
ALLE STANDARD HFC, CFC UND HCFC KÄLTEMITTEL

Gruppe	ASHRAE	Chemische Bezeichnung
CFC	R-11	Trichlorofluoromethane
CFC	R-111	Pentachlorofluoroethane
CFC	R-112	1,1,2,2-Tetrachloro-1,2-difluoroethane
CFC	R-112a	1,1,1,2-Tetrachloro-2,2-difluoroethane
CFC	R-113	1,1,2-Trichloro-1,2,2-trifluoroethane
CFC	R-113a	1,1,1-Trichloro-2,2,2-trifluoroethane
CFC	R-114	1,2-Dichlorotetrafluoroethane
CFC	R-114a	1,1-Dichlorotetrafluoroethane
CFC	R-115	Chloropentafluoroethane
CFC	R-12	Dichlorodifluoromethane
HCFC	R-121	1,1,2,2-Tetrachloro-1-fluoroethane
HCFC	R-121a	1,1,1,2-Tetrachloro-2-fluoroethane
HCFC	R-122	1,1,2-Trichloro-2,2-difluoroethane
HCFC	R-122a	1,1,2-Trichloro-1,2-difluoroethane
HCFC	R-122b	1,1,1-Trichloro-2,2-difluoroethane
HCFC	R-123	2,2-Dichloro-1,1,1-trifluoroethane
HCFC	R-123a	1,2-Dichloro-1,1,2-trifluoroethane
HCFC	R-123b	1,1-Dichloro-1,2,2-trifluoroethane
HCFC	R-124	1-Chloro-1,2,2,2-tetrafluoroethane
HCFC	R-124a	1-Chloro-1,1,2,2-tetrafluoroethane
HFC	R-125	Pentafluoroethane
CFC	R-13	Chlorotrifluoromethane
HCFC	R-131	1,1,2-Trichloro-2-fluoroethane
HCFC	R-131a	1,1,2-Trichloro-1-fluoroethane
HCFC	R-131b	1,1,1-Trichloro-2-fluoroethane
HCFC	R-132	Dichlorodifluoroethane
HCFC	R-132a	1,1-Dichloro-2,2-difluoroethane
HCFC	R-132b	1,2-Dichloro-1,1-difluoroethane
HCFC	R-132c	1,1-Dichloro-1,2-difluoroethane
HCFC	R-133	1-Chloro-1,2,2-Trifluoroethane
HCFC	R-133a	1-Chloro-2,2,2-Trifluoroethane
HCFC	R-133b	1-Chloro-1,1,2-Trifluoroethane
HFC	R-134	1,1,2,2-Tetrafluoroethane
HFC	R-134a	1,1,1,2-Tetrafluoroethane
HCFC	R-141	1,2-Dichloro-1-fluoroethane
HCFC	R-141a	1,1-Dichloro-2-fluoroethane
HCFC	R-141b	1,1-Dichloro-1-fluoroethane
HCFC	R-142a	1-Chloro-1,2-difluoroethane
HCFC	R-142b	1-Chloro-1,1-difluoroethane
HFC	R-143	1,1,2-Trifluoroethane
HFC	R-143a	1,1,1-Trifluoroethane

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Gruppe	ASHRAE	Chemische Bezeichnung
HFC	R-143m	Methyl trifluoromethyl ether
HCFC	R-151	1-Chloro-2-fluoroethane
HCFC	R-151a	1-Chloro-1-fluoroethane
HFC	R-152	1,2-Difluoroethane
HFC	R-152a	1,1-Difluoroethane
HFC	R-161	Fluoroethane
HCFC	R-21	Dichlorodifluoromethane
CFC	R-211	1,1,1,2,2,3,3-Heptachloro-3-fluoropropane
CFC	R-212	Hexachlorodifluoropropane
CFC	R-213	1,1,1,3,3-Pentachloro-2,2,3-trifluoropropane
CFC	R-214	1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane
CFC	R-215	1,1,1-Trichloro-2,2,3,3,3-pentafluoropropane
CFC	R-216	1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane
CFC	R-216ca	1,3-Dichloro-1,1,2,2,3,3-hexafluoropropane
CFC	R-217	1-Chloro-1,1,2,2,3,3,3-heptafluoropropane
CFC	R-217ba	2-Chloro-1,1,1,2,3,3,3-heptafluoropropane
HCFC	R-22	Chlorodifluoromethane
HCFC	R-221	1,1,1,2,2,3-Hexachloro-3-fluoropropane
HCFC	R-222	Pentachlorodifluoropropane
HCFC	R-222c	1,1,1,3,3-Pentachloro-2,2-difluoropropane
HCFC	R-223	Tetrachlorotrifluoropropane
HCFC	R-223ca	1,1,3,3-Tetrachloro-1,2,2-trifluoropropane
HCFC	R-223cb	1,1,1,3-Tetrachloro-2,2,3-trifluoropropane
HCFC	R-224	Trichlorotetrafluoropropane
HCFC	R-224ca	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane
HCFC	R-224cb	1,1,3-Trichloro-1,2,2,3-tetrafluoropropane
HCFC	R-224cc	1,1,1-Trichloro-2,2,3,3-tetrafluoropropane
HCFC	R-225	Dichloropentafluoropropane
HCFC	R-225aa	2,2-Dichloro-1,1,1,3,3-pentafluoropropane
HCFC	R-225ba	2,3-Dichloro-1,1,1,2,3-pentafluoropropane
HCFC	R-225bb	1,2-Dichloro-1,1,2,3,3-pentafluoropropane
HCFC	R-225ca	3,3-Dichloro-1,1,1,2,2-pentafluoropropane
HCFC	R-225cb	1,3-Dichloro-1,1,2,2,3-pentafluoropropane
HCFC	R-225cc	1,1-Dichloro-1,2,2,3,3-pentafluoropropane
HCFC	R-225da	1,2-Dichloro-1,1,3,3,3-pentafluoropropane
HCFC	R-225ea	1,3-Dichloro-1,1,2,3,3-pentafluoropropane
HCFC	R-225eb	1,1-Dichloro-1,2,3,3,3-pentafluoropropane
HCFC	R-226	Chlorohexafluoropropane
HCFC	R-226ba	2-Chloro-1,1,1,2,3,3-hexafluoropropane
HCFC	R-226ca	3-Chloro-1,1,1,2,2,3-hexafluoropropane
HCFC	R-226cb	1-Chloro-1,1,2,2,3,3-hexafluoropropane

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Gruppe	ASHRAE	Chemische Bezeichnung
HCFC	R-226da	2-Chloro-1,1,1,3,3,3-hexafluoropropane
HCFC	R-226ea	1-Chloro-1,1,2,3,3,3-hexafluoropropane
HFC	R-227ca	1,1,2,2,3,3-Heptafluoropropane
HFC	R-227ca2	Trifluoromethyl 1,1,2,2-tetrafluoroethyl ether
HFC	R-227ea	1,1,1,2,3,3-Heptafluoropropane
HFC	R-227me	Trifluoromethyl 1,2,2,2-tetrafluoroethyl ether
HFC	R-23	Trifluoromethane (Fluoroform)
HCFC	R-231	Pentachlorofluoropropane
HCFC	R-232	Tetrachlorodifluoropropane
HCFC	R-232ca	1,1,3,3-Tetrachloro-2,2-difluoropropane
HCFC	R-232cb	1,1,1,3-Tetrachloro-2,2-difluoropropane
HCFC	R-233	Trichlorotrifluoropropane
HCFC	R-233ca	1,1,3-Trichloro-2,2,3-trifluoropropane
HCFC	R-233cb	1,1,3-Trichloro-1,2,2-trifluoropropane
HCFC	R-233cc	1,1,1-Trichloro-2,2,3-trifluoropropane
HCFC	R-234	Dichlorotetrafluoropropane
HCFC	R-234aa	2,2-Dichloro-1,1,3,3-tetrafluoropropane
HCFC	R-234ab	2,2-Dichloro-1,1,1,3-tetrafluoropropane
HCFC	R-234ba	1,2-Dichloro-1,2,3,3-tetrafluoropropane
HCFC	R-234bb	2,3-Dichloro-1,1,1,2-tetrafluoropropane
HCFC	R-234bc	1,2-Dichloro-1,1,2,3-tetrafluoropropane
HCFC	R-234ca	1,3-Dichloro-1,2,2,3-tetrafluoropropane
HCFC	R-234cb	1,1-Dichloro-2,2,3,3-tetrafluoropropane
HCFC	R-234cc	1,3-Dichloro-1,1,2,2-tetrafluoropropane
HCFC	R-234cd	1,1-Dichloro-1,2,2,3-tetrafluoropropane
HCFC	R-234da	2,3-Dichloro-1,1,1,3-tetrafluoropropane
HCFC	R-234fa	1,3-Dichloro-1,1,3,3-tetrafluoropropane
HCFC	R-234fb	1,1-Dichloro-1,3,3,3-tetrafluoropropane
HCFC	R-235	Chloropentafluoropropane
HCFC	R-235ca	1-Chloro-1,2,2,3,3-pentafluoropropane
HCFC	R-235cb	3-Chloro-1,1,1,2,3-pentafluoropropane
HCFC	R-235cc	1-Chloro-1,1,2,2,3-pentafluoropropane
HCFC	R-235da	2-Chloro-1,1,1,3,3-pentafluoropropane
HCFC	R-235fa	1-Chloro-1,1,3,3,3-pentafluoropropane
HFC	R-236cb	1,1,1,2,2,3-Hexafluoropropane
HFC	R-236ea	1,1,1,2,3,3-Hexafluoropropane
HFC	R-236fa	1,1,1,3,3,3-Hexafluoropropane
HFC	R-236me	1,2,2,2-Tetrafluoroethyl difluoromethyl ether
HCFC	R-241	Tetrachlorofluoropropane
HCFC	R-242	Trichlorodifluoropropane
HCFC	R-243	Dichlorotrifluoropropane

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Gruppe	ASHRAE	Chemische Bezeichnung
HCFC	R-243ca	1,3-Dichloro-1,2,2-trifluoropropane
HCFC	R-243cb	1,1-Dichloro-2,2,3-trifluoropropane
HCFC	R-243cc	1,1-Dichloro-1,2,2-trifluoropropane
HCFC	R-243da	2,3-Dichloro-1,1,1-trifluoropropane
HCFC	R-243ea	1,3-Dichloro-1,2,3-trifluoropropane
HCFC	R-243ec	1,3-Dichloro-1,1,2-trifluoropropane
HCFC	R-244	Chlorotetrafluoropropane
HCFC	R-244ba	2-Chloro-1,2,3,3-tetrafluoropropane
HCFC	R-244bb	2-Chloro-1,1,1,2-tetrafluoropropane
HCFC	R-244ca	3-Chloro-1,1,2,2-tetrafluoropropane
HCFC	R-244cb	1-Chloro-1,2,2,3-tetrafluoropropane
HCFC	R-244cc	1-Chloro-1,1,2,2-tetrafluoropropane
HCFC	R-244da	2-Chloro-1,1,3,3-tetrafluoropropane
HCFC	R-244db	2-Chloro-1,1,1,3-tetrafluoropropane
HCFC	R-244ea	3-Chloro-1,1,2,3-tetrafluoropropane
HCFC	R-244eb	3-Chloro-1,1,1,2-tetrafluoropropane
HCFC	R-244ec	1-Chloro-1,1,2,3-tetrafluoropropane
HCFC	R-244fa	3-Chloro-1,1,1,3-tetrafluoropropane
HCFC	R-244fb	1-Chloro-1,1,3,3-tetrafluoropropane
HFC	R-245ca	1,1,2,2,3-Pentafluoropropane
HFC	R-245cb	Pentafluoropropane
HFC	R-245ea	1,1,2,3,3-Pentafluoropropane
HFC	R-245eb	1,1,1,2,3-Pentafluoropropane
HFC	R-245fa	1,1,1,3,3-Pentafluoropropane
HFC	R-245mc	Methyl pentafluoroethyl ether
HFC	R-245mf	Difluoromethyl 2,2,2-trifluoroethyl ether
HFC	R-245qc	Difluoromethyl 1,1,2-trifluoroethyl ether
HCFC	R-251	Trichlorofluoropropane
HCFC	R-252	Dichlorodifluoropropane
HCFC	R-252ca	1,3-Dichloro-2,2-difluoropropane
HCFC	R-252cb	1,1-Dichloro-2,2-difluoropropane
HCFC	R-252dc	1,2-Dichloro-1,1-difluoropropane
HCFC	R-252ec	1,1-Dichloro-1,2-difluoropropane
HCFC	R-253	Chlorotrifluoropropane
HCFC	R-253ba	2-Chloro-1,2,3-trifluoropropane
HCFC	R-253bb	2-Chloro-1,1,2-trifluoropropane
HCFC	R-253ca	1-Chloro-2,2,3-trifluoropropane
HCFC	R-253cb	1-Chloro-1,2,2-trifluoropropane
HCFC	R-253ea	3-Chloro-1,1,2-trifluoropropane
HCFC	R-253eb	1-Chloro-1,2,3-trifluoropropane
HCFC	R-253ec	1-Chloro-1,1,2-trifluoropropane

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Gruppe	ASHRAE	Chemische Bezeichnung
HCFC	R-253fa	3-Chloro-1,3,3-trifluoropropane
HCFC	R-253fb	3-Chloro-1,1,1-trifluoropropane
HCFC	R-253fc	1-Chloro-1,1,3-trifluoropropane
HFC	R-254cb	1,1,2,2-Tetrafluoropropane
HFC	R-254pc	Methyl 1,1,2,2-tetrafluoroethyl ether
HCFC	R-261	Dichlorofluoropropane
HCFC	R-261ba	1,2-Dichloro-2-fluoropropane
HCFC	R-262	Chlorodifluoropropane
HCFC	R-262ca	1-Chloro-2,2-difluoropropane
HCFC	R-262fa	3-Chloro-1,1-difluoropropane
HCFC	R-262fb	1-Chloro-1,3-difluoropropane
HFC	R-263	Trifluoropropane
HCFC	R-271	Chlorofluoropropane
HCFC	R-271b	2-Chloro-2-fluoropropane
HCFC	R-271d	2-Chloro-1-fluoropropane
HCFC	R-271fb	1-Chloro-1-fluoropropane
HFC	R-272	Difluoropropane
HFC	R-281	Fluoropropane
HCFC	R-31	Chlorofluoromethane
HFC	R-32[14]	Difluoromethane
HFC	R-329ccb	1,1,1,2,2,3,3,4,4-Nonafluorobutane
HFC	R-338eea	1,1,1,2,3,4,4,4-Octafluorobutane
HFC	R-347ccd	1,1,1,2,2,3,3-Heptafluorobutane
HFC	R-347mcc	Perfluoropropyl methyl ether
HFC	R-347mmy	Perfluoroisopropyl methyl ether
HFC	R-365mfc	1,1,1,3,3-Pentafluorobutane
CFC	R-400	R-12/114(50/50 wt%) OR
HCFC	R-401A	R-22/152a/124 (53±2/13+.5,-1.5/34±1)
HCFC	R-401B	R-22/152a/124 (61±2/11+.5,-1.5/28±1)
HCFC	R-401C	R-22/152a/124 (33±2/15+.5,-1.5/52±1)
HCFC	R-402A	R-125/290/22 (60±2/2±1/38±2)
HCFC	R-402B	R-125/290/22 (38±2/2±1/60±2)
HCFC	R-403A	R-290/22/218 (5+.2,-2/75±2/20±0)
HCFC	R-403B	R-290/22/218 (5+.2,-2/56±2/39±0)
HFC	R-404A	R-125/143a/134a (44±2/52±1/4±2)
HCFC	R-405A	R-22/152a/142b/C318 (45±0/7±1/5.5±1/42.5±2)
HCFC	R-406A	R-22/600a/142b (55±2/4±1/41±0)
HCFC	R-406B	R-22/600a/142b (65±2/4±1/31±0)
HFC	R-407A	R-32/125/134a (20±2/40±2/40±2)
HFC	R-407B	R-32/125/134a (10±2/70±2/20±2)

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Gruppe	ASHRAE	Chemische Bezeichnung
HFC	R-407C	R-32/125/134a (23±2/25±2/52±2)
HFC	R-407D	R-32/125/134a (15±2/15±2/70±2)
HFC	R-407E	R-32/125/134a (25±2/15±2/60±2)
HFC	R-407F	R-32/125/134a (30±2/30±2/40±2)
HCFC	R-408A	R-125/143a/22 (7±2/46±1/47±2)
HCFC	R-409A	R-22/124/142b (60±2/25±2/15±1)
HCFC	R-409B	R-22/124/142b (65±2/25±2/10±1)
HFC	R-41	Fluoromethane
HFC	R-410A	R-32/125 (50±.5,-1.5/50±1.5,-.5)
HFC	R-410B	R-32/125 (45±1/55±1)
HCFC	R-412A	R-22/218/142b (70±2/5±2/25±1)
HFC	R-413A	R-218/134a/600a (9±1/88±2/3+0,-1)
HCFC	R-414A	R-22/124/600a/142b (51±2/28.5±2/4±.5/16.5±.5,-1)
HCFC	R-414B	R-22/124/600a/142b (50±2/39±2/1.5±.5/9.5±.5,-1)
HCFC	R-415A	R-22/152a (82±1/18±1)
HCFC	R-415B	R-22/152a (25±1/75±1)
HCFC	R-416A	R-134a/124/600 (59±.5,-1/39.5±1,-.5/1.5±1,-.2)
HFC	R-417A	R-125/134a/600 (46.6±1.1/50±1/3.4±.1,-.4)
HFC	R-417B	R-125/134a/600 (79±1/18.3±1/2.7±.1,-.5)
HCFC	R-418A	R-290/22/152a (1.5±.5/96±1/2.5±.5)
HFC	R-419A	R-125/134a/E170 (77±1/19±1/4±1)
HCFC	R-420A	R-134a/142b (88±1,-0/12+0,-1)
HFC	R-421A	R-125/134a (58±1/42±1)
HFC	R-421B	R-125/134a (85±1/15±1)
HFC	R-422A	R-125/134a/600a (85.1±1/11.5±1/3.4±.1,-.4)
HFC	R-422B	R-125/134a/600a (55±1/42±1/3±.1,-.5)
HFC	R-422C	R-125/134a/600a (82±1/15±1/3±.1,-.5)
HFC	R-422D	R-125/134a/600a (65.1±.9,-1.1/31.5±1/3.4±.1,-.4)
HFC	R-423A	R-134a/227ea (52.5±1/47.5±1)
HFC	R-424A	R-125/134a/600a/600/601a (50.5±1/47±1/.9±.1,-.2/1±.1,.2/.6±.1,-.2)
HFC	R-425A	R-32/134a/227ea (18.5±.5/69.5±.5/12±.5)
HFC	R-426A	R-125/134a/600/601a (5.1±1/93±1/1.3±.1,-.2/.6±.1,-.2)
HFC	R-427A	R-32/125/143a/134a (15±2/25±2/10±2/50±2)
HFC	R-428A	R-125/143a/290/600a (77.5±1/20±1/.6±.1,-.2/1.9±.1,-.2)
HFC	R-429A	R-E170/152a/600a (60±1/10±1/30±1)
HFC	R-430A	R-152a/600a (76±1/24±1)
HFC	R-431A	R-290/152a (71±1/29±1)
HFC	R-434A	R-125/143a/134a/600a (63.2±1/18±1/16±1/2.8±.1,-.2)
HFC	R-435A	R-E170/152a (80±1/20±1)

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Gruppe	ASHRAE	Chemische Bezeichnung
HFC	R-437A	R-125/134a/600/601 (19.5+5,-1.8/78.5+1.5,-.7/1.4+.1,-.2/.6+.1,-.2)
HFC	R-438A	R-32/125/134a/600/601a (8.5+5,-1.5/45±1.5/44.2±1.5/1.7+.1,-.2/.6+.1,-.2)
HFC	R-439A	R-32/125/600a (50±1/47±1/3±.5)
HFC	R-440A	R-290/134a/152a (.6±.1/1.6±.6/97.8±.5)
HFC	R-448A	R-32/125/134a/1234ze/1234yf
HFC	R-458A	R-32/125/134a/227ea/236fa (20.5%/4.0%/61.4%/13.5%/0.6%)
HCFC	R-500	R-12/152a (73.8/26.2)
HCFC	R-501	R-22/12 (75/25)
HCFC	R-502	R-22/115 (48.8/51.2)
HCFC	R-503	R-23/13 (40.1/59.9)
HCFC	R-504	R-32/115 (48.2/51.8)
HCFC	R-505	R-12/31 (78/22)
HCFC	R-506	R-31/114 (55.1/44.9)
HFC	R-507[A]	R-125/143a (50/50)
HFC	R-508[A]	R-23/116 (39/61)
HFC	R-508B	R-23/116 (46/54)
HCFC	R-509[A]	R-22/218 (44/56)
CFC	R-C316	Dichlorohexafluorocyclobutane
CFC	R-C317	Chloroheptafluorocyclobutane
HFC	R-E125	Pentafluorodimethyl ether
HFC	R-E134	Bis(difluoromethyl)ether
HFC	R-E143a	2,2,2-Trifluoroethyl methyl ether
HFC	R-FE-36	Hexafluoropropane