



THERMOPLASTIC TUBING AND HOSES
SINCE 1961

- Reaching new heights -

THE NEW FR5A SERIES

Peak Temperature up to

150°C

302°F

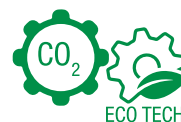


FR5A SERIES



Thermoplastic hoses for **R744 subcritical / transcritical** applications

- Designed solution for CO₂ equipment in industrial and commercial refrigeration systems
- Steel braid coextruded hoses
- Working pressure up to 130 bar
- High kinking and abrasion resistance
- Compliant with EN 1736, ISO 13971 class 1 and UL 1963



ZEC presents the new FR5A Series: advancing thermoplastic hose technology for transcritical R744 applications

Developed to meet the evolving requirements of industrial and commercial refrigeration, the new **FR5A Series** takes ZEC's thermoplastic hose technology for **CO₂ (R744) applications** to the next level, with **peak temperature** resistance of **up to 150°C**.

Featuring a **co-extruded construction with steel braid reinforcement**, the FR5A Series combines high-performance capabilities with **working pressures of up to 130 bar**, while delivering outstanding resistance to kinking and mechanical stress.

Compliant with **EN 1736, ISO 13971 Class 1** and the requirements of **UL 1963**, FR5A hoses ensures **low refrigerant gas permeability**, supporting long-term reliability and system performance.

High flexibility and ease of installation further enhance the solution, providing a practical alternative to traditional copper piping and an engineered component for the development of efficient, reliable and high-performance refrigeration systems.

A complete range to cover all the applications



CODE	inch	mm	DN	inch	mm	bar	psi	mm	inch	g/m	lbs/ft	FERRULE CODE
FR5A430N	5/16"	6.4	6	0.468	11.9	130	1885	40	1.575	130	0.087	BP14MT1
FR5A530N	3/8"	8.1	8	0.551	14.0	130	1885	50	1.968	200	0.134	BP516R7V
FR5A630N	1/2"	11.1	11	0.685	17.4	130	1885	80	3.150	255	0.171	BP38R1TV
FR5A730N	5/8"	13.9	14	0.791	20.1	130	1885	120	4.724	320	0.215	BP12R7V



ZEC Solutions for Refrigeration Systems

ZEC thermoplastic hoses are specifically designed for industrial and commercial applications to replace the traditional copper tubes.

- flexible and easy to install
- low permeability to refrigerant gases (including CO₂ and ammonia)
- elimination of leakages caused by vibrations / movements of the system
- high chemical compatibility and resistance against atmospheric agents
- reduction of welding / brazing processes

[Download the complete catalog here](#)



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COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001