

SOLSTICE® N71 (R-471A)

Technical Data Sheet

Solstice® N71 (R-471A) is a non-ozone depleting, lowered global warming potential (< 150 GWP) hydrofluoro-olefin (HFO)- based refrigerant designed for medium temperature refrigeration applications in both commercial and industrial equipment.

Solstice® N71 has a GWP below 150 and is a non-flammable (A1) refrigerant.

Solstice® N71 is applicable for new systems, offering an optimal balance of properties including high energy efficiency and lower GWP, which is better for the environment.

BENEFITS

- Less than 150 GWP medium pressure refrigerant
- Non-toxic and nonflammable (ASHRAE A1)
- 89% GWP reduction relative to R-134a
- Excellent capacity and energy efficiency
- Low operating pressures
- Reduced leak potential
- CARB compliant for new equipment

APPLICATIONS

- Medium-temperature commercial and industrial DX refrigeration
- Water chillers, air-conditioning and heat pumps
- High ambient air-conditioning
- Ice rinks
- Secondary fluid
- Medium-temperature circuit of cascade systems
- New equipment



SOLSTICE® 471A PROPERTIES

ASHRAE Number	R-471A
Composition	R-1234zeE R-227ea R-1336MZZe
Weight %	78.7/4.3/17
Molecular Weight	122.1 lb/lb mole
Boiling Point at 0 psig	1.6 F (-16.9C)
Critical Pressure	511.4 psia (3526 kPa)
Critical Temperature	234°F (112.2°C)
Liquid Density at 70 °F	75.1 lb/ft ³
Ozone Depletion Potential (CFC-11 = 1.0)	0
AR5 Global Warming Potential	145
ASHRAE Safety Classification	A1
Temperature Glide @ 1.5psig	5.3F

PT CHART | SOLSTICE® N71 (R-471A)

Pressure (Psig)	Liquid (Bubble) (F)	Vapor (Dew) (F)
-10	-41.0	-34.6
-5	-15.1	-9.1
0	1.6	7.4
5	14.3	19.9
10	24.7	30.1
15	33.5	38.8
20	41.3	46.4
22	44.1	49.2
24	46.9	51.9
26	49.5	54.5
28	52.0	57.0
30	54.5	59.4
32	56.9	61.8
34	59.1	64.0
36	61.4	66.2
38	63.5	68.3
40	65.6	70.4
42	67.7	72.4
44	69.6	74.4
46	71.6	76.3
48	73.4	78.1
50	75.3	79.9
55	79.7	84.3
60	83.9	88.4
70	91.7	96.0
80	98.8	103.0
90	105.3	109.5
100	111.4	115.5
105	114.3	118.4
110	117.2	121.1
115	119.9	123.8
120	122.5	126.4

Pressure (Psig)	Liquid (Bubble) (F)	Vapor (Dew) (F)
125	125.1	129.0
130	127.6	131.5
135	130.1	133.9
140	132.5	136.2
145	134.8	138.5
150	137.1	140.7
155	139.3	142.9
160	141.5	145.1
165	143.6	147.2
170	145.7	149.2
175	147.8	151.2
180	149.8	153.2
185	151.7	155.1
190	153.7	157.0
195	155.6	158.9
200	157.4	160.7
205	159.3	162.5
210	161.1	164.3
215	162.8	166.0
220	164.6	167.7
230	168.0	171.0
240	171.3	174.3
250	174.5	177.4
260	177.6	180.4
270	180.6	183.4
280	183.6	186.3

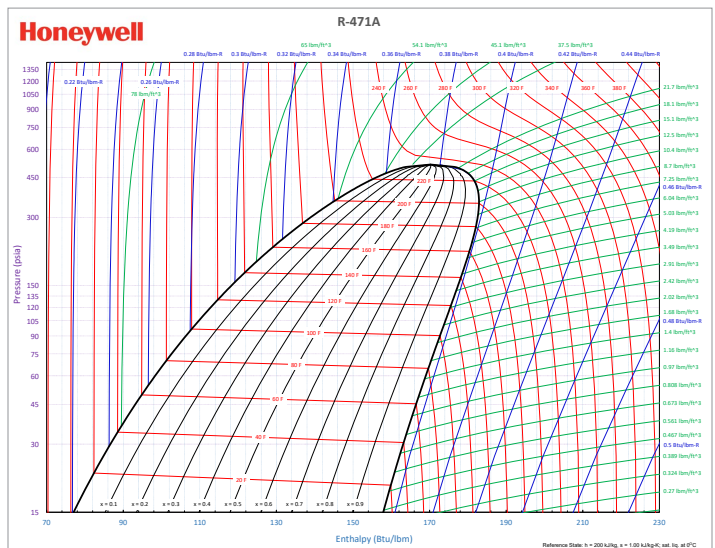


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