



New refrigerants

The number of refrigerants that we automatically support in our software over an extremely wide temperature range has been increased from 31 to 36 using the REFPROP version 10 software.

New have arrived: **R452B, R454B, R454C, R455A, R515B.**

The data for other refrigerants can be entered under number 37 and the heat exchangers can be calculated. It should be noted that these values are only valid for a specific temperature.

No ---	Refrigerant ---	Evaporation > °C	Condensation < °C	Critical Point °C	GWP ---
1	R22	-70.36	95.83	96.15	1810
2	R23	-106.88	25.88	26.14	14800
3	R32	-79.00	77.92	78.11	675
4	R125	-76.28	65.55	66.02	3500
5	R134a	-56.41	100.83	101.06	1430
6	R152a	-55.37	113.07	113.26	124
7	R170 (Ethane)	-114.06	31.86	32.17	6
8	R290 (Propane)	-73.31	96.34	96.74	3
9	R404A	-74.08	71.72	72.12	3922
10	R407A	-66.72	82.03	82.25	2107
11	R407C	-65.02	85.93	86.20	1774
12	R407F	-67.62	82.56	82.60	1825
13	R410A	-78.70	71.15	71.34	2088
14	R413A	-57.98	95.01	95.34	2053
15	R417A	-63.07	85.22	85.42	2346
16	R422A	-72.08	70.27	70.71	3143
17	R422D	-66.71	77.99	78.21	2729
18	R448A	-66.88	82.06	82.68	1386
19	R449A	-67.44	81.26	82.07	1396
20	R450A	-55.04	101.05	104.47	601
21	R452B	-77.57	75.30	77.10	676
22	R454B	-77.33	76.20	78.10	466
23	R454C	-67.29	82.00	85.67	146
24	R455A	-68.37	80.80	85.61	148
25	R507A	-75.43	70.06	70.62	3985
26	R513A	-58.73	94.58	94.91	631
27	R515B	-50.80	107.35	108.47	299
28	R600 (n-Butane)	-36.74	151.40	151.98	4
29	R600a (i-Butane)	-46.85	134.18	146.14	3
30	R717 (Ammonia)	-61.37	132.05	132.41	0
31	R718 (Water)	60.06	250.35	373.95	0
32	R744 (Carbon dioxide)	-55.60	30.76	30.98	1
33	R1233zd	-18.11	164.73	165.6	4.5
34	R1234yf	-48.75	93.47	94.7	4
35	R1234ze	-50.75	108.30	109.36	<1
36	R1270 (Propylene)	-77.88	90.64	91.06	2

If the existing software is not too old, it can be updated via an upgrade. Otherwise, the full version can be purchased. Price on request.