

Agenda

- A little About me
- About Daikin
- Daikin Offerings
- Daikin Technology



About Me

Personal Life:

- A husband and father of two.
- Veteran (6 Years US Army)
- I love fixing things.
 - A problem without a known solution is my favorite problem.
- Currently a Colorado resident
- SDSU Graduate (BS) IDS (Information Decision Systems)



Work Experience:

- Current title: Division Sales Manager for the southwest United States at Daikin North America LLC.
 - Previously Senior Product Manager
- Waiter/Bartender, Pizza Delivery Driver
- Retail Salesperson
- Excimer Laser Engineer
- Avionics technician







About Daikin



Daikin

Parts Of Or History

Akira Yamada founds Osaka Kinzoku Kogyosho Ltd. 1924

Developed first Multi-Zone system 1973

First Inverter VRV 1990

Acquired McQuay (\$2.2 Billion) 2006

DTTP (\$500 Million) **2015**

Today Daikin is the largest HVACR Company in the world

Longevity

Innovative

Commitment

#1

1958

Developed Single-Zone system 1984

Developed first inverter air conditioner

1991

First Heat Recovery 2012

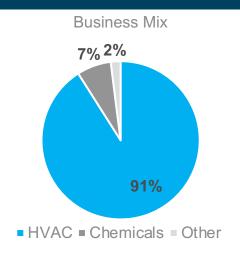
Acquired Goodman Manufacturing (\$3.7 Billion) 2016

Daikin Acquires Flanders (\$450 Million) ?



Daikin

A Little About Us







Environmental Vision 2050

We will reduce the greenhouse gas emissions generated throughout the entire life cycle of our products.

Furthermore, we will create solutions that link society and customers as we work with stakeholders to reduce greenhouse gas emissions to net zero.

Using IoT and AI, and open solutions, we will meet the world's needs for air solutions by providing safe and healthy air environments while at the same time contributing to solving global environmental problems.





https://www.daikin.com/csr/company/vision.html

Daikin Texas Technology Park - DTTP

- Located just outside of Houston, Texas
- Office interiors are LEED Gold certified
- 3rd Largest Single Level Manufacturing Facility
- 253 Docks and 700 Trailer Spaces
- Training DoJos
- R&D Labs, Marketing, Engineering, and Manufacturing all under one roof



17K+
EMPLOYEES IN NORTH AMERICA

25+
YEARS IN NORTH AMERICA

4 Million Square Feet Under One **—** Roof

TOTAL INVESTMENTS

\$7B+

DISTRIBUTION LOCATIONS

2,254

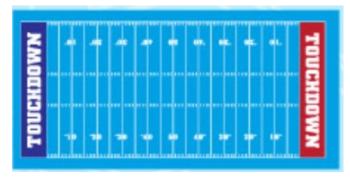
60K+

DEALERS

FY19 NORTH AMERICAN SALES

\$6B

74 Football Fields with End Zones





Daikin Core Values and Competencies

1. Absolute Credibility

2. Enterprising Management

3. Harmonious Personal Relations

Our Group Philosophy is the basis for all action aimed at becoming a corporate group that is trusted by customers worldwide, and that instills pride in Daikin employees around the globe.

Daikin's People-Centered Management, meanwhile, is based on the belief that employee growth generates corporate growth and is implemented with the goal of creating a workplace where employees can use their talents to the fullest.



Competency	Goal	Why
Inverter (Variable Capacity)	Inverterize North America	Daikin's Inverter technology provides a higher level of comfort and efficiency.
Heat Pump	Make HP technology mainstream	Take advantage of electrification and lowering our carbon footprint through decarbonization.
Refrigerant Control	Decentralize HVAC in North America	It's way more efficient to zone refrigerant than air.



Daikin Offerings



Daikin HVAC Product Lineup

Daikin carries lineup meeting all types of needs including those for energy-savings, the environment, comfort, peace-of-mind, safety, and health

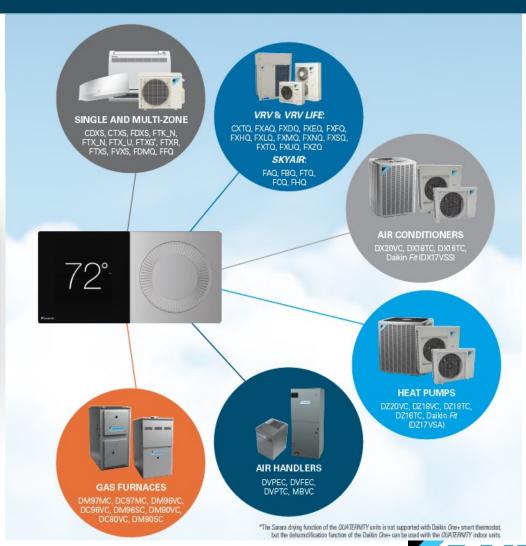




Daikin One EcoSystem

Elegant User-Friendly Thermostat

☆ ☆ 歯 ❷ ※ DAIKIN



Daikin Fit

NEW Premium Inverter Unitary Ducted System

Space-saving. Efficient. Affordable.

Daikin Fit System Features:

- Up to 18 SEER / Up to 10 HSPF (for Heat Pump)
- Inverter (variable-speed) Compressor Ideal indoor comfort and efficiency
- Low operational sound levels Reclaim outdoor space
- Quiet-mode Provides enhanced acoustical comfort
- Blue Fin Corrosion Coating Long condenser coil life and reliability
- Swing Compressor Quiet and dependable
- Side panel access Ease of service for annual maintenance
- Compact and lightweight The trunk style outdoor unit is perfect when installation space is limited

Daikin Fit Heat Pump Features:

- 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.

DAIKIN FIT AIR CONDITIONER



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





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.



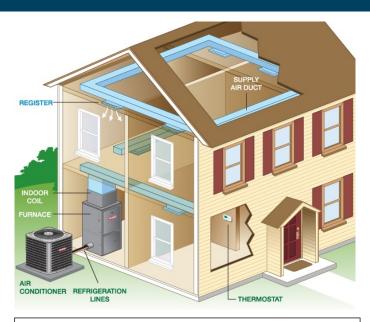


Primary Types Of Residential HVAC Systems In The Market

Central AC with gas heating

Central Heat-pump

Decentralized Heat pump



Central AC with gas heating

- Generally a single or two stage system
- Uses ductwork to distribute conditioned air
- One temperature controller for the whole house
- Gas furnace provides heat
- When its on it conditions the whole house (All lights On)



Central Heat-pump

- Generally a single or two stage system Uses ductwork to distribute conditioned air
- One temperature controller for the whole house
- Outdoor unit provides heat as primary source. Gas furnace or electric stripheat provides backup in colder conditions.
- When its on it conditions the whole house (All Lights On)



Decentralized Heat pump

- Uses variable speed inverter technology
- Very little to no ductwork
- Each room can have independent temperatures
- Outdoor unit provides heat as primary source.
- When its on it conditions each room to its independent comfort level (Lights on in the room you want them on)
- Really the best option for renewable energy



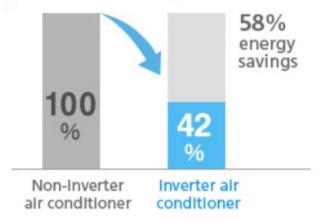
Daikin Technology



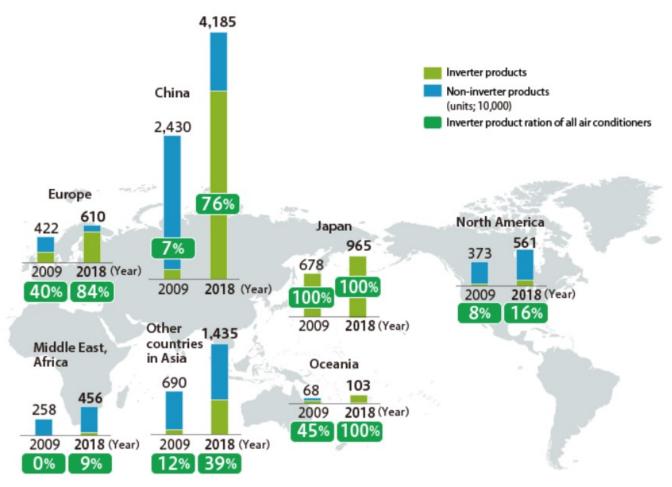
Inverter Technology (Variable Capacity)

- Can Reduce Power Consumption by Approx. 58%
- Inverters are frequency conversion devices that control electrical voltage, current, and frequency. Inverters precisely control the compressor motor, the heart of an air conditioner. Furthermore, in addition to having modified conventional motors and heat exchangers, inverter air conditioners use approximately 58% less energy than non-inverter models.

Comparison of energy consumption (Non-inverter air conditioner 100%)



Inverter Products as Percentage of All Residential Air Conditioners Worldwide (2018)





Benefits of Inverter Technology (Variable Capacity)

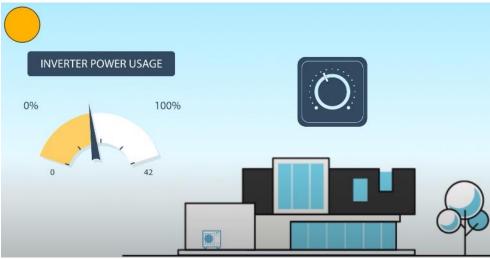
Central System Non-Inverter





Decentralized Heat pump With Inverter

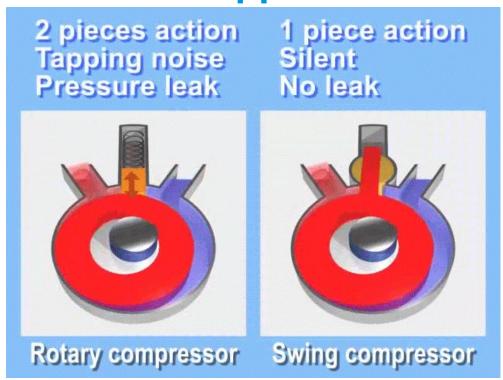




Daikin Compressor

Daikin Swing Compressor

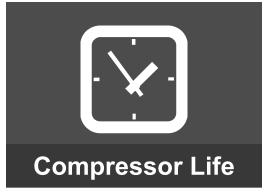
Friction and refrigerant leakage are suppressed



Improved:



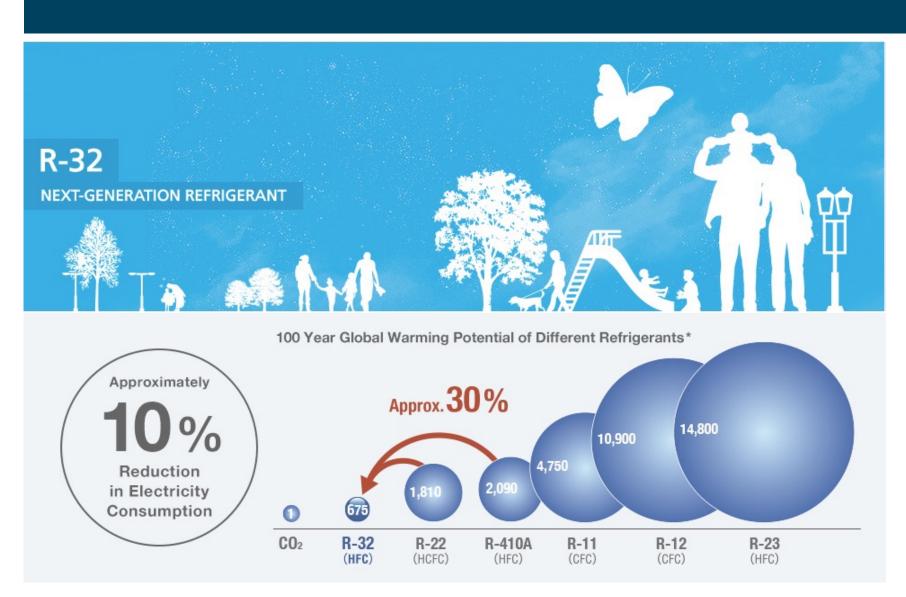








A2L Refrigerant



R-32 refrigerant may be familiar to some, as it makes up 50% of the R410A refrigerant which is widely in use in newer HVAC systems in the US.

If all machines using R410A were converted to R-32, HFC contribution to global warming would be reduced by the carbon dioxide equivalent of 800 million tons.

Daikin Offers Worldwide Free Access to Patents for Equipment Using Next-Generation Refrigerant - 2015



Questions

