ASHRAE Technical FAQ

ID 46 What research is ASHRAE conducting regarding new, natural, or Question alternative refrigerants? New refrigerants are not typically developed through ASHRAE research. Manufacturers may submit new refrigerant formulations to SSPC 34, Designation and Safety Classification of Refrigerants, to obtain an ASHRAE number designation based on criteria in the standard. In the United States, most approved refrigerants are non-flammable blends with HFCs as the major components. Each year ASHRAE devotes the October issue of the ASHRAE Journal to that year's Research Report. The following active projects regarding air filtration are listed in the October 2018 issue: 1507-RP Binary Refrigerant Flame Boundary Concentrations 1569-RP CFD Study of Hydraulic Shock in Two-Phase Anhydrous Ammonia 1721-RP Oil Return and Retention in Unitary Split System Gas Lines with HFC and HFO Refrigerants Answer 1774-RP Effects of System Chemicals on Breakdown of Lubricants and Lower GWP Refrigerants 1790-TRP Distribution of Water between Vapor and Liquid Phases for Low GWP Refrigerants 1794-RP White Paper Investigation Relating to the Use of Odorants in Flammable Refrigerants 1800-RP Spray Evaporation on Enhanced Tube Bundles with Low GWP Pure Refrigerants and Refrigerant/Miscible Oil Mixture 1806-RP Flammable Refrigerants Post-Ignition Simulation and Risk Assessment 1807-RP Guidelines for Flammable Refrigerant Handling, Transporting, Storing and Equipment Servicing and Installation

1808-RP Servicing and Installing Equipment using Flammable Refrigerants: Assessment of Field-made Mechanical Joint

Final reports to completed ASHRAE research projects related to air filtration, and all other topics, are available (for free to ASHRAE members) at the <u>Research</u> page of <u>www.ashrae.org</u>.

ASHRAE Pubs

The October issue of the ASHRAE Journal each year summarizes ASHRAE's current research efforts.

Topic References Air filtration, research

	Cognizant ASHRAE Committees	Refer to Organization
1	<u>TC 3.1</u>	
2	RAC	
3		
4		
5		