

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 40°F (4°C) ambient standard





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.

The Future of the World Depends on Our Ability... to Sustain it.

improve

As the world's 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 sustainability across its products, services and operations. We demonstrate this commitment by creating environmentally responsible solutions that consume less energy and incorporate innovations that improve the world - indoors and out.

Gemini[™] 38AU / 40RU Split System **Air Conditioners and Heat Pumps** with Puron[®] Refrigerant (R-410A) 6 to 20 Nominal Tons





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Selection Guide

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

			Net Cooling			38AU Unit		
System Combination	Cooling Circuits	Nominal Cooling Ton Size	Capacity (MBH)	EER	IEER	Dimensions (in) (LxWxH)	Approx. Unit Weight (lbs)	
38AUZ07/40RU07	1	6.0	71.0	11.5	12.2	59 x 46 x 42	389	
38AUZ08/40RU08	1	7.5	92.0	11.2	11.8	59 x 46 x 42	391	
38AUZ12/40RU12	1	10.0	117.0	11.2	12.0	59 x 46 x 50	490	
38AUD12/40RU12	2	10.0	117.0	11.2	11.6	59 x 46 x 50	516	
38AUZ14/40RU14	1	12.5	148.0	11.0	12.0	59 x 46 x 50	520	
38AUD14/40RU14	2	12.5	148.0	11.0	12.0	59 x 46 x 50	545	
38AUZ16/40RU16	1	15.0	184.0	11.2	13.2	86 x 46 x 50	731	
38AUD16/40RU16	2	15.0	184.0	11.2	11.8	86 x 46 x 50	745	
38AUZ25/40RU25	1	20.0	240.0	11.0	12.5	86 x 67 x 50	978	
38AUD25/40RU25	2	20.0	240.0	11.0	11.2	86 x 67 x 50	988	
EER = Energy Efficiency R	atio IEER =	Integrated Energy Effic	iency Ratio					

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

		Nominal Cooling Ton Size	Net Cooling Capacity (MBH)		38AUQ Unit			
System Combination	Cooling Circuits			EER	IEER	Dimensions (in) (LxWxH)	Approx. Unit Weight (Ibs)	
38AUQ07/40RUQ07	1	6.0	70.0	11.0	12.6	59 x 46 x 42	444	
38AUQ08/40RUQ08	1	7.5	89.0	11.0	12.0	59 x 46 x 42	483	
38AUQ12/40RUQ12	1	10.0	112.0	11.0	12.0	59 x 46 x 50	575	
38AUQ16/40RUQ16	2	15.0	178.0	10.6	11.0	86 x 46 x 50	768	
38AUQ25/40RUQ25	2	20.0	222.0	10.7	11.0	86 x 67 x 50	1015	
EER = Energy Efficiency Ra	atio IEER =	Integrated Energy Effic	iency Ratio					

AHRI Certified Ratings						Dimensions (in)	Approx. Un
System Combination			Net Heating Capacity (MBH)		Unit Size 40RU*07	(LxWxH) 49 x 28 x 56	Weight (lbs 399
	•	Nominal Cooling					
		Ton Size		COP	40RU*08	49 x 28 x 56	404
38AUQ07/40RUQ07	1	6.0	66.0	3.3	40RU*12	49 x 28 x 56	405
38AUQ08/40RUQ08	1	7.5	87.0	3.3			425
38AUQ12/40RUQ12	1	10.0	106.0	3.3	40RU*14	89 x 28 x 56	695
38AUQ16/40RUQ16	2	15.0	178.0	3.4	40RU*16	89 x 28 x 56	713
38AUQ25/40RUQ25	2	20.0	214.0	3.5	40RU*25	89 x 28 x 56	730
COP = Coefficient of Performance					40RU*28	101 x 33 x 66	1050
					40RU*30	101 x 33 x 66	1062

The Gemini 38AU series outdoor units matched with the 40RU series indoor air handlers provide a variety of HVAC application options. Whether it's lowest first cost with the single circuit 38AUZ series, superior part

load performance from two stages of cooling with the 38AUD series or year around energy savings with the 38AUQ heat pump 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 commercial HVAC needs.

Constructed for Long Life

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.

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 11.5 and IEERs up to 13.2, which meet the ASHRAE 90.1 efficiency levels. This high efficiency helps reduce overall operating cost and energy consumption.





Dependable Performance

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:

- Sustem 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 guard



*40RUS Chilled Water Models also available