

REFRIGERANT FACT SHEET

R410A

CHARACTERISTICS

R410A is a non-flammable HFC blend refrigerant, developed for use in air conditioning equipment, specifically designed for R410A.

R410A is not suitable for retrofitting due to higher operating pressures.

Heatcraft recommends alternative refrigerants with substantially lower GWP.

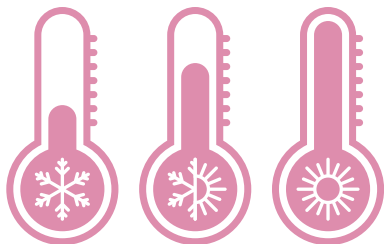
PERFORMANCE

- R410A is not suitable for retrofitting due to the higher operating pressures
- Charging must be done in the liquid phase
- Systems designed for R410A can take advantage of its ability to use smaller components
- Low glide makes R41A suitable for some centrifugal compressors and it can operate in low temperature applications
- R32 is a recommended lower GWP alternative

APPLICATIONS

Low, medium and high temperature applications including:

- Domestic and commercial air conditioning equipment
- Chillers
- Heat pumps



PHYSICAL ATTRIBUTES

ODP: 0

GWP: 1725

Class/ Type: Zeotropic blend (A1)

Refrigerant Kind: HFC Blend

Oil Type: Polyolester Oil (POE)

Glide: 0.1K

FEATURES

- A substitute for R22, but CANNOT be retrofitted due to higher pressure
- Higher efficiency compared to R22
- Non-ozone depleting
- Contains R32

THERMODYNAMIC PERFORMANCE

- R410A provides higher efficiency in domestic air conditioning compared to R22
- Operates at approximately 60% higher pressure than R22

PRODUCT PART NUMBERS

- **H410010** 10kg Cylinder
- **H410018** 18kg Cylinder
- **H410050** 50kg Cylinder

For safety, handling and storage guidelines please refer to the MSDS (available on Chemwatch)

PRESSURE TEMPERATURE CHART

Temp C°	Pressure (kPa)
-44	46
-42	61
-40	76
-38	93
-36	111
-34	130
-32	150
-30	172
-28	195
-26	219
-24	245
-22	273
-20	303
-18	334
-16	367
-14	402
-12	438
-10	477
-8	518
-6	561
-4	607
-2	654
0	704
2	757
4	812
6	869
8	930
10	993
12	1059
14	1128
16	1200
18	1275
20	1353
22	1435
24	1520
26	1608
28	1701
30	1797
32	1896
34	2000
36	2108
38	2220
40	2336
42	2456
44	2581
46	2710
48	2844
50	2983

PHYSICAL PROPERTIES

Class/ Type	Zeotropic blend
Formula	50% R125/ 50% R32
Kind	HFC blend
Appearance	Colourless
ODP	0
GWP	1725
ASHRAE Std. 34 Safety Class	A1

Units	AHRI Specification
Molecular Weight	72.6
Boiling Point	-51.5°C
Critical Temperature	71.8°C
Critical Pressure	49 bar
Critical Volume	0.00205 m³/ kg
Critical Density	488.90 kg/m³
Saturated Liquid Density at 30°C	1033.19 kg/m³



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Quality control
ISO9001
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Local
manufacture
and decanting
- 

ARCTick Reporting
- 

Access to Kirby
refrigerant
technical
library
- 

Refrigerant recovery
with zero emissions
- 

Distribution and
delivery nationally
- 

Cylinder management
at your fingertips
through the
Gas2Go app
- 

Refrigerant
sample analysis

RFS410A-030519