

Gemini® Select Commercial Condensing Units 25 to 130 Tons



Gemini Select 38AP Commercial Condensing Units

- 25 to 130 Tons
- Digital compressor technology
- Suction Line Accumulator
- HFC Puron® refrigerant (R-410A)
- Reduced operating costs
- Quiet operation
- Reliable operation
- ASHRAE 90.1 compliant
- ETL listed
- Easy to start and operate



Benefits at a Glance

For Building Owners & Managers

- Delivers greater occupant comfort
- Reliable performance
- Quiet operation
- Easy to maintain
- Reduces operating costs

For Consulting Engineers

- Proven reliable design
- ASHRAE 90.1 compliant
- Simple to select
- Optimized capacity unloading
- System-integrated controls

For Contractors

- Factory and field stocked
- Ideal for replacement projects
- Easy to start-up and operate
- Extensive factory-installed options
- Reduces installation expenses

A Legacy of Training



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.



Gemini Select



United Technologies
turn to the experts

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Gemini® Select 38AP Commercial Condensing Units

Ideal Solution for Complex Replacement Applications



Gemini® Select

Leave it to Carrier to design condensing units in ways you'll notice at the initial purchase, through installation, and for years afterward. Our Gemini® Select commercial condensing units install quickly and easily to save you time and money. And the savings will continue to mount with lower operating costs due to the Gemini Select condensing unit's superior full- and part-load performance.

Available in 25 to 130 tons, the 38AP condensing units come in two refrigerant circuits: 38APS single refrigerant circuit Gemini Select condensing unit and 38APD dual refrigerant circuit Gemini Select condensing unit, both models with HFC Puron® refrigerant (R-410A), scroll compressors, and Novation® microchannel condenser coils to provide excellent part-load performance in a compact package, while exceeding ASHRAE 90.1 minimum energy efficiency requirements. With non-ozone depleting refrigerant, simple installation, superior efficiency and powerful controls, these units are ideal for both replacement and new construction projects.

Environmental Leadership

All of the energy-efficient 38AP condensing units, from 25 to 130 tons, use Puron refrigerant and can be incorporated into Leadership in Energy and Environmental Design (LEED®) Green Building Rating System projects.



BACnet is a registered trademark of ASHRAE. Modbus is a registered trademark of Schneider Automation, Inc. LON is a registered trademark of Echelon Corporation.

Affordability/Installability

Gemini Select commercial condensing units feature a compact footprint design. These condensing units provide a cost effective solution for both new system installations as well as drop in outdoor unit replacement in the 25 to 130 ton range. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

Efficiency

Along with cost efficiency in purchase and installation, Gemini Select commercial condensing units are also more affordable to operate. They are highly efficient, with full-load energy efficiency ratios (EER) up to 11.5 and integrated part-load value (IPLV) ratings as high as 16.2. The key to Gemini Select commercial condensing unit's great operating performance is the use of highly efficient rotary scroll compressors. These compressors use patented sealing techniques, allowing for high volumetric efficiency and low frictional losses. They are maintenance-free and protected by an auto-adaptive control that minimizes wear.

Building Load Matching

Excellent temperature control and building load matching is achieved with the digital compressor. The digital compressor provides incremental unloading and reduced compressor cycling ultimately providing exceptional building load match and higher compressor reliability than standard scroll cycling.

The Right Level of Control

Carrier's commercial *ComfortLink* control system makes it easy to monitor and control each Gemini Select commercial condensing unit. The *ComfortLink* system with Energy Management Module provides functions such as demand limit, percent capacity, and supply air temperature reset capabilities. These features provide added control for reducing energy usage and Building Management System (BMS) input control.

The Gemini Select condensing units offer several display options, including the Scrolling Marquee (standard display), Touch Pilot™, and Navigator handheld controller. These act as windows to the unit's operation and greatly reduce start-up time. An easy-to-follow menu structure makes it simple to find the required information for start-up and service.



Selection Guide

Model 38APS (R-410A)	025	027	030	040	050	065						
Capacity (tons)	24.0	26.6	31.1	39.8	48.1	59.6						
Full Load Efficiency (EER)	11.0	10.9	10.8	11.5	10.8	11.1						
Part Load Efficiency (IPLV)	14.4	14.7	14.3	16.2	15.0	15.1						
Length (in.)	89	89	89	93	93	111						
Width (in.)	41	41	41	89	89	89						
Height (in.)	61	74	74	73	73	73						
Operating Weight (lbs.)	1077	1240	1246	1968	1977	2561						
Model 38APD (R-410A)	025	027	030	040	050	060	070	080	090	100	115	130
Capacity (tons)	24.0	26.6	31.1	39.2	50.0	58.3	67.3	78.0	87.4	96.0	110.4	125.1
Full Load Efficiency (EER)	11.0	10.9	10.8	11.5	11.1	11.0	11.0	11.1	11.3	11.1	11.1	11.1
Part Load Efficiency (IPLV)	13.1	14.0	12.8	15.3	14.9	14.5	15.7	15.6	15.3	15.0	15.2	15.2
Length (in.)	89	89	89	93	93	93	111	152	152	152	192	192
Width (in.)	41	41	41	89	89	89	89	89	89	89	89	89
Height (in.)	61	74	74	73	73	73	73	73	73	73	73	73
Operating Weight (lbs.)	1095	1258	1264	2094	2120	2227	2450	2610	2835	2844	3211	3353

For Outdoor Installation Only

The Touch Pilot display provides an easy to use touch screen user interface. It provides access to configuration, maintenance, service, setpoint, time schedule, alarm history and status data.

The scrolling marquee's large light-emitting diode (LED) display is easy to read in any lighting condition. Even gloved hands can easily access large control buttons. An optional accessory on all Gemini Select condensing units, the Navigator controller by Carrier is an exclusive remote handheld diagnostic unit which provides expanded information on virtually every aspect of operation, helping technicians to quickly

diagnose problems and even prevent them from occurring. All Gemini Select condensing units are also ready to be used with the Carrier Comfort Network® (CCN) control system. Additionally, 38AP units can communicate BACnet®, MODBUS®, or LON® using an accessory translator card or can be controlled with 4-20 mA input (BMS) signal with the Energy Management Module. BACnet Translator Card also available as a factory installed/programmed option.

For all your comfort needs, Carrier has the right level of control.