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R448a N40

Pressure

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Temperature

Pressure

Chart

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**R448a N40 Pressure
Temperature Chart**
R448A (N40) Pressure
Temperature Chart

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Pressure
R448A (N40)

Temperature (°C)

Pressure (barA)

Pressure (barg)

Pressure (psig)

Pressure (barA)

Pressure (barg)

Pressure (psig)-70 0.27

-0.74 -10.76 0.18 -0.84

-12.11-68 0.31 -0.71

-10.24 0.20 -0.81

-11.74-66 0.35 -0.67

-9.67 0.23 -0.78

-11.32-64 0.39 -0.62

-9.04 0.26 -0.75

-10.86-62 0.44 -0.58

-8.34 0.30 -0.71 -10.35

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Pressure

R448A (N40)

Pressure

Temperature Chart -

A-Gas

R-448A N40

Refrigerant Pressure PT

Chart By Alec Johnson

Jun 29, 2020 One of

the very first steps

when it comes to

diagnosing your home

air conditioner,

refrigerator, or even

your vehicle's air

conditioner is

understanding the

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Pressure

temperature and the
current pressure that
your system is
operating at.

R-448A N40

Refrigerant Pressure

PT Chart -

Refrigerant HQ

R448A Low

Temperature Medium

Temperature 0 .7-1 .0

0 .8-1 .0 Retrofit

Conditions 100°F

Liquid Temperature at

Expansion Device Inlet

110°F Condensing

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Pressure
Temperature 25°F

Compressor Suction

Temperature Low
Evaporating

Temperature: -25°F

Medium Evaporating

Temperature: + 20°F

Capillary Tube Length
(Relative to R22, same
diameter)

**HCFC Retrofit
Guidelines HCFC-22
to R448A Solstice®
N40**

2 Honeywell Solstice®
N40 Table of Contents

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Solstice N40 (R-448A) Refrigerant - Honeywell

The corresponding Pressure-Temperature of refrigerants R-452A and R-448A/R-449A vs. R-404A, including bubble and dew point data, is shown in the tables on pages 41 to 16. In order to properly feed the expansion device and to reach the expected capacity delivered by the evape

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Pressure the orator, Temperature

GUIDELINES FOR USING R-452A AND R-448A/R-449A

Find the amount of subcooling on a system using Solstice N40 (R-448A) when the liquid line temperature reads 75°F and the liquid line pressure is 196 psig. □ 40 psig yields ~ 16°F (using Bubble temp) □ Degree of Subcooling = 85°F - 75°F = 10°F

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Pressure

**PT CHART FOR
SOLSTICE N40 -
Honeywell**

R448A (Solstice® N40) is a non-flammable HFO blend, used as a replacement for R404A and R22 in low and medium temperature refrigeration applications. It provides an excellent combination of low Global Warming Potential (GWP) and high energy efficiency

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Pressure
Temperature
Chart

and offers reduced compressor discharge temperature at medium and low temperature conditions.

R448A (N40) - A-Gas

Zeotropic blend designed to serve as a replacement for R-404A in supermarket refrigeration retrofits or new systems. Excellent low-GWP, highly energy efficient and non-flammable

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Pressure
Temperature
Chart

refrigerant for low and medium temperature in commercial refrigeration: supermarket systems, vending machines (plug-ins) and other applications.

Solstice® N40 (R-448A) | European Refrigerants

Pressure -
Temperature Charts (S
I/IP)5 Preface
HCFC-22 (R22) is a
high-capacity

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Pressure

refrigerant employed in

... Solstice N40 (R448A)

Blend R32 R125

R1234yf R134a

R1234ze R22 R404A

R507 R407A

Supermarket freezers,
coolers, display cases.

Liquid ... pressure-
temperature data will
include bubble

pressure and dew
pressure data. To

Honeywell

Refrigerants HCFC

Retrofit Guidelines

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Pressure
Temperature
Chart

Low-side pressure during normal operation of the same compressor model and refrigerant and the same outdoor air temperature of 85 °F called for 45 °F. temperature entering the compressor (subtract 40 °F. from incoming air temperature) which on the service chart indicates that the incoming or suction line pressure would be

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Pressure
about 75 psi.

Temperature

**Air Conditioner
Compressor &
Refrigerant Pressure
Readings**

R-448A is intended for use in low and medium temperature refrigeration systems to replace R-22, R-404A or R-507. It can also be used to retrofit R-22-based blends such as R-402A/B and R-408A. Part Number

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Pressure Temperature Chart

R-448A - National Refrigerants, Inc.

Laboratories, Solstice
N40 increased system
COP by 11.6% and
capacity by 7.5% over
the ambient

temperature range. 4.0

3.5 3.0 2.5 2.0 1.5 40

60 80 100 120 Ambient

Temperature (oF) COP

COP, R448A COP,

R-404A 105% 100%

95% 90% 85%

Condensing

Temperature (oF) 24h

Energy Consumption

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Pressure
(% of R404A 90 105

120 R404A R448A

Mechanical Subcooler

Liquid ...

**Reduced GWP And
Higher Energy
Efficiency**

SAFETY DATA SHEET

Honeywell Solstice®

N40 Refrigerant

(R-448A)

000000017419 Page 6

/ 18 Version 2.1

Revision Date

12/07/2015 Print Date

05/24/2016 Respiratory

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Pressure
Temperature
Chart
protection : In case of
insufficient ventilation,
wear suitable
respiratory

Honeywell Solstice® N40 Refrigerant (R-448A) 000000017419

Pressure - Temperature
Chart full_html-50.7.
Use as a replacement
for R404A and R22 in
Supermarket
applications. Trade
name Honeywell
Solstice N40. This

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Pressure
Temperature
Chart
product has a reduced
GWP. Questions? Call
us!

R-448A | ASPEN Refrigerants

R-404A Refrigerant
Pressure Temperature
Chart By Alec Johnson
Mar 20, 2019 One of
the very first steps
when it comes to
diagnosing your home
air conditioner,
refrigerator, or even
your vehicle's air
conditioner is

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Pressure
Temperature
Chart

understanding the
temperature and the
current pressure that
your system is
operating at.

R-404A Refrigerant Pressure Temperature Chart

R448A Pressure
Enthalpy Chart. Scroll
down to find download
buttons for pressure
enthalpy charts in
either Metric or
Imperial Units.

Downloads as a PDF. ...

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Pressure
Temperature Sensors
Explained. Paul Evans-
Aug 10, 2019 1.

Thermodynamic
properties of
refrigerant R-134a.
Paul Evans-Aug 5, 2017
3. Recent Topics.

R448A Pressure Enthalpy Chart - The Engineering Mindset

R404A Pressure-
Temperature Chart
Liquid. Vapor: Liquid:
Vapor Liquid: Vapor
Liquid: Vapor-49; 0.9;

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Pressure
0.3-45 1: 34.7

33.6-17.2 51: 107.2

105.6: 10.6 101: 240.2

238.1: 38.3-48; 1.3

0.7-44.4 2; ... *Red

Italics Indicate Inches
of Mercury Below

Atmospheric Pressure

Saturation Pressure-

Temperature Data for

R404A (psig)* Temp

(°F) Pressure Temp (°C

...

**R404A Pressure-
Temperature Chart -
iGas USA**

Page 23/27

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Pressure
Temperature
Chart

Forane 408A Pressure
Temperature Chart

Author: Arkema Inc.

Subject: Forane 408A
Pressure Temperature
Chart Keywords:

Forane 408A, R-408A,
Pressure Temperature
Chart, PT Chart, HVAC,
refrigeration, air
conditioning,
refrigerant gas Created
Date: 10/4/2012
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**Saturation Pressure-
Temperature Data**

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Pressure
Temperature
Chart
for R-408A (psig)*

R407A, R407F, R448A,
R449A pressure
temperature chart

R407A, R407F, R448A
or R449A refrigerant 1.

Record baseline data
on original system

R404A/R507

performance with the
system operating

under stable
conditions. The

following should be
recorded as a
minimum with

R404A/R507 still in the

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R448a N40

Pressure

system:

Temperature

REFRIGERANT

CHANGEVER HFC

R404A OR R507 TO

HFC R407A ...

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