

Nomenclature

		D	S	C	120	3	S	400	12	A	A	X	X	X	X	X	X	X	X	X	X	A	*	
		1	2	3	4,5,6	7	8	9,10,11	12	13	14	15	16	17	18	19	20	21	22	23	24			
																						Revision Levels		
																						Major & Minor		
Brand																								
D	Daikin																							
Configuration																								
F	Standard Efficiency																							
R	High Efficiency																							
Application																								
C	Cooling																							
G	Gas Heat																							
H	Heat Pump																							
Nominal Cooling Capacity																								
036	3 Tons	090	7½ Tons	180	15 Tons																			
048	4 Tons	102	8½ Tons	240	20 Tons																			
060	5 Tons	120	10 Tons	300	25 Tons																			
072	6 Tons	150	12½ Tons																					
																						X No Options		
Voltage																								
1	208-230/1/60	4	460/3/60																					
3	208-230/3/60	7	575/3/60																					
																						X No Options		
																						B Single point power connection for Power Exhaust		
Supply Fan/Drive Type/Motor																								
D	Direct Drive- Standard Static																							
W	Direct Drive- High Static																							
L	Direct Drive-Medium Static																							
																						X No Options		
Nominal Heating Capacity																						Service Options		
Gas/Electric		A/C Factory-Installed Electric Heat																				X No Option		
045	45,000 BTU/h	XXX	No Heat																		A Powered convenience outlet			
060	60,000 BTU/h	005	5kW																		B Non-powered convenience outlet			
070	70,000 BTU/h	010	10 kW																		C Hinge Panels			
080	80,000 BTU/h	015	15 kW																		D Hinged Panels and Powered convenience outlet			
090	90,000 BTU/h	020	20 kW																		E Hinged Panels and non-powered convenience outlet			
100	100,000 BTU/h	030	30 kW																					
115	115,000 BTU/h	045	45 kW																					
125	125,000 BTU/h	060	60 kW																					
130	130,000 BTU/h	075	75kW																					
140	140,000 BTU/h	Electric Heat w/ SCR controls																						
150	150,000 BTU/h	S05	5kW	S22	20 kW																			
180	180,000 BTU/h	S10	10 kW	S25	25 kW																			
210	210,000 BTU/h	S15	15 kW	S30	30 kW																			
225	225,000 BTU/h	S16	15 kW	S31	30 kW																			
240	240,000 BTU/h	S18	18 kW	S45	45 kW																			
260	260,000 BTU/h	S20	20 kW	S46	45 kW																			
350	350,000 BTU/h	S21	20 kW	S60	60 kW																			
360	360,000 BTU/h																							
400	400,000 BTU/h																							
480	480,000 BTU/h																							
See product specifications for heat size(s) available for each capacity.																								
Refrigeration Systems																								
A	Single stage cooling modes																							
C	Two stage cooling modes																							
F	Two stage cooling modes with Hot Gas Reheat and Low-ambient control																							
G	Single stage cooling mode with Low-ambient controller																							
H	Two stage cooling mode with Low-ambient controller																							
Heat Exchanger																								
X	No options																							
A	Standard Aluminized Exchanger																							
S	Stainless Steel Exchanger																							
U	Ultra Low NO _x Stainless Steel Exchanger																							
Controls																								
A	Electromechanical controls																							
B	DDC w/ BACnet™ interface																							
AC STOCKING MODELS																								
New Daikin 15 – 25 Ton																								
MODEL NUMBER		CODE STRING																						
DSC1803D000001S		DSC1803DXXXCXAXXXXXXXXXAA																						
DSC1804D000001S		DSC1804DXXXCXAXXXXXXXXXAA																						
D	R32 Sensor																					Sensors		
E	RA Smoke Detector																							
F	SA Smoke Detector																							
G	RA & SA Smoke Detector																							

Daikin Packaged Rooftop Units (RTUs) are built to perform, with features and options that help provide low installation and operation costs, superior indoor air quality, efficient operation, and longevity.

Installation

Daikin Packaged units are designed with fast and easy installation in mind and are ideal for both new construction and retrofit projects.

Cabinet Construction

Daikin packaged rooftop units are made with high quality galvanized steel with a powder-paint finish to provide higher corrosion resistance.

- » Unit fully insulated to prevent sweating and thermal losses, using our foil face fiberglass insulation which also omits exposed filter fibers into the airstream.
- » The full perimeter base rail is built using heavy gauge galvanized steel for a stronger structural installation. The base rails are a minimum of 3 ½" tall and include holes to allow for overhead rigging and lifting with forklifts.
- » Electrical lines can be brought through the base of the unit or through the horizontal knockout for easy installation and accessibility on the field

Compressor

High performance, low noise scroll compressors with stage control to match the required total load for efficient part load control.

- » Resiliently factory-mounted on rubber grommets for vibration isolation.
- » Refrigeration circuits include both high and low pressure safety switches.
- » Unit is factory charged with environmental friendly and sustainable low GWP R-32 refrigerant.
- » Two single-stage scroll compressors individually circuited for partial load applications.
- » Compressor location outside the condenser section to avoid air bypass.
- » Crankcase heaters and external thermal overload protection are also provided for compressor durability.

Supply Fan

Supply fan will be 2 direct-drive motors. Ball bearing Direct-Drive EEM motor removes the need for belts, sheaves, bearings and lubrication.

- » Slide out forward curb fans for easy maintenance and replacement.
- » High-static drive options for applications with high airflow/static requirements.
- » Each fan assembly is dynamically trim balanced at the factory before shipment for quick start-up and efficient operation.
- » Motor with thermal overload is provided for long lasting operation.

Coils

The indoor coil section is installed in a draw through configuration to provide better dehumidification. These coils are constructed with seamless copper tubes, mechanically bonded into aluminum plate-type fins with full drawn collars to completely cover the tubes for high operating efficiencies.

- » Coils are factory pressure tested to ensure pressure and leak integrity.
- » Coils include a Thermal Expansion Valve per circuit, high- and low pressure switches, service ports and high capacity filter drier.
- » All units use large face area outdoor coils.
- » Copper tube / aluminum fin coils on evaporator
- » Microchannel heat exchanger technology on all condenser coils for improved performance and reduced refrigerant load.



Controls and Wiring

Packaged rooftop units come equipped with a well-organized, large, easy to use, weatherproof internal control box with easy access, for a better user experience.

- » Units are factory-wired with color-coded wires and complete 24-volt Electromechanical controls package.
- » Units include single-point power entry as standard and also available with electric heat kits if selected.
- » Terminal strips are provided as standard for easy installation and field power wiring.

Filtration

Unit provides a draw-through filter section as standard for better air quality and long lasting component maintenance.

- » Filters installed on the units are standard off the shelf sizes for easy replacement.
- » 2" deep filters standard on all units with option for up to 4" on large chassis (15 tons and over).

Heating Section

Wide range of electric heat selections effectively handle most comfort heating demand from morning warm-up control to full heat.

Electric Heat

ETL approved electric heat is factory assembled, installed and tested.

- » Heating control is fully integrated into the unit's control system for quick start-up and reliable control.
- » Multi-stage capability for application flexibility.
- » Durable low watt density, nickel chromium elements provide longer life (compared to units without)..

- » Fuses are provided in each branch circuit to a maximum of 48 Amps per NEC requirements.
- » Single-point power connection reduces installation cost.
- » Operational safeties for electric heat includes automatic reset, and high temperature limit protection to prevent electric heat operation in the event of no airflow.

Electrical

Units are completely wired and tested at the factory to provide faster commissioning and start-up.

- » Wiring complies with NEC requirements and all applicable UL standards.
- » Units are factory-wired with color-coded wires and complete 24-volt electromechanical controls package.
- » A 115 V GFI convenience outlet requiring independent power supply for the receptacle is optional.
- » An optional unit powered 20 amp 115 V convenience outlet, complete with factory mounted transformer, disconnect switch, and primary and secondary overload protection, eliminates the need to pull a separate 115 V power source.
- » Supply air fan, compressor, and condenser fan motor branch circuits have individual short circuit protection. Unit includes knockouts in the bottom of the main control panels for field wiring entrance.
- » A single-point power connection with power block is standard and a terminal strip is provided for connecting low voltage control wiring.
- » For better serviceability an optional non-fused disconnect switch is mounted inside the control panel and operated by an externally mounted handle to disconnect the electrical power at the unit.

