

### Carrier's Gemini™ Split System Air Conditioners and Heat Pumps:

- · An ideal solution for replacement and new construction
- · Rugged, dependable construction
- · Available in single and circuit scroll compressor capacity control
- Cooling capability up to 125°F (52°C) ambient and down to 35°F (2°C) ambient standard

The Future of the World Depends on Our Ability...

to sustainability across its products, services and operations.

innovations that improve the world - indoors and out.

We demonstrate this commitment by creating environmentally

responsible solutions that consume less energy and incorporate

improve



As a world leader in high technology

heating, air-conditioning and refrigeration

solutions, we believe that market leadership

requires environmental leadership. Carrier

sets industry standards for environmentally

sound business practices and a commitment

to Sustain it.



Willis H. Carrier began training members of the heating, ventilation, air conditioning and refrigeration industry in 1905. Carrier continues to promote technical expertise in the industry with the expansion of its sustainable solutions curriculum and has recently been named a U.S. Green Building Council Education Provider (USGBC EP). To earn this status, Carrier's course materials were reviewed by a panel

of USGBC peers and deemed to provide the high level of quality required for training Leadership in Energy and Environmental Design (LEED®) professionals. The courses and workshops supporting LEED-Accredited Professional and Green Associates credential maintenance are administered through Carrier University.











# **ASHRAE**

COMPLIANT



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## Gemini® 38AU / 40RU Split System Air Conditioners and Heat Pumps

with Puron® Refrigerant (R-410A) 6 to 20 Nominal Tons





## Gemini<sup>®</sup> 38AU/40RU Split System **Air Conditioners and Heat Pumps**

with Puron® Refrigerant (R-410A) 6 to 20 Nominal Tons



#### **Selection Guide**

Cooling Performance 38AUZ, D/40RU - AHRI Certified Ratings

System Combination	Cooling Stages	Nominal Cooling Ton Size	Net Cooling Capacity (MBH)	EER	IEER*	Dimensions (in) (LxWxH)	Approx. Unit Weight (lbs)
38AUZ(A,B)07/40RU07	1	6.0	70.0	11.5	12.9	59 x 46 x 42	389
38AUZ(D,E)07/40RU07	2	6.0	70.0	12.0	14.0	59 x 46 x 42	389
38AUZ(A,B)08/40RU08	1	7.5	92.0	11.2	12.9	59 x 46 x 42	391
38AUZ(D,E)08/40RU08	2	7.5	92.0	11.2	14.0	59 x 46 x 42	430
38AUZ12/40RU12	1	10.0	117.0	10.3	12.9	59 x 46 x 50	490
38AUD12/40RU12	2	10.0	117.0	10.3	13.0	59 x 46 x 50	516
38AUZ14/40RU14	1	12.5	148.0	11.0	12.4	59 x 46 x 50	598
38AUD14/40RU14	2	12.5	148.0	11.0	12.5	59 x 46 x 50	654
38AUZ16/40RU16	2	15.0	184.0	11.2	14.3	86 x 46 x 50	731
38AUD16/40RU16	2	15.0	184.0	11.2	12.6	86 x 46 x 50	731
38AUZ25/40RU25	2	20.0	240.0	11.0	13.6	86 x 67 x 50	978
38AUD25/40RU25	2	20.0	240.0	11.0	12.0	86 x 67 x 50	978

38AUZ Models are single circuit, 38AUD models are dual circuit. \*Includes Unit Air Handler with 2-speed SAV™ Indoor Fan Motor. Models listed are 60Hz, see your local Carrier Expert for 50Hz models. Listed Dimensions and Weights above for 38AU models.

**Nominal Cooling** 

20.0

Heat Pump Cooling Performance 38AUQ/40RUQ - AHRI Certified Ratings - COOL

### **Dependable Performance**

The Gemini 38AU series

outdoor units matched

with the 40RU series

indoor air handlers

provide a variety of

**HVAC** application

options. Whether it's

single circuit 38AUZ

series, superior part

lowest first cost with the

The 38AU condensing units offer operating controls and components designed for performance dependability. The high efficiency hermetic scroll compressor is engineered for long life and durability. The compressors include vibration isolation for quiet operation. The high-pressure switch protects the entire refrigeration system from abnormally high operating pressures. A low-pressure switch or loss of charge switch protects the system from loss of charge. These units also include anti-short-cycling protection, which helps to protect the units against compressor failure.

All units include a crankcase heater to eliminate liquid slugging at start-up and the Comfort Alert control system provides:

- System Go LED indicator
- · Fault LED indicator
- · Compressor fault LED indicator
- · Phase loss protection
- · Phase reversal protection
- · Safety pressure indicator
- · Anti-short cycle protection

Gemini heat pumps come standard with a precision sized factory installed refrigerant suction line accumulator that is designed to prevent liquid from entering the compressor during low ambient conditions or switching between operations.

#### Ease of Installation and Service

Certified and pre-engineered factory-installed options (FIOPs) allow units to be installed in less time, reducing installed cost. FIOPs include:

- · Low ambient controls which provide cooling operation down to -20°F (29°C) ambient temperatures
- Non-fused disconnect switch
- 115-v GFI (ground fault interrupter) convenience outlet, powered and non-powered available
- · Special coil coating coil protection
- Louvered hail quard

### **Constructed for Long Life**

commercial HVAC needs.

The 38AUZ single circuit and 38AUD dual circuit, scroll compressor models are designed and built to last. The outdoor coil construction allows for a more efficient design in a smaller cabinet size providing a reduction in refrigerant charge. Where conditions require, a special coil coating protection option is available. Cabinets are constructed of pre-painted galvanized steel, delivering unparalleled protection from the environment. Inside and outside surfaces are protected to ensure long life, good looks, and reliable operation. Safety controls are used for enhanced system protection and reliability.

load performance from two stages of cooling with the 38AUD series

these units are designed for long dependable operation for rooftop or

on-the-ground installation. All Gemini 38AU and 40RU series units

use environmentally sound Puron® refrigerant. Together, they create

a reliable split system that provides easy solutions to a wide range of

or year around energy savings with the 38AUQ heat pump series.

Each unit utilizes the Comfort Alert® diagnostic and troubleshooting control system. This protects the units operation and provides valuable diagnostic information when required.

#### **Efficient Operation**

Gemini air-cooled condensing units provide EERs up to 12.0 and IEERs up to 14.3, which meet the ASHRAE 90.1 efficiency levels. This high efficiency helps reduce overall operating cost and energy consumption.

COMFORT ALERT® is a registered trademark of Emerson Climate Technologies Inc.

#### **System Combination** Ton Size (MBH) **EER** IEER\* (LxWxH) Weight (lbs) 38AUQ(A,B)07/40RUQ07 6.0 70.0 11.0 N/A 59 x 46 x 42 444 38AUQ(D,E)07/40RUQ07 2 6.0 70.0 11.7 59 x 46 x 42 444 13.8 38AUQ(A,B)08/40RUQ08 7.5 88.0 12.4 59 x 46 x 42 483 11.0 38AUQ(D,E)08/40RUQ08 2 7.5 88.0 12.7 59 x 46 x 50 483 11.0 38AUQ(A,B)12/40RUQ12 10.0 112.0 11.0 12.2 59 x 46 x 50 575 38AUQ(D,E)12/40RUQ12 2 10.0 112.0 11.0 13.8 59 x 46 x 50 575 2 15.0 178.0 12.5 768 38AUQ16/40RUQ16 10.6 86 x 46 x 50

**Net Cooling** 

Capacity

38AUQ (D,E) Models are Single Circuit Dual Stage Models. \*Includes Unit Air Handler with 2-speed SAVTM Indoor Fan Motor. Listed Dimensions and Weights above for 38AUQ models.

10.7

12.5

222.0

#### Heat Pump Heating Performance at 47°F (8°C) 38AUQ/40RUQ -**AHRI Certified Ratings**

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	Heating	Nominal Cooling	Net Heating Capacity	
System Combination	Stages	Ton Size	(MBH)	COP
38AUQ(A,B)07/40RUQ07	1	6.0	66.0	3.30
38AUQ07(D,E)/40RUQ07	1	6.0	66.0	3.30
38AUQ(A,B)08/40RUQ08	1	7.5	86.0	3.30
38AUQ(D,E)08/40RUQ08	2	7.5	87.0	3.30
38AUQ(A,B)12/40RUQ12	1	10.0	106.0	3.30
38AUQ12(D,E)/40RUQ12	1	10.0	106.0	3.30
38AUQ16/40RUQ16	1	15.0	178.0	3.40
38AUQ25/40RUQ25	1	20.0	214.0	3.50

COP = Coefficient of Performance.

38AUQ25/40RUQ25

#### **40RU** Air Handler Weights and Dimensions

86 x 67 x 50

Dimensions (in)

Approx. Unit

1015

Unit Size	Dimensions (in) (LxWxH)	Approx. Unit Weight (lbs)			
40RU*07	49 x 28 x 56	399			
40RU*08	49 x 28 x 56	404			
40RU*12	49 x 28 x 56	425			
40RU*14	89 x 28 x 56	695			
40RU*16	89 x 28 x 56	713			
40RU*25	89 x 28 x 56	730			
40RU*28	101 x 33 x 66	1050			
40RU*30	101 x 33 x 66	1062			
*40RUS Chilled Water models also available.					