Pressure Temperature Charts

°F	°C	R-600a
-70	-56.7	**-13.1**
-60	-51.1	**-12.4**
-50	-45.6	**-11.6**
-40	-40	**-10.6**
-30	-34.4	**-9.3**
-20	-28.9	**-7.6**
-10	-23.3	**-5.6**
0	-17.8	**-3.2**
10	-12.2	**-0.3**
20	-6.7	**3.1**
30	-1.1	**7.1**
40	4.4	**11.8**
50	10	**17.3**
60	15.6	**23.5**
70	21.1	**30.6**
80	26.7	**38.6**
90	32.2	**47.7**
100	37.8	**57.9**

°F	°C	R-600a
110	43.3	**69.3**
120	48.9	**81.9**
130	54.4	**95.9**
140	60	**111.3**
150	65.6	**128.2**
160	71.1	**146.7**
170	76.7	**167.0**
180	82.2	**189.0**
190	87.8	**213.0**
200	93.3	**239.0**
210	98.9	**267.2**
220	104.4	**297.7**

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant	Components	BP
R-600a	R-600a (>99.5%) Isobutane	10.4°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-600a	lb./ft.^{3}	40.4	39.0	37.5	35.9	34.2	32.3
	lb./gal.	5.4	5.2	5.0	4.8	4.6	4.3

Physical Properties

	R-600a
Environmental Classification	Hydrocarbon
Molecular Weight	58.14 g/mole
Boiling Point (1 atm, °F)	10.4°F
Critical Pressure (psia)	527.9 psia
Critical Temperature (°F)	274.7°F
Critical Density (lb./ft.^{3})	14.01 lb./ft.^{3}
Vapor Density (bp, lb./ft.^{3})	0.1744 lb./ft.^{3}
Heat of Vaporization (bp, btu/lb.)	157.5 btu/lb.
Ozone Depletion Potential	0
Global Warming Potential (CO2 = 1.0)	20 *
ASHRAE Standard 34 Safety Rating	A3

***GWP numbers are updated periodically. Please refer to EPA or ASHRAE for the latest information.**

HUDSON TECHNOLOGIES

Reclaiming the Future Together.