

Single Room Solutions

Single-Zone Systems

Home Comfort & Light Commercial

VRF

PTAC



Art Cool™ Gallery



Art Cool™ Premier



4-Way Ceiling Cassette



High Static Ducted

ENERGY STAR® Certified
Available in a variety of indoor unit styles
Low sound levels (as low as 17dB - Art Cool™ Premier sleep mode)
Quick and easy to install
Attractive designs
Powerful performance in cooling and heating: up to 27.5 SEER and 12.5 HSPF

Multi V IV (Air Source)

Variable Refrigerant Flow (VRF)

Home Comfort & Light Commercial

VRF

PTAC



Heat pump and heat recovery systems available
Three phase power
Energy-efficient up to 38.5 IEER
Low life cycle cost / high ROI
LG central control or BMS integration
System supports 6-42 nominal tons

Multi F, Multi-Room Solutions

Multi-Zone Systems

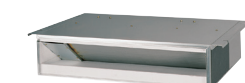
Home Comfort & Light Commercial

VRF

PTAC



Multi F MAX
Outdoor Unit



Indoor Units to match any decor

Multi F MAX supports anywhere from 2 to 8 indoor units
Dual, tri, quad, and eight zone systems available
Energy-efficient inverter operation: up to 22.0 SEER
Space-saving indoor units

Multi V Water IV

Variable Refrigerant Flow (VRF)

Home Comfort & Light Commercial

VRF

PTAC



Heat pump and heat recovery systems available
Three phase power
Energy-efficient up to 24.2 IEER
Geothermal or tower cooled
Low life cycle cost / high ROI
LG central control or BMS integration
System supports 6-48 nominal tons

PTAC

Packaged Terminal Air Conditioner

Home Comfort & Light Commercial

VRF

PTAC



Quiet operation
High energy efficiency
Advanced features include Energy saver mode and Freeze protection
Digital control display
Dip switch setting for temperature limiting
GoldFin™ anti-corrosion protection treatment for condenser coil

Multi V Space

Variable Refrigerant Flow (VRF)

Home Comfort & Light Commercial

VRF

PTAC



Heat pump system available
Single phase power
Compact design, ideal for condo/tenant finish out
Mounts on external wall, maintenance access from inside
LG central control or BMS integration
System supports up to 9 indoor units

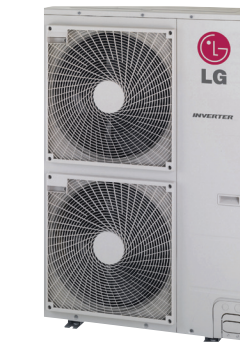
Multi V S / Water Mini

Variable Refrigerant Flow (VRF)

Home Comfort & Light Commercial

VRF

PTAC



Single phase power
Compact design, ideal for residential and light commercial
LG central control or BMS integration
System supports from 1-9 indoor units
3, 4 and 4.4 nominal tons

Multi V Indoor Units and Options

Variable Refrigerant Flow (VRF)

Home Comfort & Light Commercial

VRF

PTAC



Floor Mounted Units and Ceiling Mounted Cassettes



High Static Ducted and Vertical/Horizontal Air Handler



Dedicated Outdoor Air Unit (DOAS)



Art Cool™ Gallery



Art Cool™ Mirror



Air Handling Unit (AHU) Modules

Full range of ducted and non-ducted indoor unit styles for unrivaled design flexibility
Extend VRF technology to existing AHUs using the AHU Modules
Several air technologies options for outside air including DOAS and ERV
Ability to produce hot water by repurposing heat absorbed from the air (Hydro Kit)
Available with a wide range of LG wired, wireless, central and BMS controls
Includes the industry's only picture frame air conditioner, LG Art Cool™ Gallery

LG Air Conditioning Systems

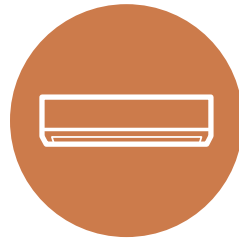
Product Portfolio

Introduction

The LG Electronics USA Air Conditioning Systems business is based in Alpharetta, GA. A 2016 ENERGY STAR® Partner of the Year, LG is committed to be a sustainable and responsible organization and offers a full selection of systems that are a ENERGY STAR® rated for 2016, with many that are ENERGY STAR® Most Efficient 2016. LG is a leading player in the global air conditioning market, manufacturing both commercial and residential air conditioners and building management solutions. From consumer and individual units to industrial and specialized air conditioning systems, LG provides a wide range of products for heating, ventilating and air conditioning. For more information, please visit www.lghvac.com.

Solutions

Home Comfort & Light Commercial



Available in two configurations:

Single Zone Systems
3/4 - 3.5 tons

Multi Zone (Multi F) Systems
Dual/Tri/Quad Zones (1.5 - 3 tons)
Multi F Max - Up to 8 Zones (4 - 5 tons)

Benefits

Fast Installation

With little to no costly ductwork, these systems can be installed in a variety of applications.

Quiet & Efficient Technology

Choose one of many ENERGY STAR® qualified systems for more energy savings while enjoying personalized comfort that operates quietly and efficiently using inverter technology that allows the system to adjust with demand.

Room by Room Control

With individual controllers for each indoor unit, these systems offer more consistent temperatures and better room by room control for personalized comfort in all zones.

Improved Air Quality

3M™ Micro protection filters reduce dust and microscopic particles including pollen, pet dander and odors and primary washable filters are anti-fungal.

Attractive Design

Make a personalized statement in any room with the exclusive LG Art Cool™ Gallery or choose from a variety of elegant looks to enhance any interior decor.

Powerful Performance Range

Select models provide powerful heating performance down to -13°F and many models come standard with low ambient cooling abilities.

VRF



A VRF System is a single refrigerant circuit with:

One Outdoor Unit (ODU)
3 to 42 tons (Air-cooled)
3 to 48 tons (Water-cooled)

Multiple Indoor Units (IDU)
5,000 to 96,000 Btu/h
Varying Ducted and Nonducted Styles
Available from 1-64 indoor units per system

Benefits

Enhanced Efficiency

Minimize Energy consumption and reduce energy losses with LG VRF systems.

Support New Construction or Renovations

Ideal for shell and core projects, minimize ductwork and reduce interstitial ceiling space requirements, lowering construction costs. Eliminate or reduce mechanical rooms and shafts to maximize usable square footage. Installation requirements are flexible and may allow for the use of existing ductwork for renovations.

Flexible Style and Design

With industry leading piping capabilities, LG VRF can adapt to a wide range of building applications. Outdoor units have smaller footprints for constrained roofs and are lighter weight to reduce costs for structural requirements. Choose from multiple indoor unit types to fit the demand and aesthetic look of each zone.

Independent Zone Control

Be comfortable everywhere – heat and cool only the zones in use and with heat recovery, heat and cool different areas simultaneously.

Sustainability

Engineered for sustainability, LG VRF provides opportunities to claim numerous LEED®EA-1 credits (location dependent).

Multi V™ IV Air-Cooled System

Energy Efficiency

38.5 IEER

Minimizes Energy Consumption
AHRI Certified Ratings

Quiet Operation

23 dB(A)

Indoor : 23 dB(A)
Quiet as a Traditional Library

LEED® Credits

Sustainability

Credit EA-1
Long-term Energy Savings

Smaller Footprint

More Capacity
Smaller Area

Ideal for Space Constrained Roofs

Only applies to certain models, please see unit specifications for details.

PTAC



Multiple capacity models available in Heat/Cool and Heat Pump

208-230V
7,500 – 15,000 Btu/h
265V
9,000 – 12,000 Btu/h

Benefits

Energy Efficient

LG PTAC models have efficiency ratings up to 13.3 EER, translating into energy savings.

Quiet Operation

The hallmark of LG's line of PTAC products is quiet operation, with indoor sound pressure levels down to 45dBA.

Gold Fin™ Anti-Corrosion Protection

Gold Fin Anti-Corrosion Protection protects the condensing coil from the corrosive effects of outside air and extends the operating life with routine maintenance. The patented process is standard on all LG PTAC models.

Warranty and Service

LG provides local warranty support and service with LG technicians throughout the United States, giving you peace of mind that your investment is protected.

Easy Installation

The 42" wide industry standard size makes installation easy and economical, whether for new construction or replacement of existing units.

Technology

School Building Energy Analysis

17% Miami, FL

56%

28% Atlanta, GA

56%

22% Chicago, IL

75%

Energy Cost Savings (%)

- LG Multi-F vs. Packaged Rooftop Heat Pump¹
- LG Multi V DOAS vs. baseline DOAS²

¹ Compared to the LEED® baseline ASHRAE Standard 90.1-2007 System 4, packaged rooftop heat pump (PSZ-HP)
Case Study – ES-AD-001-US 013B21 – Trane Trace 700 model

² Compared to the baseline DOAS; ASHRAE Standard 90.1 minimum efficiency
Case Study – WP-EnergyEfficiencyAnalysis_w_LG-DOAS-4-15 – eQuest 3.65 model

Office Building Energy Analysis

23.7% Miami, FL

60%

29.1% Houston, TX

54%

28.5% Atlanta, GA

54%

29.2% New York, NY

55%

36% Chicago, IL

41%

Energy Cost Savings (%)

- Low Rise Office Building Multi V IV Heat Recovery vs. Packaged Rooftop Heat Pump¹
- Multi-Story Research Office Building LG Multi V Water IV Heat Recovery vs. Packaged VAC with Reheat³

¹ Compared to the LEED® baseline ASHRAE Standard 90.1-2007 System 4, packaged rooftop heat pump (PSZ-HP)
Case Study – VRF-WP-EL-001-US 013L13 – Carrier HAP model

³ Compared to the LEED® baseline, ASHRAE STD 90.1 Sys 5: Packaged VAV with Reheat
Case Study – ES-MultiVWaterIV_EnergyAnalysis-08-14 – EnergyPro5.1

Markets / Application for LG HVAC Solutions

Hospitality - Hotels, Motels, Resorts

Retail - Stores, Shopping Centers

Office - Office Spaces

Education - K12, Universities, Dormitories

Health Care - Nursing Homes, Doctor's Office

Multi-family - Apartments, Condos, Assisted Living

Remote / Trouble Areas

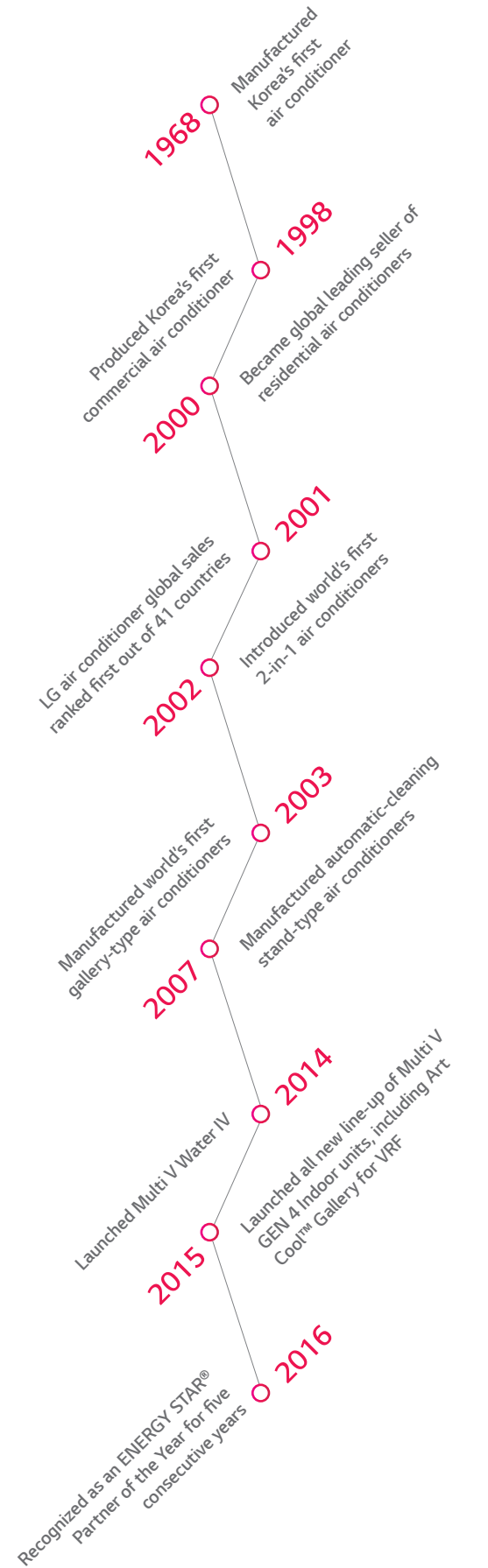
Data Server Room, 24 hrs operation

Business Centers, Fitness Areas

Mechanical / Elevator Equipment Rooms

Equipment details contained in the referenced whitepaper.

Innovation



Due to our policy of innovation, some specifications may be changed without notification.
LG Air Conditioning Systems products are certified by AHRI to AHRI Standard 210/240

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