

### 3 Application ranges

- BSE32: Basic viscosity 32 cSt at 40°C. Stationary refrigeration and air conditioning systems with condensing temperatures up to 70°C.
- BSE55: Basic viscosity 55 cSt at 40°C. Mobile refrigeration and air conditioning systems with condensing temperatures > 70°C.
- R22: see chapter Use of polyolester oils with chlorinated (H)CFC refrigerants (R22 etc.), page 7. Other replacement refrigerants for R22, their application ranges and recommended oils can be found in the Technical Information KT-651.

#### BSE32

Refrigerant	Application ranges			
R134a	–	H	M	(L)
R1234ze(E)	–		M	(L)
R404A	–	(H)	M	L
R407A	–	(H)	M	L
R407C		H	M	
R507A		(H)	M	L
R22	–	–	M	L

#### BSE55

Refrigerant	Application ranges			
R134a	HH	H	M	(L)
R1234ze(E)	--	H	M	(L)
R407C	--	H	M	
R410A	–	H	M	(L)
R22	--	H	M	L

#### Definition/Legend of the application ranges

HH	High temperature air conditioning range ( $t_o$ up to 25°C)
H	High temperature range
M	Medium temperature range
L	Low temperature range
( )	Less recommended application range (partially with restrictions, e.g. L range in case of R134a)

Refrigerant	Also applicable for
R134a	R450A, R513A, R1234yf
R404A	R448A, R449A, R452A
R407A	R407F

### 4 Properties of the BITZER polyolester oils

**i Information**  
The listed oils are categorized as group KD according to DIN 51503, Part 1. To determine the used condition of the oil, e.g. with respect to water content or total acid number (TAN), the reference values of the standard DIN 51503, part 2, apply.

#### 4.1 Technical data BSE32 and BSE55

	BSE32	BSE55	Unit
Density at 15°C	1.006	1.010	g/ml
Flashpoint	247	280	°C
Pour point	-57	-48	°C
Kinematic viscosity			
• at 20°C	74	147	cSt
• at 40°C	32	55	cSt
• at 100°C	6	9	cSt



### 4.3 Refrigerant concentration in oil

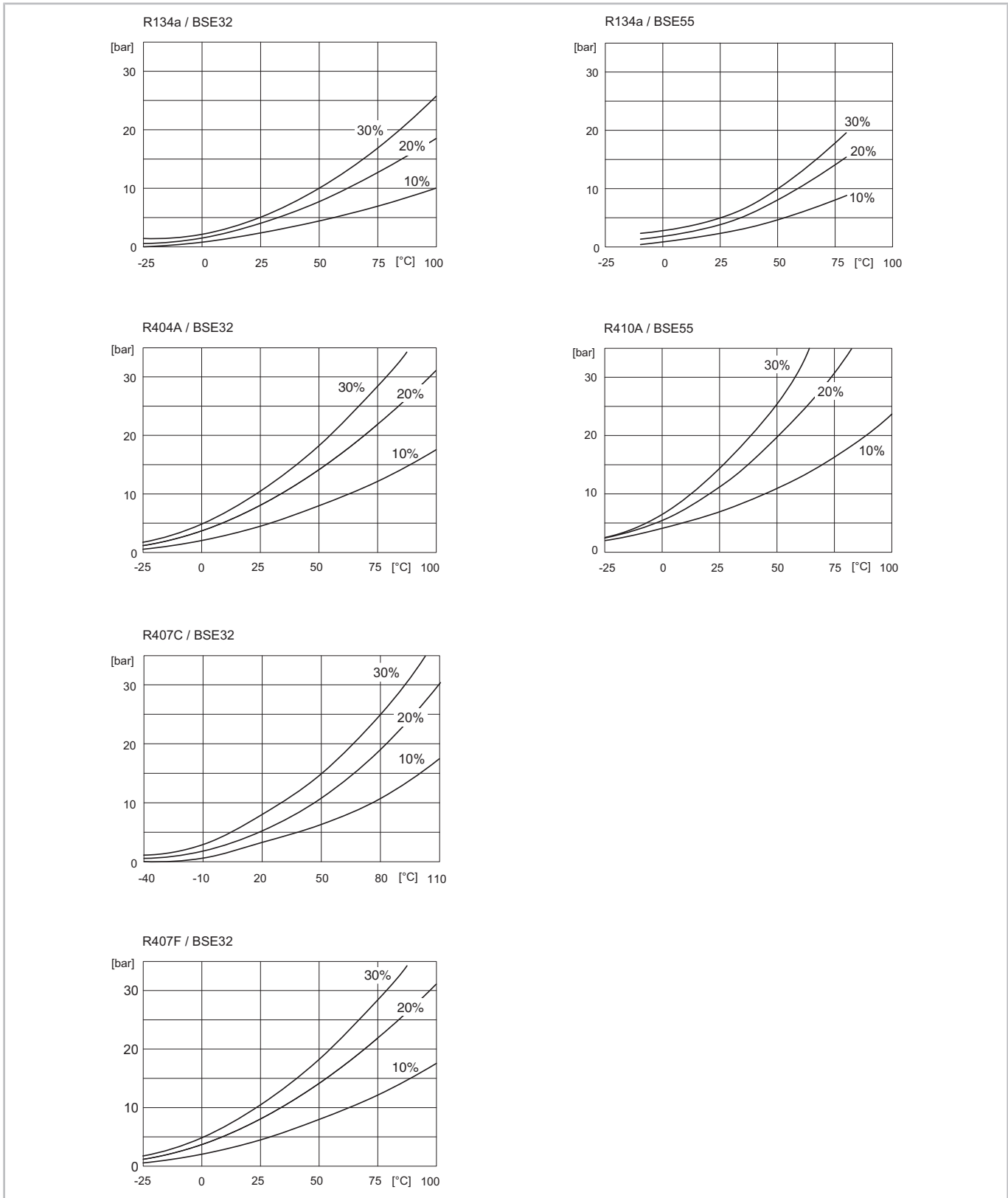


Fig. 2: Refrigerant pressure depending on the oil temperature and the refrigerant content (mass % of refrigerant in oil-refrigerant blend)