



LG AE Europe

REFERENCE SITE CATALOGUE



LG

RESIDENTIAL BUILDINGS & HOTEL

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HISTORY OF LG ELECTRONICS

LG AE VISION

LG Air Conditioning & Energy solutions Company is one of the four different business entities in LG Electronics. Using its experience and knowledge through the years in the HVAC industry, LG has demonstrated its commitment to provide its customers with close and valuable support, advice, solutions and services. LG AE is building the foundations of a durable trustworthy relationship with its customers, to become a top leading HVAC and Energy Solution company in the AE market throughout Europe. LG AE promises to "Vitalize you and your environment." Using market-leading, state-of-the-art technologies, LG AE is committed to invigorate its consumers' lives by enriching their living environment. Our residential and commercial air-conditioning and heating flagship products have made LG a world leader in a number of markets, and our new businesses in solar energy and lighting solutions will also have a global impact. We are now positioned to become the "No.1 HVAC and Energy Solutions Company." To ensure the success of this vision, we will continue our steadfast efforts to design comfortable environments for our end users and business partners using state-of-the-art green technologies. LG AE is really proud to present you its success stories around Europe through this catalogue, divided in various applications such as residential buildings & hotels, healthcare & educational facilities; retail & commercial buildings, offices and public facilities. Please do not hesitate to contact your subsidiary for more details about any specific project.

BRIEF HISTORY

ESTABLISHMENT

- 1947** The LG Group was founded
- 1958** LG Electronics Inc was founded

GROWTH

- 1968** Manufactured Korea's first air conditioner
- 1985** Introduced Korea's first inverter air conditioner
- 1990** Produced rotary compressor
- 1995** Changed company name to LG Electronics
Produced scroll compressor
- 1998** Produced Korea's first commercial air conditioner
- 2000** Became world's number one seller of residential air conditioners
Developed solution for the world's first Internet-enabled refrigerator
- 2001** Introduced the world's first picture frame
- 2002** Launched the LG HomNet brand of Integrated home networking solutions
- 2004** Achieved world's highest annual sales in air conditioners with 10 million units
- 2008** Reached total global sales of 100 million air conditioners for the first time in the industry
- 2009** Split off into independent business units as part of LG Electronics' reorganization
- 2010** To create B2B-focused business structure, reorganized into five units: residential air conditioning, commercial air conditioning, solution, solar energy and lighting





JAGERSHORST
GOLDEN TULIP HOTEL****
LEENDE | NETHERLANDS

8

BLUE LAGOON VILLAGE
HOTEL*****
KOS ISLAND | GREECE

10

PARCUL PRIVIGHETORILOR
RESIDENCE
BUCHAREST | ROMANIA

12

HOTEL OPERA GARDEN****
BUDAPEST | HUNGARY

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ESTALAGEM DOS ZIMBROS
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JAGERSHORST GOLDEN TULIP HOTEL ****

LEENDE | NETHERLANDS




This luxurious four-star hotel opened its doors in August 2007 and is situated in the Leenderbos, in rural surroundings with areas of great natural beauty such as De Kempen as well as archaeological sites of interest and other monuments. This new hotel is the perfect place for a weekend getaway, a longer holiday or a business trip.

The hotel has 88 luxurious rooms and suites available as well as an indoor swimming pool, sauna, fitness area, beauty salon and outdoor terraces. Various well-equipped meeting halls are available for conferences and celebrations. The customer needed a comfortable cooling and heating system for both the rooms and the other areas, and was looking for an energy saving system in order to reduce energy costs. LG suggested its Multi V Heat Recovery, as it provides simultaneous heating and cooling with one outdoor unit. The hotel environment is ensured to benefit from optimum conditions regardless of season or space. Multi V Heat Recovery ensures the comfort of all customers and is the best solution for any type of hotel. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V Sync II	Low static duct, Ceiling suspended, High Static duct, EcoV	AC Manager

**BENEFITS
FOR END USERS**

Energy saving
Identification with LG's green
image
Easy control of the whole building
with the AC manager
Low noise level in the rooms

**BENEFITS
FOR INSTALLERS**

High capacity
EIA funding opportunities



BLUE LAGOON VILLAGE HOTEL*****


KOS ISLAND | GREECE



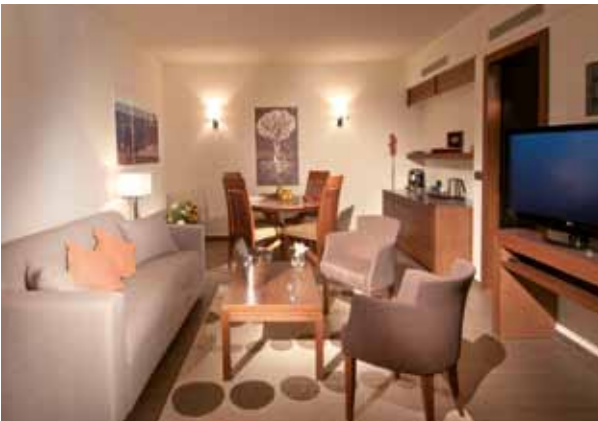
The Blue Lagoon Village is a newly built luxurious complex with 370 guest rooms of luxury village style construction, most rooms with a sea view. The 110,000 sq m hotel and garden is at a stone's throw distance from the sandy beach.

The hotel is located only 10 km away from the centre of Kefalos Town, 5 km away from the airport and 30 km away from Kos town, the capital of the island. Blue Lagoon Village hotel is ideal for families, couples and incentive groups, offering a comfortable and noiseless relaxation experience for adults and a safe playing area for children. There are 5 outdoor pools, a Jacuzzi and a sauna in the hotel. The project was very large, which made central control and management highly complex. The customer was rather concerned about new AC central management, low energy consumption products and high efficiency VRF systems. The system installed by LG consists of duct systems in the rooms with centralised ACP control system and AC manager. ●

INSTALLED SYSTEMS		
OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
122 x Multi V II	730 x Duct	ACP & AC Manager

**BENEFITS FOR END USERS**
High quality units

**BENEFITS FOR INSTALLERS**
Full technical support



PARCUL PRIVIGHETORILOR RESIDENCE

BUCHAREST | ROMANIA



Nightingale Park is located up North, in a very well known area for the most dynamic real estate development in Romania. The project area amounts to 4,685 sq m and includes 118 luxury apartments. Nearby you can find the biggest trade centre in Romania, Feeria Park, housing many shopping places.

The Nightingale Park is the result of a fusion between traditional and modern architectural concept. The customer was looking for a reliable and flexible cooling solution. The parking space and green space outside could not be used for the outdoor units while the facade design could not be altered either; thus LG used as little space as possible on terraces for outdoors units. The technical solution provided by LG consists of Multi Split systems with wall mounted indoors. LG Air conditioners are not only designed cooling and heating; our wall mounted stylish ARTCOOL indoors are well known for their innovative design that enriches any home interior. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
118 x Multi Split	312 x Wall Mounted	

BENEFITS FOR END USERS

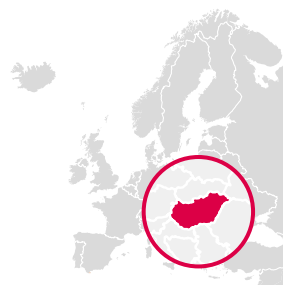
DC Inverter driven multi systems with low energy consumption
Stylish indoor units
Completely hidden pipework
Low outdoor/indoor noise level

BENEFITS FOR INSTALLERS

Easy installation for outdoor units
Easy service access for troubleshooting and maintenance
Long available piping

HOTEL OPERA GARDEN****

BUDAPEST | HUNGARY



The Opera Garden hotel is located in the centre of Budapest. The building was an old apartment house, and after a complete indoor and outdoor reconstruction the investor worked out a very nice 4 star hotel of 40 rooms for a total of 2,000 sq m.

The outside of the building and the inside court kept the original archite design, contrarily to the rooms inside which are now modern and stylized. Though different, the inside and the outside of the building remain in harmony with each other. The investor was after an energy efficient heating and cooling solution as well as a reliable product. The indoor units design also represented a heavy constraint. The LG system that was suggested and which fitted this project perfectly was the Multi V Heat Pump, and the Multi V Heat Recovery. For indoor units in the hotel bedrooms, LG proposed its Artcool Gallery and Artcool Mirror. LG creates design-conscious indoor units that compliment any interior decoration. LG has also innovatively improved air flow in order to provide the most silent systems in the world, as well as a more pleasant and convenient indoor environment. ●

INSTALLED SYSTEMS

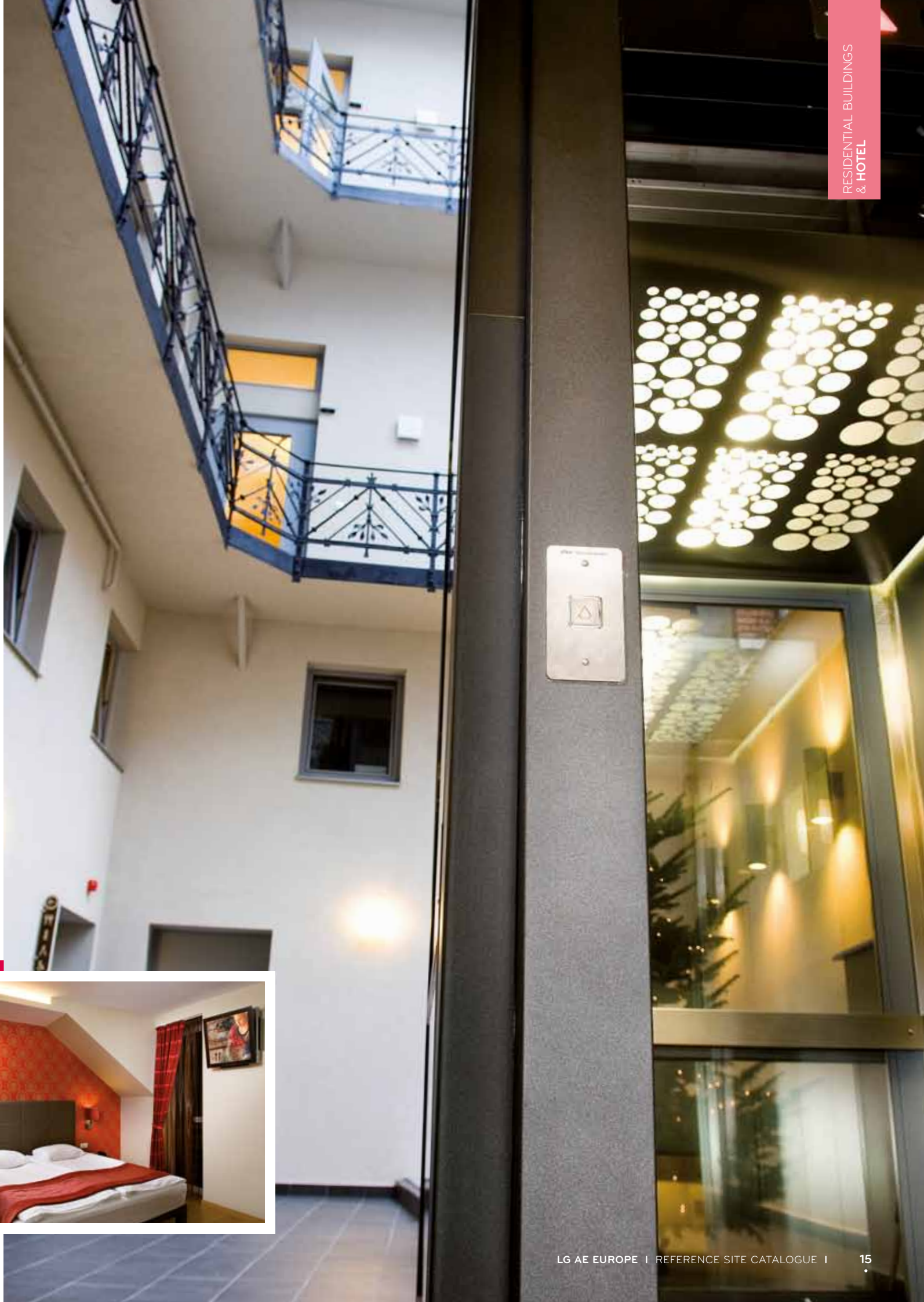
OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
7: Multi V Plus II & Multi V Sync II 204 kW	21 x Artcool Mirror, 42 x Artcool Gallery, 6 x Floor Standing, 3 x AHU Kit	Connected to external BMS

BENEFITS FOR END USERS

Stylish design

BENEFITS FOR INSTALLERS

Easy installation



ESTALAGEM DOS ZIMBROS HOTEL****

SESIMBRA | PORTUGAL




This four star Hotel is located near “Cabo Espichel” and benefits from a breathtaking natural environment. It was built inside a beautiful garden and is surrounded by the luxurious landscape of Sesimbra. Complete with an outdoor pool and a large terrace with an incredible view on the Atlantic Ocean, this Hotel is only a 20-minute drive away from the Arrábida Natural Park (PNA) which enjoys recognition by the UNESCO World Heritage.

With two suites, 35 rooms and a total of 76 beds, it is decorated in a modern and elegant style and the rooms all open onto private balconies, providing customers with peace and intimacy to enjoy the surrounding natural environment. All rooms are equipped with LG LCDs. This hotel features the AC Smart LG advanced central controller allowing for remote management of all the units from the hotel Director's office. Dry contacts were also installed in all the rooms for on/off key holders. LG supported all AC Smart configurations and training for easy unit identification, monitoring and control. During this project, LG provided all the necessary support from start to finish to ensure end-user satisfaction. ●



INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V Plus II 115 kW	47: Low static ducts, Wall mounted, 4 x Way-Cassettes	

**BENEFITS FOR END USERS**

Easy to manage network thanks to the integrated AC Smart control

**BENEFITS FOR INSTALLERS**

Easy installation, piping length and product performance

RAC ANTWERPEN


ANTWERPEN | BELGIUM



The matter was a simple one: the owner of the house had a beautiful place with a stunning interior design. He was looking for an air-conditioning that would fit his style and personality. When the customer saw the indoor unit in an Artcool shop in Breda for the first time, he was blown away.

The owner wanted to give the indoor units a special personal touch, so LG made the coat of arms for him. Actually, the LG Artcool system certainly beautified his place whilst providing him with powerful cooling at the same time. This product is known in the air-conditioning market as world-recognized refined designs. LG can provide solutions to owners and tenants that achieve a comfortable indoor climate, suit the decoration of the home well and are energy efficient, 3 essential requirements of a residential building. With LG's revolutionary customizable Artcool frame, you can simply change the look of your air conditioner to what you want, whenever you like it. The customer can now enjoy a cool breeze from his own personal AC system picture frame. Artcool series with outstanding designs have received the International Forum Design Award, the Reddot Design Award and G Mark. ●

INSTALLED SYSTEMS		
OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
1 x Multi	4 x Artcool Galleries	With a deluxe controller

**BENEFITS FOR END USERS**

State of the art look that was in line with the personal taste of the owner.
Low noise level of the unit.

**BENEFITS FOR INSTALLERS**

Easy installation





CLINICA RADELFE
PACOS DE FERREIRA | PORTUGAL

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ESKULAP CLINIC
ESKULAP | POLAND

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CAMPUS TOR VERGATA
ROMA | ITALY

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SWISSMED HOSPITAL
WARSAW | POLAND

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CLINICA RADELFE

PACOS DE FERREIRA | PORTUGAL




Paços de Ferreira is a young city under transformation. Over the last years, the once rural town consisting of small patches of land and granitic houses has slowly turned into a modern city. The Clinic established in 1982 constituted a challenging new project to provide the North region with one of the biggest Healthcare Facilities. This new Clinic is a revolution in the health sector, fully or partially answering local needs.

This modern unit comprises a basement and 6 floors over a total area of 10,500 sq m, also housing an outpatient department and an operating block besides all the medical specialisations. LG's AC offers comfort through all office rooms, bedrooms, waiting areas, corridors, laboratories and physiotherapy areas. The network control was possible with Deluxe control, one switch and 2 LG Gateways. The control network was integrated into the building network to allow for remote access. The support provided by LG during the project, system installation, later on during the exploration phase and all through maintenance activities conducted with the installer to provide the customer with the best comfort, was considerable. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V Plus 700 kW	174: Concealed duct, cassette, Mural, EcoV	Connected to external BMS

**BENEFITS FOR END USERS**

Easy to manage network due to the integration of Delux control into the building network. Multi V works well and answers to different building loads offering customer comfort

**BENEFITS FOR INSTALLERS**

Easy installation, products performance. LG's support was available at all times to overcome all the customer's requests during the project



ESKULAP CLINIC

ESKULAP | POLAND



ESKULAP is a new and very modern cardiologic clinic located in Bydgoszcz, in central Poland. This privately owned cardiologic clinic is located in a new 4-floor building. ESKULAP Clinic represents a significant progress in the area of health services in answering local needs.

The owner of the building was highly interested in modern, high-efficiency systems. He therefore changed from a water-borne system to our MultiV III in order to achieve significant savings on electricity consumption. The LG's MultiV III system offers cooling comfort through all office rooms, bedrooms, waiting areas, corridors, laboratories and physiotherapy areas. Other areas (operating rooms) were equipped with 13 AHU's with the MultiV system as a cooling source. The MultiV III control network was integrated into the BMS system by Lon Works gates to optimize energy efficiency and allow the remote access to all parts of the system. LG provided a significant support during this project, from system installation to startup. ●

INSTALLED SYSTEMS		
OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
6 x Multi V III 428 kW	53 x 4 Way-Cassettes	Connected to external BMS

BENEFITS FOR END USERS	BENEFITS FOR INSTALLERS
Low cost of energy and lower cost of the electricity connection to the building	Easy installation



CAMPUS TOR VERGATA

ROMA | ITALY



Tor Vergata Campus fits into the pre-existing academic and student environment, providing new spaces and momentum to expand activities, as it provides support through infrastructures, cooperation and visibility. Many areas suitable for studying make Campus the perfect place for students looking for the right environment to get the most out of their experience at university.

Tor Vergata Campus comprises a wide and modern residential district for students, close to all Tor Vergata University departments, featuring single and double apartments with all the necessary comforts and services. The University wanted to have a cooling and heating system installed in their building. They needed a control solution with BMS based on ACP and AC Manager, which meant that LG had to focus on determining the maximum power consumption inside the rooms with PDI. The technical solution that was finally provided by LG lies in the flexible installation of the single indoor units. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V plus II 3500 kW	Cassettes, ceiling suspended 1600 ID; 2,2/2,8/3,6/4,5 kW	8 ACP + AC Manager

BENEFITS FOR END USERS

Comfort, easy control, low operational noise level in sleep mode

BENEFITS FOR INSTALLERS

Easy installation with corner detachable decoration panel, piping length

SWISSMED HOSPITAL

WARSAW | POLAND



Swissmed Hospital is a new 45-bed, 4,404 sq m multidisciplinary hospital open to every patient. Swissmed Hospital is a polish-swiss company that offers high-quality medical services. This is the second medical facility of the company in Poland, located in Warsaw.

The customer required LG to deal with the cooling and heating of the hospital using VRF systems. It is the first hospital in Poland to be equipped with air conditioning units from LG. In order to comply with the polish law, written authorization from the National Institute of Health allowing the use of equipment working in recirculation in patients' rooms was required and obtained. The air conditioning systems were selected so that the maximum concentration of refrigerant in the smallest room does not exceed 0.44 kg/m3 volume. LG provided Swissmed hospital with a high quality installation of air conditioning systems based on 4 x Way-Cassettes, ducts and wall mounted indoor units. ●

INSTALLED SYSTEMS		
OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
8 x Multi V III 282 kW	(Total 75) Wall Mounted, ducts, 4 x Way-Cassettes	

BENEFITS FOR END USERS

Low cost of energy

BENEFITS FOR INSTALLERS

Easy installation





NAC STADION

BREDA | NETHERLANDS

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CASHPOINT

VIENNA | AUSTRIA

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**PUNTO COM
SHOPPING CENTRE**

CAMPODIPIETRA | ITALY

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CEC BANK

GALATI | ROMANIA

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SOCAR GAS STATION

BOTOSANI | ROMANIA

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NAC STADION

BREDA | NETHERLANDS



RETAIL & COMMERCIAL BUILDINGS

NAC Breda, known as NAC, is a Dutch professional football club, based in Breda, Netherlands. NAC won one national title in 1921 and won one Cup in 1973. NAC was founded on September 19th, 1912, when the two clubs, ADVENDO and NOAD, merged into one.

The matter arose from the business club of NAC Breda. In the VIP room after the game, the temperature was rising, so Air Group installed air-conditioning in this room in 2008. After this project, the NAC members were so satisfied with their system that in 2009, Air Group went back to install air conditioning in the players' area and in the restaurant which is also in the stadium. The installed system was the Multi V Heat Pump and the Multi V Heat Recovery. The MULTI V Inverter system offers one of the world's largest capacity units, essential for high-rise buildings together with high energy efficiency. The LG system will ensure the highest level of customer satisfaction. Now every visitor can enjoy a cold drink in a nice temperature, in air-conditioned rooms at an optimized energy cost. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V Plus II & Multi V Sync II 120 kW	High static ducts, 4 x Way-Cassettes	

BENEFITS FOR END USERS

Energy saving
Identification with LG's green image
Ability to cool and/or heat at the same time

BENEFITS FOR INSTALLERS

High capacity
Individual control for each room



CASHPOINT

VIENNA | AUSTRIA



Cashpoint was founded in 1996 and has since earned the right to be referred to as one of the leading providers in the sports betting and entertainment industries. Betting shops, terminals and an online platform provide extensive market coverage for a broad target group.

The customer wanted an all year round efficient heating and cooling system. The technical solution provided by LG is the highly efficient H Inverter system. The installer who won the project is committed to LG and the quality of their systems. He therefore suggested LG to Cashpoint. LG has since furnished several branches of Cashpoint betting shops across Austria. The systems are highly efficient and perfectly fit for the modern architecture of the shops. The USP of the cassette type is that the exhaust openings are individually adjustable and so contribute to a better atmospheric environment. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
35 x single split H inverter & 1 x Multi Split	34 x Cassettes 3 x High static ducts	



BENEFITS FOR END USERS

The individually adjustable exhaust openings contribute to a better atmospheric environment



BENEFITS FOR INSTALLERS

Easy and fast installation



PUNTO COM SHOPPING CENTRE

CAMPODIPIETRA | ITALY



The PUNTO COM shopping and fitness centre is located about 3 km away from the urban centre of the city, in the municipality of Campodipietra near Campobasso. The structure is characterized by 4 floors. The lower floors are used mainly for sports activities, recreational and commercial activities. The top floor is used mainly as parking space. This floor also houses the offices .

The customer needed a heat pump system that would meet different needs to ensure comfort for the various users of the structure. Because they are used differently, each floor has its own independent air conditioning system. The outdoor units were gathered around the riser hole on the roof to minimize the development of a distribution line. Different needs were therefore met by LG with a system of heat pumps and heat recovery ventilation for the renewal of the primary managed by a centralized control. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
MultiV Plus II 700 kW	78 x Cassettes, ducts, ceiling suspended, EcoV	AC smart II



BENEFITS FOR END USERS

Easy control, product performance



BENEFITS FOR INSTALLERS

Easy installation





CEC Bank is a competitive universal commercial bank with the ability to offer diverse and high-quality banking products and services to its clientele, focusing mainly on financing SMEs, agriculture, public administration, as well as those banking projects that, through their nature, contribute to the economic development, generate new jobs and provide better job security.

CEC bank has the biggest national coverage between all financial players in the market with over 1000 outlets. CEC Bank decided to renovate and rebrand all their bank offices, following their new branding philosophy. They discussed the matter with LG and the main objective for LG was to redesign HVAC equipment for each outlet customizing by size, needs and location. Here under there are two examples of the installation of the outlets of CEC Bank. Multi V Heat Pump was chosen to serve bank offices, because of the latest technology and features deployed by LG outdoor units. 4 x Way-Cassettes, wall mounted, and high static duct were selected for the indoor units of each branch. The 4 x Way-Cassettes was chosen as its installation does not require any room space. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V Plus II 110 kW	22: 4 Way- Cassettes, wall mounted, High static duct	



BENEFITS FOR END USERS

Latest technology providing intelligent climate control
Wide range of indoor types to fit into each concept
High reliability in cooling and heating



BENEFITS FOR INSTALLERS

Easy to design and wide operation zone
Intuitive installation procedures and smart software cross checking solution
Commissioning support from local LG subsidiary



SOCAR GAS STATION

BOTOSANI | ROMANIA



The State Oil Company of Azerbaijan Republic (SOCAR) is the state-owned oil and natural gas corporation of Azerbaijan. It is considered to be one of the largest oil companies in the world, having well known oil networks as their clients. SOCAR ranks 68th among the largest companies in the world and is worth \$20 billion. Today the company owns gas stations in Azerbaijan, Georgia, Ukraine and Romania.

SOCAR has over 14 gas stations in North Romania. The gas stations are located in the northeast of Romania near the border with the Republic of Moldova. The main objective of this project was to provide cooling and heating for all the gas stations especially for indoor open space (shop, cafeteria, offices) and LG was chosen to supply its AC equipment. An essential aspect required by SOCAR was equipment reliability because gas stations are open 24 hours/day all year round and have no alternative heating source. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
MultiV III, MultiV Mini	4 x Way-Cassettes, Ducts, Wall mounted	

BENEFITS FOR END USERS

Break dependency on natural gas or GPL for heating
High quality environment for visiting customers

BENEFITS FOR INSTALLERS

2011 technology in a high tech package
Easy installation even in the most unfriendly weather and environment
Short time needed for installation



BAUER ENERGY

KRISTIANSAND | NORWAY

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RIVAS FUTURA

MADRID | SPAIN

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HANKOOK DORMITORY

RACALMAS | HUNGARY

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JTI LAS PALMAS

LAS PALMAS | CANARY ISLAND | SPAIN

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AMADA TECHNICAL CENTRE

PONTENURE | ITALY

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JET OIL HEAD OFFICE

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JEFATURA POLICIA

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BAUER ENERGY


KRISTIANSAND | NORWAY

The building is a new warehouse with offices located in Kristiansand, Norway. The total size of the building is 2,500 sq m, and the total area heated by LG is 1,100 sq m. The Outdoor units had to be placed on the roof of the building.


The customer needed a complete heating and cooling system to be fitted and LG suggested an efficient combination of solutions to Bauer Energy, which consisted of the Multi V Heat Recovery and Air to Water Heat Pump products. The Multi V Heat Recovery was chosen due to the need to heat some parts of the building at the same time as other parts of the building needed cooling. The system has worked perfectly even when the temperatures went below - 20° Celsius. The Air to Water Heat Pump has been used as floor heating on the first floor of 500 sq m, and there again, the system has been flawless since it was mounted. Both products controlled with AC Smart were a perfect solution for Bauer Energy. In one year, the building only used a total of 199,461 kWh, which is extremely good for Norway and gives this building a very good environmental grade. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V II Sync 80 kW ThermaV 16 kW	43: Ceiling cassettes + one EcoV	AC smart II

**BENEFITS FOR END USERS**

AC Smart II with web schedule and power statistic functions

**BENEFITS FOR INSTALLERS**

Easy installation



RIVAS FUTURA

MADRID | SPAIN



The project is located in Rivas, 17 km away from Madrid. It is a new office development of 45,000 sq m, in a prime position just opposite Chapman Taylor's Rivas Futura shopping and leisure park. The eco-friendly offices are situated around a central square softened with sparkling water features and trees which compliment the dynamic forms of the architecture.

The offices were air conditioned with LG concealed duct product. Multi V Heat Recovery was chosen to provide a simultaneous heating and cooling mode. Power Distribution Indicator (PDI) was used to measure independent power consumption. The business owner needed a PDI in order to rent the offices to different companies. It was important to provide a reliable and user-friendly Control Management system and the ACP controller was therefore chosen. Besides, the use of ACP allows the user to control the units remotely through web access. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
162 x Multi V Sync 4530 kW	1022 x Ducts	6 ACP + AC Manager + PDI

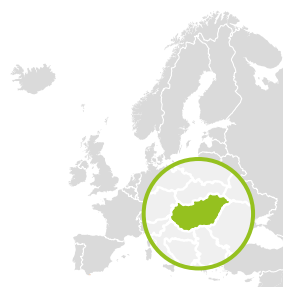
 **BENEFITS
FOR END USERS**
Control management, price, comfort

 **BENEFITS
FOR INSTALLERS**
Easy installation



HANKOOK DORMITORY

RACALMAS | HUNGARY



The Korean Hankook Tyre manufacturer built its first Hungarian factory in Dunaújváros in 2007 near Budapest, where the required cooling system was provided by LG. Besides the factory, the facility was extended to comprise a dormitory called “Hankook Haus” in 2011.

The aim of the investors was to satisfy their employees, providing them with a comfortable solution to their daily commute between work and home. The new building has over 250 rooms available. An energy-efficient heating and cooling solution was essential since the dynamic and modern style of this building resembles that of a hotel.

In order to meet the design and compliance requirements, the rooms were fitted with ducted indoor units, while the common areas were equipped with 4 x Way-Cassettes and wall-mounted type indoor units. The dormitory has ACP, AC Manager Central Control System, controlling all the 364 indoor units. In order to comply with design requirements, the outdoor units were carefully hidden on the roof. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V III 1000 kW	364: Low Static Ducts, 4 x Way-Cassettes, Wall Mounted	ACP + AC manager

BENEFITS FOR END USERS

Sound level, easy control, energy efficiency

BENEFITS FOR INSTALLERS

Easy installation



JTI LAS PALMAS

LAS PALMAS | CANARY ISLAND | SPAIN



The reference site is the office of JTI (Japan Tobacco International) in Las Palmas in the Canary Islands. JTI is an import company of tobacco brands and their offices are located in one of the two towers that form the large shopping centre called Centro Commercial Las Ramblas. They cover about 2,500 sq m and are split over two floors.

The consultant wanted a high efficiency air conditioning system that could be connected to the existing water loop of the shopping centre. They also needed a system to control humidity because of their location so near the sea, and they therefore chose to install Eco-V systems. Finally, their main concern was to dispose of centralised air conditioning management which is why they also chose AC Smart II. The complete HVAC system is managed by means of an AC Smart touch display control equipment, which is also intended to manage and reduce the total energy consumption of the system. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
8 x Multi V Water 224 kW	60 x High Static Ducts + EcoV	AC Smart II

BENEFITS FOR END USERS

High efficiency system, less power consumption
Minimum space location Multi V Water
Easy control management

BENEFITS FOR INSTALLERS

Easy installation



AMADA TECHNICAL CENTRE

PONTENURE | ITALY



The Japanese multinational Amada, a market leader in the production, marketing and installation of machinery for sheet metal work, chose the area near Piacenza for its new Italian headquarters. The office building is characterized by a gross floor area of 5,400 sq m. The showroom and a warehouse are located near the office".

The design is based on a now well established solution which consists in providing traditional systems for the management of common areas and areas of greater difficulty in controlling humidity, and the VRF system for office areas, where compliance with thermal parameters prevails over hygrometric ones. The response speed of the Multi V product is the most appropriate solution to rationalize the energy consumption induced by the heating and cooling of those areas. These solutions were chosen to meet Amada's expectations which are energy saving and environmental protection: a genuine corporate philosophy. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
Multi V Plus & Multi V Plus II: 700 kW	172: 4 Way-Celling cassettes, 11: High Static Ducts	AC smart II



BENEFITS FOR END USERS

Reliability and maintenance over time of the investment; management flexibility; low operating costs and energy consumption; low-noise equipment.



BENEFITS FOR INSTALLERS

Product performance, reduced installation time





JET OIL HEAD OFFICE

KIFISSIA | GREECE



JETOIL is a purely Greek family business founded in the late 60's, for the storage, distribution and marketing of petroleum products in Greece and the Balkans. Today the company is one of the largest oil companies in the Greek market with a network of about 600 gas stations. Its head office recently moved to a new office area of 7,500 sq m in Kifissia, a northern suburb of Athens, a modern & high standard building equipped with on-the-edge technological systems.

The installed system consists in heat pumps with variable refrigerant flow (VRF), the LG Multi V Heat Pump product. The complete air conditioning and ventilation solution by LG ensures a high level of comfort in office premises, while achieving maximum energy savings. Moreover, LG provided an integrated BMS system (Building Management System) for this project. This system provides the ability to monitor and control the operation of air conditioning units in real time and provides a variety of control options such as adjustable air conditioning and programming depending on the needs and the office hours of the corporation, synchronization with the ventilation of rooms or even the shutdown of the system if necessary. ●

INSTALLED SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
26 x Multi VII	136: Cassettes & Ducts	Gateway BNU-BN (BACNET)

 **BENEFITS FOR END USERS**
High quality units

 **BENEFITS FOR INSTALLERS**
Full technical support



JEFATURA POLICIA

SEVILLA | SPAIN



The reference site is the police headquarters of all southern Spain located in Sevilla, Andalucia, also known as Jefatura provincial de Sevilla. This is consequently the biggest police station in the area and covers a surface of 8,000 sq m. The end-user is the national police who belong to the central government.

The customer, the Jefatura provincial de Sevilla, decided to replace its old air conditioning system by a more efficient one and chose to implement the LG Multi V Heat Pump. With the Multi V III system, the energy consumption of the newly installed equipments is 50% less than the previous system. The building has an air handling unit, which is controlled by LG's AHU Communication and EEV Kits in order to reduce the energy consumption. The management of the total HVAC system is done by means of touch display control equipment called AC Smart, also intended to manage and reduce the total energy consumption of the system. ●

INSTALLED SYSTEMS		
OUTDOOR UNIT	INDOOR UNIT	CONTROLLER
26 x MultiV Plus 1014 kW	167: 1 Way-Cassette & Ducts	1 AC Smart II + Expansion Kit

BENEFITS FOR END USERS	BENEFITS FOR INSTALLERS
AHU included in control, easy control	Easy installation, product performance



LG AE EU CONTACTS

LG ELECTRONICS AUSTRIA-LGEAG

Office Campus Gasometer
Guglgasse 15/4A
1110 Vienna, Austria
<http://www.lg.com/at>

LG ELECTRONICS CZECH-REPUBLIC-LGECZ

Zlatý Anděl - Nádražní 23/344,
Praha 5, 151 34
Česká republika
www.lg.cz

LG ELECTRONICS FRANCE-LGEFS

Paris Nord II
117 avenue des Nations
BP 59372 Villepinte
94942 Roissy CDG cedex
www.lge.com/fr

LG ELECTRONICS GERMANY-LGEDG

Jakob Kaiser Strasse
D - 47877 Willich
www.lge.de

LG ELECTRONICS GREECE-LGEHS

1 Ethnarhou Makariou Str.
Delta Paleo Faliro
P.O. Box 77331
GR17501 Paleo Faliro
www.lg.com/gr

LG ELECTRONICS HUNGARY-LGEMK

H-1097 Budapest,
Könyves Kálmán krt. 3/a
Hungary
<http://hu.lge.com>

LG ELECTRONICS ITALY-LGEIS

Via Dell'Unione Europea, 6
20097 San Donato
Milanese (MI)
www.lg.com/it

LG ELECTRONICS THE NETHERLANDS-LGE BN

Krijgsman 1
1186 DM Amstelveen
www.lge.nl

LG ELECTRONICS POLAND-LGEPL

Al. Jerozolimskie 162 A
Passat Building 02-342
Warsaw, Poland
<http://www.lg.com/pl>

LG ELECTRONICS PORTUGAL-LGEPT

Quinta da Fonte -
Edificio D. Amélia
Rua Victor Câmara 2 Piso 2
2770 - 229 Paço de Arcos
<http://www.lg.com/pt>

LG ELECTRONICS ROMANIA-LGERO

Fabian business center
5th floor 17-21 Bucuresti-ploiesti
1 district
Bucharest, ro
www.lge.ro

LG ELECTRONICS SPAIN-LGEES

C/ Chile, 1
28290 Las Rozas - Madrid
<http://es.lge.com>

LG ELECTRONICS NORDIC AB-LGESW

Box 83, SE-164 94 KISTA
Esbogatan 18, Akalla
www.lg.com

LG ELECTRONICS UNITED-KINGDOM-LGEUK

250 Bath Road
Slough, Berkshire SL1 4DX
www.lge.co.uk

You can find all LG Air Conditioning & Energy solutions on <http://eu.lgeaircon.com>



LG Electronics
AE EU Business Division

Paris Nord II - 117 avenue des Nations
B.P59372 Villepinte - 95942 Roissy CDG Cedex

<http://eu.lgeaircon.com>

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