



EPA's Final Rule, July 20, 2015, and September 26, 2016 Changed listing status of certain HFCs*

	Final Rule: July 20, 2015								Final Rule: September 26, 2016			
Phase-out refrigerant	Supermarket (New**)	Supermarket (Retrofit***)	Remote condensing unit (New)	Remote condensing unit (Retrofit***)	Stand-Alone				Refrigerated food		1000	Very
					MT < 2,200 BTU/hr. and not contain flooded evap. (New)	MT ≥ 2,200 BTU/hr. with or without flooded evap. (New)	LT (New)	LT and MT (Retrofit***)	processing and dispensing equipment (New)	Cold storage warehouses (New)	Ice machines (New)	low-temp refrigeration (New)
R-404A/507A	Jan. 1, 2017	July 20, 2016	Jan. 1, 2018	July 20, 2016	Jan. 1, 2019	Jan. 1, 2020	Jan. 1, 2020	July 20, 2016	Jan. 1, 2021	^Jan. 1, 2023	ОК	ОК
R-410A	OK	72	ОК	-	Jan. 1, 2019	Jan. 1, 2020	Jan. 1, 2020	-	Jan. 1, 2021	^Jan. 1, 2023	ОК	ОК
R-407A/C/F	ОК	ОК	ОК	ОК	Jan. 1, 2019	Jan. 1, 2020	Jan. 1, 2020	ОК	^Jan. 1, 2021	R-407C/F OK R-407A: ^Jan. 1, 2023	ОК	R-407C only
HFC-134a	OK	OK	OK	OK	Jan. 1, 2019	Jan. 1, 2020	ОК	OK	OK	ОК	OK	-
Likely alternatives [Emerson perspective]												
R-448A/449A	ОК	ОК	ОК	ОК	Neither SNAP- approved, nor banned	Neither SNAP- approved, nor banned	ОК	OK for LT only	-	-	ОК	-
R-450A/513A	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК	-
R-290	-	-	-	-	ОК	OK	ОК	-	-	-	OK	OK
R-744	ОК	-	OK	-	OK	ОК	OK	-	ОК	ОК	-	ОК
R-717	OK (in primary loop of secondary system)	_	OK (In primary loop of secondary system)	_	OK (in primary loop of secondary system)	OK (in primary loop of secondary system)	OK (in primary loop of secondary system)	OK (in primary loop of secondary system)	OK (in primary loop of secondary system)	ОК	OK	-

^{**} Includes ice machines connected to a supermarket rack refrigeration system.

^{***} EPA uses term "retrofit" to indicate the use of a refrigerant in an appliance that was designed for and originally operated using a different refrigerant. Term does not apply to upgrades to existing equipment where the refrigerant is not changed.