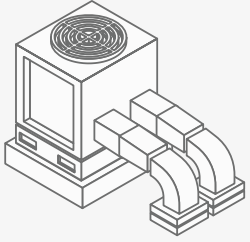
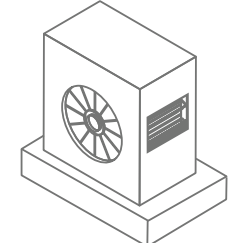
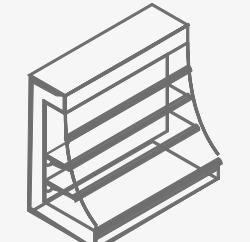
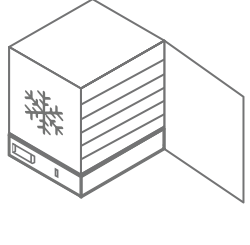
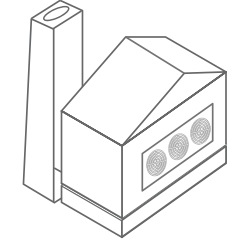
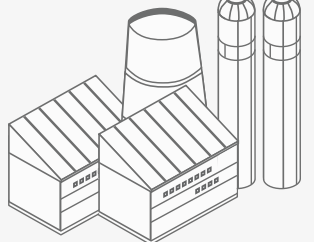
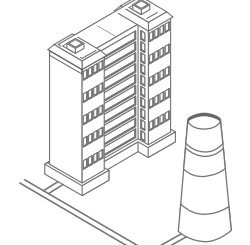

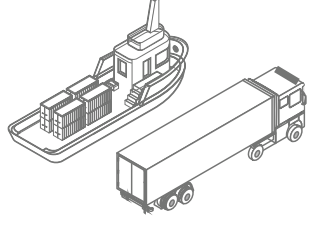
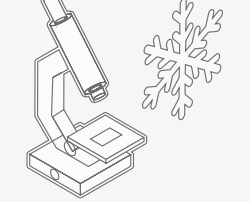


# Koudemiddel alternatieven goedgekeurd voor F-Gas III

Toepassing	Huidig koudemiddel	Nieuwe apparatuur		
		Laag GWP (<750) Tussentijdse oplossing	Heel laag GWP (<150) Langtermijnoplossing	
<b>AIRCONDITIONING</b> 	Ijswatermachine	• R-134a (1430 - A1) ◆	• R-513A (629 - A1) ◆ • R-515B (288 - A1) ◆	• R-1234ze (1,37 - A2L) ◆ • R-1234yf (0,5 - A2L) ◆
	Ijswatermachine Single split of VRF systeem	• R-410A (2088 - A1) ◆	• R-32 (675 - A2L) ◆ • R-452B (697 - A2L) ◆ • R-454B (465 - A2L) ◆	• R-1234ze (1,37 - A2L) ◆
<b>WARMTEPOMPEN</b> 	Monobloc (buiten)	• R-410A (2088 - A1) ◆	• R-32 (675 - A2L) ◆ • R-454B (465 - A2L) ◆	• Propan* (R-290) (0,02 - A3) ◆ • R-1234yf (0,5 - A2L) ◆ • R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆
	Splitsystemen	• R-410A (2088 - A1) ◆	• R-32 (675 - A2L) ◆ • R-454B (465 - A2L) ◆	• R-1234yf (0,5 - A2L) ◆ • R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆
<b>COMMERCIEËLE KOELING</b> (Retail) 	Meerdere compressoren >40kW	• R-448A (1386 - A1) ◆ • R-449A (1396 - A1) ◆		• CO <sub>2</sub> (R-744) (1 - A1) ◆ • R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆
	Eén compressor of <40kW	• R-448A (1386 - A1) ◆ • R-449A (1396 - A1) ◆	• R-454A (237 - A2L) ◆	• R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆
<b>COMMERCIEËLE KOELING</b> (Niet-retail) & <b>SEMI-INDUSTRIEEL</b>  	MT koelgroep	• R-134a (1430 - A1) ◆	• R-513A (629 - A1) ◆ • R-515B (288 - A1) ◆	• R-1234ze (1,37 - A2L) ◆ • R-1234yf (0,5 - A2L) ◆
	LT Koelgroep	• R-448A (1386 - A1) ◆ • R-449A (1396 - A1) ◆ • R-407F (1825 - A1) ◆	• R-454A (237 - A2L) ◆	• R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆
	Snelvriezer	• R-448A (1386 - A1) ◆ • R-449A (1396 - A1) ◆	• R-454A (237 - A2L) ◆	• R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆
	Snelvriezer	• R-448A (1386 - A1) ◆ • R-449A (1396 - A1) ◆ • R-452A (2139 - A1) ◆	• R-454A (237 - A2L) ◆	• R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆ • CO <sub>2</sub> (R-744) (1 - A1) ◆
<b>INDUSTRIEEL</b> 	Ijswatermachine / Koelgroep / DX Systeem	• R-448A (1386 - A1) ◆ • R-449A (1396 - A1) ◆	• R-454A (237 - A2L) ◆	• R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆ • CO <sub>2</sub> (R-744) (1 - A1) ◆
	ORC (Organische rankinecyclus)	• R-134a (1430 - A1) ◆	• R-513A (629 - A1) ◆ • R-515B (288 - A1) ◆	• R-1234ze (1,37 - A2L) ◆ • R-1234yf (0,5 - A2L) ◆
	Bad verdamping	• R-134a (1430 - A1) ◆	• R-513A (629 - A1) ◆ • R-515B (288 - A1) ◆	• R-1234ze (1,37 - A2L) ◆ • R-1234yf (0,5 - A2L) ◆
	Hoge temperatuur warmtepomp	• Ammoniak (R-717) (0 - B2L) ◆ • R-507A (3985 - A1) ◆		• Ammoniak (R-717) (0 - B2L) ◆ • R-1234ze (1,37 - A2L) alleen MT ◆
		• R-134a (1430 - A1) ◆		• R-1234ze (1,37 - A2L) ◆ • R-1233zd (3,88 - A1) ◆
		• Ammoniak (R-717) (0 - B2L) ◆ • Propan* (R-290) (0,02 - A3) ◆		• Ammoniak (R-717) (0 - B2L) ◆ • Propan* (R-290) (0,02 - A3) ◆
<b>STADSVERWARMING EN -KOELING</b> 		• R-134a (1430 - A1) ◆ • R-507A (3985 - A1) ◆	• R-513A (629 - A1) ◆ • R-515B (288 - A1) ◆	• R-1234ze (1,37 - A2L) ◆ • R-1233zd (3,88 - A1) ◆
<b>AUTOMOBIEL</b> 	Airconditioning	• R-134a (1430 - A1) ◆	• R-456A (685 - A1) ◆	• R-1234yf (0,5 - A2L) ◆
<b>TRANSPORT</b> 	Klein	• R-134a (1430 - A1) ◆	• R-513A (629 - A1) ◆	• R-1234yf (0,5 - A2L) ◆
	Groot	• R-452A (2139 - A1) ◆	• R-454A (237 - A2L) ◆	• R-454C (146 - A2L) ◆ • R-455A (146 - A2L) ◆
<b>HEEL LAGE TEMPERATUUR</b> (<-50°C) 	Medische opslag Vriesdrogers Testruimte	• R-23 (14800 - A1) ◆ • R-508B (13504 - A1) ◆	Bestaande en nieuwe apparatuur Laagst mogelijke GWP • R-473A (1831 - A1) ◆	

IPCC 4 & 6 waarden volgens F-Gas III / A1 = niet-ontvlambaar / A2L = licht ontvlambaar / A3 = zeer ontvlambaar / B2L = giftig en licht ontvlambaar.

\* Lucht / water warmtepomp.

climalife.com

VIND ONS OP:



climalife®