

The following is a list of refrigerants which **ELMA RLD4** can detectable



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ASHRAE Number	Name	Formula	Detect.
R-12	Dichlorodifluoromethane	CCl_2F_2	YES
R-22	Chlorodifluoromethane	CHClF_2	YES
R-32	Difluoromethane	CH_2F_2	YES
R-50	Methane	CH_4	YES
R-113	1,1,2-Trichlorotrifluoroethane	$\text{C}_2\text{F}_3\text{Cl}_3$	YES
R-113a	1,1,1-Trichlorotrifluoroethane	$\text{C}_2\text{F}_3\text{Cl}_3$	YES
R-121	1,1,2,2-Tetrachloro-1-fluoroethane	C_2HFCl_4	YES
R-121a	1,1,1,2-Tetrachloro-2-fluoroethane	C_2HFCl_4	YES
R-122	1,1,2-Trichloro-2,2-difluoroethane	$\text{C}_2\text{HF}_2\text{Cl}_3$	YES
R-122a	1,1,2-Trichloro-1,2-difluoroethane	$\text{C}_2\text{HF}_2\text{Cl}_3$	YES
R-122b	1,1,1-Trichloro-2,2-difluoroethane	$\text{C}_2\text{HF}_2\text{Cl}_3$	YES
R-123	2,2-Dichloro-1,1,1-trifluoroethane	$\text{C}_2\text{HF}_3\text{Cl}_2$	YES
R-123a	1,2-Dichloro-1,1,2-trifluoroethane	$\text{C}_2\text{HF}_3\text{Cl}_2$	YES
R-123b	1,1-Dichloro-1,2,2-trifluoroethane	$\text{C}_2\text{HF}_3\text{Cl}_2$	YES
R-124	2-Chloro-1,1,1,2-tetrafluoroethane	$\text{C}_2\text{HF}_4\text{Cl}$	YES
R-124a	1-Chloro-1,1,2,2-tetrafluoroethane	$\text{C}_2\text{HF}_4\text{Cl}$	YES
R-125	Pentafluoroethane	C_2HF_5	YES
R-E125	Pentafluorodimethyl ether	$\text{C}_2\text{HF}_5\text{O}$	YES
R-130	1,1,2,2-Tetrachloroethane	$\text{C}_2\text{H}_2\text{Cl}_4$	YES
R-130a	1,1,1,2-Tetrachloroethane	$\text{C}_2\text{H}_2\text{Cl}_4$	YES
R-131	1,1,2-Trichloro-2-fluoroethane	$\text{C}_2\text{H}_2\text{FCl}_3$	YES
R-131a	1,1,2-Trichloro-1-fluoroethane	$\text{C}_2\text{H}_2\text{FCl}_3$	YES
R-131b	1,1,1-Trichloro-2-fluoroethane	$\text{C}_2\text{H}_2\text{FCl}_3$	YES
R-132	Dichlorodifluoroethane	$\text{C}_2\text{H}_2\text{F}_2\text{Cl}_2$	YES
R-132a	1,1-Dichloro-2,2-difluoroethane	$\text{C}_2\text{H}_2\text{F}_2\text{Cl}_2$	YES
R-132b	1,2-Dichloro-1,1-difluoroethane	$\text{C}_2\text{H}_2\text{F}_2\text{Cl}_2$	YES
R-132c	1,1-Dichloro-1,2-difluoroethane	$\text{C}_2\text{H}_2\text{F}_2\text{Cl}_2$	YES
R-132bB2	1,2-Dibromo-1,1-difluoroethane	$\text{C}_2\text{H}_2\text{Br}_2\text{F}_2$	YES
R-133	1-Chloro-1,2,2-Trifluoroethane	$\text{C}_2\text{H}_2\text{F}_3\text{Cl}$	YES
R-133a	1-Chloro-2,2,2-Trifluoroethane	$\text{C}_2\text{H}_2\text{F}_3\text{Cl}$	YES
R-133b	1-Chloro-1,1,2-Trifluoroethane	$\text{C}_2\text{H}_2\text{F}_3\text{Cl}$	YES
R-134	1,1,2,2-Tetrafluoroethane	$\text{C}_2\text{H}_2\text{F}_4$	YES
R-134a	1,1,1,2-Tetrafluoroethane	$\text{C}_2\text{H}_2\text{F}_4$	YES
R-245fa	1,1,1,3,3-Pentafluoropropane	$\text{C}_3\text{H}_3\text{F}_5$	YES
R-290	Propane	C_3H_8 or $\text{CH}_3\text{CH}_2\text{CH}_3$	YES
R-400	R-12/R-114 (60/40 wt%)	binary blend	YES
R-401A	R-22/R-152a/R-124 (53/13/34)		YES
R-401B	R-22/R-152a/R-124 (61/11/28)		YES
R-401C	R-22/R-152a/R-124 (33/15/52)		YES

ASHRAE Number	Name	Formula	Detect.
R-402A	R-125/R-290/R-22 (60/2/38)		YES
R-402B	R-125/R-290/R-22 (38/2/60)		YES
R-403A	R-290/R-22/R-218 (5/75/20)		YES
R-403B	R-290/R-22/R-218 (5/56/39)		YES
R-404A	R-125/R-143a/R-134a (44/52/4)		YES
R-405A	R-22/R-152a/R-142b/R-C318 (45/7/5.5/42.5)		YES
R-406A	R-22/R-600a/R-142b (55/04/41)		YES
R-407A	R-32/R-125/R-134a (20/40/40)		YES
R-407B	R-32/R-125/R-134a (10/70/20)		YES
R-407C	R-32/R-125/R-134a (23/25/52)		YES
R-407D	R-32/R-125/R-134a (15/15/70)		YES
R-407E	R-32/R-125/R-134a (25/15/60)		YES
R-407F	R-32/125/134a (30±2/30±2/40±2)		YES
R-407H	R134/R32/R125(52.5/32.5/15)		NO
R-407I	R134/R32/R125(19.5/8.5/72)		NO
R-408A	R-125/R-143a/R-22 (7/46/47)		YES
R-409A	R-22/R-124/R-142b (60/25/15)		YES
R-409B	R-22/R-124/R-142b (65/25/10)		YES
R-410A	R-32/R-125 (50/50)		YES
R-410B	R-32/R-125 (45/55)		YES
R-411A	R-1270/R-22/R-152a (1.5/87.5/11)		YES
R-411B	R-1270/R-22/R-152a (3/94/3)		YES
R-412A	R-22/R-218/R-142b (70/5/25)		YES
R-413A	R-218/R-134a/R-600a (9/88/3)		YES
R-414A	R-22/R-124/R-600a/R-142b (51/28.5/4.0/16.5)		YES
R-414B	R-22/R-124/R-600a/R-142b (50/39/1.5/9.5)		YES
R-415A	R-22/R-152a (82/18)		YES
R-415B	R-22/R-152a (25/75)		YES
R-416A	R-134a/R-124/R-600 (59/39.5/1.5)		YES
R-417A	R-125/R-134a/R-600 (46.6/50.0/3.4)		YES
R-418A	R-290/R-22/R-152a (1.5/96/2.5)		YES
R-419A	R-125/R-134a/R-E170 (77/19/4)		YES
R-420A	R-134a/R-142b (88/12)		YES
R-421A	R-125/R-134a (58/42)		YES
R-421B	R-125/R-134a (85/15)		YES
R-422A	R-125/R-134a/R-600a (85.1/11.5/3.4)		YES
R-422B	R-125/R-134a/R-600a (55/42/3)		YES
R-422C	R-125/R-134a/R-600a (82/15/3)		YES
R-422D	R-125/R-134a/R-600a (65.1/31.5/3.4)		YES
R-423A	R-134a/R-227ea (52.5/47.5)		YES
R-424A	R-125/R-134a/R-600a/R-600/R-601a (50.5/47/.9/1/.6)		YES
R-425A	R-32/R-134a/R-227ea (18.5/69.5/12)		YES

ASHRAE Number	Name	Formula	Detect.
R-426A	R-125/R-134a/R-600/R-601a (5.1/93/1.3/.6)		YES
R-427A	R-32/R-125/R-143a/R-134a (15/25/10/50)		YES
R-428A	R-125/R-143a/R-290/R-600a (77.5/20/.6/1.9)		YES
R-447A	R32/R125/R1234ze/R125 (82.4/15.8/1.8)		NO
R-448A	R32/R125/ R134a/R1234yf/R1234ze (26/26/21/20/7)		NO
R-449A	R32/R125/ R134a/R1234yf (24.3/24.7/25.7/25.3)		NO
R-449C	R32/R125/ R134a/R1234yf (20/20/29/31)		NO
R-452A	R-32/R-125/R-1234yf (11/59/30)		NO
R-452B	R-32/R-125/R-1234yf (67/125/26)		NO
R-454A	R-32/R-1234yf (35/65)		NO
R-454B	R-32/R-1234yf (68.9/31.1)		NO
R-454C	R-32/R-1234yf (21.5/78.5)		NO
R-455A	R-32/R-1234yf /R-744(21.5/75.5/3)		NO
R-463A	CO2/R32/R125/ R134a/R1234yf (5.5/35/29.5/15.5/15.5)		NO
R-466A	R32/R125/CF3I (49/11.5/39.5)		NO
R-469A	CO2/R32/R125 (35/32.5/32.5)		NO
R-500	R-12/R-152a (73.8/26.2)		YES
R-501	R-22/R-12 (75/25)		YES
R-502	R-22/R-115 (48.8/51.2)		YES
R-507A	R-125/R-143a (50/50)	50% C ₂ HF ₅ · 50% C ₂ H ₃ F ₃	YES
R-513A	R-1234yf/R-134a (56/54)		YES
R-600A	Isobutane	CH(CH ₃) ₂ CH ₃	YES
R-610	Diethyl ether	C ₂ H ₅ OC ₂ H ₅	YES
R-702	Hydrogen	H ₂	YES
R-717	Ammonia	NH ₃	YES
R-1224yd	(Z)-1-Chloro2, 3, 3, 3,-Tetrafluoropropene Tetrafluoropro Pane	CF ₃ CH=CHCl	NO
R-1233zd	Trans-1-chloro-3,3,3-trifluoropropene	CF ₃ CH=CHCl	NO
R-1234yf	1,3,3,3-tetrafluoropropene	C ₃ H ₂ F ₄	NO
R-1234ze	1,3,3,3-tetrafluoropropene	C ₃ H ₂ F ₄	NO
R-1270	Propene (Propylene)	C ₃ H ₆ or CH ₃ CH=CH ₂	NO
R-1336mzz(E)	trans -1,1,1,4,4,4-hexafluoro-2-butene		NO
5%Hydrogen(H ₂) + 95%Nitrogen(N)			YES
Cyclopentane		C ₅ H ₁₀	NO
Hexamethyldisiloxane	HMDSO	C ₆ H ₁₈ OSi ₂	NO
Octamethyltrisiloxane		C ₈ H ₂₄ O ₂ Si ₃	NO