Product Data

A10287

NOTE: Evolution Control compatible with Evolution rated indoor equipment only.

US Patents: Carrier® U.S. Pat No. 7,243,004, Carrier® U.S. Pat No. 7,775,452

EVOLUTION™ CONTROL

Bryant specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. The Evolution Control System is the ultimate control center for all of your system components. When you add an Evolution Control to a compatible variable speed furnace, fan coil, or small packaged product, you will enjoy longer heating and cooling cycles at lower fan speeds for a more consistent temperature throughout your home. By adding an Evolution or Preferred compatible outdoor unit, your benefits will increase even more. Benefits include better humidity and temperature control as well as a more energy efficient comfort system.
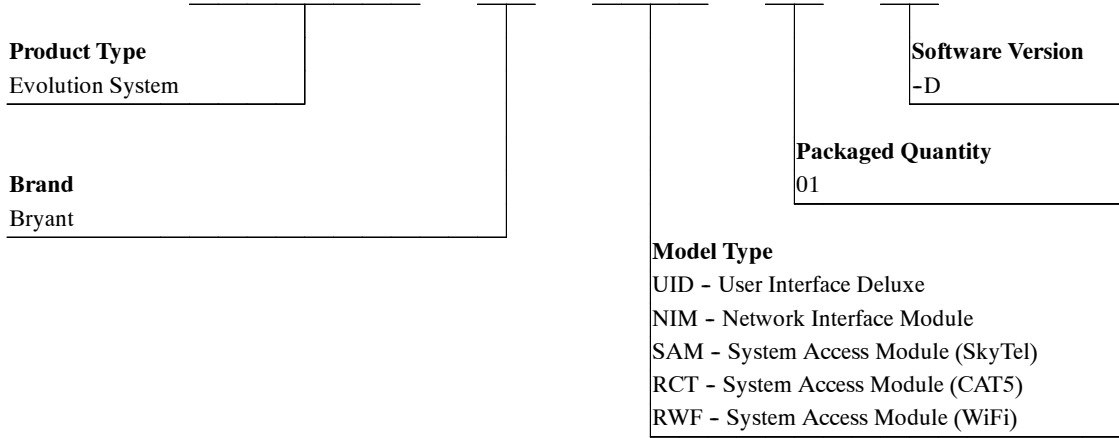
INDUSTRY LEADING
FEATURES / BENEFITS

Bryant's revolutionary Evolution Control is the smart control of the future. The Evolution Control features a backlit liquid crystal display, making it easier to read the temperatures, even at night. Intuitive prompts let you program everything from humidity levels to fan speeds, giving you the ultimate control over your home comfort. Other features include:

— 4-wire installation from each component in the system
— Intuitive on screen prompts for ease of installation and service
— Perfect Humidity™ settings are the default no longer requiring increased system setup
— Complete integration of the temperature, humidity and ventilation in every season
— 7-day programmability with 2 or 4 periods per day
— Easy timed-override schedule
— Simplified vacation schedules
— Day-at-a-glance programming for simplified ease of use
— Programmable fan by period
— TrueSense™ Dirty Filter Detection
— Indoor Air Quality pop up reminders
— General maintenance reminder messaging
— Optional Remote Access Kit can be added for access to your system from the Internet.

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13	14
S	Y	S	T	X	B	B	U	I	D	0	1	-	D

Product Type
Evolution System

Brand
Bryant

Model Type
UID – User Interface Deluxe
NIM – Network Interface Module
SAM – System Access Module (SkyTel)
RCT – System Access Module (CAT5)
RWF – System Access Module (WiFi)

Software Version
–D

Packaged Quantity
01

Perfect Heat Perfect Humidity™

EVOLUTION® SYSTEM

4.2-in (107 mm)

6.4-in (163 mm)

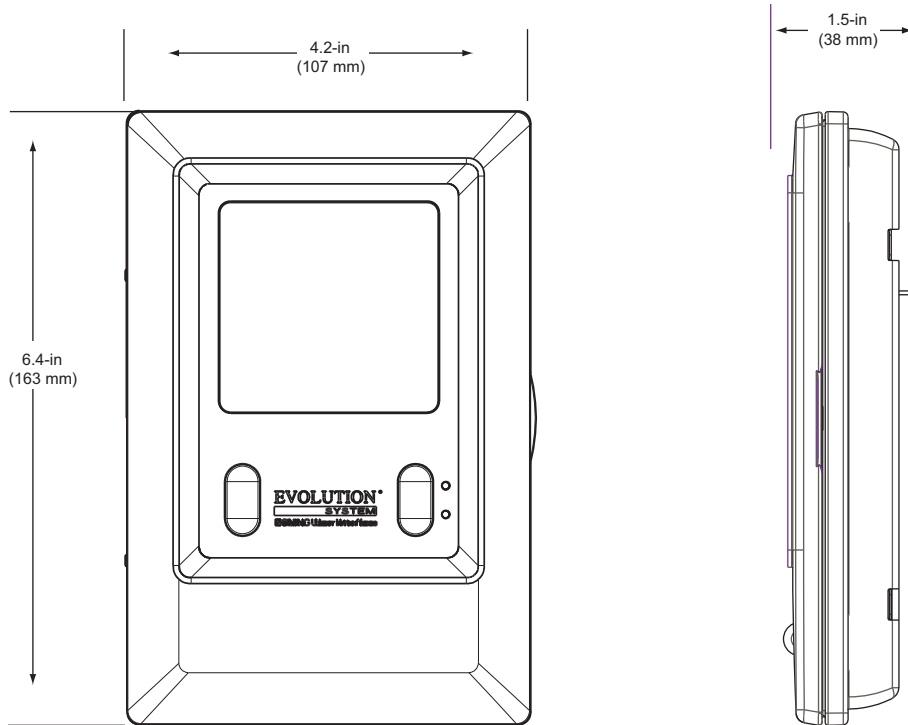1.5-in (38 mm)

EVOLUTION® SYSTEM

A09494

Fig. 1 – Unit Dimensions

PRODUCT DATA INFORMATION

Current Compatible Communicating Products

Air Conditioning units - 180B, 187B, 186B

Heat Pumps - 286B, 289B, 285B

Gas Furnace - 355AAV, 315AAV, 315JAV, 355CAV

Fan Coils - FE

Small Packaged Products - 577D, 707D, 607D, 677D

Physical Characteristics

Dimensions: See drawing

Appearance: Plastic, white color, textured

Electrical Characteristics/Communication

Input Volts/Amps 24VAC

Each device in the Evolution System has a four-pin connector labeled ABCD. It is recommended that the following color code be used when wiring each device:

A — Green = Data A

B — Yellow = Data B

C — White = 24VAC (Com)

D — Red = 24VAC (Hot)

Environmental Requirements:

Operating Temperature/Relative Humidity:

User interface and all sensors: 32°F to 104°F / 0°C to 40°C, 95% rh non-condensing

Storage Temperature/Relative Humidity:

User interface: -40°F to 134°F / -40°C to 56.7°C, 95% rh non-condensing

Feature Specifications:

Temperature set point range: 40°F to 90°F / 4.4°C to 32.2°C

Separate heat and cool setpoints

Programming days: 7 day

Programming periods:

2-Day, Sleep

4-Wake, Day, Eve, Sleep

Non-Programmable

Auto changeover (may be disabled)

Programmable fan (installer selectable)

Humidity Sensor Offsets

Auto Changeover Timer (installer adjustable)

Smart Recovery (in heating and cooling)

Hold function

Copy functions: Copy period, day and zone

Permanent memory

Humidity display and control

Temperature sensor offsets (indoor and outdoor)

TrueSense™ Dirty Filter Detection

Wiring Requirements:

Power supply: Dedicated 24VAC, 40 va, 60 Hz, via indoor equipment ABCD Connector. Isolated transformer, field supplied.

Wiring material: Standard thermostat wire 18 to 24 gauge.

Equipment

DESCRIPTION	PART NO.
Evolution Control (4-Wire User Interface w/ multiple functionality)	SYSTXBBUID01-D
Evolution Network Interface Module (NIM)	SYSTXBBNIM01*

* Required for ventilator control

Required for Hybrid Heat applications with non-communicating heat pumps

Required for use with 2-stage (non-communicating) AC or HP (598A / 698A)

Optional Accessories

DESCRIPTION	PART NO.
Evolution Remote Room Sensor	SYSTXBBRRS01*
Evolution Large Decorative Backplate	SYSTXBBLBP01-C
10 Pack Replacement - Green Indoor Unit Plug (ABCD Connector)	SYSTXGRPLG10
Evolution System Access Module (Remote Access Kit, Wired, CAT5)	SYSTXBBRCT01
Evolution System Access Module (Remote Access Kit, Wireless WiFi)	SYSTXBBRWF01
Outdoor Sensor	TSTATXXSEN01-B

* Not required, but may be used to remote sense indoor room temperature.