8.27 | 9.26 | 10.20 | 11.00 | 11.40 | 11.20 | 10.10 | TGE 20 | 20 |
| | 5.94 | 6.86 | 7.86 | 8.92 | 10.00 | 11.00 | 11.90 | 12.50 | 12.60 | 12.10 | 10.50 | TGE 20 | 21 |
| | 6.30 | 7.35 | 8.53 | 9.84 | 11.30 | 12.70 | 14.20 | 15.50 | 16.30 | 16.30 | 14.90 | TGE 40 | 26 |
| | 7.20 | 8.41 | 9.76 | 11.30 | 12.90 | 14.60 | 16.20 | 17.70 | 18.60 | 18.70 | 17.00 | TGE 40 | 30 |
| 8.70 | 10.10 | 11.70 | 13.50 | 15.50 | 17.50 | 19.60 | 21.40 | 22.60 | 22.60 | 20.30 | TGE 40 | 40 | |
| 11.20 | 12.90 | 14.70 | 16.70 | 18.80 | 20.80 | 22.50 | 23.80 | 24.30 | 23.50 | 20.60 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 95 | 0.70 | 0.80 | 0.92 | 1.05 | 1.19 | 1.34 | 1.49 | 1.63 | 1.76 | 1.84 | 1.87 | TGE 10 | 3 |
| | 0.95 | 1.09 | 1.25 | 1.43 | 1.62 | 1.82 | 2.03 | 2.23 | 2.40 | 2.52 | 2.56 | TGE 10 | 4 |
| | 1.41 | 1.63 | 1.87 | 2.13 | 2.41 | 2.72 | 3.03 | 3.32 | 3.58 | 3.77 | 3.82 | TGE 10 | 6 |
| | 1.93 | 2.23 | 2.55 | 2.91 | 3.30 | 3.71 | 4.12 | 4.52 | 4.86 | 5.09 | 5.14 | TGE 10 | 8 |
| | 2.27 | 2.61 | 2.99 | 3.41 | 3.88 | 4.36 | 4.86 | 5.33 | 5.73 | 6.02 | 6.10 | TGE 10 | 9 |
| | 2.83 | 3.27 | 3.77 | 4.31 | 4.89 | 5.49 | 6.08 | 6.61 | 7.02 | 7.23 | 7.15 | TGE 10 | 11 |
| | 2.97 | 3.47 | 4.04 | 4.68 | 5.40 | 6.19 | 7.01 | 7.84 | 8.60 | 9.19 | 9.47 | TGE 20 | 12.5 |
| | 3.71 | 4.35 | 5.07 | 5.89 | 6.80 | 7.80 | 8.87 | 9.94 | 10.90 | 11.70 | 12.10 | TGE 20 | 16 |
| | 4.58 | 5.37 | 6.25 | 7.22 | 8.30 | 9.45 | 10.70 | 11.90 | 12.90 | 13.70 | 14.00 | TGE 20 | 20 |
| | 6.02 | 7.00 | 8.10 | 9.28 | 10.50 | 11.80 | 13.00 | 14.10 | 14.90 | 15.30 | 15.10 | TGE 20 | 21 |
| | 6.02 | 7.05 | 8.23 | 9.58 | 11.10 | 12.80 | 14.60 | 16.40 | 18.10 | 19.50 | 20.30 | TGE 40 | 26 |
| | 6.85 | 8.03 | 9.38 | 10.90 | 12.70 | 14.60 | 16.60 | 18.70 | 20.60 | 22.20 | 23.10 | TGE 40 | 30 |
| | 8.29 | 9.69 | 11.30 | 13.10 | 15.20 | 17.60 | 20.20 | 22.80 | 25.40 | 27.40 | 28.40 | TGE 40 | 40 |
| | 11.60 | 13.40 | 15.40 | 17.60 | 20.00 | 22.50 | 24.90 | 27.10 | 28.90 | 29.90 | 29.90 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 115 | 0.68 | 0.79 | 0.91 | 1.04 | 1.19 | 1.35 | 1.52 | 1.70 | 1.88 | 2.04 | 2.16 | TGE 10 | 3 |
| | 0.92 | 1.06 | 1.23 | 1.41 | 1.61 | 1.83 | 2.06 | 2.31 | 2.55 | 2.77 | 2.95 | TGE 10 | 4 |
| | 1.35 | 1.56 | 1.81 | 2.08 | 2.37 | 2.70 | 3.05 | 3.42 | 3.78 | 4.10 | 4.36 | TGE 10 | 6 |
| | 1.83 | 2.12 | 2.45 | 2.82 | 3.22 | 3.66 | 4.13 | 4.62 | 5.09 | 5.52 | 5.85 | TGE 10 | 8 |
| | 2.14 | 2.48 | 2.86 | 3.29 | 3.78 | 4.30 | 4.86 | 5.43 | 5.98 | 6.47 | 6.87 | TGE 10 | 9 |
| | 2.66 | 3.11 | 3.61 | 4.18 | 4.80 | 5.47 | 6.18 | 6.87 | 7.51 | 8.02 | 8.33 | TGE 10 | 11 |
| | 2.83 | 3.31 | 3.85 | 4.48 | 5.20 | 6.00 | 6.88 | 7.83 | 8.79 | 9.72 | 10.50 | TGE 20 | 12.5 |
| | 3.50 | 4.10 | 4.79 | 5.58 | 6.48 | 7.50 | 8.62 | 9.83 | 11.10 | 12.30 | 13.30 | TGE 20 | 16 |
| | 4.30 | 5.05 | 5.89 | 6.85 | 7.92 | 9.10 | 10.40 | 11.80 | 13.20 | 14.50 | 15.60 | TGE 20 | 20 |
| | 5.88 | 6.88 | 8.00 | 9.25 | 10.60 | 12.00 | 13.40 | 14.80 | 16.00 | 16.90 | 17.50 | TGE 20 | 21 |
| | 5.53 | 6.49 | 7.61 | 8.90 | 10.40 | 12.00 | 13.90 | 15.90 | 18.10 | 20.10 | 22.00 | TGE 40 | 26 |
| | 6.26 | 7.36 | 8.64 | 10.10 | 11.80 | 13.70 | 15.80 | 18.10 | 20.50 | 22.90 | 24.90 | TGE 40 | 30 |
| | 7.59 | 8.90 | 10.40 | 12.20 | 14.20 | 16.60 | 19.30 | 22.40 | 25.60 | 28.90 | 31.60 | TGE 40 | 40 |
| | 11.50 | 13.30 | 15.40 | 17.80 | 20.40 | 23.10 | 25.90 | 28.70 | 31.20 | 33.30 | 34.80 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 135 | 0.65 | 0.75 | 0.87 | 1.00 | 1.14 | 1.31 | 1.48 | 1.67 | 1.87 | 2.06 | 2.25 | TGE 10 | 3 |
| | 0.86 | 1.00 | 1.16 | 1.34 | 1.53 | 1.75 | 2.00 | 2.26 | 2.52 | 2.79 | 3.04 | TGE 10 | 4 |
| | 1.25 | 1.45 | 1.68 | 1.94 | 2.24 | 2.56 | 2.92 | 3.30 | 3.70 | 4.10 | 4.46 | TGE 10 | 6 |
| | 1.67 | 1.95 | 2.26 | 2.61 | 3.00 | 3.44 | 3.92 | 4.43 | 4.96 | 5.48 | 5.96 | TGE 10 | 8 |
| | 1.92 | 2.24 | 2.60 | 3.02 | 3.49 | 4.02 | 4.60 | 5.21 | 5.83 | 6.44 | 7.01 | TGE 10 | 9 |
| | 2.41 | 2.83 | 3.32 | 3.87 | 4.49 | 5.18 | 5.92 | 6.70 | 7.46 | 8.16 | 8.71 | TGE 10 | 11 |
| | 2.62 | 3.06 | 3.56 | 4.14 | 4.81 | 5.56 | 6.41 | 7.35 | 8.35 | 9.39 | 10.40 | TGE 20 | 12.5 |
| | 3.21 | 3.75 | 4.37 | 5.10 | 5.93 | 6.88 | 7.96 | 9.14 | 10.40 | 11.80 | 13.10 | TGE 20 | 16 |
| | 3.91 | 4.59 | 5.37 | 6.24 | 7.24 | 8.35 | 9.60 | 11.00 | 12.40 | 14.00 | 15.40 | TGE 20 | 20 |
| | 5.51 | 6.48 | 7.59 | 8.84 | 10.20 | 11.70 | 13.20 | 14.70 | 16.10 | 17.40 | 18.40 | TGE 20 | 21 |
| | 4.90 | 5.76 | 6.76 | 7.92 | 9.27 | 10.80 | 12.60 | 14.50 | 16.70 | 18.90 | 21.20 | TGE 40 | 26 |
| | 5.51 | 6.49 | 7.63 | 8.95 | 10.50 | 12.20 | 14.20 | 16.50 | 18.90 | 21.50 | 24.00 | TGE 40 | 30 |
| | 6.67 | 7.84 | 9.20 | 10.80 | 12.60 | 14.80 | 17.40 | 20.40 | 23.80 | 27.50 | 31.20 | TGE 40 | 40 |
| | 11.00 | 12.90 | 15.00 | 17.30 | 20.00 | 22.80 | 25.80 | 28.90 | 31.80 | 34.50 | 36.90 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [°F] | 2 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.91 | 1.00 | 1.05 | 1.14 | 1.23 | 1.32 | 1.41 | 1.50 | 1.58 | 1.67 | 1.76 |

Distributor correction factor (fp)*

| Evaporating temp. [°F] | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [psi] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 15 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.90 | 0.89 | 0.86 |
| | 22 | 0.88 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.84 | 0.82 | 0.80 | 0.76 |
| | 30 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.79 | 0.75 | 0.70 |

*calculated at 90°F condensing temperature

Capacity in kW. Range N: -40 °C to +10 °C. Opening superheat sh= 4 K

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 25 | 4.76 | 5.37 | 5.99 | 6.63 | 7.27 | 7.87 | 8.42 | 8.87 | 9.14 | 9.17 | 8.85 | 8.03 | TGE 10 | 3 |
| | 6.47 | 7.29 | 8.15 | 9.02 | 9.90 | 10.70 | 11.50 | 12.10 | 12.50 | 12.60 | 12.10 | 11.00 | TGE 10 | 4 |
| | 9.60 | 10.80 | 12.10 | 13.40 | 14.70 | 16.00 | 17.10 | 18.00 | 18.60 | 18.60 | 18.00 | 16.30 | TGE 10 | 6 |
| | 13.10 | 14.80 | 16.50 | 18.20 | 20.00 | 21.60 | 23.10 | 24.30 | 25.00 | 25.00 | 24.00 | 21.60 | TGE 10 | 8 |
| | 15.30 | 17.30 | 19.40 | 21.50 | 23.60 | 25.60 | 27.50 | 28.90 | 29.90 | 30.00 | 28.90 | 26.00 | TGE 10 | 9 |
| | 19.50 | 22.00 | 24.50 | 27.10 | 29.50 | 31.60 | 33.40 | 34.60 | 35.00 | 34.40 | 32.40 | 28.70 | TGE 10 | 11 |
| | 18.50 | 21.00 | 23.70 | 26.60 | 29.60 | 32.60 | 35.40 | 37.90 | 39.70 | 40.50 | 39.70 | 36.50 | TGE 20 | 12.5 |
| | 23.20 | 26.40 | 29.90 | 33.60 | 37.40 | 41.30 | 45.00 | 48.30 | 51.00 | 52.00 | 51.00 | 47.00 | TGE 20 | 16 |
| | 28.70 | 32.50 | 36.60 | 40.90 | 45.30 | 49.60 | 54.00 | 57.00 | 60.00 | 60.00 | 59.00 | 54.00 | TGE 20 | 20 |
| | 36.60 | 41.20 | 45.90 | 51.00 | 55.00 | 60.00 | 63.00 | 66.00 | 67.00 | 66.00 | 63.00 | 56.00 | TGE 20 | 21 |
| | 39.20 | 45.00 | 51.00 | 58.00 | 65.00 | 71.00 | 78.00 | 84.00 | 89.00 | 92.00 | 91.00 | 84.00 | TGE 40 | 26 |
| | 44.80 | 51.00 | 58.00 | 66.00 | 74.00 | 81.00 | 89.00 | 96.00 | 101.00 | 104.00 | 103.00 | 95.00 | TGE 40 | 30 |
| | 54.00 | 62.00 | 70.00 | 79.00 | 89.00 | 99.00 | 109.00 | 118.00 | 125.00 | 128.00 | 125.00 | 114.00 | TGE 40 | 40 |
| | 73.00 | 82.00 | 91.00 | 101.00 | 111.00 | 120.00 | 127.00 | 133.00 | 136.00 | 136.00 | 129.00 | 115.00 | TGE 40 | 42 |
| 35 | 4.68 | 5.31 | 5.98 | 6.68 | 7.40 | 8.13 | 8.84 | 9.51 | 10.10 | 10.50 | 10.70 | 10.70 | TGE 10 | 3 |
| | 6.32 | 7.17 | 8.08 | 9.03 | 10.00 | 11.00 | 12.00 | 12.90 | 13.70 | 14.30 | 14.70 | 14.50 | TGE 10 | 4 |
| | 9.30 | 10.60 | 11.90 | 13.30 | 14.80 | 16.30 | 17.70 | 19.10 | 20.30 | 21.20 | 21.60 | 21.40 | TGE 10 | 6 |
| | 12.60 | 14.30 | 16.10 | 18.00 | 20.00 | 21.90 | 23.80 | 25.60 | 27.10 | 28.20 | 28.70 | 28.40 | TGE 10 | 8 |
| | 14.80 | 16.80 | 19.00 | 21.20 | 23.60 | 25.90 | 28.20 | 30.30 | 32.10 | 33.40 | 34.10 | 33.90 | TGE 10 | 9 |
| | 18.80 | 21.40 | 24.20 | 27.00 | 29.80 | 32.50 | 35.10 | 37.20 | 38.80 | 39.70 | 39.60 | 38.30 | TGE 10 | 11 |
| | 17.70 | 20.20 | 23.00 | 26.00 | 29.20 | 32.60 | 36.00 | 39.40 | 42.60 | 45.20 | 46.90 | 47.20 | TGE 20 | 12.5 |
| | 22.10 | 25.30 | 28.80 | 32.60 | 36.70 | 41.00 | 45.50 | 49.90 | 54.00 | 57.00 | 60.00 | 60.00 | TGE 20 | 16 |
| | 27.30 | 31.10 | 35.30 | 39.70 | 44.50 | 49.40 | 54.00 | 59.00 | 64.00 | 67.00 | 70.00 | 70.00 | TGE 20 | 20 |
| | 36.40 | 41.20 | 46.30 | 52.00 | 57.00 | 62.00 | 67.00 | 71.00 | 74.00 | 76.00 | 76.00 | 75.00 | TGE 20 | 21 |
| | 36.80 | 42.50 | 48.60 | 55.00 | 62.00 | 70.00 | 78.00 | 85.00 | 93.00 | 99.00 | 104.00 | 106.00 | TGE 40 | 26 |
| | 41.90 | 48.30 | 55.00 | 63.00 | 71.00 | 79.00 | 88.00 | 97.00 | 106.00 | 113.00 | 118.00 | 120.00 | TGE 40 | 30 |
| | 50.00 | 58.00 | 66.00 | 76.00 | 86.00 | 97.00 | 109.00 | 121.00 | 132.00 | 141.00 | 147.00 | 148.00 | TGE 40 | 40 |
| | 73.00 | 83.00 | 93.00 | 104.00 | 115.00 | 125.00 | 135.00 | 144.00 | 151.00 | 156.00 | 157.00 | 155.00 | TGE 40 | 42 |
| 45 | 4.48 | 5.10 | 5.78 | 6.49 | 7.25 | 8.04 | 8.85 | 9.65 | 10.40 | 11.10 | 11.70 | 12.10 | TGE 10 | 3 |
| | 6.00 | 6.85 | 7.76 | 8.73 | 9.76 | 10.80 | 11.90 | 13.00 | 14.10 | 15.10 | 15.90 | 16.40 | TGE 10 | 4 |
| | 8.73 | 9.99 | 11.30 | 12.80 | 14.30 | 15.90 | 17.50 | 19.10 | 20.70 | 22.10 | 23.20 | 24.00 | TGE 10 | 6 |
| | 11.70 | 13.40 | 15.20 | 17.10 | 19.20 | 21.30 | 23.40 | 25.50 | 27.60 | 29.40 | 30.80 | 31.60 | TGE 10 | 8 |
| | 13.80 | 15.80 | 17.90 | 20.30 | 22.70 | 25.20 | 27.70 | 30.20 | 32.50 | 34.50 | 36.20 | 37.40 | TGE 10 | 9 |
| | 17.50 | 20.10 | 23.00 | 25.90 | 29.00 | 32.00 | 35.00 | 37.80 | 40.30 | 42.20 | 43.40 | 43.60 | TGE 10 | 11 |
| | 16.50 | 18.90 | 21.60 | 24.50 | 27.70 | 31.10 | 34.80 | 38.60 | 42.40 | 46.00 | 49.20 | 52.00 | TGE 20 | 12.5 |
| | 20.50 | 23.50 | 26.80 | 30.50 | 34.50 | 38.90 | 43.60 | 48.50 | 53.00 | 58.00 | 62.00 | 66.00 | TGE 20 | 16 |
| | 25.30 | 28.90 | 32.90 | 37.20 | 41.90 | 47.00 | 52.00 | 58.00 | 63.00 | 69.00 | 73.00 | 77.00 | TGE 20 | 20 |
| | 35.00 | 39.90 | 45.10 | 51.00 | 56.00 | 62.00 | 67.00 | 72.00 | 77.00 | 80.00 | 83.00 | 84.00 | TGE 20 | 21 |
| | 33.50 | 38.80 | 44.60 | 51.00 | 58.00 | 65.00 | 73.00 | 82.00 | 90.00 | 99.00 | 107.00 | 113.00 | TGE 40 | 26 |
| | 37.90 | 44.00 | 51.00 | 58.00 | 66.00 | 74.00 | 83.00 | 93.00 | 102.00 | 112.00 | 121.00 | 128.00 | TGE 40 | 30 |
| | 45.80 | 53.00 | 61.00 | 70.00 | 80.00 | 91.00 | 103.00 | 116.00 | 130.00 | 143.00 | 155.00 | 163.00 | TGE 40 | 40 |
| | 72.00 | 81.00 | 92.00 | 103.00 | 114.00 | 126.00 | 138.00 | 148.00 | 158.00 | 166.00 | 172.00 | 175.00 | TGE 40 | 42 |
| 55 | 4.16 | 4.77 | 5.42 | 6.12 | 6.87 | 7.66 | 8.49 | 9.34 | 10.20 | 11.00 | 11.80 | 12.40 | TGE 10 | 3 |
| | 5.54 | 6.35 | 7.23 | 8.17 | 9.19 | 10.30 | 11.40 | 12.50 | 13.70 | 14.90 | 15.90 | 16.80 | TGE 10 | 4 |
| | 7.97 | 9.15 | 10.40 | 11.80 | 13.30 | 14.90 | 16.50 | 18.20 | 19.90 | 21.60 | 23.10 | 24.40 | TGE 10 | 6 |
| | 10.60 | 12.20 | 13.90 | 15.80 | 17.70 | 19.80 | 22.00 | 24.20 | 26.40 | 28.60 | 30.50 | 32.20 | TGE 10 | 8 |
| | 12.30 | 14.20 | 16.30 | 18.60 | 21.00 | 23.50 | 26.10 | 28.70 | 31.30 | 33.70 | 35.90 | 37.90 | TGE 10 | 9 |
| | 15.70 | 18.30 | 21.10 | 24.00 | 27.10 | 30.20 | 33.40 | 36.60 | 39.50 | 42.10 | 44.20 | 45.50 | TGE 10 | 11 |
| | 15.00 | 17.20 | 19.70 | 22.40 | 25.30 | 28.60 | 32.20 | 35.90 | 39.90 | 43.90 | 47.80 | 51.00 | TGE 20 | 12.5 |
| | 18.50 | 21.20 | 24.30 | 27.60 | 31.40 | 35.50 | 40.00 | 44.80 | 49.90 | 55.00 | 60.00 | 65.00 | TGE 20 | 16 |
| | 22.70 | 26.10 | 29.70 | 33.80 | 38.20 | 43.00 | 48.10 | 54.00 | 59.00 | 65.00 | 71.00 | 76.00 | TGE 20 | 20 |
| | 32.60 | 37.40 | 42.50 | 48.00 | 54.00 | 60.00 | 65.00 | 71.00 | 76.00 | 81.00 | 85.00 | 88.00 | TGE 20 | 21 |
| | 29.50 | 34.30 | 39.60 | 45.40 | 52.00 | 59.00 | 66.00 | 74.00 | 83.00 | 92.00 | 101.00 | 110.00 | TGE 40 | 26 |
| | 33.30 | 38.70 | 44.70 | 51.00 | 59.00 | 66.00 | 75.00 | 84.00 | 94.00 | 104.00 | 114.00 | 124.00 | TGE 40 | 30 |
| | 40.30 | 46.50 | 54.00 | 62.00 | 71.00 | 81.00 | 93.00 | 106.00 | 120.00 | 135.00 | 150.00 | 163.00 | TGE 40 | 40 |
| | 68.00 | 77.00 | 88.00 | 99.00 | 111.00 | 123.00 | 135.00 | 147.00 | 158.00 | 168.00 | 177.00 | 183.00 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.98 | 1.00 | 1.07 | 1.12 | 1.17 | 1.23 | 1.28 | 1.33 | 1.39 | 1.44 | 1.49 |

Distributor correction factor (fp)*

| Pressure drop [bar] | Evaporating temp. [°C] | | | | | | | | | | | | |
|---------------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | |
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.89 | 0.87 |
| 1.5 | 0.92 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.86 | 0.84 | 0.79 | |
| 2 | 0.90 | 0.89 | 0.89 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.83 | 0.81 | 0.77 | 0.71 | |

*calculated at 32 °C condensing temperature

Capacity in TR. Range N: -40°F to +50°F. Opening superheat sh= 7.2 °F

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 75 | 1.27 | 1.48 | 1.70 | 1.93 | 2.15 | 2.36 | 2.53 | 2.65 | 2.68 | 2.57 | 2.26 | TGE 10 | 3 |
| | 1.72 | 2.01 | 2.31 | 2.62 | 2.93 | 3.21 | 3.45 | 3.61 | 3.65 | 3.51 | 3.09 | TGE 10 | 4 |
| | 2.54 | 2.97 | 3.42 | 3.88 | 4.34 | 4.76 | 5.12 | 5.35 | 5.41 | 5.19 | 4.55 | TGE 10 | 6 |
| | 3.45 | 4.03 | 4.64 | 5.26 | 5.87 | 6.42 | 6.88 | 7.17 | 7.20 | 6.87 | 5.99 | TGE 10 | 8 |
| | 4.04 | 4.73 | 5.45 | 6.19 | 6.92 | 7.59 | 8.15 | 8.52 | 8.58 | 8.20 | 7.12 | TGE 10 | 9 |
| | 5.12 | 6.03 | 6.95 | 7.85 | 8.68 | 9.37 | 9.84 | 10.00 | 9.84 | 9.19 | 7.92 | TGE 10 | 11 |
| | 4.79 | 5.66 | 6.61 | 7.63 | 8.69 | 9.74 | 10.70 | 11.40 | 11.80 | 11.50 | 10.40 | TGE 20 | 12.5 |
| | 6.01 | 7.10 | 8.31 | 9.61 | 11.00 | 12.30 | 13.60 | 14.50 | 15.00 | 14.80 | 13.30 | TGE 20 | 16 |
| | 7.43 | 8.74 | 10.20 | 11.70 | 13.20 | 14.70 | 16.10 | 17.10 | 17.50 | 16.90 | 15.00 | TGE 20 | 20 |
| | 9.71 | 11.30 | 13.00 | 14.70 | 16.20 | 17.60 | 18.60 | 19.20 | 19.00 | 17.80 | 15.20 | TGE 20 | 21 |
| | 10.10 | 12.00 | 14.10 | 16.40 | 18.80 | 21.30 | 23.60 | 25.40 | 26.40 | 25.90 | 23.20 | TGE 40 | 26 |
| | 11.50 | 13.60 | 16.00 | 18.70 | 21.40 | 24.20 | 26.80 | 28.90 | 30.00 | 29.40 | 26.30 | TGE 40 | 30 |
| | 13.80 | 16.40 | 19.30 | 22.60 | 26.10 | 29.70 | 33.00 | 35.60 | 36.80 | 35.70 | 31.20 | TGE 40 | 40 |
| 19.40 | 22.60 | 26.00 | 29.30 | 32.60 | 35.50 | 37.80 | 39.10 | 39.00 | 36.70 | 31.40 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 95 | 1.25 | 1.47 | 1.70 | 1.95 | 2.21 | 2.47 | 2.71 | 2.93 | 3.10 | 3.19 | 3.18 | TGE 10 | 3 |
| | 1.67 | 1.97 | 2.29 | 2.63 | 2.98 | 3.34 | 3.68 | 3.98 | 4.21 | 4.34 | 4.32 | TGE 10 | 4 |
| | 2.44 | 2.88 | 3.35 | 3.85 | 4.38 | 4.90 | 5.40 | 5.84 | 6.18 | 6.37 | 6.32 | TGE 10 | 6 |
| | 3.28 | 3.87 | 4.51 | 5.18 | 5.87 | 6.56 | 7.21 | 7.78 | 8.21 | 8.41 | 8.30 | TGE 10 | 8 |
| | 3.81 | 4.51 | 5.27 | 6.06 | 6.89 | 7.72 | 8.52 | 9.22 | 9.77 | 10.10 | 9.97 | TGE 10 | 9 |
| | 4.86 | 5.80 | 6.80 | 7.84 | 8.85 | 9.80 | 10.60 | 11.20 | 11.50 | 11.50 | 11.10 | TGE 10 | 11 |
| | 4.58 | 5.42 | 6.36 | 7.41 | 8.56 | 9.76 | 11.00 | 12.10 | 13.10 | 13.80 | 14.00 | TGE 20 | 12.5 |
| | 5.68 | 6.74 | 7.93 | 9.26 | 10.70 | 12.30 | 13.80 | 15.30 | 16.60 | 17.60 | 17.90 | TGE 20 | 16 |
| | 7.01 | 8.29 | 9.71 | 11.30 | 12.90 | 14.70 | 16.50 | 18.10 | 19.50 | 20.40 | 20.50 | TGE 20 | 20 |
| | 9.56 | 11.30 | 13.10 | 14.90 | 16.80 | 18.50 | 20.10 | 21.40 | 22.30 | 22.50 | 21.80 | TGE 20 | 21 |
| | 9.26 | 11.10 | 13.10 | 15.40 | 17.90 | 20.60 | 23.50 | 26.20 | 28.70 | 30.50 | 31.20 | TGE 20 | 26 |
| | 10.50 | 12.60 | 14.90 | 17.50 | 20.40 | 23.40 | 26.60 | 29.70 | 32.50 | 34.50 | 35.30 | TGE 40 | 30 |
| | 12.60 | 15.10 | 18.00 | 21.20 | 24.90 | 29.00 | 33.30 | 37.50 | 41.20 | 43.60 | 43.80 | TGE 40 | 40 |
| 19.40 | 22.80 | 26.50 | 30.20 | 34.10 | 37.80 | 41.20 | 44.10 | 46.00 | 46.60 | 45.40 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 115 | 1.18 | 1.40 | 1.63 | 1.89 | 2.16 | 2.44 | 2.72 | 3.00 | 3.25 | 3.46 | 3.61 | TGE 10 | 3 |
| | 1.57 | 1.86 | 2.18 | 2.52 | 2.89 | 3.27 | 3.66 | 4.04 | 4.39 | 4.68 | 4.88 | TGE 10 | 4 |
| | 2.25 | 2.68 | 3.15 | 3.65 | 4.19 | 4.75 | 5.32 | 5.87 | 6.38 | 6.80 | 7.08 | TGE 10 | 6 |
| | 2.99 | 3.56 | 4.19 | 4.86 | 5.57 | 6.31 | 7.06 | 7.78 | 8.43 | 8.94 | 9.27 | TGE 10 | 8 |
| | 3.45 | 4.12 | 4.86 | 5.65 | 6.50 | 7.39 | 8.29 | 9.17 | 9.98 | 10.70 | 11.10 | TGE 10 | 9 |
| | 4.41 | 5.34 | 6.35 | 7.42 | 8.54 | 9.63 | 10.70 | 11.60 | 12.20 | 12.60 | 12.70 | TGE 10 | 11 |
| | 4.22 | 5.00 | 5.88 | 6.88 | 7.99 | 9.21 | 10.50 | 11.80 | 13.10 | 14.30 | 15.20 | TGE 20 | 12.5 |
| | 5.18 | 6.15 | 7.26 | 8.51 | 9.91 | 11.50 | 13.10 | 14.80 | 16.50 | 18.00 | 19.20 | TGE 20 | 16 |
| | 6.37 | 7.55 | 8.88 | 10.40 | 12.00 | 13.80 | 15.70 | 17.60 | 19.50 | 21.20 | 22.40 | TGE 20 | 20 |
| | 9.08 | 10.80 | 12.60 | 14.50 | 16.50 | 18.50 | 20.40 | 22.10 | 23.60 | 24.60 | 25.00 | TGE 20 | 21 |
| | 8.22 | 9.85 | 11.70 | 13.80 | 16.20 | 18.80 | 21.70 | 24.70 | 27.70 | 30.60 | 33.00 | TGE 40 | 26 |
| | 9.26 | 11.10 | 13.20 | 15.60 | 18.30 | 21.30 | 24.60 | 28.00 | 31.40 | 34.60 | 37.20 | TGE 40 | 30 |
| | 11.10 | 13.40 | 16.00 | 19.00 | 22.50 | 26.50 | 31.00 | 35.90 | 40.80 | 45.30 | 48.70 | TGE 40 | 40 |
| 18.90 | 22.30 | 26.00 | 29.90 | 34.00 | 38.10 | 42.20 | 45.90 | 49.10 | 51.00 | 53.00 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 135 | 1.08 | 1.28 | 1.51 | 1.75 | 2.02 | 2.30 | 2.59 | 2.88 | 3.17 | 3.44 | 3.67 | TGE 10 | 3 |
| | 1.42 | 1.69 | 1.99 | 2.32 | 2.68 | 3.06 | 3.45 | 3.85 | 4.25 | 4.61 | 4.93 | TGE 10 | 4 |
| | 2.00 | 2.40 | 2.83 | 3.31 | 3.83 | 4.38 | 4.95 | 5.54 | 6.11 | 6.64 | 7.10 | TGE 10 | 6 |
| | 2.62 | 3.15 | 3.73 | 4.36 | 5.04 | 5.77 | 6.52 | 7.28 | 8.02 | 8.69 | 9.25 | TGE 10 | 8 |
| | 2.99 | 3.61 | 4.29 | 5.04 | 5.85 | 6.71 | 7.61 | 8.53 | 9.44 | 10.30 | 11.00 | TGE 10 | 9 |
| | 3.83 | 4.69 | 5.65 | 6.70 | 7.81 | 8.95 | 10.10 | 11.10 | 12.00 | 12.70 | 13.20 | TGE 10 | 11 |
| | 3.76 | 4.45 | 5.24 | 6.14 | 7.15 | 8.28 | 9.51 | 10.80 | 12.20 | 13.50 | 14.70 | TGE 20 | 12.5 |
| | 4.57 | 5.42 | 6.40 | 7.52 | 8.78 | 10.20 | 11.70 | 13.40 | 15.10 | 16.80 | 18.50 | TGE 20 | 16 |
| | 5.59 | 6.63 | 7.81 | 9.14 | 10.60 | 12.30 | 14.10 | 16.00 | 18.00 | 19.90 | 21.70 | TGE 20 | 20 |
| | 8.33 | 9.96 | 11.70 | 13.60 | 15.50 | 17.60 | 19.60 | 21.50 | 23.30 | 24.80 | 25.80 | TGE 20 | 21 |
| | 7.04 | 8.46 | 10.10 | 11.90 | 14.00 | 16.40 | 19.00 | 21.80 | 24.80 | 27.90 | 30.90 | TGE 40 | 26 |
| | 7.89 | 9.50 | 11.30 | 13.40 | 15.80 | 18.50 | 21.40 | 24.60 | 28.00 | 31.50 | 34.80 | TGE 40 | 30 |
| | 9.42 | 11.30 | 13.60 | 16.20 | 19.30 | 22.90 | 27.00 | 31.80 | 36.90 | 42.20 | 47.10 | TGE 40 | 40 |
| 17.80 | 21.10 | 24.70 | 28.50 | 32.60 | 36.80 | 41.10 | 45.20 | 49.00 | 52.00 | 54.00 | TGE 40 | 42 | |

Subcooling correction factor 'fsub'

| Subcooling [°F] | 2 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.91 | 1.00 | 1.05 | 1.14 | 1.23 | 1.31 | 1.40 | 1.48 | 1.57 | 1.65 | 1.73 |

Distributor correction factor (fp)*

| Evaporating temp. [°F] | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [psi] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.89 | 0.86 |
| 22 | 0.91 | 0.91 | 0.91 | 0.90 | 0.90 | 0.89 | 0.88 | 0.86 | 0.84 | 0.81 | 0.75 |
| 30 | 0.89 | 0.89 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.83 | 0.81 | 0.77 | 0.69 |

*calculated at 90°F condensing temperature

Capacity in kW. Range N: -40 °C to +10 °C. Opening superheat sh= 4 K

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 25 | 3.13 | 3.57 | 4.03 | 4.51 | 5.00 | 5.48 | 5.92 | 6.28 | 6.53 | 6.59 | 6.41 | 5.88 | TGE 10 | 3 |
| | 4.24 | 4.84 | 5.47 | 6.13 | 6.80 | 7.46 | 8.06 | 8.57 | 8.92 | 9.02 | 8.77 | 8.04 | TGE 10 | 4 |
| | 6.27 | 7.16 | 8.10 | 9.08 | 10.10 | 11.10 | 12.00 | 12.70 | 13.20 | 13.40 | 13.00 | 11.90 | TGE 10 | 6 |
| | 8.54 | 9.74 | 11.00 | 12.30 | 13.70 | 15.00 | 16.20 | 17.10 | 17.80 | 17.90 | 17.30 | 15.80 | TGE 10 | 8 |
| | 10.00 | 11.40 | 12.90 | 14.40 | 16.00 | 17.60 | 19.00 | 20.20 | 21.00 | 21.30 | 20.70 | 19.00 | TGE 10 | 9 |
| | 12.70 | 14.50 | 16.40 | 18.30 | 20.20 | 21.90 | 23.50 | 24.60 | 25.10 | 24.80 | 23.50 | 21.00 | TGE 10 | 11 |
| | 12.90 | 14.90 | 17.10 | 19.40 | 21.90 | 24.40 | 26.80 | 28.90 | 30.50 | 31.30 | 30.80 | 28.60 | TGE 20 | 12.5 |
| | 16.20 | 18.70 | 21.40 | 24.40 | 27.60 | 30.80 | 33.90 | 36.70 | 38.90 | 40.00 | 39.50 | 36.70 | TGE 20 | 16 |
| | 19.90 | 22.90 | 26.10 | 29.60 | 33.20 | 36.80 | 40.30 | 43.30 | 45.40 | 46.30 | 45.20 | 41.50 | TGE 20 | 20 |
| | 26.20 | 29.80 | 33.60 | 37.40 | 41.20 | 44.70 | 47.60 | 49.70 | 51.00 | 50.00 | 47.80 | 42.60 | TGE 20 | 21 |
| | 26.30 | 30.30 | 34.70 | 39.60 | 44.80 | 50.00 | 55.00 | 60.00 | 64.00 | 67.00 | 67.00 | 63.00 | TGE 40 | 26 |
| | 30.00 | 34.50 | 39.60 | 45.10 | 51.00 | 57.00 | 63.00 | 68.00 | 73.00 | 76.00 | 76.00 | 71.00 | TGE 40 | 30 |
| 36.00 | 41.60 | 47.80 | 55.00 | 62.00 | 70.00 | 78.00 | 85.00 | 90.00 | 93.00 | 92.00 | 84.00 | TGE 40 | 40 | |
| 51.00 | 58.00 | 65.00 | 72.00 | 80.00 | 87.00 | 93.00 | 98.00 | 101.00 | 100.00 | 96.00 | 86.00 | TGE 40 | 42 | |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 35 | 2.91 | 3.35 | 3.83 | 4.34 | 4.87 | 5.43 | 5.98 | 6.51 | 6.97 | 7.33 | 7.52 | 7.50 | TGE 10 | 3 |
| | 3.92 | 4.51 | 5.16 | 5.85 | 6.58 | 7.34 | 8.10 | 8.82 | 9.47 | 9.97 | 10.20 | 10.20 | TGE 10 | 4 |
| | 5.74 | 6.62 | 7.57 | 8.59 | 9.67 | 10.80 | 11.90 | 13.00 | 13.90 | 14.70 | 15.10 | 15.00 | TGE 10 | 6 |
| | 7.75 | 8.94 | 10.20 | 11.60 | 13.00 | 14.50 | 16.00 | 17.40 | 18.60 | 19.50 | 20.00 | 19.80 | TGE 10 | 8 |
| | 9.23 | 10.60 | 12.10 | 13.60 | 15.30 | 17.00 | 18.70 | 20.30 | 21.70 | 22.80 | 23.40 | 23.50 | TGE 10 | 9 |
| | 11.50 | 13.40 | 15.30 | 17.40 | 19.50 | 21.60 | 23.60 | 25.40 | 26.80 | 27.70 | 27.80 | 26.90 | TGE 10 | 11 |
| | 11.70 | 13.60 | 15.70 | 18.00 | 20.50 | 23.20 | 26.00 | 28.80 | 31.40 | 33.50 | 35.00 | 35.30 | TGE 20 | 12.5 |
| | 14.50 | 16.90 | 19.50 | 22.50 | 25.60 | 29.10 | 32.70 | 36.20 | 39.60 | 42.50 | 44.40 | 45.00 | TGE 20 | 16 |
| | 17.80 | 20.70 | 23.80 | 27.20 | 31.00 | 34.90 | 39.00 | 43.00 | 46.70 | 49.70 | 51.00 | 52.00 | TGE 20 | 20 |
| | 24.70 | 28.40 | 32.30 | 36.30 | 40.50 | 44.50 | 48.20 | 51.00 | 54.00 | 55.00 | 56.00 | 54.00 | TGE 20 | 21 |
| | 23.70 | 27.50 | 31.80 | 36.50 | 41.70 | 47.20 | 53.00 | 58.00 | 64.00 | 68.00 | 72.00 | 74.00 | TGE 40 | 26 |
| | 27.00 | 31.30 | 36.10 | 41.50 | 47.40 | 54.00 | 60.00 | 66.00 | 72.00 | 78.00 | 82.00 | 84.00 | TGE 40 | 30 |
| | 31.90 | 37.10 | 43.00 | 49.60 | 57.00 | 65.00 | 74.00 | 83.00 | 92.00 | 100.00 | 104.00 | 105.00 | TGE 40 | 40 |
| | 48.50 | 55.00 | 63.00 | 71.00 | 79.00 | 87.00 | 95.00 | 102.00 | 107.00 | 111.00 | 112.00 | 111.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 45 | 2.57 | 2.99 | 3.44 | 3.94 | 4.47 | 5.04 | 5.64 | 6.24 | 6.83 | 7.37 | 7.81 | 8.10 | TGE 10 | 3 |
| | 3.43 | 4.00 | 4.61 | 5.28 | 6.00 | 6.78 | 7.58 | 8.41 | 9.22 | 9.95 | 10.60 | 11.00 | TGE 10 | 4 |
| | 4.98 | 5.80 | 6.70 | 7.68 | 8.74 | 9.87 | 11.10 | 12.30 | 13.50 | 14.50 | 15.40 | 16.00 | TGE 10 | 6 |
| | 6.67 | 7.77 | 8.97 | 10.30 | 11.70 | 13.20 | 14.80 | 16.30 | 17.90 | 19.30 | 20.40 | 21.10 | TGE 10 | 8 |
| | 8.01 | 9.27 | 10.70 | 12.20 | 13.90 | 15.60 | 17.40 | 19.10 | 20.80 | 22.30 | 23.50 | 24.50 | TGE 10 | 9 |
| | 9.94 | 11.70 | 13.50 | 15.60 | 17.70 | 19.90 | 22.20 | 24.40 | 26.40 | 28.00 | 29.10 | 29.30 | TGE 10 | 11 |
| | 10.00 | 11.70 | 13.60 | 15.70 | 18.10 | 20.70 | 23.50 | 26.40 | 29.40 | 32.20 | 34.70 | 36.60 | TGE 20 | 12.5 |
| | 12.30 | 14.50 | 16.80 | 19.50 | 22.40 | 25.70 | 29.20 | 33.00 | 36.80 | 40.50 | 43.80 | 46.30 | TGE 20 | 16 |
| | 15.10 | 17.70 | 20.60 | 23.70 | 27.20 | 30.90 | 35.00 | 39.30 | 43.70 | 47.80 | 51.00 | 54.00 | TGE 20 | 20 |
| | 22.10 | 25.60 | 29.40 | 33.50 | 37.70 | 41.90 | 46.00 | 49.80 | 53.00 | 56.00 | 57.00 | 58.00 | TGE 20 | 21 |
| | 20.20 | 23.60 | 27.40 | 31.80 | 36.60 | 41.90 | 47.50 | 53.00 | 59.00 | 64.00 | 69.00 | 74.00 | TGE 40 | 26 |
| | 22.90 | 26.70 | 31.10 | 36.10 | 41.60 | 47.60 | 54.00 | 60.00 | 67.00 | 73.00 | 79.00 | 84.00 | TGE 40 | 30 |
| | 26.80 | 31.30 | 36.50 | 42.50 | 49.40 | 57.00 | 66.00 | 75.00 | 86.00 | 95.00 | 104.00 | 110.00 | TGE 40 | 40 |
| | 43.90 | 51.00 | 58.00 | 66.00 | 74.00 | 83.00 | 91.00 | 99.00 | 106.00 | 112.00 | 117.00 | 119.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 55 | 2.13 | 2.50 | 2.91 | 3.35 | 3.83 | 4.36 | 4.92 | 5.51 | 6.11 | 6.70 | 7.25 | 7.72 | TGE 10 | 3 |
| | 2.82 | 3.32 | 3.86 | 4.46 | 5.11 | 5.82 | 6.57 | 7.37 | 8.19 | 9.00 | 9.75 | 10.40 | TGE 10 | 4 |
| | 4.04 | 4.76 | 5.55 | 6.42 | 7.36 | 8.39 | 9.49 | 10.70 | 11.80 | 13.00 | 14.10 | 15.00 | TGE 10 | 6 |
| | 5.36 | 6.32 | 7.37 | 8.52 | 9.77 | 11.10 | 12.60 | 14.10 | 15.70 | 17.20 | 18.60 | 19.70 | TGE 10 | 8 |
| | 6.39 | 7.48 | 8.72 | 10.10 | 11.60 | 13.20 | 14.90 | 16.70 | 18.40 | 20.10 | 21.60 | 23.00 | TGE 10 | 9 |
| | 7.95 | 9.49 | 11.20 | 13.00 | 15.00 | 17.10 | 19.30 | 21.50 | 23.70 | 25.70 | 27.30 | 28.40 | TGE 10 | 11 |
| | 8.07 | 9.50 | 11.10 | 12.90 | 14.90 | 17.10 | 19.60 | 22.20 | 25.00 | 27.90 | 30.70 | 33.30 | TGE 20 | 12.5 |
| | 9.86 | 11.60 | 13.60 | 15.80 | 18.30 | 21.10 | 24.20 | 27.50 | 31.10 | 34.80 | 38.40 | 41.70 | TGE 20 | 16 |
| | 12.10 | 14.30 | 16.60 | 19.30 | 22.20 | 25.50 | 29.10 | 33.00 | 37.10 | 41.40 | 45.60 | 49.30 | TGE 20 | 20 |
| | 18.30 | 21.50 | 25.00 | 28.80 | 32.80 | 36.90 | 41.00 | 44.90 | 48.50 | 52.00 | 54.00 | 56.00 | TGE 20 | 21 |
| | 15.80 | 18.60 | 21.80 | 25.50 | 29.70 | 34.30 | 39.30 | 44.60 | 50.00 | 56.00 | 61.00 | 66.00 | TGE 40 | 26 |
| | 17.80 | 21.00 | 24.70 | 28.90 | 33.60 | 38.90 | 44.50 | 51.00 | 57.00 | 63.00 | 69.00 | 75.00 | TGE 40 | 30 |
| | 21.00 | 24.70 | 29.00 | 33.90 | 39.60 | 46.20 | 54.00 | 62.00 | 72.00 | 82.00 | 92.00 | 101.00 | TGE 40 | 40 |
| | 37.10 | 43.20 | 49.90 | 57.00 | 65.00 | 73.00 | 82.00 | 90.00 | 98.00 | 105.00 | 111.00 | 116.00 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.97 | 1.00 | 1.09 | 1.17 | 1.24 | 1.32 | 1.39 | 1.46 | 1.53 | 1.61 | 1.68 |

Distributor correction factor (fp)*

| Evaporating temp. [°C] | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| | Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.95 | 0.95 | 0.94 | 0.94 | 0.92 |
| | 1.5 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.88 |
| | 2 | 0.92 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.84 |

*calculated at 32 °C condensing temperature

US units R404A/R507

Capacity in TR. Range N: -40°F to +50°F. Opening superheat sh= 7.2 °F

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 75 | 0.89 | 1.03 | 1.18 | 1.33 | 1.48 | 1.62 | 1.74 | 1.82 | 1.84 | 1.77 | 1.57 | TGE 10 | 3 |
| | 1.21 | 1.40 | 1.60 | 1.81 | 2.01 | 2.21 | 2.37 | 2.49 | 2.52 | 2.42 | 2.15 | TGE 10 | 4 |
| | 1.79 | 2.07 | 2.37 | 2.68 | 2.99 | 3.28 | 3.53 | 3.69 | 3.74 | 3.59 | 3.18 | TGE 10 | 6 |
| | 2.44 | 2.82 | 3.22 | 3.64 | 4.05 | 4.43 | 4.76 | 4.97 | 5.00 | 4.79 | 4.21 | TGE 10 | 8 |
| | 2.87 | 3.30 | 3.77 | 4.26 | 4.75 | 5.21 | 5.60 | 5.87 | 5.96 | 5.75 | 5.05 | TGE 10 | 9 |
| | 3.63 | 4.20 | 4.79 | 5.39 | 5.96 | 6.46 | 6.84 | 7.02 | 6.93 | 6.49 | 5.58 | TGE 10 | 11 |
| | 3.70 | 4.33 | 5.03 | 5.77 | 6.55 | 7.31 | 7.99 | 8.51 | 8.74 | 8.53 | 7.65 | TGE 20 | 12.5 |
| | 4.63 | 5.43 | 6.32 | 7.27 | 8.26 | 9.24 | 10.10 | 10.80 | 11.20 | 10.90 | 9.85 | TGE 20 | 16 |
| | 5.69 | 6.65 | 7.69 | 8.79 | 9.92 | 11.00 | 12.00 | 12.70 | 12.90 | 12.50 | 11.10 | TGE 20 | 20 |
| | 7.47 | 8.60 | 9.79 | 11.00 | 12.10 | 13.10 | 13.80 | 14.20 | 14.10 | 13.20 | 11.20 | TGE 20 | 21 |
| | 7.54 | 8.81 | 10.20 | 11.80 | 13.40 | 15.10 | 16.60 | 17.90 | 18.70 | 18.60 | 16.90 | TGE 40 | 26 |
| | 8.59 | 10.00 | 11.70 | 13.40 | 15.30 | 17.20 | 18.90 | 20.40 | 21.20 | 21.10 | 19.20 | TGE 40 | 30 |
| | 10.30 | 12.10 | 14.10 | 16.30 | 18.70 | 21.10 | 23.40 | 25.20 | 26.00 | 25.40 | 22.50 | TGE 40 | 40 |
| | 14.50 | 16.60 | 18.90 | 21.30 | 23.50 | 25.60 | 27.20 | 28.10 | 28.00 | 26.40 | 22.60 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 95 | 0.83 | 0.97 | 1.12 | 1.28 | 1.45 | 1.63 | 1.80 | 1.95 | 2.07 | 2.14 | 2.12 | TGE 10 | 3 |
| | 1.11 | 1.30 | 1.51 | 1.73 | 1.96 | 2.20 | 2.44 | 2.65 | 2.82 | 2.91 | 2.89 | TGE 10 | 4 |
| | 1.63 | 1.91 | 2.21 | 2.54 | 2.89 | 3.24 | 3.59 | 3.90 | 4.14 | 4.28 | 4.25 | TGE 10 | 6 |
| | 2.20 | 2.58 | 2.98 | 3.42 | 3.88 | 4.35 | 4.81 | 5.21 | 5.52 | 5.67 | 5.61 | TGE 10 | 8 |
| | 2.62 | 3.05 | 3.52 | 4.03 | 4.57 | 5.11 | 5.62 | 6.08 | 6.43 | 6.64 | 6.65 | TGE 10 | 9 |
| | 3.28 | 3.85 | 4.47 | 5.13 | 5.80 | 6.46 | 7.06 | 7.54 | 7.84 | 7.88 | 7.60 | TGE 10 | 11 |
| | 3.31 | 3.91 | 4.59 | 5.34 | 6.16 | 7.03 | 7.92 | 8.75 | 9.46 | 9.92 | 10.00 | TGE 20 | 12.5 |
| | 4.11 | 4.87 | 5.72 | 6.67 | 7.70 | 8.81 | 9.95 | 11.00 | 12.00 | 12.60 | 12.80 | TGE 20 | 16 |
| | 5.05 | 5.96 | 6.97 | 8.08 | 9.28 | 10.50 | 11.80 | 13.00 | 14.00 | 14.60 | 14.60 | TGE 20 | 20 |
| | 7.01 | 8.17 | 9.41 | 10.70 | 12.00 | 13.20 | 14.30 | 15.20 | 15.70 | 15.80 | 15.40 | TGE 20 | 21 |
| | 6.73 | 7.93 | 9.30 | 10.80 | 12.50 | 14.30 | 16.10 | 17.80 | 19.30 | 20.40 | 21.10 | TGE 40 | 26 |
| | 7.65 | 9.01 | 10.60 | 12.30 | 14.20 | 16.20 | 18.30 | 20.20 | 21.90 | 23.20 | 23.80 | TGE 40 | 30 |
| | 9.05 | 10.70 | 12.60 | 14.80 | 17.20 | 19.90 | 22.80 | 25.60 | 28.10 | 29.60 | 29.90 | TGE 40 | 40 |
| | 13.80 | 16.00 | 18.40 | 20.90 | 23.50 | 26.00 | 28.30 | 30.20 | 31.40 | 31.90 | 31.30 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 115 | 0.72 | 0.85 | 0.99 | 1.15 | 1.32 | 1.51 | 1.70 | 1.89 | 2.06 | 2.21 | 2.31 | TGE 10 | 3 |
| | 0.96 | 1.13 | 1.33 | 1.54 | 1.77 | 2.02 | 2.28 | 2.54 | 2.78 | 2.99 | 3.12 | TGE 10 | 4 |
| | 1.39 | 1.64 | 1.93 | 2.24 | 2.58 | 2.95 | 3.33 | 3.71 | 4.06 | 4.36 | 4.55 | TGE 10 | 6 |
| | 1.85 | 2.20 | 2.58 | 3.00 | 3.45 | 3.93 | 4.43 | 4.93 | 5.39 | 5.76 | 5.99 | TGE 10 | 8 |
| | 2.23 | 2.62 | 3.06 | 3.56 | 4.09 | 4.64 | 5.20 | 5.74 | 6.24 | 6.65 | 6.95 | TGE 10 | 9 |
| | 2.76 | 3.30 | 3.89 | 4.54 | 5.23 | 5.94 | 6.65 | 7.32 | 7.87 | 8.23 | 8.34 | TGE 10 | 11 |
| | 2.78 | 3.31 | 3.91 | 4.59 | 5.36 | 6.20 | 7.10 | 8.04 | 8.96 | 9.78 | 10.40 | TGE 20 | 12.5 |
| | 3.42 | 4.09 | 4.84 | 5.69 | 6.64 | 7.70 | 8.85 | 10.00 | 11.20 | 12.30 | 13.10 | TGE 20 | 16 |
| | 4.20 | 5.00 | 5.90 | 6.91 | 8.02 | 9.25 | 10.60 | 12.00 | 13.30 | 14.50 | 15.30 | TGE 20 | 20 |
| | 6.16 | 7.26 | 8.47 | 9.76 | 11.10 | 12.40 | 13.70 | 14.80 | 15.60 | 16.30 | 16.60 | TGE 20 | 21 |
| | 5.60 | 6.66 | 7.88 | 9.28 | 10.80 | 12.50 | 14.30 | 16.10 | 17.90 | 19.50 | 20.90 | TGE 40 | 26 |
| | 6.34 | 7.54 | 8.94 | 10.50 | 12.30 | 14.20 | 16.30 | 18.30 | 20.30 | 22.10 | 23.70 | TGE 40 | 30 |
| | 7.42 | 8.83 | 10.50 | 12.40 | 14.70 | 17.20 | 20.10 | 23.30 | 26.50 | 29.30 | 31.40 | TGE 40 | 40 |
| | 12.30 | 14.40 | 16.70 | 19.20 | 21.90 | 24.60 | 27.20 | 29.60 | 31.60 | 33.10 | 34.00 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 135 | 0.57 | 0.69 | 0.81 | 0.95 | 1.10 | 1.27 | 1.44 | 1.63 | 1.81 | 1.99 | 2.14 | TGE 10 | 3 |
| | 0.76 | 0.91 | 1.08 | 1.26 | 1.47 | 1.69 | 1.93 | 2.18 | 2.43 | 2.67 | 2.87 | TGE 10 | 4 |
| | 1.08 | 1.30 | 1.54 | 1.81 | 2.11 | 2.43 | 2.78 | 3.14 | 3.51 | 3.86 | 4.15 | TGE 10 | 6 |
| | 1.43 | 1.72 | 2.04 | 2.40 | 2.79 | 3.22 | 3.68 | 4.16 | 4.63 | 5.08 | 5.45 | TGE 10 | 8 |
| | 1.69 | 2.02 | 2.40 | 2.83 | 3.31 | 3.82 | 4.36 | 4.90 | 5.43 | 5.93 | 6.38 | TGE 10 | 9 |
| | 2.12 | 2.58 | 3.10 | 3.67 | 4.29 | 4.96 | 5.65 | 6.34 | 6.99 | 7.52 | 7.87 | TGE 10 | 11 |
| | 2.16 | 2.59 | 3.08 | 3.63 | 4.25 | 4.96 | 5.73 | 6.57 | 7.45 | 8.33 | 9.13 | TGE 20 | 12.5 |
| | 2.63 | 3.16 | 3.77 | 4.45 | 5.23 | 6.11 | 7.08 | 8.15 | 9.27 | 10.40 | 11.40 | TGE 20 | 16 |
| | 3.22 | 3.88 | 4.61 | 5.42 | 6.34 | 7.36 | 8.50 | 9.74 | 11.00 | 12.30 | 13.50 | TGE 20 | 20 |
| | 4.91 | 5.88 | 6.96 | 8.15 | 9.40 | 10.70 | 11.90 | 13.10 | 14.10 | 15.00 | 15.70 | TGE 20 | 21 |
| | 4.16 | 5.01 | 6.00 | 7.15 | 8.46 | 9.91 | 11.50 | 13.10 | 14.80 | 16.50 | 18.20 | TGE 40 | 26 |
| | 4.68 | 5.64 | 6.77 | 8.07 | 9.56 | 11.20 | 13.00 | 14.90 | 16.80 | 18.70 | 20.60 | TGE 40 | 30 |
| | 5.57 | 6.68 | 7.99 | 9.52 | 11.30 | 13.40 | 15.90 | 18.70 | 21.80 | 25.00 | 27.90 | TGE 40 | 40 |
| | 10.00 | 11.90 | 14.00 | 16.30 | 18.80 | 21.40 | 24.00 | 26.50 | 28.80 | 30.80 | 32.40 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [°F] | 2 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.88 | 1.00 | 1.07 | 1.19 | 1.30 | 1.42 | 1.53 | 1.64 | 1.76 | 1.87 | 1.98 |

Distributor correction factor (fp)*

| Evaporating temp. [°F] | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [psi] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 15 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.95 | 0.95 | 0.94 | 0.93 | 0.92 |
| | 22 | 0.94 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.91 | 0.90 | 0.89 | 0.87 |
| | 30 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.86 | 0.84 |

*calculated at 90°F condensing temperature

Capacity in kW. Range N: -40 °C to +10 °C. Opening superheat sh= 4 K

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 25 | 4.13 | 4.66 | 5.24 | 5.85 | 6.49 | 7.13 | 7.76 | 8.33 | 8.80 | 9.12 | 9.24 | 9.07 | TGE 10 | 3 |
| | 5.58 | 6.30 | 7.09 | 7.93 | 8.80 | 9.69 | 10.50 | 11.30 | 12.00 | 12.40 | 12.60 | 12.40 | TGE 10 | 4 |
| | 8.23 | 9.31 | 10.50 | 11.70 | 13.00 | 14.30 | 15.60 | 16.80 | 17.80 | 18.40 | 18.70 | 18.30 | TGE 10 | 6 |
| | 11.20 | 12.60 | 14.20 | 15.90 | 17.60 | 19.40 | 21.10 | 22.60 | 23.90 | 24.70 | 24.90 | 24.30 | TGE 10 | 8 |
| | 13.30 | 15.00 | 16.90 | 18.90 | 21.00 | 23.10 | 25.20 | 27.10 | 28.70 | 29.80 | 30.10 | 29.30 | TGE 10 | 9 |
| | 16.50 | 18.80 | 21.20 | 23.70 | 26.30 | 28.80 | 31.10 | 32.90 | 34.20 | 34.70 | 34.40 | 32.90 | TGE 10 | 11 |
| | 16.70 | 19.10 | 21.80 | 24.70 | 27.90 | 31.20 | 34.60 | 37.80 | 40.70 | 42.90 | 44.20 | 44.00 | TGE 20 | 12.5 |
| | 20.80 | 23.80 | 27.20 | 31.00 | 35.00 | 39.30 | 43.60 | 47.80 | 52.00 | 55.00 | 56.00 | 56.00 | TGE 20 | 16 |
| | 25.70 | 29.30 | 33.40 | 37.80 | 42.40 | 47.30 | 52.00 | 57.00 | 61.00 | 64.00 | 65.00 | 64.00 | TGE 20 | 20 |
| | 35.00 | 39.60 | 44.60 | 49.80 | 55.00 | 60.00 | 65.00 | 69.00 | 71.00 | 72.00 | 71.00 | 68.00 | TGE 20 | 21 |
| | 33.40 | 38.00 | 43.20 | 49.10 | 55.00 | 62.00 | 69.00 | 76.00 | 83.00 | 89.00 | 92.00 | 93.00 | TGE 40 | 26 |
| | 38.00 | 43.30 | 49.30 | 56.00 | 63.00 | 71.00 | 79.00 | 87.00 | 94.00 | 101.00 | 105.00 | 105.00 | TGE 40 | 30 |
| | 45.80 | 52.00 | 59.00 | 67.00 | 77.00 | 86.00 | 97.00 | 107.00 | 117.00 | 125.00 | 129.00 | 127.00 | TGE 40 | 40 |
| | 66.00 | 74.00 | 83.00 | 92.00 | 102.00 | 112.00 | 121.00 | 129.00 | 136.00 | 139.00 | 139.00 | 133.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 35 | 4.00 | 4.54 | 5.14 | 5.79 | 6.49 | 7.21 | 7.96 | 8.68 | 9.36 | 9.95 | 10.40 | 10.70 | TGE 10 | 3 |
| | 5.37 | 6.10 | 6.91 | 7.79 | 8.74 | 9.73 | 10.70 | 11.70 | 12.70 | 13.50 | 14.10 | 14.50 | TGE 10 | 4 |
| | 7.84 | 8.91 | 10.10 | 11.40 | 12.80 | 14.30 | 15.80 | 17.20 | 18.60 | 19.80 | 20.80 | 21.30 | TGE 10 | 6 |
| | 10.50 | 12.00 | 13.60 | 15.30 | 17.20 | 19.20 | 21.20 | 23.10 | 24.90 | 26.50 | 27.60 | 28.20 | TGE 10 | 8 |
| | 12.70 | 14.50 | 16.30 | 18.40 | 20.60 | 23.00 | 25.30 | 27.70 | 29.80 | 31.70 | 33.20 | 34.00 | TGE 10 | 9 |
| | 15.60 | 17.80 | 20.30 | 23.10 | 26.00 | 28.90 | 31.80 | 34.40 | 36.60 | 38.10 | 38.90 | 38.90 | TGE 10 | 11 |
| | 15.70 | 18.00 | 20.60 | 23.60 | 26.80 | 30.30 | 34.00 | 37.80 | 41.50 | 45.00 | 47.80 | 49.90 | TGE 20 | 12.5 |
| | 19.40 | 22.30 | 25.60 | 29.30 | 33.30 | 37.80 | 42.50 | 47.40 | 52.00 | 57.00 | 61.00 | 63.00 | TGE 20 | 16 |
| | 23.90 | 27.40 | 31.30 | 35.70 | 40.50 | 45.60 | 51.00 | 57.00 | 62.00 | 67.00 | 71.00 | 73.00 | TGE 20 | 20 |
| | 34.60 | 39.40 | 44.60 | 50.00 | 56.00 | 62.00 | 67.00 | 72.00 | 76.00 | 79.00 | 81.00 | 81.00 | TGE 20 | 21 |
| | 31.50 | 35.90 | 41.00 | 46.70 | 53.00 | 60.00 | 68.00 | 75.00 | 83.00 | 91.00 | 97.00 | 102.00 | TGE 40 | 26 |
| | 35.70 | 40.80 | 46.50 | 53.00 | 60.00 | 68.00 | 77.00 | 86.00 | 94.00 | 103.00 | 110.00 | 116.00 | TGE 40 | 30 |
| | 42.50 | 48.60 | 56.00 | 63.00 | 72.00 | 83.00 | 94.00 | 106.00 | 119.00 | 131.00 | 142.00 | 148.00 | TGE 40 | 40 |
| | 66.00 | 75.00 | 84.00 | 94.00 | 105.00 | 116.00 | 127.00 | 137.00 | 146.00 | 153.00 | 158.00 | 160.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 45 | 3.75 | 4.27 | 4.85 | 5.50 | 6.20 | 6.96 | 7.75 | 8.56 | 9.36 | 10.10 | 10.80 | 11.40 | TGE 10 | 3 |
| | 4.98 | 5.68 | 6.47 | 7.34 | 8.29 | 9.32 | 10.40 | 11.50 | 12.60 | 13.60 | 14.60 | 15.40 | TGE 10 | 4 |
| | 7.19 | 8.21 | 9.35 | 10.60 | 12.00 | 13.50 | 15.10 | 16.70 | 18.40 | 19.90 | 21.20 | 22.40 | TGE 10 | 6 |
| | 9.57 | 10.90 | 12.50 | 14.20 | 16.00 | 18.00 | 20.10 | 22.30 | 24.40 | 26.40 | 28.10 | 29.50 | TGE 10 | 8 |
| | 11.80 | 13.40 | 15.30 | 17.30 | 19.50 | 21.90 | 24.40 | 27.00 | 29.50 | 31.80 | 33.90 | 35.70 | TGE 10 | 9 |
| | 14.10 | 16.20 | 18.70 | 21.40 | 24.40 | 27.60 | 30.80 | 33.90 | 36.80 | 39.10 | 40.80 | 41.80 | TGE 10 | 11 |
| | 14.30 | 16.40 | 18.80 | 21.50 | 24.60 | 28.00 | 31.70 | 35.60 | 39.70 | 43.70 | 47.40 | 51.00 | TGE 20 | 12.5 |
| | 17.50 | 20.10 | 23.10 | 26.50 | 30.30 | 34.60 | 39.30 | 44.30 | 49.40 | 55.00 | 59.00 | 64.00 | TGE 20 | 16 |
| | 21.50 | 24.70 | 28.30 | 32.30 | 36.80 | 41.80 | 47.20 | 53.00 | 59.00 | 65.00 | 70.00 | 75.00 | TGE 20 | 20 |
| | 33.10 | 37.90 | 43.10 | 48.80 | 55.00 | 61.00 | 67.00 | 73.00 | 78.00 | 82.00 | 85.00 | 88.00 | TGE 20 | 21 |
| | 28.60 | 32.70 | 37.50 | 42.90 | 49.00 | 56.00 | 63.00 | 71.00 | 79.00 | 87.00 | 95.00 | 103.00 | TGE 40 | 26 |
| | 32.30 | 37.00 | 42.40 | 48.50 | 55.00 | 63.00 | 71.00 | 80.00 | 90.00 | 99.00 | 108.00 | 116.00 | TGE 40 | 30 |
| | 38.30 | 43.90 | 50.00 | 58.00 | 66.00 | 76.00 | 87.00 | 99.00 | 113.00 | 127.00 | 141.00 | 154.00 | TGE 40 | 40 |
| | 65.00 | 73.00 | 83.00 | 93.00 | 104.00 | 116.00 | 127.00 | 139.00 | 150.00 | 160.00 | 168.00 | 173.00 | TGE 40 | 42 |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 55 | 3.39 | 3.87 | 4.41 | 5.01 | 5.68 | 6.42 | 7.20 | 8.02 | 8.86 | 9.69 | 10.50 | 11.20 | TGE 10 | 3 |
| | 4.46 | 5.10 | 5.82 | 6.64 | 7.54 | 8.52 | 9.59 | 10.70 | 11.80 | 13.00 | 14.10 | 15.00 | TGE 10 | 4 |
| | 6.35 | 7.27 | 8.31 | 9.48 | 10.80 | 12.20 | 13.80 | 15.40 | 17.10 | 18.70 | 20.30 | 21.70 | TGE 10 | 6 |
| | 8.36 | 9.58 | 11.00 | 12.50 | 14.30 | 16.20 | 18.20 | 20.40 | 22.60 | 24.70 | 26.70 | 28.50 | TGE 10 | 8 |
| | 10.40 | 11.90 | 13.60 | 15.60 | 17.70 | 20.00 | 22.50 | 25.10 | 27.70 | 30.30 | 32.70 | 35.00 | TGE 10 | 9 |
| | 12.20 | 14.10 | 16.40 | 19.00 | 21.80 | 25.00 | 28.30 | 31.60 | 34.80 | 37.70 | 40.10 | 41.80 | TGE 10 | 11 |
| | 12.60 | 14.40 | 16.50 | 18.90 | 21.60 | 24.70 | 28.10 | 31.80 | 35.80 | 39.80 | 43.80 | 47.70 | TGE 20 | 12.5 |
| | 15.20 | 17.50 | 20.00 | 23.00 | 26.40 | 30.30 | 34.50 | 39.20 | 44.10 | 49.30 | 54.00 | 59.00 | TGE 20 | 16 |
| | 18.70 | 21.40 | 24.50 | 28.10 | 32.10 | 36.60 | 41.50 | 46.90 | 53.00 | 59.00 | 64.00 | 70.00 | TGE 20 | 20 |
| | 30.60 | 35.20 | 40.30 | 45.90 | 52.00 | 58.00 | 64.00 | 70.00 | 76.00 | 81.00 | 85.00 | 89.00 | TGE 20 | 21 |
| | 24.90 | 28.60 | 32.80 | 37.60 | 43.10 | 49.30 | 56.00 | 63.00 | 71.00 | 79.00 | 88.00 | 96.00 | TGE 40 | 26 |
| | 28.00 | 32.10 | 36.90 | 42.40 | 48.60 | 56.00 | 63.00 | 72.00 | 81.00 | 90.00 | 99.00 | 108.00 | TGE 40 | 30 |
| | 33.50 | 38.30 | 43.80 | 50.00 | 58.00 | 66.00 | 76.00 | 88.00 | 101.00 | 115.00 | 130.00 | 145.00 | TGE 40 | 40 |
| | 61.00 | 70.00 | 79.00 | 89.00 | 100.00 | 112.00 | 124.00 | 136.00 | 148.00 | 159.00 | 169.00 | 177.00 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.98 | 1.00 | 1.07 | 1.12 | 1.18 | 1.24 | 1.29 | 1.35 | 1.40 | 1.46 | 1.51 |

Distributor correction factor (fp)*

| Evaporating temp. [°C] | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| | Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.95 | 0.95 | 0.95 | 0.94 | 0.93 |
| | 1.5 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 |
| | 2 | 0.92 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.86 |

*calculated at 32 °C condensing temperature

Capacity in TR. Range N: -40°F to +50°F. Opening superheat sh= 7.2 °F

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 75 | 1.27 | 1.48 | 1.71 | 1.95 | 2.19 | 2.42 | 2.62 | 2.78 | 2.88 | 2.88 | 2.76 | TGE 10 | 3 |
| | 1.72 | 2.01 | 2.32 | 2.65 | 2.97 | 3.29 | 3.57 | 3.80 | 3.94 | 3.94 | 3.78 | TGE 10 | 4 |
| | 2.54 | 2.98 | 3.44 | 3.92 | 4.41 | 4.88 | 5.30 | 5.63 | 5.82 | 5.82 | 5.56 | TGE 10 | 6 |
| | 3.45 | 4.04 | 4.67 | 5.31 | 5.96 | 6.58 | 7.12 | 7.54 | 7.76 | 7.71 | 7.32 | TGE 10 | 8 |
| | 4.03 | 4.74 | 5.48 | 6.25 | 7.03 | 7.77 | 8.44 | 8.96 | 9.24 | 9.20 | 8.70 | TGE 10 | 9 |
| | 5.12 | 6.04 | 6.98 | 7.93 | 8.82 | 9.59 | 10.20 | 10.50 | 10.60 | 10.30 | 9.67 | TGE 10 | 11 |
| | 4.79 | 5.67 | 6.64 | 7.70 | 8.83 | 9.97 | 11.10 | 12.00 | 12.70 | 12.90 | 12.60 | TGE 20 | 12.5 |
| | 6.00 | 7.12 | 8.35 | 9.71 | 11.20 | 12.60 | 14.00 | 15.30 | 16.20 | 16.60 | 16.30 | TGE 20 | 16 |
| | 7.42 | 8.76 | 10.20 | 11.80 | 13.40 | 15.10 | 16.60 | 17.90 | 18.80 | 19.00 | 18.40 | TGE 20 | 20 |
| | 9.70 | 11.40 | 13.10 | 14.80 | 16.50 | 18.00 | 19.30 | 20.10 | 20.40 | 20.00 | 18.50 | TGE 20 | 21 |
| | 10.10 | 12.00 | 14.20 | 16.60 | 19.10 | 21.80 | 24.40 | 26.70 | 28.40 | 29.10 | 28.40 | TGE 40 | 26 |
| | 11.40 | 13.70 | 16.10 | 18.90 | 21.80 | 24.80 | 27.70 | 30.40 | 32.30 | 33.00 | 32.10 | TGE 40 | 30 |
| | 13.80 | 16.40 | 19.40 | 22.80 | 26.50 | 30.40 | 34.20 | 37.50 | 39.70 | 40.00 | 38.20 | TGE 40 | 40 |
| 19.40 | 22.60 | 26.10 | 29.60 | 33.10 | 36.40 | 39.10 | 41.10 | 41.90 | 41.20 | 38.40 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 95 | 1.25 | 1.47 | 1.70 | 1.96 | 2.22 | 2.49 | 2.75 | 2.99 | 3.20 | 3.34 | 3.39 | TGE 10 | 3 |
| | 1.67 | 1.97 | 2.29 | 2.64 | 3.00 | 3.37 | 3.73 | 4.06 | 4.34 | 4.54 | 4.62 | TGE 10 | 4 |
| | 2.44 | 2.88 | 3.36 | 3.87 | 4.40 | 4.94 | 5.48 | 5.97 | 6.38 | 6.66 | 6.75 | TGE 10 | 6 |
| | 3.28 | 3.87 | 4.52 | 5.20 | 5.91 | 6.62 | 7.32 | 7.95 | 8.46 | 8.79 | 8.86 | TGE 10 | 8 |
| | 3.80 | 4.51 | 5.27 | 6.08 | 6.93 | 7.79 | 8.64 | 9.42 | 10.10 | 10.50 | 10.60 | TGE 10 | 9 |
| | 4.86 | 5.80 | 6.81 | 7.86 | 8.91 | 9.90 | 10.80 | 11.50 | 11.90 | 12.00 | 11.80 | TGE 10 | 11 |
| | 4.57 | 5.42 | 6.37 | 7.44 | 8.61 | 9.86 | 11.10 | 12.40 | 13.50 | 14.40 | 15.00 | TGE 20 | 12.5 |
| | 5.68 | 6.74 | 7.94 | 9.29 | 10.80 | 12.40 | 14.00 | 15.70 | 17.10 | 18.30 | 19.10 | TGE 20 | 16 |
| | 7.00 | 8.29 | 9.72 | 11.30 | 13.00 | 14.80 | 16.70 | 18.50 | 20.10 | 21.30 | 21.90 | TGE 20 | 20 |
| | 9.55 | 11.30 | 13.10 | 15.00 | 16.90 | 18.70 | 20.40 | 21.90 | 23.00 | 23.50 | 23.30 | TGE 20 | 21 |
| | 9.25 | 11.10 | 13.10 | 15.50 | 18.00 | 20.80 | 23.80 | 26.80 | 29.50 | 31.80 | 33.30 | TGE 40 | 26 |
| | 10.50 | 12.60 | 14.90 | 17.50 | 20.50 | 23.70 | 27.00 | 30.40 | 33.50 | 36.10 | 37.60 | TGE 40 | 30 |
| | 12.60 | 15.10 | 18.00 | 21.30 | 25.10 | 29.30 | 33.80 | 38.30 | 42.50 | 45.50 | 46.80 | TGE 40 | 40 |
| 19.40 | 22.80 | 26.50 | 30.30 | 34.30 | 38.10 | 41.80 | 45.00 | 47.40 | 48.70 | 48.50 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 115 | 1.18 | 1.40 | 1.63 | 1.89 | 2.16 | 2.44 | 2.73 | 3.01 | 3.28 | 3.50 | 3.68 | TGE 10 | 3 |
| | 1.57 | 1.86 | 2.18 | 2.52 | 2.89 | 3.27 | 3.67 | 4.05 | 4.42 | 4.74 | 4.98 | TGE 10 | 4 |
| | 2.25 | 2.68 | 3.14 | 3.64 | 4.18 | 4.75 | 5.33 | 5.90 | 6.43 | 6.89 | 7.23 | TGE 10 | 6 |
| | 2.99 | 3.56 | 4.18 | 4.85 | 5.57 | 6.31 | 7.07 | 7.81 | 8.49 | 9.06 | 9.45 | TGE 10 | 8 |
| | 3.44 | 4.12 | 4.85 | 5.65 | 6.49 | 7.39 | 8.30 | 9.21 | 10.10 | 10.80 | 11.30 | TGE 10 | 9 |
| | 4.41 | 5.33 | 6.34 | 7.41 | 8.53 | 9.63 | 10.70 | 11.60 | 12.30 | 12.80 | 13.00 | TGE 10 | 11 |
| | 4.22 | 4.99 | 5.87 | 6.87 | 7.98 | 9.21 | 10.50 | 11.90 | 13.20 | 14.50 | 15.50 | TGE 20 | 12.5 |
| | 5.18 | 6.14 | 7.24 | 8.50 | 9.90 | 11.50 | 13.10 | 14.90 | 16.60 | 18.20 | 19.60 | TGE 20 | 16 |
| | 6.37 | 7.54 | 8.86 | 10.30 | 12.00 | 13.80 | 15.70 | 17.70 | 19.60 | 21.40 | 22.90 | TGE 20 | 20 |
| | 9.08 | 10.80 | 12.60 | 14.50 | 16.50 | 18.50 | 20.40 | 22.20 | 23.80 | 24.90 | 25.60 | TGE 20 | 21 |
| | 8.21 | 9.84 | 11.70 | 13.80 | 16.20 | 18.80 | 21.70 | 24.80 | 27.90 | 31.00 | 33.60 | TGE 40 | 26 |
| | 9.26 | 11.10 | 13.20 | 15.60 | 18.30 | 21.30 | 24.60 | 28.10 | 31.60 | 35.00 | 38.00 | TGE 40 | 30 |
| | 11.10 | 13.30 | 15.90 | 19.00 | 22.50 | 26.50 | 31.10 | 36.00 | 41.10 | 45.90 | 49.60 | TGE 40 | 40 |
| 18.90 | 22.30 | 25.90 | 29.90 | 33.90 | 38.10 | 42.20 | 46.10 | 49.50 | 52.00 | 54.00 | TGE 40 | 42 | |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 135 | 1.08 | 1.28 | 1.50 | 1.74 | 2.00 | 2.28 | 2.56 | 2.85 | 3.14 | 3.41 | 3.64 | TGE 10 | 3 |
| | 1.41 | 1.68 | 1.98 | 2.30 | 2.65 | 3.03 | 3.41 | 3.81 | 4.20 | 4.57 | 4.89 | TGE 10 | 4 |
| | 1.99 | 2.38 | 2.81 | 3.28 | 3.79 | 4.33 | 4.90 | 5.48 | 6.05 | 6.58 | 7.04 | TGE 10 | 6 |
| | 2.61 | 3.13 | 3.70 | 4.32 | 5.00 | 5.71 | 6.45 | 7.20 | 7.94 | 8.61 | 9.17 | TGE 10 | 8 |
| | 2.98 | 3.59 | 4.27 | 5.00 | 5.79 | 6.64 | 7.53 | 8.44 | 9.34 | 10.20 | 10.90 | TGE 10 | 9 |
| | 3.82 | 4.67 | 5.62 | 6.65 | 7.74 | 8.86 | 9.97 | 11.00 | 11.90 | 12.60 | 13.10 | TGE 10 | 11 |
| | 3.76 | 4.43 | 5.21 | 6.09 | 7.09 | 8.20 | 9.41 | 10.70 | 12.00 | 13.40 | 14.60 | TGE 20 | 12.5 |
| | 4.56 | 5.40 | 6.36 | 7.46 | 8.71 | 10.10 | 11.60 | 13.30 | 15.00 | 16.70 | 18.30 | TGE 20 | 16 |
| | 5.58 | 6.61 | 7.76 | 9.07 | 10.50 | 12.10 | 13.90 | 15.80 | 17.80 | 19.70 | 21.50 | TGE 20 | 20 |
| | 8.31 | 9.91 | 11.60 | 13.50 | 15.40 | 17.40 | 19.40 | 21.30 | 23.00 | 24.50 | 25.60 | TGE 20 | 21 |
| | 7.03 | 8.42 | 10.00 | 11.80 | 13.90 | 16.20 | 18.80 | 21.60 | 24.60 | 27.60 | 30.60 | TGE 40 | 26 |
| | 7.87 | 9.46 | 11.30 | 13.30 | 15.70 | 18.30 | 21.20 | 24.40 | 27.70 | 31.20 | 34.50 | TGE 40 | 30 |
| | 9.40 | 11.30 | 13.50 | 16.10 | 19.10 | 22.70 | 26.80 | 31.40 | 36.50 | 41.80 | 46.80 | TGE 40 | 40 |
| 17.80 | 21.00 | 24.50 | 28.30 | 32.30 | 36.40 | 40.60 | 44.70 | 48.40 | 52.00 | 54.00 | TGE 40 | 42 | |

Subcooling correction factor 'fsub'

| Subcooling [°F] | 2 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.91 | 1.00 | 1.06 | 1.15 | 1.24 | 1.33 | 1.41 | 1.50 | 1.59 | 1.68 | 1.77 |

Distributor correction factor (fp)*

| Evaporating temp. [°F] | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [psi] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 15 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.95 | 0.95 | 0.95 | 0.94 | 0.93 |
| | 22 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.91 | 0.90 | 0.88 |
| | 30 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.90 | 0.89 | 0.88 | 0.86 |

*calculated at 90°F condensing temperature

Capacity in kW. Range N: -40 °C to +10 °C. Opening superheat sh= 4K

SI units **R410A**

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 25 | 5.63 | 6.40 | 7.19 | 8.00 | 8.80 | 9.56 | 10.20 | 10.80 | 11.10 | 11.10 | 10.70 | 9.68 | TGE 10 | 3 |
| | 7.60 | 8.65 | 9.73 | 10.80 | 11.90 | 13.00 | 13.90 | 14.70 | 15.20 | 15.20 | 14.60 | 13.20 | TGE 10 | 4 |
| | 11.20 | 12.80 | 14.40 | 16.00 | 17.60 | 19.20 | 20.60 | 21.70 | 22.40 | 22.40 | 21.60 | 19.50 | TGE 10 | 6 |
| | 15.20 | 17.30 | 19.50 | 21.60 | 23.80 | 25.90 | 27.70 | 29.10 | 29.90 | 29.80 | 28.60 | 25.70 | TGE 10 | 8 |
| | 17.40 | 19.80 | 22.30 | 25.00 | 27.60 | 30.20 | 32.40 | 34.20 | 35.30 | 35.30 | 34.10 | 30.70 | TGE 10 | 9 |
| | 22.60 | 25.80 | 29.10 | 32.40 | 35.40 | 38.10 | 40.30 | 41.70 | 42.10 | 41.10 | 38.40 | 33.80 | TGE 10 | 11 |
| | 22.70 | 26.30 | 30.10 | 34.10 | 38.30 | 42.50 | 46.40 | 49.70 | 52.00 | 53.00 | 52.00 | 47.30 | TGE 20 | 12.5 |
| | 28.30 | 32.80 | 37.60 | 42.80 | 48.10 | 53.00 | 59.00 | 63.00 | 66.00 | 67.00 | 66.00 | 61.00 | TGE 20 | 16 |
| | 34.80 | 40.20 | 45.90 | 52.00 | 58.00 | 64.00 | 69.00 | 74.00 | 77.00 | 78.00 | 75.00 | 68.00 | TGE 20 | 20 |
| | 45.70 | 52.00 | 59.00 | 66.00 | 72.00 | 78.00 | 82.00 | 85.00 | 85.00 | 83.00 | 78.00 | 68.00 | TGE 20 | 21 |
| | 45.10 | 52.00 | 60.00 | 68.00 | 77.00 | 86.00 | 95.00 | 103.00 | 109.00 | 112.00 | 110.00 | 101.00 | TGE 40 | 26 |
| | 51.00 | 59.00 | 68.00 | 77.00 | 87.00 | 98.00 | 107.00 | 116.00 | 123.00 | 127.00 | 124.00 | 114.00 | TGE 40 | 30 |
| | 62.00 | 71.00 | 82.00 | 94.00 | 106.00 | 119.00 | 132.00 | 143.00 | 152.00 | 156.00 | 154.00 | 140.00 | TGE 40 | 40 |
| 91.00 | 103.00 | 115.00 | 128.00 | 140.00 | 151.00 | 161.00 | 167.00 | 170.00 | 168.00 | 158.00 | 139.00 | TGE 40 | 42 | |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 35 | 5.47 | 6.26 | 7.09 | 7.95 | 8.84 | 9.73 | 10.60 | 11.40 | 12.10 | 12.60 | 12.80 | 12.70 | TGE 10 | 3 |
| | 7.33 | 8.40 | 9.52 | 10.70 | 11.90 | 13.10 | 14.30 | 15.50 | 16.40 | 17.10 | 17.40 | 17.20 | TGE 10 | 4 |
| | 10.70 | 12.30 | 13.90 | 15.60 | 17.40 | 19.20 | 21.00 | 22.70 | 24.10 | 25.10 | 25.50 | 25.20 | TGE 10 | 6 |
| | 14.40 | 16.50 | 18.70 | 21.00 | 23.40 | 25.70 | 28.10 | 30.20 | 32.00 | 33.20 | 33.60 | 33.00 | TGE 10 | 8 |
| | 16.50 | 18.90 | 21.50 | 24.30 | 27.20 | 30.00 | 32.80 | 35.20 | 37.20 | 38.60 | 39.30 | 39.00 | TGE 10 | 9 |
| | 21.40 | 24.70 | 28.20 | 31.80 | 35.30 | 38.70 | 41.80 | 44.30 | 46.10 | 46.90 | 46.40 | 44.40 | TGE 10 | 11 |
| | 21.30 | 24.80 | 28.50 | 32.50 | 36.80 | 41.30 | 45.90 | 50.00 | 54.00 | 58.00 | 59.00 | 59.00 | TGE 20 | 12.5 |
| | 26.40 | 30.70 | 35.30 | 40.40 | 45.80 | 52.00 | 57.00 | 63.00 | 68.00 | 73.00 | 75.00 | 76.00 | TGE 20 | 16 |
| | 32.40 | 37.60 | 43.10 | 49.00 | 55.00 | 62.00 | 68.00 | 75.00 | 80.00 | 85.00 | 87.00 | 87.00 | TGE 20 | 20 |
| | 44.80 | 52.00 | 59.00 | 66.00 | 73.00 | 80.00 | 85.00 | 90.00 | 93.00 | 94.00 | 93.00 | 90.00 | TGE 20 | 21 |
| | 41.50 | 48.10 | 55.00 | 63.00 | 72.00 | 81.00 | 91.00 | 101.00 | 110.00 | 119.00 | 124.00 | 126.00 | TGE 40 | 26 |
| | 47.00 | 55.00 | 63.00 | 72.00 | 82.00 | 92.00 | 104.00 | 115.00 | 125.00 | 134.00 | 140.00 | 142.00 | TGE 40 | 30 |
| | 57.00 | 67.00 | 77.00 | 89.00 | 102.00 | 116.00 | 130.00 | 144.00 | 157.00 | 168.00 | 175.00 | 177.00 | TGE 40 | 40 |
| 90.00 | 103.00 | 116.00 | 129.00 | 143.00 | 156.00 | 168.00 | 179.00 | 186.00 | 190.00 | 189.00 | 184.00 | TGE 40 | 42 | |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 45 | 5.14 | 5.91 | 6.72 | 7.57 | 8.47 | 9.40 | 10.30 | 11.30 | 12.20 | 12.90 | 13.60 | 13.90 | TGE 10 | 3 |
| | 6.83 | 7.86 | 8.95 | 10.10 | 11.30 | 12.60 | 13.90 | 15.20 | 16.40 | 17.50 | 18.30 | 18.80 | TGE 10 | 4 |
| | 9.83 | 11.30 | 12.90 | 14.60 | 16.40 | 18.20 | 20.10 | 22.00 | 23.80 | 25.40 | 26.60 | 27.30 | TGE 10 | 6 |
| | 13.10 | 15.10 | 17.20 | 19.50 | 21.80 | 24.30 | 26.70 | 29.20 | 31.50 | 33.40 | 34.90 | 35.70 | TGE 10 | 8 |
| | 15.10 | 17.40 | 19.90 | 22.60 | 25.50 | 28.50 | 31.40 | 34.20 | 36.70 | 38.80 | 40.50 | 41.60 | TGE 10 | 9 |
| | 19.40 | 22.70 | 26.10 | 29.70 | 33.40 | 37.10 | 40.70 | 43.90 | 46.70 | 48.70 | 49.60 | 49.40 | TGE 10 | 11 |
| | 19.40 | 22.50 | 25.90 | 29.70 | 33.70 | 38.00 | 42.50 | 47.20 | 52.00 | 56.00 | 60.00 | 63.00 | TGE 20 | 12.5 |
| | 23.80 | 27.60 | 31.90 | 36.50 | 41.60 | 47.00 | 53.00 | 59.00 | 65.00 | 70.00 | 75.00 | 79.00 | TGE 20 | 16 |
| | 29.10 | 33.80 | 38.90 | 44.40 | 50.00 | 57.00 | 63.00 | 70.00 | 77.00 | 83.00 | 89.00 | 92.00 | TGE 20 | 20 |
| | 42.30 | 49.10 | 56.00 | 64.00 | 71.00 | 78.00 | 85.00 | 90.00 | 94.00 | 97.00 | 99.00 | 99.00 | TGE 20 | 21 |
| | 37.00 | 42.90 | 49.50 | 57.00 | 65.00 | 73.00 | 83.00 | 93.00 | 103.00 | 113.00 | 122.00 | 129.00 | TGE 40 | 26 |
| | 41.70 | 48.50 | 56.00 | 64.00 | 73.00 | 83.00 | 94.00 | 105.00 | 117.00 | 128.00 | 138.00 | 145.00 | TGE 40 | 30 |
| | 51.00 | 59.00 | 69.00 | 80.00 | 93.00 | 107.00 | 121.00 | 136.00 | 151.00 | 165.00 | 176.00 | 185.00 | TGE 40 | 40 |
| 87.00 | 99.00 | 113.00 | 127.00 | 141.00 | 155.00 | 169.00 | 181.00 | 191.00 | 198.00 | 202.00 | 203.00 | TGE 40 | 42 | |

| Cond. temp. [°C] | Capacity [kW] | | | | | | | | | | | | Valve | Orifice no. |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 | | |
| 55 | 4.67 | 5.38 | 6.13 | 6.92 | 7.76 | 8.63 | 9.53 | 10.50 | 11.40 | 12.20 | 13.00 | 13.60 | TGE 10 | 3 |
| | 6.14 | 7.09 | 8.09 | 9.16 | 10.30 | 11.50 | 12.70 | 13.90 | 15.20 | 16.40 | 17.40 | 18.30 | TGE 10 | 4 |
| | 8.70 | 10.10 | 11.50 | 13.10 | 14.70 | 16.40 | 18.20 | 20.00 | 21.80 | 23.50 | 25.00 | 26.30 | TGE 10 | 6 |
| | 11.40 | 13.30 | 15.20 | 17.20 | 19.40 | 21.70 | 24.00 | 26.30 | 28.70 | 30.90 | 32.80 | 34.20 | TGE 10 | 8 |
| | 13.00 | 15.10 | 17.40 | 19.90 | 22.70 | 25.50 | 28.40 | 31.30 | 33.90 | 36.40 | 38.50 | 40.40 | TGE 10 | 9 |
| | 16.80 | 19.90 | 23.10 | 26.50 | 30.10 | 33.70 | 37.30 | 40.70 | 43.90 | 46.50 | 48.30 | 49.10 | TGE 10 | 11 |
| | 17.10 | 19.80 | 22.80 | 26.00 | 29.50 | 33.30 | 37.30 | 41.50 | 45.90 | 50.00 | 54.00 | 58.00 | TGE 20 | 12.5 |
| | 20.70 | 24.10 | 27.70 | 31.70 | 36.10 | 40.80 | 45.90 | 51.00 | 57.00 | 62.00 | 68.00 | 73.00 | TGE 20 | 16 |
| | 25.30 | 29.50 | 33.90 | 38.60 | 43.70 | 49.20 | 55.00 | 61.00 | 68.00 | 74.00 | 80.00 | 86.00 | TGE 20 | 20 |
| | 38.30 | 44.80 | 52.00 | 59.00 | 66.00 | 74.00 | 80.00 | 86.00 | 91.00 | 95.00 | 98.00 | 99.00 | TGE 20 | 21 |
| | 32.00 | 37.10 | 42.80 | 49.00 | 56.00 | 63.00 | 72.00 | 80.00 | 90.00 | 99.00 | 108.00 | 117.00 | TGE 40 | 26 |
| | 35.90 | 41.70 | 48.10 | 55.00 | 63.00 | 72.00 | 81.00 | 91.00 | 101.00 | 112.00 | 122.00 | 132.00 | TGE 40 | 30 |
| | 42.40 | 49.80 | 58.00 | 68.00 | 79.00 | 92.00 | 105.00 | 120.00 | 135.00 | 149.00 | 162.00 | 175.00 | TGE 40 | 40 |
| 81.00 | 93.00 | 106.00 | 120.00 | 134.00 | 149.00 | 163.00 | 175.00 | 187.00 | 196.00 | 202.00 | 206.00 | TGE 40 | 42 | |

Subcooling correction factor 'fsub'

| Subcooling [K] | 2 | 4 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.98 | 1.00 | 1.07 | 1.13 | 1.19 | 1.25 | 1.31 | 1.37 | 1.42 | 1.48 | 1.54 |

Distributor correction factor (fp)*

| Evaporating temp. | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.96 | 0.96 | 0.96 | 0.95 | 0.94 |
| | 15 | 0.96 | 0.96 | 0.96 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.93 | 0.93 | 0.91 |
| | 2 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.88 |

*calculated at 32 °C condensing temperature

Capacity in TR. Range N: -40°F to +50°F. Opening superheat sh= 7.2 °F

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 75 | 1.60 | 1.84 | 2.09 | 2.34 | 2.59 | 2.81 | 2.99 | 3.10 | 3.10 | 2.95 | 2.57 | TGE 10 | 3 |
| | 2.16 | 2.49 | 2.83 | 3.18 | 3.52 | 3.82 | 4.07 | 4.23 | 4.24 | 4.03 | 3.52 | TGE 10 | 4 |
| | 3.19 | 3.68 | 4.19 | 4.70 | 5.20 | 5.66 | 6.03 | 6.25 | 6.26 | 5.95 | 5.17 | TGE 10 | 6 |
| | 4.33 | 4.99 | 5.67 | 6.36 | 7.02 | 7.61 | 8.09 | 8.36 | 8.33 | 7.88 | 6.81 | TGE 10 | 8 |
| | 4.96 | 5.71 | 6.51 | 7.35 | 8.16 | 8.90 | 9.50 | 9.86 | 9.89 | 9.41 | 8.10 | TGE 10 | 9 |
| | 6.44 | 7.46 | 8.48 | 9.47 | 10.40 | 11.10 | 11.60 | 11.80 | 11.50 | 10.60 | 8.93 | TGE 10 | 11 |
| | 6.47 | 7.61 | 8.83 | 10.10 | 11.40 | 12.70 | 13.80 | 14.50 | 14.80 | 14.30 | 12.60 | TGE 20 | 12.5 |
| | 8.08 | 9.51 | 11.10 | 12.70 | 14.40 | 16.00 | 17.40 | 18.50 | 18.80 | 18.30 | 16.20 | TGE 20 | 16 |
| | 9.94 | 11.60 | 13.50 | 15.30 | 17.20 | 19.00 | 20.50 | 21.50 | 21.70 | 20.70 | 18.00 | TGE 20 | 20 |
| | 13.00 | 15.00 | 17.10 | 19.20 | 21.10 | 22.60 | 23.60 | 23.90 | 23.30 | 21.50 | 17.90 | TGE 20 | 21 |
| | 12.90 | 15.10 | 17.60 | 20.20 | 23.00 | 25.80 | 28.30 | 30.30 | 31.20 | 30.40 | 26.90 | TGE 40 | 26 |
| | 14.70 | 17.20 | 20.00 | 23.00 | 26.20 | 29.30 | 32.20 | 34.40 | 35.40 | 34.40 | 30.40 | TGE 40 | 30 |
| | 17.70 | 20.70 | 24.10 | 27.90 | 31.90 | 35.90 | 39.60 | 42.40 | 43.70 | 42.50 | 37.00 | TGE 40 | 40 |
| | 25.70 | 29.50 | 33.40 | 37.30 | 41.00 | 44.20 | 46.50 | 47.60 | 46.80 | 43.50 | 36.30 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 95 | 1.55 | 1.80 | 2.07 | 2.34 | 2.62 | 2.90 | 3.17 | 3.40 | 3.57 | 3.64 | 3.58 | TGE 10 | 3 |
| | 2.08 | 2.42 | 2.78 | 3.15 | 3.54 | 3.92 | 4.29 | 4.61 | 4.84 | 4.95 | 4.87 | TGE 10 | 4 |
| | 3.03 | 3.53 | 4.06 | 4.61 | 5.18 | 5.74 | 6.28 | 6.75 | 7.09 | 7.24 | 7.12 | TGE 10 | 6 |
| | 4.08 | 4.74 | 5.45 | 6.18 | 6.93 | 7.68 | 8.38 | 8.98 | 9.40 | 9.55 | 9.33 | TGE 10 | 8 |
| | 4.70 | 5.46 | 6.29 | 7.17 | 8.08 | 8.97 | 9.78 | 10.50 | 10.90 | 11.20 | 11.10 | TGE 10 | 9 |
| | 6.07 | 7.13 | 8.23 | 9.35 | 10.50 | 11.50 | 12.40 | 13.00 | 13.30 | 13.20 | 12.50 | TGE 10 | 11 |
| | 6.06 | 7.15 | 8.34 | 9.63 | 11.00 | 12.40 | 13.90 | 15.20 | 16.30 | 16.90 | 16.90 | TGE 20 | 12.5 |
| | 7.48 | 8.85 | 10.30 | 12.00 | 13.70 | 15.60 | 17.40 | 19.10 | 20.50 | 21.40 | 21.50 | TGE 20 | 16 |
| | 9.19 | 10.80 | 12.60 | 14.50 | 16.50 | 18.60 | 20.60 | 22.50 | 24.00 | 24.80 | 24.50 | TGE 20 | 20 |
| | 12.70 | 14.90 | 17.10 | 19.40 | 21.60 | 23.50 | 25.10 | 26.10 | 26.60 | 26.40 | 25.40 | TGE 20 | 21 |
| | 11.80 | 13.90 | 16.20 | 18.80 | 21.60 | 24.70 | 27.80 | 30.80 | 33.40 | 35.20 | 35.70 | TGE 40 | 26 |
| | 13.30 | 15.70 | 18.40 | 21.30 | 24.50 | 28.00 | 31.50 | 34.90 | 37.90 | 39.90 | 40.30 | TGE 40 | 30 |
| | 16.30 | 19.20 | 22.60 | 26.50 | 30.70 | 35.20 | 39.70 | 43.90 | 47.30 | 49.60 | 50.00 | TGE 40 | 40 |
| | 25.60 | 29.60 | 33.70 | 38.10 | 42.40 | 46.40 | 49.80 | 52.00 | 54.00 | 54.00 | 52.00 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 115 | 1.45 | 1.69 | 1.94 | 2.22 | 2.50 | 2.80 | 3.10 | 3.38 | 3.64 | 3.85 | 3.97 | TGE 10 | 3 |
| | 1.92 | 2.24 | 2.59 | 2.96 | 3.35 | 3.75 | 4.16 | 4.55 | 4.91 | 5.20 | 5.37 | TGE 10 | 4 |
| | 2.76 | 3.23 | 3.73 | 4.27 | 4.84 | 5.43 | 6.02 | 6.60 | 7.12 | 7.54 | 7.78 | TGE 10 | 6 |
| | 3.66 | 4.29 | 4.97 | 5.68 | 6.43 | 7.21 | 7.98 | 8.73 | 9.39 | 9.90 | 10.20 | TGE 10 | 8 |
| | 4.22 | 4.94 | 5.75 | 6.62 | 7.54 | 8.47 | 9.38 | 10.20 | 10.90 | 11.50 | 11.90 | TGE 10 | 9 |
| | 5.43 | 6.47 | 7.56 | 8.70 | 9.87 | 11.00 | 12.10 | 13.00 | 13.80 | 14.10 | 14.00 | TGE 10 | 11 |
| | 5.44 | 6.42 | 7.49 | 8.68 | 9.97 | 11.40 | 12.80 | 14.30 | 15.70 | 16.90 | 17.80 | TGE 20 | 12.5 |
| | 6.65 | 7.86 | 9.21 | 10.70 | 12.30 | 14.10 | 15.90 | 17.80 | 19.60 | 21.20 | 22.40 | TGE 20 | 16 |
| | 8.15 | 9.63 | 11.20 | 13.00 | 14.80 | 16.90 | 19.00 | 21.10 | 23.20 | 25.00 | 26.20 | TGE 20 | 20 |
| | 11.90 | 14.00 | 16.30 | 18.70 | 21.00 | 23.20 | 25.00 | 26.50 | 27.50 | 28.10 | 28.10 | TGE 20 | 21 |
| | 10.30 | 12.20 | 14.30 | 16.60 | 19.20 | 22.00 | 25.00 | 28.20 | 31.40 | 34.30 | 36.50 | TGE 40 | 26 |
| | 11.70 | 13.80 | 16.10 | 18.80 | 21.70 | 24.90 | 28.30 | 31.90 | 35.50 | 38.70 | 41.30 | TGE 40 | 30 |
| | 14.20 | 16.90 | 20.00 | 23.60 | 27.70 | 32.10 | 36.80 | 41.60 | 46.00 | 49.80 | 53.00 | TGE 40 | 40 |
| | 24.60 | 28.50 | 32.70 | 37.20 | 41.70 | 46.10 | 50.00 | 54.00 | 56.00 | 58.00 | 58.00 | TGE 40 | 42 |

| Cond. temp. [°F] | Capacity [TR] | | | | | | | | | | | Valve | Orifice no. |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| 135 | 1.33 | 1.56 | 1.80 | 2.05 | 2.32 | 2.61 | 2.90 | 3.18 | 3.46 | 3.70 | 3.89 | TGE 10 | 3 |
| | 1.75 | 2.05 | 2.38 | 2.72 | 3.09 | 3.47 | 3.86 | 4.26 | 4.63 | 4.97 | 5.23 | TGE 10 | 4 |
| | 2.49 | 2.92 | 3.39 | 3.89 | 4.42 | 4.97 | 5.55 | 6.12 | 6.66 | 7.15 | 7.52 | TGE 10 | 6 |
| | 3.27 | 3.85 | 4.47 | 5.13 | 5.83 | 6.56 | 7.31 | 8.05 | 8.75 | 9.36 | 9.80 | TGE 10 | 8 |
| | 3.72 | 4.39 | 5.14 | 5.96 | 6.85 | 7.76 | 8.66 | 9.52 | 10.30 | 11.00 | 11.50 | TGE 10 | 9 |
| | 4.82 | 5.79 | 6.83 | 7.92 | 9.05 | 10.20 | 11.30 | 12.30 | 13.20 | 13.80 | 14.00 | TGE 10 | 11 |
| | 4.89 | 5.76 | 6.72 | 7.76 | 8.91 | 10.20 | 11.50 | 12.90 | 14.20 | 15.60 | 16.70 | TGE 20 | 12.5 |
| | 5.93 | 7.00 | 8.18 | 9.49 | 10.90 | 12.50 | 14.10 | 15.90 | 17.70 | 19.40 | 20.90 | TGE 20 | 16 |
| | 7.25 | 8.57 | 9.99 | 11.50 | 13.20 | 15.00 | 16.90 | 18.90 | 21.00 | 23.00 | 24.70 | TGE 20 | 20 |
| | 10.90 | 13.00 | 15.20 | 17.50 | 19.90 | 22.10 | 24.00 | 25.70 | 26.90 | 27.80 | 28.30 | TGE 20 | 21 |
| | 9.15 | 10.80 | 12.60 | 14.70 | 16.90 | 19.40 | 22.20 | 25.10 | 28.00 | 31.00 | 33.70 | TGE 40 | 26 |
| | 10.30 | 12.10 | 14.20 | 16.50 | 19.10 | 21.90 | 25.00 | 28.30 | 31.70 | 35.00 | 38.00 | TGE 40 | 30 |
| | 12.20 | 14.50 | 17.30 | 20.60 | 24.30 | 28.50 | 32.90 | 37.60 | 42.10 | 46.40 | 50.00 | TGE 40 | 40 |
| | 23.10 | 26.90 | 31.10 | 35.50 | 40.00 | 44.50 | 48.70 | 52.00 | 55.00 | 58.00 | 59.00 | TGE 40 | 42 |

Subcooling correction factor 'fsub'

| Subcooling [°F] | 2 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor | 0.90 | 1.00 | 1.06 | 1.15 | 1.25 | 1.34 | 1.43 | 1.52 | 1.61 | 1.70 | 1.79 |

Distributor correction factor (fp)*

| Evaporating temp. [°F] | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Pressure drop [bar] | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 15 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.96 | 0.96 | 0.96 | 0.95 | 0.94 |
| | 22 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.90 |
| | 30 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.88 |

*calculated at 90°F condensing temperature

Dimensions and weights

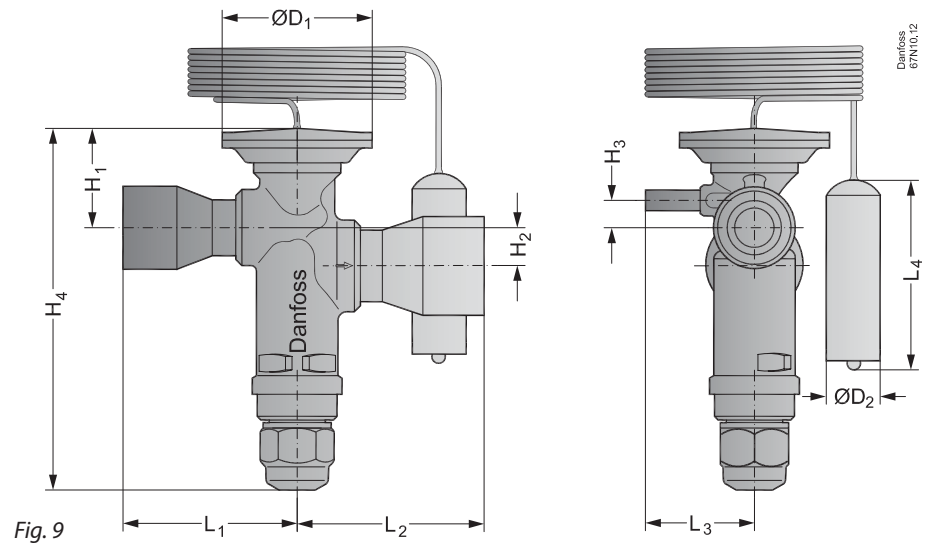


Fig. 9

| Type | Connection inlet × outlet ODF solder | | Capillary tube length [m] | H ₁ | H ₂ | H ₃ | H ₄ | L ₁ | L ₂ | L ₃ | L ₄ | ØD ₁ | ØD ₂ | Weight [kg] |
|--------|--------------------------------------|---------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-------------|
| | [in.] | [mm] | | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | |
| TGE 10 | 3/8 × 5/8 | 10 × 16 | 1.5 | 28.5 | 7.5 | 5 | 93 | 41.5 | 45.5 | 37.5 | 70 | 45 | 14.5 | 0.37 |
| | 1/2 × 5/8 | 12 × 16 | | | | | | | 59.5 | | | | | |
| | 1/2 × 7/8 | 12 × 22 | | | | | | | 45.5 | | | | | |
| | 5/8 × 5/8 | | | | | | | | 59.5 | | | | | |
| | 5/8 × 7/8 | 16 × 22 | | | | | | | | | | | | |
| TGE 20 | 5/8 × 7/8 | 16 × 22 | 1.5 | 32 | 9 | 8 | 117 | 48 | 62 | 40 | 78 | 53 | 19.2 | 0.57 |
| | 7/8 × 7/8 | | | | | | | 62 | | | | | | |
| | 5/8 × 1 1/8 | 16 × 28 | | | | | | 48 | 66 | | | | | |
| | 7/8 × 1 1/8 | 22 × 28 | | | | | | 62 | | | | | | |
| | 7/8 × 1 3/8 | | | | | | | | | | | | | |
| TGE 40 | 7/8 × 1 3/8 | 22 × 35 | 3 | 39 | 15 | 11 | 144 | | 74.5 | 43.5 | 78 | 60 | 19.2 | 0.93 |
| | 1 1/8 × 1 1/8 | | | | | | | 69.5 | | | | | | |
| | 1 1/8 × 1 3/8 | 28 × 35 | | | | | | 74.5 | | | | | | |

| Type | Connection inlet × outlet ODF solder | | Capillary tube length [in.] | H ₁ | H ₂ | H ₃ | H ₄ | L ₁ | L ₂ | L ₃ | L ₄ | ØD ₁ | ØD ₂ | Weight [lbs] |
|--------|--------------------------------------|---------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|--------------|
| | [in.] | [mm] | | [in.] | [in.] | [in.] | [in.] | [in.] | [in.] | [in.] | [in.] | [in.] | [in.] | |
| TGE 10 | 3/8 × 5/8 | 10 × 16 | 59 | 1.12 | 0.30 | 0.20 | 3.66 | 1.63 | 1.79 | 1.48 | 2.76 | 1.77 | 0.57 | 0.81 |
| | 1/2 × 5/8 | 12 × 16 | | | | | | | 2.34 | | | | | |
| | 1/2 × 7/8 | 12 × 22 | | | | | | | 1.79 | | | | | |
| | 5/8 × 5/8 | | | | | | | | 2.34 | | | | | |
| | 5/8 × 7/8 | 16 × 22 | | | | | | | | | | | | |
| TGE 20 | 5/8 × 7/8 | 16 × 22 | 59 | 1.26 | 0.35 | 0.31 | 4.61 | 1.89 | 2.44 | 1.57 | 3.07 | 2.09 | 0.76 | 1.27 |
| | 7/8 × 7/8 | | | | | | | 2.44 | | | | | | |
| | 5/8 × 1 1/8 | 16 × 28 | | | | | | 1.89 | 2.60 | | | | | |
| | 7/8 × 1 1/8 | 22 × 28 | | | | | | 2.44 | | | | | | |
| | 7/8 × 1 3/8 | | | | | | | | | | | | | |
| TGE 40 | 7/8 × 1 3/8 | 22 × 35 | 118 | 1.54 | 0.59 | 0.43 | 5.67 | 2.58 | 2.93 | 1.71 | 3.07 | 2.36 | 0.76 | 2.05 |
| | 1 1/8 × 1 1/8 | | | | | | | 2.74 | | | | | | |
| | 1 1/8 × 1 3/8 | 28 × 35 | | | | | | 2.93 | | | | | | |

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