

Supplementary Data sheet

Thermostatic expansion valve type TRE80s - 90 X/Z

Introduction

Type TRE 80s-90 expansion valves are an extended variation of the standard TRE 80 series. The orifice diameter has been increased by 2.5 mm increasing the capacity of the valve to 90-100 TR (300-350 kW) R 22 / R 407 under rated conditions. The diameter of the balance piston is not correspondingly increased, which means a minor influence from the condensing pressure

on the power balance which, however, is unimportant for the function at normal flow direction, but it will be noticeable at the opposite flow direction (biflow), which therefore cannot be recommended.

All other data are like those for the TRE 80 standard series, the literature of which is referred to (RD.1A.R1.02)

Capacity

For each refrigerant (R 22 and R 407C) there are three different tables:

1. Rated capacity - Standard capacity information based on ARI conditions an opening superheat of 4K (7.2°F)
2. Maximum capacity - The capacity calculated at full stroke and is therefore at the same level throughout the evaporating range at a

given pressure drop. The opening superheat varies with the evaporating temperature (rising OS with falling evaporating temperature).

3. Capacity per °C/°F Opening Superheat (OS) - This table provides the capacity per °C/°F of opening superheat.

Use of capacity tables

Normally the rated capacities will be sufficient for dimensioning, and are thus the basis of an "extended"/ "advanced" dimensioning.

Example

300 kW R 22 at -10°C evaporating temperature and 6 bar pressure drop across the valve is required.

1. Nominal TRE 80s - 90 gives 266.8 kW at Δp 6 bar
2. Max. capacity is 351 kW
3. Performance per °C is 66.7 kW

300 kW demand a higher opening superheat than the 4K/7.2°F used for the rated capacity calculations.

This +OS is calculated by using the difference between the rated and the wanted capacity (300 - 266.8 = 33.2 kW) divided by the performance per °C (33.2 : 66.7 \approx 0.5K).

The 300 kW therefore demand an opening superheat of (4 + 0.5 = 4.5K).

A possible correction for subcooling higher than 4K/7.2°F is made as usual for all three tables.

Programme

In principle the TRE80s can be produced in the same versions as TRE 80 the connections, capillary tubes and charges concerned.

In exception of the following basis programme, all inquiries for TRE 80s must be treated as "inquiries for special versions".

Basic programme

Refrigerant	Type	Connection		Capillary tube m/ft.	Range N - 40°/+ 10°C - 40°/+ 50°F Multipack
		Solder ODF			
		Input in.	Output in.		
R 22	TRE 80s - 90X	1 1/8	1 5/8	3/10	067L3206
		1 3/8	1 3/8		067L3207
		1 3/8	1 5/8		067L3208
		1 5/8	1 5/8		067L3209
R 407	TRE 80s - 90Z	1 1/8	1 5/8	3/10	067L3214
		1 3/8	1 3/8		067L3215
		1 3/8	1 5/8		067L3216
		1 5/8	1 5/8		067L3217

Rated capacity (SI)
R 22
Capacity in kW for range N and K and opening superheat OS = 4 K

Type and rated capacity Q_{nom} TR	Pressure drop across valve Δp bar								Pressure drop across valve Δp bar							
	2	4	6	8	10	12	14	16	2	4	6	8	10	12	14	16

Evaporating temperature +10°C
Evaporating temperature +5°C

TRE 80s - 90X	220.8	282.6	316.5	335.0	345.8	351.9	354.4	353.9	218.8	276.4	308.0	325.4	335.2	340.8	342.7	342.0
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature 0°C
Evaporating temperature -5°C

TRE 80s - 90X	212.4	267.0	296.7	313.5	322.7	327.3	328.8	327.3	204.8	255.6	282.8	298.8	307.6	318.6	312.7	311.3
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -10°C
Evaporating temperature -15°C

TRE 80s - 90X	195.0	241.7	266.8	281.3	289.3	293.3	294.6	292.5	183.2	226.4	250.1	261.7	269.0	272.2	272.6	270.8
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -20°C
Evaporating temperature -25°C

TRE 80s - 90X	170.3	209.3	229.5	241.0	247.2	249.7	249.6	247.7	156.0	191.1	209.2	219.2	224.4	226.4	225.9	223.8
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -30°C
Evaporating temperature -35°C

TRE 80s - 90X	141.3	172.3	188.2	196.9	201.3	202.7	202.0	199.8	126.0	153.5	167.0	174.6	178.2	179.1	178.3	176.1
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -40°C

TRE 80s - 90X	110.7	134.5	146.4	152.7	155.6	156.2	155.2	153.0								
---------------	-------	-------	-------	-------	-------	-------	-------	-------	--	--	--	--	--	--	--	--

Max. capacity (SI)
Evaporating temperature +10°C
Evaporating temperature +5°C

TRE 80s - 90X	244.6	311.7	348.7	372.8	389.9	401.5	407.4	411.5	246.8	311.1	351.1	374.9	391.0	401.9	408.9	412.7
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature 0°C
Evaporating temperature -5°C

TRE 80s - 90X	250.1	316.0	351.8	375.3	391.4	402.3	408.9	413.1	253.6	316.4	352.1	374.9	390.7	401.7	408.9	412.2
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -10°C
Evaporating temperature -15°C

TRE 80s - 90X	254.0	316.4	351.0	373.8	389.5	400.0	406.9	410.6	255.9	315.1	349.3	371.7	387.3	399.1	404.5	408.3
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -20°C
Evaporating temperature -25°C

TRE 80s - 90X	255.2	313.6	346.6	369.2	384.5	395.1	401.5	405.2	254.3	310.6	343.6	366.1	381.3	391.6	398.0	401.6
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -30°C
Evaporating temperature -35°C

TRE 80s - 90X	252.3	307.5	340.5	362.5	377.6	387.8	394.0	397.5	249.5	304.0	336.8	358.0	373.5	383.6	389.5	392.7
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -40°C

TRE 80s - 90X	246.2	300.0	332.8	354.3	369.1	378.8	384.8	387.7								
---------------	-------	-------	-------	-------	-------	-------	-------	-------	--	--	--	--	--	--	--	--

Capacity per OS°C
Evaporating temperature +10°C
Evaporating temperature +5°C

TRE 80s - 90X	55.2	70.7	79.1	83.7	86.5	88.0	88.6	88.5	54.7	69.1	77.0	81.3	83.8	85.2	85.7	85.5
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature 0°C
Evaporating temperature -5°C

TRE 80s - 90X	53.1	66.7	74.2	78.4	80.7	81.8	82.2	81.8	51.2	63.9	70.7	74.7	76.9	79.7	78.2	77.8
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -10°C
Evaporating temperature -15°C

TRE 80s - 90X	48.7	60.4	66.7	70.3	72.3	73.3	73.7	73.1	45.8	56.6	62.5	65.4	67.2	68.0	68.1	67.7
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -20°C
Evaporating temperature -25°C

TRE 80s - 90X	42.6	52.3	57.4	60.3	61.8	62.4	62.4	61.9	39.0	47.8	52.3	54.8	56.1	56.6	56.5	56.0
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -30°C
Evaporating temperature -35°C

TRE 80s - 90X	35.3	43.1	47.1	49.2	50.3	50.7	50.5	50.0	31.5	38.4	41.8	43.6	44.5	44.8	44.6	44.0
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -40°C

TRE 80s - 90X	31.5	38.4	41.8	43.6	44.5	44.8	44.6	44.0								
---------------	------	------	------	------	------	------	------	------	--	--	--	--	--	--	--	--

Correction factors for subcooling Δt_s

Δt_s	4 K	10 K	15 K	20 K	25 K	30 K	35 K	40 K	45 K	50 K
R 22	1.00	1.06	1.11	1.15	1.20	1.25	1.30	1.35	1.39	1.44

Supplementary data sheet Thermostatic expansion valve, type TRE80s - 90 X/Z
Rated capacity (°F)
R 22
Capacity in TR for range N and K and opening superheat OS = 7°F

Type and rated capacity Q_{nom} TR	Pressure drop across valve Δp psi								Pressure drop across valve Δp psi							
	40	70	100	130	160	190	220	250	40	70	100	130	160	190	220	250
	Evaporating temperature +50°F								Evaporating temperature +40°F							
TRE80s - 90	73.7	87.1	95.2	100.0	103.1	104.6	104.9	104.4	71.1	84.4	92.1	96.8	99.3	100.5	100.8	100.4
	Evaporating temperature +30°F								Evaporating temperature +20°F							
TRE80s - 90	68.5	81.0	87.9	92.1	94.3	95.4	95.5	95.0	65.3	76.7	83.4	86.6	88.6	89.5	89.4	88.8
	Evaporating temperature +10°F								Evaporating temperature 0°F							
TRE80s - 90	61.3	71.7	77.3	80.5	82.2	82.8	82.6	81.9	56.7	66.0	71.0	73.8	75.2	75.6	75.3	74.5
	Evaporating temperature -10°F								Evaporating temperature -20°F							
TRE80s - 90	51.7	59.9	64.2	66.6	67.7	68.0	67.7	66.8	46.3	53.4	57.2	59.3	60.2	60.3	59.9	59.1
	Evaporating temperature -30°F								Fordampningstemperatur -40°F							
TRE80s - 90	40.7	46.9	50.2	51.9	52.6	52.6	52.2	51.4	35.2	40.6	43.3	44.7	45.2	45.2	44.7	43.9

Max. capacity (°F)

	Evaporating temperature +50°F								Evaporating temperature +40°F							
TRE80s - 90	79.9	96.5	106.6	112.8	116.8	119.5	121.0	121.8	80.1	97.6	107.2	113.2	117.1	119.8	121.5	122.2
	Evaporating temperature +30°F								Evaporating temperature +20°F							
TRE80s - 90	82.3	98.1	107.5	113.3	117.3	119.9	121.5	122.3	82.7	98.4	107.3	113.1	117.0	119.6	121.1	121.8
	Evaporating temperature +10°F								Evaporating temperature 0°F							
TRE80s - 90	82.6	98.3	106.9	112.5	116.4	119.0	120.5	121.2	82.9	97.8	106.2	111.8	115.7	118.1	119.6	120.3
	Evaporating temperature -10°F								Evaporating temperature -20°F							
TRE80s - 90	82.7	97.0	105.3	110.8	114.6	117.0	118.5	119.2	82.1	96.0	104.2	109.7	113.4	115.8	117.2	117.8
	Evaporating temperature -30°F								Evaporating temperature -40°F							
TRE80s - 90	81.3	94.8	103.0	108.4	112.1	114.4	115.8	116.3	80.4	92.9	101.6	107.1	110.6	112.9	114.2	114.6

Capacity per OS (°F)

	Evaporating temperature +50°F								Evaporating temperature +40°F							
TRE80s - 90	10.2	12.1	13.2	13.9	14.3	14.5	14.6	14.5	9.9	11.7	12.8	13.4	13.8	14.0	14.0	13.9
	Evaporating temperature +30°F								Evaporating temperature +20°F							
TRE80s - 90	9.5	11.3	12.2	12.8	13.1	13.2	13.3	13.2	9.1	10.7	11.6	12.0	12.3	12.4	12.4	12.3
	Fordampningstemperatur +10°F								Evaporating temperature 0°F							
TRE80s - 90	8.5	10.0	10.7	11.2	11.4	11.5	11.5	11.4	7.9	9.2	9.9	10.2	10.4	10.5	10.5	10.3
	Evaporating temperature -10°F								Evaporating temperature -20°F							
TRE80s - 90	7.2	8.3	8.9	9.3	9.4	9.4	9.4	9.3	6.4	7.4	7.9	8.2	8.4	8.4	8.3	8.2
	Evaporating temperature -30°F								Evaporating temperature -40°F							
TRE80s - 90	5.7	6.5	7.0	7.2	7.3	7.3	7.2	7.1	4.9	5.6	6.0	6.2	6.3	6.3	6.2	6.1

Correction factors for subcooling Δt_{sub}

Δt_{sub}	10°F	20°F	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F
R 22	1.00	1.06	1.11	1.17	1.22	1.28	1.33	1.39	1.44	1.49

Rated capacity (SI)
R 407C
Capacity in kW for range N and K and opening superheat OS = 4 K

Type and rated capacity Q_{nom} TR	Pressure drop across valve Δp bar								Pressure drop across valve Δp bar							
	2	4	6	8	10	12	14	16	2	4	6	8	10	12	14	16

Evaporating temperature +10°C
Evaporating temperature +5°C

TRE 80s - 90X	215.1	273.1	301.0	311.3	322.5	324.5	320.6	317.5	212.0	264.8	290.9	304.9	305.8	312.9	310.5	305.4
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature 0°C
Evaporating temperature -5°C

TRE 80s - 90X	204.0	253.2	278.4	291.2	296.8	298.1	296.0	291.2	194.9	239.9	262.7	275.1	279.5	279.5	277.8	273.0
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -10°C
Evaporating temperature -15°C

TRE 80s - 90X	183.5	225.2	245.5	256.0	260.3	260.5	258.1	253.2	171.7	208.9	227.0	236.1	239.8	239.7	236.9	232.3
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -20°C
Evaporating temperature -25°C

TRE 80s - 90X	157.3	190.9	206.9	215.3	217.9	217.9	215.0	210.5	142.6	172.7	187.0	193.9	196.4	195.6	192.7	187.9
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -30°C
Evaporating temperature -35°C

TRE 80s - 90X	127.9	154.1	166.7	172.6	174.4	173.5	170.7	166.4	112.9	136.0	146.6	151.6	153.0	151.9	149.2	145.2
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -40°C

TRE 80s - 90X	98.2	118.2	127.3	131.4	132.4	131.2	128.6	124.9
---------------	------	-------	-------	-------	-------	-------	-------	-------

Max. capacity (SI)
Evaporating temperature +10°C
Evaporating temperature +5°C

TRE 80s - 90X	249.7	319.6	352.4	371.9	383.6	389.0	390.5	388.4	256.7	321.9	354.3	371.8	384.8	390.3	391.0	389.5
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature 0°C
Evaporating temperature -5°C

TRE 80s - 90X	260.2	322.6	355.4	373.4	384.6	389.9	391.2	389.2	261.7	322.7	353.3	372.3	383.1	388.6	389.8	387.7
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -10°C
Evaporating temperature -15°C

TRE 80s - 90X	263.3	321.2	353.6	369.9	380.7	385.9	387.1	385.0	263.1	318.8	348.8	366.9	377.4	382.6	383.6	381.3
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -20°C
Evaporating temperature -25°C

TRE 80s - 90X	261.2	314.9	345.2	363.1	373.4	378.4	379.3	377.0	259.3	312.2	341.2	358.7	368.5	373.6	374.3	371.7
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -30°C
Evaporating temperature -35°C

TRE 80s - 90X	256.1	308.0	336.7	354.0	363.8	368.3	368.7	366.0	252.9	303.3	331.8	348.6	358.2	362.5	362.8	359.7
---------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Evaporating temperature -40°C

TRE 80s - 90X	248.3	298.5	326.5	343.2	352.4	356.4	356.3	353.0
---------------	-------	-------	-------	-------	-------	-------	-------	-------

Capacity per OS°C
Evaporating temperature +10°C
Evaporating temperature +5°C

TRE 80s - 90X	53.8	68.3	75.2	77.8	80.6	81.1	80.2	79.4	53.0	66.2	72.7	76.2	76.4	78.2	77.6	76.3
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature 0°C
Evaporating temperature -5°C

TRE 80s - 90X	51.0	63.3	69.6	72.8	74.2	74.5	74.0	72.8	48.7	60.0	65.7	68.8	69.9	69.9	69.5	68.3
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -10°C
Evaporating temperature -15°C

TRE 80s - 90X	45.9	56.3	61.4	64.0	65.1	65.1	64.5	63.3	42.9	52.2	56.7	59.0	59.9	59.9	59.2	58.1
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -20°C
Evaporating temperature -25°C

TRE 80s - 90X	39.3	47.7	51.7	53.8	54.5	54.5	53.8	52.6	35.7	43.2	46.8	48.5	49.1	48.9	48.2	47.0
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -30°C
Evaporating temperature -35°C

TRE 80s - 90X	32.0	38.5	41.7	43.1	43.6	43.4	42.7	41.6	28.2	34.0	36.7	37.9	38.2	38.0	37.3	36.3
---------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Evaporating temperature -40°C

TRE 80s - 90X	24.5	29.5	31.8	32.8	33.1	32.8	32.2	31.2
---------------	------	------	------	------	------	------	------	------

Correction factors for subcooling Δt_s

Δt_s	4 K	10 K	15 K	20 K	25 K	30 K	35 K	40 K	45 K	50 K
R 407C	1.00	1.08	1.14	1.21	1.27	1.33	1.39	1.45	1.51	1.57

Supplementary data sheet Thermostatic expansion valve, type TRE80s - 90 X/Z
Rated capacity (°F)

Capacity in TR for range N and K and opening superheat OS = 7°F

R 407C

Type and rated capacity Q_{nom} TR	Pressure drop across valve Δp psi								Pressure drop across valve Δp psi							
	40	70	100	130	160	190	220	250	40	70	100	130	160	190	220	250
	Evaporating temperature +50°F								Evaporating temperature +40°F							
TRE80s - 90	71.9	83.6	90.1	94.0	95.6	95.7	94.8	93.2	68.7	80.5	86.4	89.9	91.5	91.3	90.3	88.9
	Evaporating temperature +30°F								Evaporating temperature +20°F							
TRE80s - 90	65.8	76.5	82.1	84.9	86.0	85.9	84.9	83.3	61.7	71.7	76.7	79.2	80.5	79.9	78.8	77.2
	Evaporating temperature +10°F								Evaporating temperature 0°F							
TRE80s - 90	57.6	66.3	70.9	72.8	73.5	73.2	72.1	70.5	52.4	60.4	64.2	66.0	66.5	66.1	65.0	63.5
	Evaporating temperature -10°F								Evaporating temperature -20°F							
TRE80s - 90	47.2	54.1	57.5	59.0	59.4	58.9	57.8	56.3	41.8	47.8	50.7	51.9	52.1	51.6	50.6	49.2
	Evaporating temperature -30°F								Fordampningstemperatur -40°F							
TRE80s - 90	36.4	41.6	44.0	45.0	45.1	44.6	43.6	42.3	31.2	35.6	37.6	38.4	38.4	37.9	37.0	35.8

Max. capacity (°F)

	Evaporating temperature +50°F								Evaporating temperature +40°F							
TRE80s - 90	82.9	98.8	107.9	112.5	115.1	116.2	116.1	115.0	82.9	99.6	108.3	112.9	115.5	116.4	116.4	115.4
	Evaporating temperature +30°F								Evaporating temperature +20°F							
TRE80s - 90	84.8	99.9	108.2	112.8	115.2	116.3	116.0	115.2	85.3	100.0	107.8	112.2	114.7	115.6	115.5	114.5
	Evaporating temperature +10°F								Evaporating temperature 0°F							
TRE80s - 90	85.3	99.7	107.0	111.3	113.7	114.6	114.5	113.5	85.0	98.7	105.8	110.2	112.5	113.4	113.2	112.1
	Evaporating temperature -10°F								Evaporating temperature -20°F							
TRE80s - 90	84.2	97.6	104.9	108.7	111.0	111.8	111.6	110.4	83.2	96.2	103.1	107.1	109.4	110.1	109.8	108.5
	Evaporating temperature -30°F								Evaporating temperature -40°F							
TRE80s - 90	82.0	94.7	101.4	105.4	107.5	108.2	107.8	106.5	80.7	93.0	99.7	103.6	105.5	106.1	105.6	104.2

Capacity per OS (°F)

	Evaporating temperature +50°F								Evaporating temperature +40°F							
TRE80s - 90	10.0	11.6	12.5	13.1	13.3	13.3	13.2	12.9	9.5	11.2	12.0	12.5	12.7	12.7	12.5	12.4
	Evaporating temperature +30°F								Evaporating temperature +20°F							
TRE80s - 90	9.1	10.6	11.4	11.8	11.9	11.9	11.8	11.6	8.6	10.0	10.7	11.0	11.2	11.1	10.9	10.7
	Evaporating temperature +10°F								Evaporating temperature 0°F							
TRE80s - 90	8.0	9.2	9.8	10.1	10.2	10.2	10.0	9.8	7.3	8.4	8.9	9.2	9.2	9.2	9.0	8.8
	Evaporating temperature -10°F								Evaporating temperature -20°F							
TRE80s - 90	6.5	7.5	8.0	8.2	8.2	8.2	8.0	7.8	5.8	6.6	7.0	7.2	7.2	7.2	7.0	6.8
	Evaporating temperature -30°F								Evaporating temperature -40°F							
TRE80s - 90	5.1	5.8	6.1	6.3	6.3	6.2	6.1	5.9	4.3	4.9	5.2	5.3	5.3	5.3	5.1	5.0

 Correction factors for subcooling Δt_{sub}

Δt_{sub}	10°F	20°F	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F
R 407C	1.00	1.08	1.16	1.24	1.31	1.38	1.46	1.53	1.60	1.67

Danfoss påtager sig intet ansvar for mulige fejl i kataloger, brochurer og andet trykt materiale. Danfoss forbeholder sig ret til uden forudgående varsel at foretage ændringer i sine produkter, herunder i produkter, som allerede er i ordre, såfremt dette kan ske uden at ændre allerede aftalte specifikationer. Alle varemærker i dette materiale tilhører de respektive virksomheder. Danfoss og Danfoss-logoet er varemærker tilhørende Danfoss A/S. Alle rettigheder forbeholdes.



6430 Nordborg
Danmark