

e-Lite

VRF Commercial Air Conditioners



 **8 - 270 kW**
 **3 - 96 HP**



The units >100kW are not covered by the ECC certification

- # The Energy Management System (EMS) allows a perfect adjustment of the evaporating and condensing temperatures for **maximised comfort and energy efficiency**.
- # The integration of cutting-edge technologies guarantees the units' optimal performance even under the harshest climates and environments, thus ensuring the installation's **robustness** in the long run.
- # Available in wall mounted, four-way cassette or floor standing configurations, the e-Lite indoor units **perfectly suit many applications** from office buildings to retail environments of all sizes.
- # Every indoor unit contains smart features to provide **optimal comfort** and increase **efficiency**.

PRECISION COOLING

- # 40% to 100% cooling capacity modulation thanks to inverter compressors.

STEADY PERFORMANCE

- # The automatic refrigerant detection prevents fluctuations and ensures a constant level within the unit.

TOP PROTECTION

- # The innovatively designed auto snow-blowing & dust-clean functions prevent the accumulation of snow and dust on the outdoor unit.

REDUCED ENERGY CONSUMPTION

- # All indoor units feature DC fans for maximum energy efficiency.

PERFECT AIRFLOW

- # Thanks to the 5 swing angles for indoor unit louvres, the air flow direction can be controlled more precisely.





WIDE OPERATING RANGE

The outdoor units operate in a wide ambient temperature range: from -5°C to 48°C in cooling mode and from -25°C to 24°C in heating mode.

INCREASED REFRIGERANT SUBCOOLING

+10% energy efficiency thanks to the integration of the Plate Heat Exchanger as a secondary intercooler.

HIGH RELIABILITY

The precise oil control technology eliminates any compressor oil shortage problems and thus ensures the system's smooth operation.

EXTENDED LIFESPAN

Outdoor units are given as standard an anti-corrosion treatment for non-extreme conditions and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend the overall lifetime .



QUIET OPERATION

The low sound operation fan motor and optimized fan blades guarantee the air discharges smoothly and provides a quiet living environment.

IDEAL INDOOR TEMPERATURE

The DC Inverter fan motor adjusts the airflow based on thermal load instantly providing less temperature fluctuation and an improved living environment.



Air cooled version

Heat pump units

PICTURE	TYPE	CAPACITY RANGE (kW)	KEY TECHNOLOGIES
	LV-XSO - Top Discharge	25,2 - 270,0	<ul style="list-style-type: none"> # R410A refrigerant # Wide capacity range # Full inverter compressors # Full DC fan motors # Precise oil control # Anti-corrosion protection # Intelligent defrosting technology # Multiple priority modes # Auto addressing
	LV-SO - Top Discharge	25,2 - 90,0	
	LV-MSO - Side Discharge	20,0 - 33,5	
	LV-MO - Side Discharge	20,0 - 45,0	
	LV-MO - MINI VRF	8,0 - 18,0	
	LV-MOC - MINI VRF	8,0 - 16,0	



Air cooled version

Heat recovery units

PICTURE	TYPE	CAPACITY RANGE (kW)	KEY TECHNOLOGIES
	LV-RSO - Top Discharge	22,4 - 150,0	<ul style="list-style-type: none"> # R410A refrigerant # Wide capacity range # Full inverter compressors # Full DC fan motors # Precise oil control # Anti-corrosion protection # Intelligent defrosting technology # Multiple priority modes # Auto addressing



Water cooled version

Heat pump units

PICTURE	TYPE	CAPACITY RANGE (kW)	KEY TECHNOLOGIES
	LV-WO	25,2 - 100,5	<ul style="list-style-type: none"> # R410A refrigerant # Wide capacity range # Full inverter compressors # Full DC fan motors # Precise oil control # Anti-corrosion protection # Intelligent defrosting technology # Multiple priority modes # Auto addressing

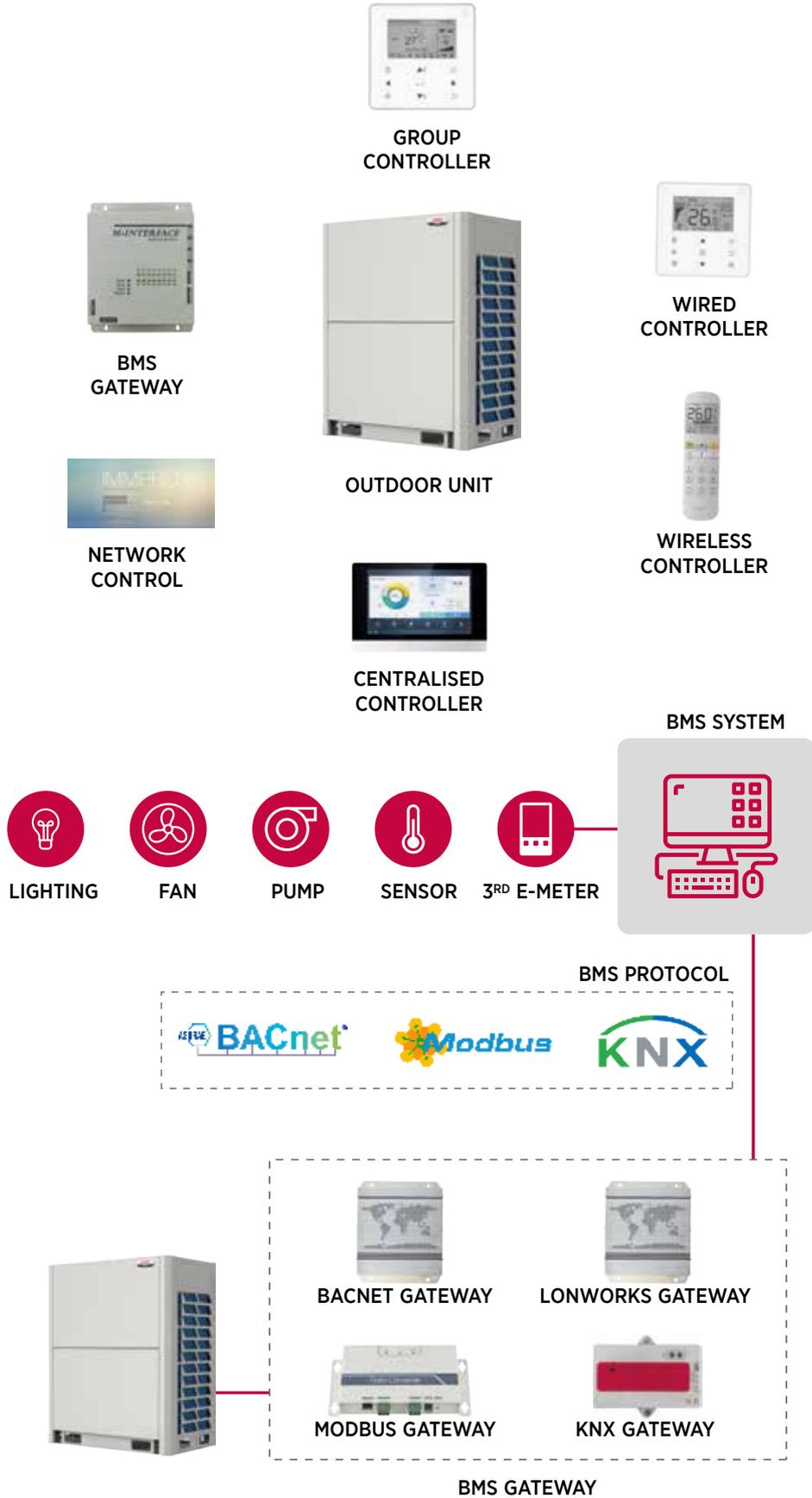
PICTURE	TYPE	CAPACITY RANGE (kW)	KEY TECHNOLOGIES
	One-way Cassette	1,8 ~ 7,1	<ul style="list-style-type: none"> # AC / DC motor # Cold air prevention # Quiet operation # Auto cooling-heating changeover # Digital display on/off # Buzzer sound on/off # Heat stratification compensation # Two thermistors control # 0.5°C/1°C setting temperature adjustment # Dirty filters indicator signal # Energy saving # Auto-restart # Self-diagnosis # Easy cleaning
	Two-way Cassette	2,2 ~ 7,1	
	Four-way Cassette	2,8 ~ 14	
	Compact Four-way Cassette	1,7 ~ 5,2	
	Medium Static Pressure Duct ⁽¹⁾	1,7 ~ 14,0	
	Medium Static Pressure Duct (ESP Increased Series) ⁽¹⁾	2,2 ~ 7,1	
	High Static Pressure Duct ⁽¹⁾	7,1 ~ 56,0	
	Wall Mounted	1,7 ~ 9,0	
	Ceiling & Floor	3,6 ~ 14,0	
	Floor Standing - Concealed	2,2 ~ 8,0	
	Floor Standing - Exposed	2,2 ~ 8,0	
	Console	2,2 ~ 4,5	
	Fresh Air Processing Unit	12,5 ~ 14,0	

(1) The indoor unit can be customized in order to use the Puro-air Kit. Puro-Air kit, powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors from indoor air to provide a healthy and safe indoor environment. It is also innovatively designed so that it prevents UV damage to the eyes, skin, and respiratory tract. The world's first air conditioning sterilization product certification. 99.9% Effective killing rate of white grape fungus. 99.9% Effective killing rate of H1N1. 98% Effective killing rate of natural bacteria.



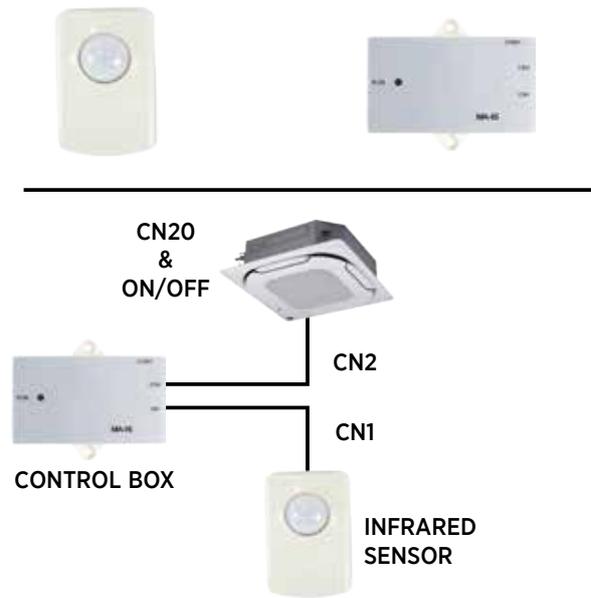
CONTROL SYSTEM

Available connectivity: individual controllers, group controllers, centralised controllers, PC/network and BMS gateways, providing various control solutions. LENNOX patented technology can detect the ODU electricity consumption and distribute to each IDU, providing the electricity charge basis.



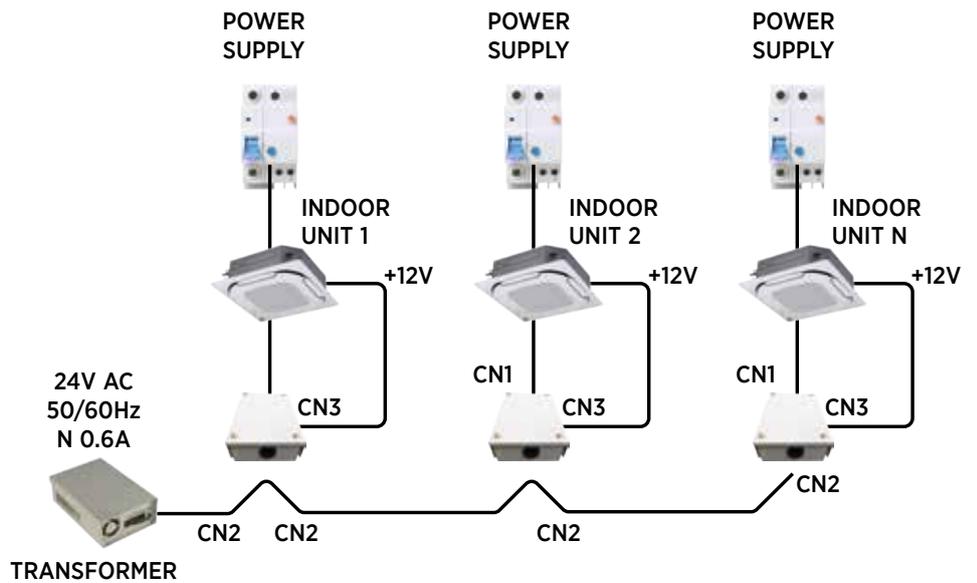
INFRARED SENSOR CONTROLLER

Using infrared sensors to detect movement, the Infrared Sensor Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied. Suitable for hotels, offices, conference rooms and residences, the Infrared Sensor Controller ensures climate control whilst minimising energy consumption.



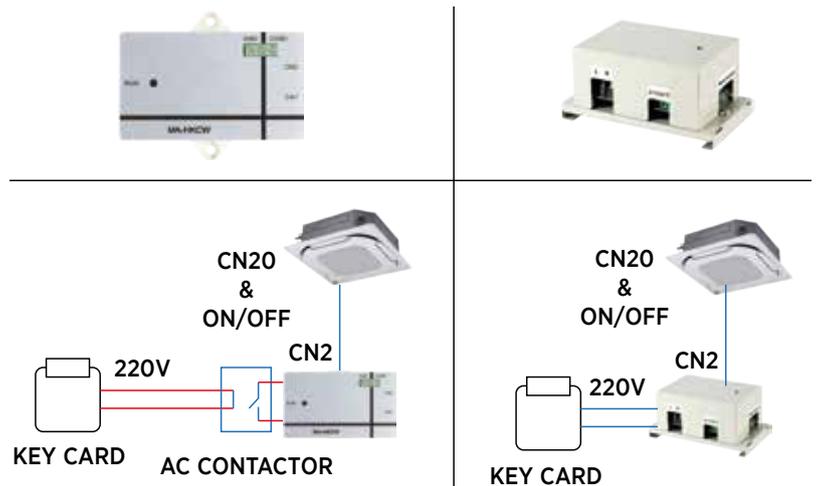
IDU ONLINE KIT

If the power supply for one indoor unit fails, the indoor unit will still remain online and the whole VRF system will not stop. The IDU online kit will keep the indoor unit online, thus allowing all other indoor units in the system to work normally and prevent unnecessary shutdowns.



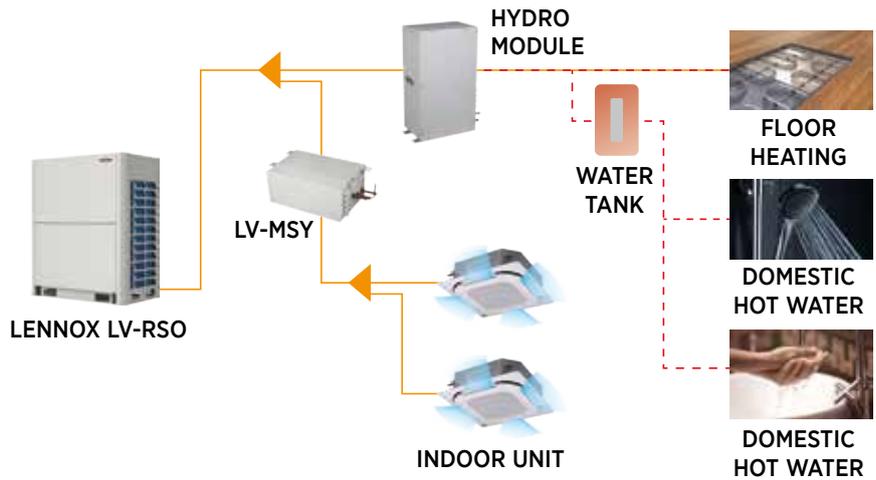
HOTEL KEY CARD INTERFACE MODULES

Enable power supply to indoor units to be integrated with hotel key card power supply management systems, which are designed to save energy by only running appliances whilst guests are present in their room.



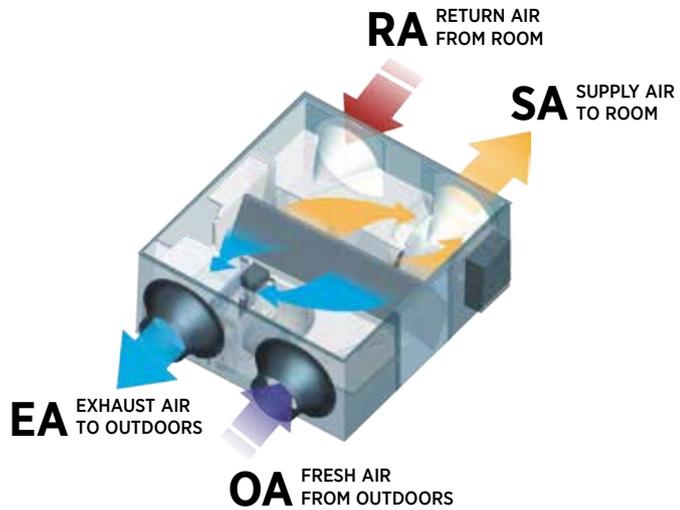
HOT WATER SUPPLY

The LV-RSO system can produce hot water (25°C to 80°C) when providing room air conditioning. The hot water can be used for space heating and domestic hot water, improving room comfort.



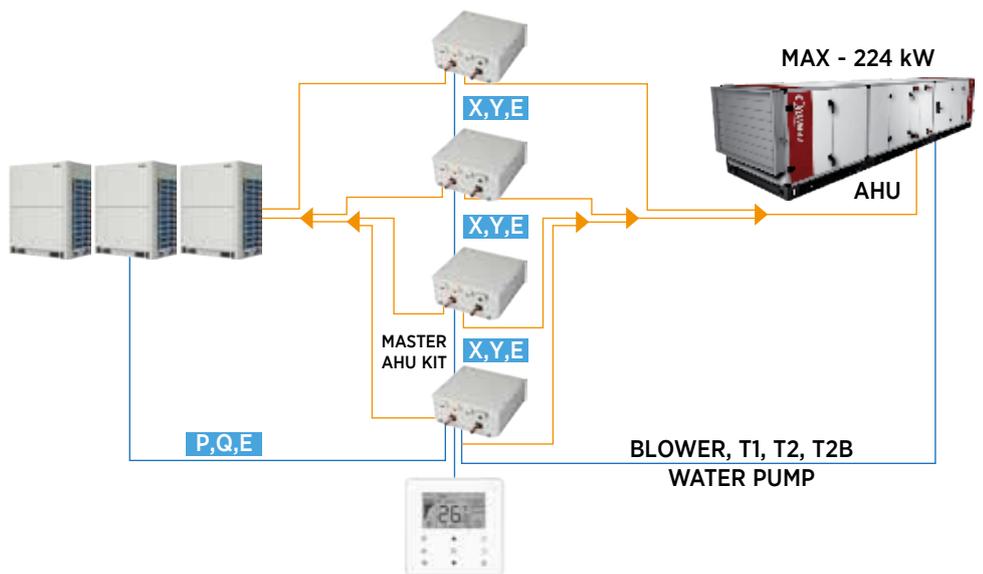
HEAT RECOVERY VENTILATOR

The heat recovery ventilator (LV-REC) can greatly reduce energy loss and room temperature fluctuations caused by the ventilation process.



VRF DX AHU CONTROL BOX

AHU Control Box facilitates raising the EER/COP of the complete AHU system.



DIAGNOSIS SOFTWARE

LENNOX VRF Diagnosis Software tool is used to monitor VRF systems and diagnose system errors. System settings and operating parameters can be accessed easily and data logs can be reviewed for fault prevention purposes.