

## ${ }^{\text {FIT }}$

## DAIKIN FIT

FLEXIBLE. INNOVATIVE. TECHNOLOGY.
QUIET / SPACE-SAVING / EFFICIENT LOW PROFILE HEAT PUMP WITH


INVERTER (VARIABLE-SPEED) TECHNOLOGY


## DESIGNEDTO FIT COMFORT, SPACE-SAVING, AND EFFICIENCY REOUIREMENTS WITH EASE.

The Daikin Fit system is a side discharge, smart HVAC system that won't compromise on comfort and connects to ducted solutions traditional to the unitary market. In a market saturated with expensive high-tiered inverters, the system provides a premium mid-efficiency inverter at an affordable rate. The low profile of the outdoor unit offers solutions when a traditional cube style cannot.

## AFFORDABLE. EFFICIENT. SPACE-SAVING.

When installation space is limited, families shouldn't need to compromise on comfort. Ideal for zero lot lines, roof, wall, or terrace areas, the Daikin Fit features a new style solution allowing you to meet the demands of homes with the strictest of limitations with relative ease.


TRADITIONAL (CUBE STYLE) OUTDOOR UNIT


NEW DAIKIN FIT SIDE DISCHARGE SOLUTION


## FEATURES AND BENEFITS

" Up to 18 SEER and 10 HSPF
" Compact - The trunk style outdoor unit is perfect when installation space is limited
" Inverter (variable-speed) Compressor - Ideal indoor comfort and efficiency
" Low dBa - Reclaim outdoor space
" Quiet-mode - Provides enhanced acoustical comfort
" Blue Fin Coat - Long condenser coil life and reliability
" Swing Compressor - Quiet and dependable
" Side panel access - Ease of service
" Lightweight - Easier to handle and install (compared to traditional cube style systems)
" Intelligent Defrost Mode - The outdoor unit will enable this mode to help prevent frost/ice from building up in cold climate conditions. It will also help with longer heating operation time for additional comfort for occupants (compared to HVAC systems without this function).

- A selectable defrost backup heat option, when turned off, will lower power consumption during defrost.
" Advanced water-shedding drain pan - Engineered with multiple drain holes and channels to help provide effective water shedding.
" Hot start technology - When the heating operation starts or when the unit changes from cooling to heating there is no cold draft released into the room.

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## INTRODUCING DAIKIN FIT HEAT PUMP

## DAIKIN FIT OUTDOOR UNIT — DZ17VSA

Variable-Speed DC Fan.
High efficiency and low sound levels.

Daikin Swing Compressor.
High efficiency. Low sound levels.


Inverter Board Cooled by Refrigerant Circuit ${ }^{1}$. Elimination of condenser fan pressure drop caused by heat sink used on previous generations.
compact casing design.

6 Intelligent Defrost Mode.
The outdoor unit will enable this mode to help prevent frost/ice from building up in cold climate conditions. It will also help with longer heating operation time for additional comfort for occupants (compared to HVAC systems without this function)

- A selectable defrost backup heat option, when turned off, will lower power consumption during defrost.

Blue Fin Corrosion Coating.
1000 hours salt spray rated as standard. Hydrophilic coating to help keep the coil clean.

## 7mm Coil.

High heat exchanger efficiency and


Advanced watershedding drain pan.
Engineered with multiple drain holes and channels providing effective water shedding.



[^1]
## WHY DAIKIN FIT?

## DAIKIN INVERTER TECHNOLOGY

Wouldn't it be great if your cooling and heating system weren't an energy hog? Daikin inverter technology helps systems run at an energy-conserving level, despite the climate conditions, by making slight adjustments to the compressor's speed. Daikin systems will reach the desired temperature faster and maintain a more constant temperature compared to traditional ON/OFF systems. It will not frequently start and stop the "old fashioned way" just as a car is more efficient and comfortable traveling on a highway than it is in stop-and-go city traffic.

## LEARN MORE ABOUTTHE BENEFITS OF INVERTERTECHNOLOGY:

www.daikincomfort.com/go/inverter/


## PROPRIETARY SWING COMPRESSOR



Daikin Fit systems are engineered with Daikin swing compressor technology. This technology brings additional peace of mind to every homeowner. The main parts are integrated into one main component minimizing wear and tear on the system. This enhanced functionality is designed to help eliminate refrigerant leaks from high side to low side and is an ideal compressor choice for high (under 65,000 Btu/h) efficiency systems, such as the Daikin Fit.

## VARIABLE-SPEED DC FAN

Our Daikin variable-speed DC fan motor operates with PWM (Pulse Width Modulation). With PWM, the Daikin Fit operates using adequate energy based on load requirements, providing enhanced operational efficiency (compared to systems without PWM). The image to the right is an example of what PWM power pulses look like (may differ depending on system, and load requirements).


## DAIKIN BLUE FIN CORROSION COATING



Daikin Fit systems feature our professional engineered hydrophilic Blue Fin coating (1000+ hours salt spray rated) as standard. The Blue Fin corrosion coating protects the outdoor unit against weather conditions and reduces friction to allow water to drain quicker from the coil and washes the coil clean.

## FLEXIBLE PIPING CAPABILITIES

The Daikin Fit system is a great choice for most single, two, and three-story homes with existing ductwork. The ability to utilize existing line sets, and connect up to 100' of pipe, for typical installations, (braze connections - no flare) can offer new solutions to overcome project obstacles.

| CONNECTING PIPING (maximum) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.5-5 ton |  |  |  |  |  |  |
| Length |  |  | Height |  |  |  |
| 100 ft |  |  | 90 ft |  |  |  |
| PIPING DIAMETER |  |  |  |  |  |  |
| COND UNITTONS | RECOMMENDED LINE SET DIAMETER |  |  |  |  |  |
|  | Liquid |  | Gas |  |  |  |
|  | 1/4" | 3/8" | 5/8" | 3/4" | 7/8" | 11/8" |
| 1.5 ton | A | S | A | S |  |  |
| 2 ton |  | S | A | S |  |  |
| 2.5-3 ton |  | S |  | A | S |  |
| 3.5-5 ton |  | S |  |  | A | S |
|  |  |  |  |  |  |  |



DESIGNED TO FIT:

- APPLICATION
- BUDGET
- COMFORT
- DESIGN


## Application

## A NEW SOLUTION FOR EVENTHE MOST UNIQUE PROJECTS:

» Mid-efficiency heat pumps can be applied across North America
» Perfect alternative to the traditional cube style unitary products in a 1:1 application
» Traditional homes, townhomes, bungalows, condos, zero lot line homes, patios, terrace, and multi-story locations that would typically require a crane
» Install using existing ductwork and existing line sets
» Space-saving low profile trunk style outdoor unit for easy carrying and installation in tight spaces
» Ease of service and maintenance with a quick-toaccess side panel
» New DVFEC Air Handler with 7 mm evaporator coils
» Utilize EEV coil family: CAPEA (Upflow/Downflow) with 7 mm evaporator coils
» Connects with any Daikin communicating gas furnace $80 \%$ and $90 \%+$ for dual fuel capability
» Compatible with Daikin One+ smart thermostat and other Daikin communicating equipment
» Add the new Daikin One premium air cleaner for additional IAQ (Indoor Air Quality) control

## DAIKIN FIT HEAT PUMP



DAIKIN FIT HEAT PUMP WITH DUAL FUEL


AT TIME OF LAUNCH, PARTIAL OFFERING AVAILABLE: 1.5 TO 3.0 TONS WITH UPFLOW/DOWNFLOW COILS

## Budget

## OPERATIONAL EFFICIENCIES THAT DRIVE SAVINGS:

The inverter compressor is the heart of a Daikin Fit system. Daikin's inverter technology is responsible for delivering intelligent comfort with efficiency, based on demand. The inverter (variable-speed) compressor delivers the capacity required to maintain desired room conditions, typically reducing energy consumption by up to $30 \%$ or more (compared to traditional fixed-speed systems).
" Intelligent Defrost Mode: The outdoor unit will enable this mode to help prevent frost/ice from building up in cold climate conditions. It will also help with longer heating operation time for additional comfort for occupants (compared to HVAC systems without this function).

- A selectable defrost backup heat option, when turned off, will lower power consumption during defrost.
» The enhanced functionality of the variable-speed DC fan motor can offer an increase of approximately $20 \%$ in efficiency (compared to systems with a conventional AC motor).

DC Motor Efficiency (Comparison with a Conventional AC Motor)


Note: Data is based on studies conducted under controlled conditions at a Daikin laboratory.

## Comfort

## IDEAL TEMPERATURE AND LOW SOUND LEVELS:

Traditional (non-inverter) systems offer basic ON/OFF operation mode only. With the compressor turning ON/OFF constantly, the system works to reach set indoor temperature. With inverter technology, the Daikin Fit system, can adjust operations to meet the desired comfort levels.
» Hot Start Technology: When the heating operation starts or when the unit changes from cooling to heating there is no cold draft released into the room.

Undesirable operational sounds often accompany noninverter (traditional) HVAC systems. These continuous sounds can become a nuisance in yards, or when the system is installed near a window. With the ability to reach sound power levels as low as $56 \mathrm{~dB}(\mathrm{~A})$, the Daikin Fit system can help bring additional acoustical comfort to any environment (inside and out).

## COMPACT FOOTPRINT TO MEET DESIGN DEMANDS:

Feature rich design in a compact footprint that includes:
" Blue Fin Coat: Long condenser coil life and reliability
» Swing Compressor: Quiet and dependable
» Advanced Water-Shedding Drain Pan: Engineered with multiple drain holes and channels to help provide effective water shedding.

With clearance space as little as 4" from a wall and compact size, the Daikin Fit system works when installation space is limited.
» Fit more in your HVAC tech van or truck; 4-5 Daikin Fit units as opposed to 1 or 2 traditional systems
» Easy to bring to the installation site and install on pad - the single fan unit can be transported by a single worker or on a dolly

UNIT DIMENSIONS

| UNIT DIMENSIONS |  |
| :---: | :---: |
| $\mathbf{1 . 5 - 3} \mathbf{~ T O N}$ | $\mathbf{3 . 5 - 5}$ TON |
| W: $36.6^{\prime \prime} \times \mathrm{D}: 13.8^{\prime \prime} \times \mathrm{H}: 27.4^{\prime \prime}$ | W: $37^{\prime \prime} \times \mathrm{D}: 12.6^{\prime \prime} \times \mathrm{H}: 39^{\prime \prime}$ |



## INDOOR UNITS



## NEW DVFEC MULTI-POSITION, VARIABLESPEED, ECM-BASED AIR HANDLER

" Multi-position AHU: Upflow/ downflow, and horizontal left/right orientations.
" 7 mm All Aluminum Evaporator Coil:

- Enhance indoor comfort.
- Outstanding heat transfer properties
- Improve refrigerant balance between Indoor and Outdoor unit.
" Variable-speed Electrically Commutated Motor (ECM):
- Provides gradual startup and shutdown for unobtrusive operation with lower energy consumption.
- Constant low-speed operation for outstanding filtration and comfort levels.
" Electronic Expansion Valve:
- Better utilization of Evaporator.
- Wide operation range.
"Communicating: Compatible with Daikin One+ smart thermostat and other communicating equipment.


BACKED BY A 12-YEAR PARTS LIMITED WARRANTY*
*Complete warranty details available from your local dealer/contractor or at www.daikincomfort.com. To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.
" Durable heat exchanger:
Unique tubular stainless-steel construction formed using wrinkle-bend technology results in an extremely durable heat exchanger. Paired with a stainless-steel secondary heat exchanger, this combination provides for reliability, durability and efficiency.
" Modulating gas valve:
Operates between 35\% 100\% capacity, providing precise efficiency and the ultimate in comfort.
" Continuous air circulation:
Provides filtration and keeps air moving throughout your home to help maintain comfort.

## "Self-diagnostic control

 board: Continuously monitors the system for consistent, reliable operation." Quiet, variable-speed induced draft blower: Provides precise control and enhanced energy-efficient performance as compared to single-speed blowers.

[^2]

## INDOOR UNITS



## CAPEA - ALL ALUMINUM COILS

"A Available in 1.5-Ton through 3-Ton capacities
" Engineered for compatibility with Daikin Fit outdoor units
") Electronic Expansion Valve (EEV) models feature

- Communicating (Compatible with the Daikin One+ smart thermostat and other Daikin communicating equipment)
- Cooling and heat pump applications
- Fault recall of six most recent faults
- PID control loop for precision capacity control
" Seamless integration to full suite of Daikin controls using communicating control board
" Light weight all aluminum evaporator coil
"A Air cleaner and humidifier integration capable (rules apply, refer to installation manual for details).
" Foil-faced insulation covers internal casing to reduce cabinet condensation
"Ships factory standard upflow with easy field conversion to downflow
" UV and rust resistant, 5VA rated thermoplastic drain pan with integrated secondary drain


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## MBVC - MULTI-POSITION AIR HANDLER

" Communicating (Compatible with the Daikin One+ smart thermostat and other Daikin communicating equipment)
" Variable-speed ECM indoor blower motor
" Provides constant CFM over a wide range of static pressure conditions independent of duct system
" CFM indicator
"Fault recall of six most recent faults
"Built-in dehumidification feature
" Blower section usable as an electric furnace
" 21 inch deep cabinet for easier attic access
"Control board includes a blower time-delay in the cooling mode
" Foil-faced insulation lines the cabinet to help reduce operating sound and cabinet condensation
" Horizontal or vertical configuration


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## DAIKIN ONE PREMIUM AIR CLEANER

" Magnetic door design ensures tool-less, easy access to filter components for quick and easy filter changes
" Insulated cabinet to reduce risk of condensation
" The new Daikin One premium air cleaner is a MERV 15 media filter that removes more than $85 \%$ of particles down to 0.3 microns*
" Pleated media filter removes over 98\% of Aspergillus fumigatus, Aspergillus versicolor, and Stachybotrys chartarum from the airstream*
" Pleated media filter removes over 99\% of Ragweed, over 72\% of Cat Dander, and over $73 \%$ of Dust Mites from the airstream*
" Helps remove formaldehyde and ozone
" Extra deep, 5¼" pleated filter constructed of cellulose-free, hydrophobic polyolefin fibers
„ Designed for multi-position horizontal or vertical installations
" Filter design features a structured density gradient for sustained efficiency over the life of the filter
" Filter has a tight cabinet fit ensuring negligible air bypass
" Filter frame designed with dual pull tabs for easy removal
" Fully gasketed door for proper air seal
"Heavy duty, 20 gauge, post-forming painted, corrosion-resistant door
" All cabinet mounting holes are slotted and designed to lineup with original equipment flanges for time-saving installation
" Filter should be changed once or twice a year based on conditions within the home

* Testing performed by LMS Technologies, Inc.

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The Daikin One + smart thermostat is an intelligent home air controller from the world's leading heating, ventilating, and air conditioning (HVAC) manufacturer. It is a cloud-connected hub of sophistication, integrated for controlling temperature, humidity, and air quality.

The high-resolution color touch screen display is protected by the same toughened glass used in smart phones.


A number of screen savers are available, including this analog clock.

An integrated WiFi radio
connects to the internet (via a home router) to the cloud and on to the homeowner mobile application. The Daikin cloud will also seamlessly integrate with open smart home architectures, including Amazon Alexa ${ }^{\text {TM }}$ and Google Assistant ${ }^{\top \mathrm{M}}$, enabling consumers to effortlessly use features such as voice control.

A thin LED light bar sits flush within the bottom surface and runs from edge to edge, delicately illuminating the wall beneath. Emitting a soft emotive glow, the light bar indicates the current system mode: red-orange for heating, blue for cooling.

The anodized aluminum bezel and dial are precision manufactured. The surfaces have a fine bead blast with a warm hued anodized finish. The dial rotation is extraordinarily smooth because it rests on a bearing assembly typically found in precision instruments. A switch behind the dial enables users to return to the home screen from any menu with a single tap.


** Inverter/Controller limited to less than 1 Amp
${ }^{1}$ Tested and rated in accordance with AHRI Standard 210/240
${ }^{2}$ Line set length should be $<=50 \mathrm{ft}$ if normal cooling mode ambient temperature is below $14^{\circ} \mathrm{F}$ (applies to select sizes, see Installation Instructions for details).
${ }^{3}$ Line set length $>=30 \mathrm{ft}$ will have heating operation lockout at $15^{\circ} \mathrm{F}$.
${ }^{4}$ Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.
${ }^{5}$ Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.
Notes: Always check the S\&R plate for electrical data on the unit being installed. / System charge must be adjusted per Installation Instructions Final Charge Procedure.

## DVFEC

|  | Model | Dimensions |  |  | Nominal Tons | Connection Size |  | Ship Weight (lbs) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | W ${ }^{\prime \prime}$ | D" | $\mathrm{H}^{\prime \prime}$ |  | Liquid" | Suction" |  |
| DV24FECB14 |  | 171/2 | 21 | 45 | 11/2-2 | $3 / 8$ | $3 / 4$ | 115 |
| DV36FECC14 |  | 21 | 21 | 537/16 | 2.5-3 | $3 / 8$ | 7/8 | 140 |
| DV42FECC14 |  | 21 | 21 | 537/16 | 3.5 | $3 / 8$ | 7/8 | 140 |
| DV48FECD14 |  | 241/2 | 21 | 53/16 | 3.5-4 | $3 / 8$ | 7/8 | 150 |
| DV60FECD14 |  | 241/2 | 21 | 58 | 3.5-5 | $3 / 8$ | 7/8 | 167 |

The manufacturing entity reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

## CAPEA

| Model | Dimensions |  |  | Nominal Cooling Tons | Connection Size |  | Ship Weight (Ibs) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | W" | D" | $\mathrm{H}^{\prime \prime}$ |  | Liquid" | Suction" |  |
| CAPEA1818B4 | 171/2 | 21 | 18 | $11 / 2$ | 3/8 | $3 / 4$ | 43 |
| CAPEA1818C4 | 21 | 21 | 18 | $11 / 2$ | 3/8 | 3/4 | 45 |
| CAPEA2422B4 | 171/2 | 21 | 22 | 2 | 3/8 | 3/4 | 48 |
| CAPEA2422C4 | 21 | 21 | 22 | 2 | 3/8 | 3/4 | 51 |
| CAPEA3026B4 | 171/2 | 21 | 26 | $21 / 2$ | 3/6 | 7/8 | 54 |
| CAPEA3026C4 | 21 | 21 | 26 | 21/2 | 3/8 | 7/8 | 57 |
| CAPEA3026D4 | 241/2 | 21 | 26 | 21/2 | 3/8 | 7/8 | 62 |

[^3]
# SUPPORT AND PEACE OF MIND 

## DID YOU KNOW YOU MAY BE ABLE TO TAKE ADVANTAGE OF STATE AND LOCAL REBATES?

Visit www.daikincomfort.com/rebates
to see if you are eligible!


## TAKE COMFORT IN OUR FINANCING OPTIONS

Financing for your Daikin home comfort system is available via EGIA.

For more details and enrollment information, visit www.egia.org/daikin or call 888-691-0387.


Add further peace of mind with our comprehensive options for extended service plans.

## Asure

Daikin understands that you expect to enjoy years of uninterrupted service from your home comfort system. By including an AsuresM Extended Service Plan you can have peace of mind knowing that in the event of an equipment failure, Daikin will pick up the cost of the repair. For only pennies a day, your can be protected from the unplanned cost of a service call and from the increasing cost of service over the life of your equipment.
» No unexpected repair bills
» Prompt service provided by an authorized Asure ${ }^{\text {SM }}$ Dealer
» All repairs performed with Daikin authorized replacement parts
» No pre-authorization required
» No out-of-pocket deductible
These benefits mean that you can count on staying cool in the summer and warm in the winter - an AFFORDABLE benefit that adds VALUE over the life of your home comfort product.

Contact your local Daikin sales representative or local contractor for more information on current extended service plans that are available to you.


## WARNINGS:

» Always use a licensed installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
» Use only those parts and accessories supplied or specified by Daikin. Ask a licensed contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts
and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
» Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.
» For any inquiries, contact your local Daikin sales office.

## ADDITIONAL INFORMATION

Before purchasing this appliance, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating that is available from your retailer.

Canadä̀

## ENERGUIDE

Seasonal Energy Efficiency Ratio (SEER) Air source heat pump

## THIS MODEL

16.0-18.0
14.0 - Uses least energy $\longrightarrow 23.5$


[^0]:    THE DAIKIN FIT IS BACKED BY A 12-YEAR PARTS LIMITED WARRANTY* AND A 12-YEAR UNIT REPLACEMENT LIMITED WARRANTY*

    * Complete warranty details available from your local dealer/contractor or at www.daikincomfort.com. To receive the 12-Year Unit Replacement Limited Warranty and 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Additional requirements for annual maintenance are required for the Unit Replacement Limited Warranty. Online registration and some of the additional requirements are not required in California or Quebec.

[^1]:    'Model specific, refer to product engineering manual for details.

[^2]:    LEARN MORE AT: www.daikincomfort.com/ products/heating-cooling/whole-house

[^3]:    The manufacturing entity reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

