

## 20-Year Global Warming Potentials for Common Refrigerants\*

Refrigerant Class	Refrigerant Name	Refrigerant Composition (Mass %)	Global Warming Potentials	
			AR4 100-Year	AR6 20-Year**
HFO	R-1234yf	R-1234yf (100)	1.00	1.81
HFO	R-1234ze(E)	R-1234ze(E) (100)	1.00	4.94
HFC	R-134a	R-134a (100)	1,430.00	4,140.00
HCFC	R-22	R-22 (100)	1,810.00	5,690.00
Natural	R-290	R-290 (100)	3.00	0.07
HFC	R-32	R-32 (100)	675.00	2,690.00
HCFC	R-401A	R-22/124/152a (53.0/34.0/13.0)	1,182.48	3,796.33
HFC	R-404A	R-125/143a/134a (44.0/52.0/4.0)	3,921.60	7,208.00
HFC	R-407A	R-32/125/134a (20.0/40.0/40.0)	2,107.00	4,890.00
HFC	R-407C	R-32/125/134a (23.0/25.0/52.0)	1,773.85	4,456.50
HFC	R-407F	R-32/125/134a (30.0/30.0/40.0)	1,824.50	4,485.00
HCFC	R-408A	R-22/125/143a (47.0/7.0/46)	3,151.90	6,752.50
HFC	R-410A	R-32/125 (50.0/50.0)	2,087.50	4,715.00
HFC	R-422B	R-125/134a/600a (55.0/42.0/3.0)	2,525.69	5,445.80
HFC	R-427A	R-32/125/143a/134a (15.0/25.0/10.0/50.0)	2,138.25	4,942.50
HFC/HFO	R-448A	R-32/125/1234yf/134a/1234ze(E) (26.0/26.0/20.0/21.0/7.0)	1,386.07	3,321.91
HFC/HFO	R-449A	R-32 /125 /1234yf /134a (24.3/24.7/25.3/25.7)	1,396.29	3,382.89
HFC/HFO	R-450A	R-134a/1234ze(E) (42.0/58.0)	601.18	1,741.67
HFC/HFO	R-452A	R-32/125/1234yf (11.0/59.0/30.0)	2,139.55	4,273.04
HFC	R-453A	R-32/125/134a/227ea/600/601a (20.0/20.0/53.8/5.0/0.6/0.6)	1,765.38	4,405.82
HFC/HFO	R-454A	R-32/1234yf (35.0/65.0)	236.90	942.68
HFC/HFO	R-454B	R-32/1234yf (68.9/31.1)	465.39	1,853.97
HFC/HFO	R-454C	R-32/1234yf (21.5/78.5)	145.91	579.77
HFC/HFO	R-455A	R-744/32/1234yf (3.0/21.5/75.5)	145.91	579.75
HFC/HFO	R-471A	R-1234ze(E)/227ea/1336mzz(E) (78.7/4.3/17.0)	139.59	266.37
HFC	R-507A	R-125/143a (50.0/50.0)	3,985.00	7,290.00
HFC/HFO	R-513A	R-1234yf/134a (56.0/44.0)	629.76	1,822.61
HFC/HFO	R-515B	R-1234ze(E)/227ea (91.1/8.9)	287.49	525.15
Natural	R-717	R-717 (100)	0.00	0.00
Natural	R-744	R-744 (100)	1.00	1.00

\*Please consult the EPA's list of SNAP-acceptable refrigerants to ensure that a refrigerant is legal to use in particular end-use categories. Not all refrigerants listed in the table above are legal to use in all end use sectors.

\*\*NY is using the AR6 20-year GWP; other regulations use AR4 100-year GWP.