



R-427 A

(FORANE FX100)

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition:	
R-134a	50 % ($\pm 2,0$ %)
R-125	25 % ($\pm 2,0$ %)
R-32	15 % ($\pm 2,0$ %)
R-143a	10 % ($\pm 2,0$ %)
Guaranteed purity	≥ 99 % weight
Water content	≤ 10 ppm weight
Chlorine ion test (silver nitrate test)	none
Acidity	≤ 1 ppm weight
Non-condensable content (gas phase)	$\leq 1,5$ % volume

MAIN APPLICATIONS

R-427A (Forane[®] FX100) is a HFC type zeotropic mixture intended to replace R-22 (HCFC) in existing setups under conversion or in new setups.

It can be used in refrigeration and air conditioning direct expansion setups.

OILS

Use a polyol ester (POE) oil.

For use in conversion, a residual variable level of mineral oil (MN), or original alkylbenzene (AB) is acceptable as a function of the running speed.

Check with **Climalife** regarding the viscosity of the oil selected for your application, and the miscibility with the fluid under consideration.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet*.

REGULATION

In Europe, recovering R-427A (Forane[®] FX100) is mandatory as per regulation n° 842/2006.
(Refer to regulations enforced in each country)

* Find the Safety Data Sheet (SDS) directly on our website www.climalife.dehon.com



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R-427A (FORANE FX100) PHYSICOCHEMICAL PROPERTIES

Molar mass	g/mol	90.4
Melting point	°C	N/A
Boiling point (under 1.013 bar)	°C	-42.7
Dew point (under 1.013 bar)	°C	-35.6
Temperature drift under 1.013 bar	K	7.1
Saturated fluid density at 25°C	kg/dm ³	1.151
Saturated vapour density at boiling point	kg/m ³	4.78
Bubble pressure at: 25°C 50°C	bar	11.2 20.8
Critical temperature	°C	86.8
Critical pressure	bar	44.0
Thermal conductivity at 25°C Liquid Vapour under 1.013 bar	W/(m.K)	0.081 0.014
Surface tension at 25°C	10 ⁻³ N/m	6.9
Viscosity at 25°C Liquid Vapour under 1.013 bar	10 ⁻³ Pa.s	0.15 0.013
Specific heat capacity at 25°C Liquid Vapour under 1.013 bar	kJ/(kg.K) kJ/(kg.K)	1.58 0.842
Cp/Cv ratio at 25°C under 1.013 bar		1.132
Flammability in air		non-flammable
Flashing point		None
NF-EN 378 Standard		A1/A1
Potential effect on ozone	(R-11 = 1)	0
Potential GWP greenhouse effect		1830

Please contact your distributor or **Climalife** sales department for more information. Also, if the refrigerated system you want to install does not appear to you as a typical case, we are at your service to provide opinions and advices.

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