HFC Refrigerants

R-410A

R-410A: Non-flammable refrigerant mostly used in air conditioning

R-410A is an A1 refrigerant gas blend of HFC's that is practically azeotropic. Due to this characteristic, its glide is only 0.1ºC.

It is mainly used in air conditioning and air conditioning equipment such as water chillers, etc. due to its high cooling capacity.

IUPAC name:	ASHRAE Code:
Pentafluoroethane,Difluoromethane	R-410A

Technical specifications:

0	2088	A1	POE
ODP	GWP	Safety classification	Oil

Temperature Range: High and medium.

Replaces:
R-22 in new equipment.

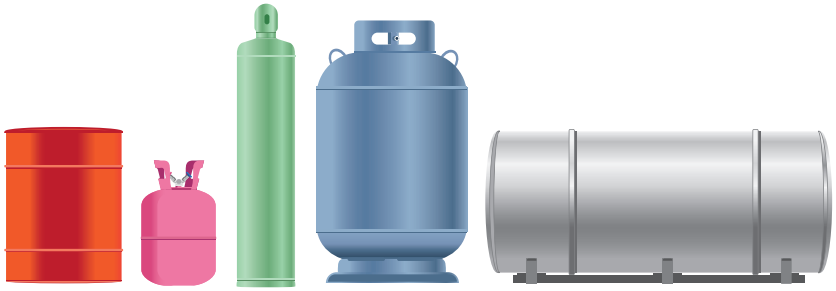
Type of replacement:
Substitute (new equipment).

Applications:

Air conditioning | Commercial | Industrial

Packaging:

- R-410A 25 LB Cylinder
- R-410A 100 LB Cylinder
- R-410A 800 LB Cylinder



Regulatory Standards:

SUMMIT REFRIGERANTS is committed to the continuous improvement of our Quality Control, Environmental impact, and Major Accident Prevention Systems, as well as maintaining full regulatory compliance, and close collaboration with our product and service providers.

Summit Refrigerants is an EPA certified refrigerant reclaimer that provides the US HVACR industry with a broad range of fluorinated refrigerants to include CFCs, HCFCs, HFCs, and HFOs. All refrigerants offered by Summit Refrigerants meet the AHRI 700 standard for new and reclaimed refrigerants, and are packaged in D.O.T. certified cylinders.

Thermodynamic properties chart:

BUBBLE POINT

Temperature (F)	Pressure (psig)	Liquid density (lbm/ft3)	Gas density (lbm/ft3)	Liquid enthalpy (Btu/lbm)	Gas enthalpy (Btu/lbm)
-70	0,35624	1,4067	0,0015216	101,1	396,26
-65	0,48237	1,3916	0,0020234	107,87	398,77
-60	0,64243	1,3763	0,0026494	114,66	401,26
-55	0,84265	1,3608	0,0034207	121,47	403,73
-50	1,0898	1,3451	0,0043603	128,32	406,16
-45	1,3913	1,3292	0,0054932	135,21	408,55
-40	1,755	1,313	0,006847	142,15	410,89
-35	2,1892	1,2966	0,0084518	149,13	413,16
-30	2,703	1,2798	0,010341	156,17	415,36
-25	3,3055	1,2627	0,01255	163,27	417,47
-20	4,0066	1,2451	0,015121	170,44	419,48
-15	4,8165	1,2271	0,018098	177,69	421,39
-10	5,7458	1,2087	0,021533	185,02	423,17
-5	6,8055	1,1896	0,025484	192,46	424,81
0	8,007	1,17	0,03002	200	426,29
5	9,3623	1,1496	0,035219	207,66	427,6
10	10,884	1,1284	0,041177	215,46	428,7
15	12,584	1,1063	0,048006	223,42	429,57
20	14,476	1,0831	0,055847	231,54	430,17
25	16,574	1,0586	0,064874	239,86	430,46
30	18,893	1,0327	0,075312	248,41	430,39

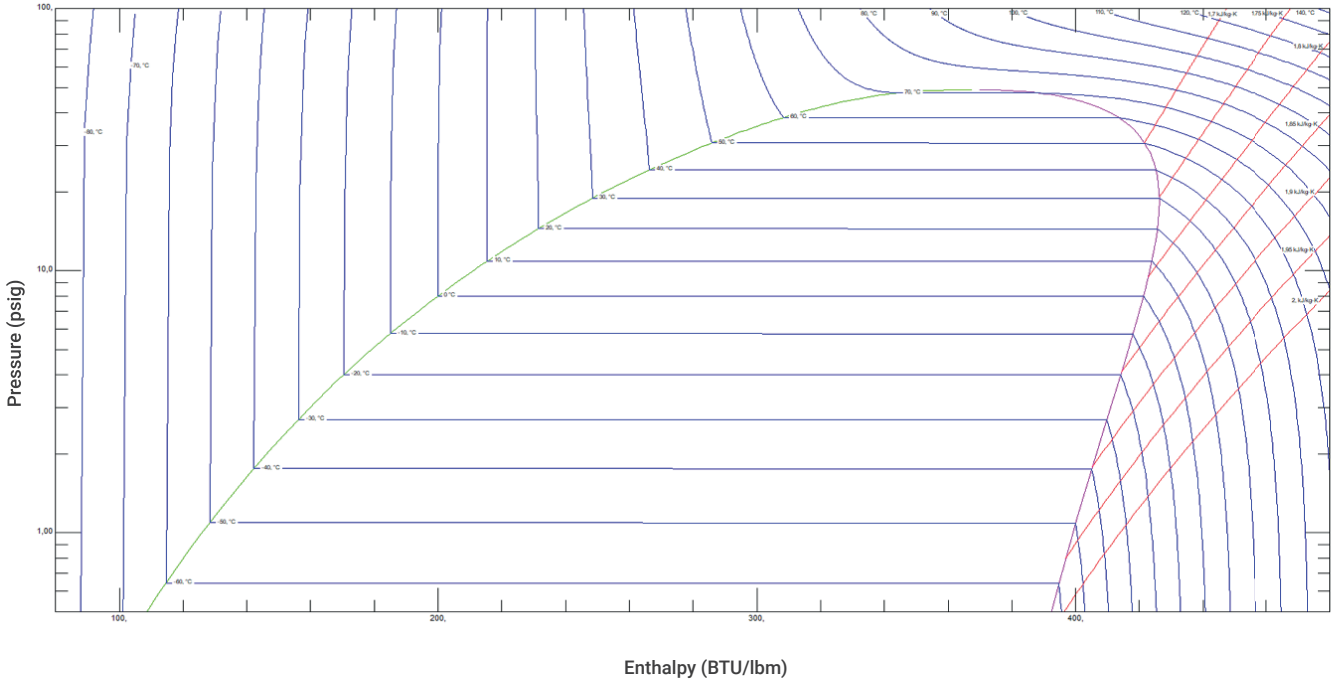
35	21,448	1,0051	0,087455	257,22	429,89
40	24,256	0,97533	0,10171	266,33	428,88
45	27,335	0,94288	0,11866	275,84	427,22
50	30,706	0,9068	0,13919	285,85	424,75

Thermodynamic properties chart:

DEW POINT

Temperature (F)	Pressure (psig)	Liquid density (lbm/ft3)	Gas density (lbm/ft3)	Liquid enthalpy (Btu/lbm)	Gas enthalpy (Btu/lbm)
-70	0,35444	1,4204	0,0015581	102,42	389,2
-65	0,48012	1,4046	0,0020704	109,04	391,98
-60	0,63962	1,3887	0,0027092	115,7	394,72
-55	0,83916	1,3726	0,0034959	122,39	397,4
-50	1,0855	1,3565	0,0044539	129,14	400,02
-45	1,386	1,3401	0,0056088	135,92	402,57
-40	1,7485	1,3235	0,0069885	142,76	405,04
-35	2,1814	1,3067	0,0086236	149,65	407,44
-30	2,6935	1,2896	0,010548	156,61	409,75
-25	3,2931	1,2722	0,012798	163,62	411,97
-20	3,993	1,2543	0,015415	170,72	414,08
-15	4,8002	1,236	0,018446	177,89	416,09
-10	5,7265	1,2173	0,021942	185,15	417,97
-5	6,7827	1,1979	0,025963	192,51	419,71
0	7,9806	1,1779	0,030576	199,98	421,31
5	9,3315	1,1572	0,035863	207,58	422,73
10	10,848	1,1357	0,041917	215,31	423,96
15	12,543	1,1132	0,048855	223,2	424,97
20	14,43	1,0895	0,056814	231,26	425,73
25	16,522	1,0647	0,065972	239,53	426,19
30	18,835	1,0383	0,076553	248,02	426,31
35	21,385	1,0101	0,088851	256,78	426,03
40	24,187	0,97983	0,10327	265,86	425,26
45	27,261	0,94676	0,1204	275,33	423,88
50	30,628	0,91001	0,14114	285,33	421,72

Pressure diagram chart:



Pricing, Availability, Technical Support:

Please email us at the following to request pricing and availability or technical support.

info@summitrefrigerants.com