

A-Gas Rapid Recovery® On-Site High-Speed Recovery Service

We manage every aspect of the refrigerant recovery process; the service comes to you, supplies all the regulatory-compliant documentation, and is up to 10 times faster than traditional recovery methods.



Conversion Factors

Heat Flow

Btu/hr x 0.252 = kcal/hr
 Btu/hr x 0.293 = watts
 watts x 0.86 = kcal/hr
 watts x 3.4129 = Btu/hr
 watts x 0.000284 = ton (refr)
 watts x 0.00133 = HP
 kcal/hr x 1.163 = watts
 kcal/hr x 3.97 = Btu/hr
 HP x 746 = watts
 ton (refr) x 3517 = watts

Pressure

kPa ÷ 6.89 = psi
 inch Hg x 3.39 = kPa
 inch H₂O x 0.249 = kPa
 mm Hg (1 torr) x 0.133 = kPa

Volume

ft³ x 0.02832 = m³

Velocity

fps x 0.3048 = m/s
 fpm x 0.00508 = m/s

Volume Flow

cfm x 0.472 = l/s
 fpm x 0.00508 = m/s
 imp. gal/min x 0.0758 = l/s
 U.S. gal/min x 0.0631 = l/s

Temperature

°C = (°F - 32) ÷ 1.8
 °F = (°C × 1.8) + 32

REFRIG HEAL+H CHECK™ Refrigerant Gas and Oil Analysis Kit

A comprehensive analysis of refrigerant gases in a live system to identify the presence of contaminants, which may impact system performance, efficiency and longevity.

- Comprehensive analysis report, results reported against AHRI 700 standards.
- Improved energy efficiency, by rectifying any issues with compromised fluids.
- Performance benchmarking.
- Preventative maintenance.



TRACE-A-GAS®

Leak Detection Made Easy

A non-flammable mixture of Hydrogen and Nitrogen designed to easily detect leaks in HVAC&R systems. Hydrogen is an ideal leak detection medium due to its exceedingly small molecular size and low viscosity. This allows it to escape easily through any leak in greater volume than other gases, thereby aiding optimal detection.

- Up to 100 times more accurate than traditional bubble spray techniques.
- Save time - no need to wait for bubbles to form for small leaks or perform pressure decay tests.
- Protect the environment from undetected refrigerant leaks. Improve energy efficiency.



Together, We Can Build a Sustainable Future

A-Gas is the world leader in the supply and lifecycle management of refrigerants and associated products and services.

For over 30 years, through our first-class recovery, reclamation, and repurposing processes, we have been capturing refrigerant gas for future re-use or safe destruction, preventing its harmful release into the atmosphere.

Together, we can protect and enhance the environment by effectively managing the lifecycle of refrigerants to build a sustainable future.

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A-GAS®

TOGETHER WE CAN

Pressure
Temperature
Chart



Temperature °C		-48	-46	-44	-42	-40	-38	-36	-34	-32	-30	-28	-26	-24	-22	-20	-18	-16	-14	-12	-10	-8	-6	-4	-2	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	
		HCFC	R22	-30	-22	-14	-6	4	14	25	37	49	63	77	92	108	126	144	163	184	206	229	253	279	306	335	365	397	430	465	501	540	580	622	665	711	759	809	861	915	971	1030	1091	1154	1220	1288	1359	1432	1508	1587	1669	1754	1841	1932	2026	2123	2223
HFC Refrigerants	R134a	-68	-64	-60	-55	-50	-45	-38	-32	-25	-17	-9	0	10	20	31	43	56	69	84	99	116	133	151	171	191	213	236	261	286	313	342	372	403	436	470	507	544	584	626	669	714	761	811	862	915	971	1029	1089	1152	1217	1284	1354	1427	1502	1580	
	R32	20	33	46	61	76	93	111	130	150	172	195	220	247	275	304	336	369	405	442	481	523	567	613	661	712	765	821	880	941	1006	1073	1143	1217	1293	1373	1457	1544	1634	1728	1826	1928	2034	2144	2258	2377	2500	2628	2760	2898	3040	3187	3340	3498	3662	3832	
	R507	Bub	-6	4	14	25	37	50	64	79	95	112	130	149	169	190	213	237	263	290	318	348	380	413	448	485	523	563	606	650	696	745	795	848	903	961	1020	1083	1148	1215	1286	1359	1435	1513	1595	1680	1768	1860	1954	2053	2154	2260	2369	2482	2600	2721	2847
		Dew	-6	4	14	25	37	50	64	79	95	112	129	149	169	190	213	237	263	290	318	348	379	413	448	484	523	563	605	649	696	744	795	847	902	960	1020	1082	1147	1214	1284	1357	1433	1512	1594	1679	1767	1858	1953	2051	2153	2258	2367	2480	2598	2719	2845
	R404A	Bub	-8	1	11	22	34	47	60	75	90	106	124	143	162	183	206	229	254	281	308	338	369	401	435	471	509	548	590	633	678	726	775	827	881	937	996	1057	1121	1187	1255	1327	1401	1479	1559	1642	1728	1818	1910	2006	2106	2209	2316	2427	2542	2660	2784
		Dew	-12	-3	7	18	30	42	55	70	85	101	118	137	156	177	199	222	247	273	300	329	360	392	426	462	499	538	579	622	667	714	764	815	869	925	983	1044	1107	1173	1242	1313	1387	1464	1544	1627	1713	1803	1895	1991	2091	2194	2301	2412	2527	2646	2770
	R410A	Bub	19	31	45	59	74	91	108	127	147	169	192	216	242	270	299	330	363	398	435	473	514	557	602	650	699	752	807	864	924	987	1053	1122	1193	1268	1346	1428	1512	1601	1693	1788	1887	1990	2098	2209	2324	2444	2568	2697	2831	2969	3113	3261	3415	3575	3741
		Dew	19	31	44	58	74	90	108	126	147	168	191	215	241	269	298	329	362	396	433	471	512	555	600	647	697	749	804	861	921	983	1049	1118	1189	1264	1342	1423	1507	1595	1687	1782	1881	1984	2091	2202	2317	2437	2561	2690	2823	2961	3105	3254	3408	3567	3733
	R407F	Bub	-9	0	11	22	34	47	60	75	91	108	126	145	166	188	211	235	261	289	318	348	381	415	450	488	528	569	613	659	706	757	809	864	921	980	1043	1107	1175	1245	1318	1394	1473	1555	1640	1729	1820	1915	2013	2115	2221	2330	2443	2559	2680	2804	2933
		Dew	-36	-28	-20	-11	-2	9	20	32	45	59	74	90	107	125	145	166	188	211	237	263	291	321	353	386	421	458	497	538	581	626	674	723	776	830	888	947	1010	1075	1143	1215	1289	1366	1447	1531	1618	1709	1803	1902	2004	2110	2220	2335	2454	2577	2706
R407C	Bub	-20	-11	-2	8	19	31	43	56	71	86	102	119	138	158	179	201	224	249	276	303	333	364	396	431	467	504	544	586	629	675	723	773	825	879	936	995	1057	1121	1188	1258	1330	1405	1483	1564	1648	1735	1825	1918	2015	2115	2218	2325	2436	2550	2668	
	Dew	-45	-39	-32	-24	-16	-7	3	14	25	37	51	65	80	96	113	132	152	173	195	218	244	270	298	328	359	393	427	464	503	544	586	631	678	727	779	833	890	949	1010	1075	1142	1212	1285	1361	1440	1522	1608	1697	1790	1886	1987	2091	2199	2311	2427	
HFO Blend Refrigerants	R513A	-60	-56	-51	-45	-39	-33	-26	-19	-11	-2	7	17	28	39	52	65	78	93	109	125	143	161	181	202	224	247	271	297	324	352	382	413	446	480	515	553	592	633	675	720	766	814	865	917	971	1028	1086	1147	1211	1276	1344	1415	1488	1564	1642	
	R452A	Bub	-5	5	15	27	39	52	66	81	98	115	133	153	173	196	219	244	270	297	327	357	390	424	460	497	537	578	621	667	714	764	815	869	926	985	1046	1109	1176	1245	1316	1390	1468	1548	1631	1717	1806	1898	1994	2092	2195	2300	2410	2523	2639	2760	2884
		Dew	-22	-13	-4	6	16	28	40	53	67	82	99	116	134	154	174	197	220	245	271	298	328	359	391	425	461	499	539	580	624	670	718	768	820	875	932	992	1054	1119	1187	1258	1331	1408	1487	1570	1656	1745	1838	1935	2035	2139	2247	2360	2476	2597	2723
	R449A	Bub	-11	-1	9	20	31	44	57	72	87	104	121	140	160	181	204	227	252	279	307	337	368	401	436	472	511	551	593	637	683	731	782	834	890	947	1007	1069	1134	1201	1271	1344	1420	1499	1580	1665	1752	1843	1937	2035	2135	2239	2347	2458	2573	2692	2815
Dew		-34	-26	-18	-10	0	10	21	33	46	60	75	90	107	125	145	165	187	210	234	260	287	316	347	379	413	449	487	526	568	611	657	705	755	808	863	920	980	1043	1108	1176	1247	1321	1398	1478	1561	1648	1738	1832	1929	2031	2136	2245	2358	2476	2598	
R448A	Bub	-9	1	11	22	34	47	60	75	91	107	125	144	165	186	209	233	259	286	314	344	376	410	445	482	521	561	604	649	696	745	796	849	905	963	1024	1087	1152	1221	1292	1366	1442	1522	1605	1690	1779	1871	1966	2064	2166	2272	2380	2493	2609	2729	2853	
	Dew	-34	-27	-19	-10	0	10	21	33	46	60	75	90	107	125	145	165	187	210	235	261	288	317	348	380	414	450	488	528	570	614	660	708	759	811	867	925	985	1048	1114	1182	1254	1328	1406	1487	1571	1658	1749	1843	1942	2043	2149	2259	2373	2492	2615	
HFO Refrigerants	R1234ze	-78	-75	-72	-68	-65	-60	-56	-51	-46	-40	-34	-27	-20	-13	-4	4	14	24	35	46	58	71	85	100	115	132	149	167	187	207	229	251	275	300	326	353	382	412	444	477	511	547	585	624	665	708	752	798	846	896	948	1001	1057	1115	1175	
	R1233zd	-98	-97	-97	-96	-96	-95	-94	-93	-92	-91	-90	-88	-87	-85	-83	-81	-79	-76	-74	-71	-68	-65	-61	-57	-53	-49	-44	-39	-34	-28	-22	-15	-8	-1	7	15	24	33	43	53	64	76	88	101	114	128	143	159	175	192	210	228	248	268	290	
	R1234yf	-60	-55	-50	-45	-39	-33	-26	-19	-11	-2	7	16	27	38	50	62	75	90	105	120	137	155	174	194	214	236	260	284	309	336	364	394	425	457	490	526	562	601	641	682	726	771	818	866	917	970	1024	1081	1140	1201	1264	1330	1398	1468	1541	
	R454C	Bub	-11	-2	8	18	29	42	55	68	83	99	116	134	153	173	194	216	240	265	292	320	349	380	413	447	482	520	559	600	643	688	734	783	834	887	942	999	1059	1120	1185	1251	1320	1392	1466	1543	1623	1705	1790	1878	1969	2063	2160	2259	2363	2469	2578
		Dew	-40	-34	-26	-19	-10	-1	9	19	30	43	56	69	84	100	117	135	154	174	196	218	242	268	294	323	352	384	417	451	488	526	566	608	652	698	746	796	848	903	960	1020	1082	1147	1214	1284	1358	1434	1513	1595	1680	1769	1861	1957	2056	2160	2267
	R454B	Bub	13	25	38	51	66	81	98	116	135	156	177	201	225	252	279	309	340	373	408	444	483	524	566	611	659	708	760	815	872	931	993	1058	1126	1197	1271	1348	1428	1512	1598	1689	1782	1880	1981	2086	2194	2307	2424	2545	2671	2801	2935	30			