

Market extimation 2021

RACHP (Refrigeration / Air Conditionning / Heat Pumps) Italian Market

			Tons
	GWP (AR4)	PFAS	2021
R134a	1430	Yes	1,900
R407C/F/H	1700	Yes	600
R410A	2088	Yes	1,400
R32	675	NO	1,550
R448A/R449A/R452A	1600	yes	1,650
YF / ZE	4	yes	500
R404A / R507	4100	yes	500
Other F-Gases *	1500	yes	350
Raclaimed Gases	0	NO	350
Hydrocarbons	4	NO	100
CO2	1	NO	200
NH3	0	NO	250
Total HFC+HFO			8,800
TOTAL			9,350

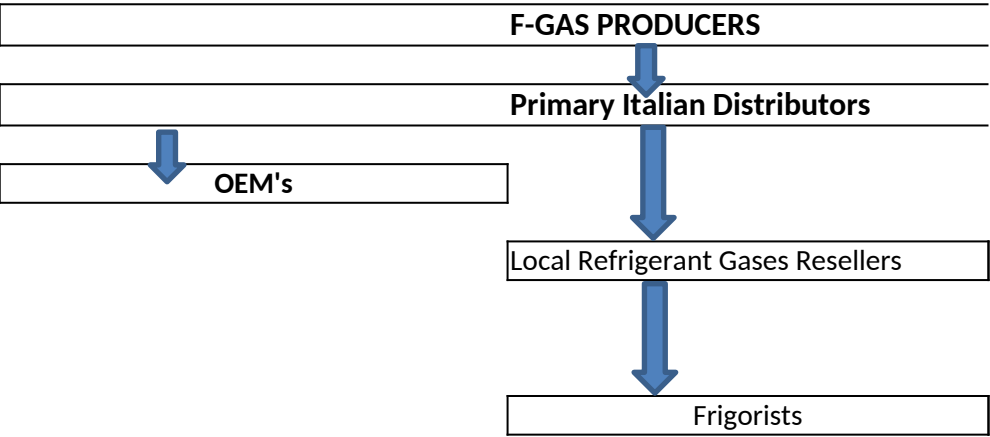
* R513A, R417A, R454A, R454C, R455A, R452B, R454B, R422D, R438A, R23, R508B, R152a, ecc.

N.B.: R134a includes the OEM Automotive market (first charge) and R410A+R32 include pre-charged splits

APPLICATION AND CONSUMPTION (2021)		Quantites (t) placed on the italian market for firts charge and service													TOTAL for each application
		R134a	R407C/F/H	R410A	R32	R448/449/452A	R404A/507	YF/ZE	Othe F-Gases	Reclaimed Gases	R290/R600a	CO2	NH3	TOTAL *	
Refrigeration	Domestic	10	0	0	0	0	0	0	0	0	30	0	0	40	3,560
	Commercial units	100	20	0	0	400	200	0	0	50	40	30	0	840	
	Commercial centralized systems	200	50	0	0	600	150	0	0	100	0	120	0	1,220	
	Refrigerated Transports	40	0	0	0	200	50	0	0	50	0	10	0	350	
	Industrial	80	0	0	0	300	100	0	250	100	10	20	250	1,110	
Air Conditionning	Domestic portable units	10	0	0	0	0	0	0	0	0	30	0	0	40	5,250
	Domestic split units	0	50	900	1300	0	0	0	0	20	0	0	0	2,270	
	VRV	0	100	200	100	0	0	0	0	0	0	0	0	400	
	Automotive	1360	0	0	0	0	0	500	0	0	0	0	0	1,860	
	Industrial	150	200	200	0	0	0	50	50	30	0	0	0	680	
Heat Pumps	Domestic	0	0	200	100	0	0	0	0	0	0	0	0	300	510
	Industrial	0	0	100	50	0	0	0	10	0	0	50	0	210	
TOTAL		1,950	420	1,600	1,550	1,500	500	550	310	350	110	230	250	9,320	

COMPANIES, TURNOVER AND NUMBER OF EMPLOYEES

Chain of distribution PFAS for RACHP applications



TOTAL TURNOVER OF THE DISTRIBUTION CHAIN and NUMBER OF EMPLOYEES

Total Turnover (M€/year)	8,395
Total Number of Companies	65,430
Total Number of Employees	215,280
Refrigerants Turnover (M€/year)	989

DYEES

