

# MULTI SPLIT INVERTER



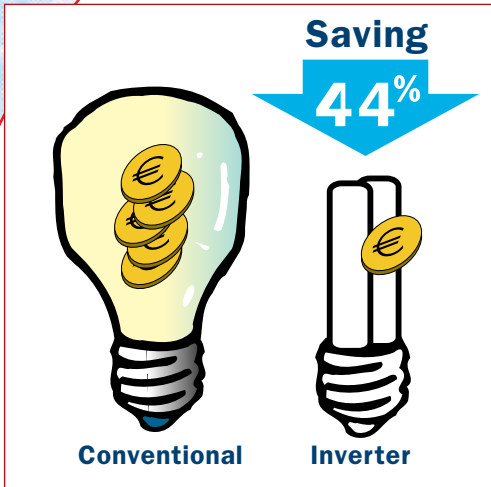
**Multi inverter**

# MULTI INVERTER SYSTEM

KMHM/LGHM/LDHM/LNHM

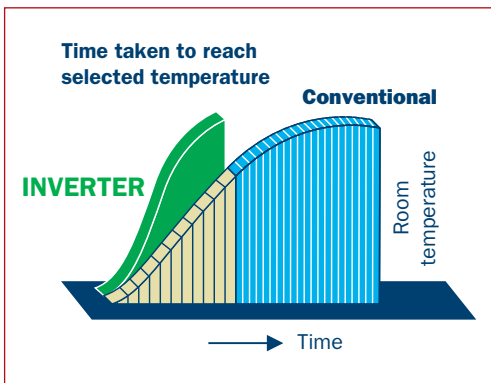
## ADVANTAGES

### LENNOX MULTI INVERTER:



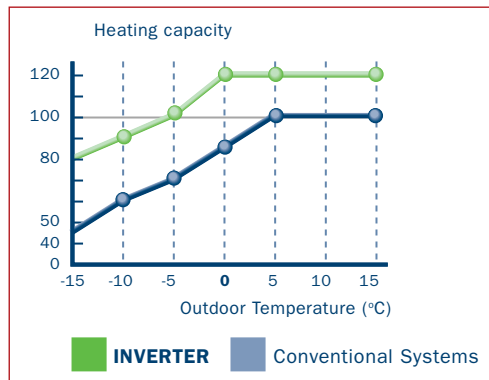
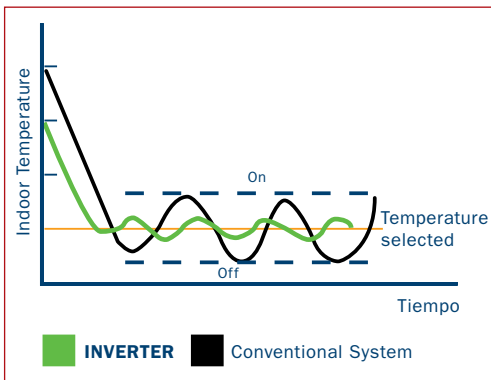
#### ■ Energy saving

- Compressor speed and coolant volume is controlled automatically according to room size requirement.
- Capacity is regulated between 20% ~ 130%.
- Use of highly efficient scroll INVERTER compressor.
- This system can save up to 44% of energy, controlling and regulating start-ups.



#### ■ Greater comfort

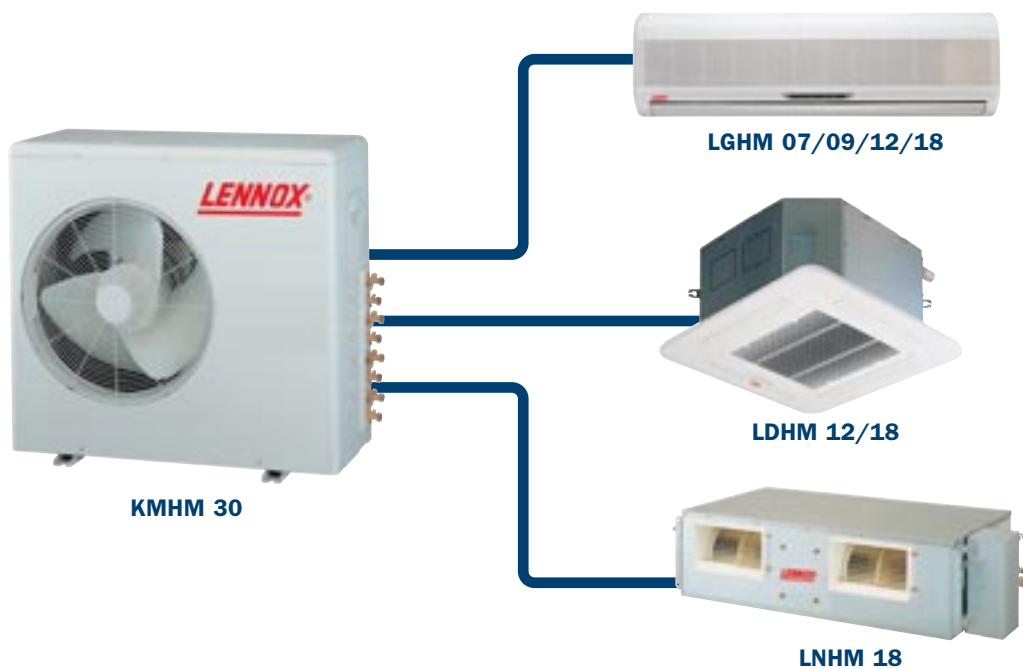
- With the compressor operating on low-grade energy all the time, once room temperature is reached the INVERTER range regulates room temperature within a variation of 0.5°C of the required temperature.
- The INVERTER compressor's performance is high until the required temperature is reached.
- Room temperature is reached more quickly, 15% more than conventional air-conditioning systems.



#### ■ Higher performance when temperature outside is low

- When the temperature outside is  $-5^{\circ}\text{C}$  the heating capacity is at 100%. Under these conditions, the air temperature discharged can reach up to  $40^{\circ}\text{C}$ .

# COMBINATIONS



		Combinations					Capacity				Power Input	Nominal Current
		Indoor Units				TOTAL	Unit A	Unit B	Unit C	Unit D		
		A	B	C	D		W	W	W	W	W	A
<b>1 OUTDOOR UNIT</b>	<b>2 INDOOR UNITS</b>	07	09	—	—	16	2.353	2.941	—	—	2.420	11,6
		09	09	—	—	18	2.941	2.941	—	—	2.730	13,2
		07	12	—	—	19	2.353	3.824	—	—	2.730	13,2
		09	12	—	—	21	2.941	3.824	—	—	2.750	13,3
		12	12	—	—	24	3.824	3.824	—	—	3.300	16,5
		07	18	—	—	25	2.353	5.824	—	—	3.300	16,5
		09	18	—	—	27	2.941	5.824	—	—	3.420	17,2
		12	18	—	—	30	3.706	5.706	—	—	3.700	19,0
	18	18	—	—	36	4.706	4.706	—	—	3.810	19,5	
	<b>3 INDOOR UNITS</b>	07	07	07	—	21	2.353	2.353	2.353	—	2.750	13,3
		07	07	09	—	23	2.353	2.353	2.941	—	2.890	14,0
		07	09	09	—	25	2.353	2.941	2.941	—	3.300	16,5
		07	07	12	—	26	2.353	2.353	3.824	—	3.440	17,4
		09	09	09	—	27	2.941	2.941	2.941	—	3.420	17,2
		07	09	12	—	28	2.353	2.941	3.824	—	3.480	17,6
		09	09	12	—	30	2.941	2.941	3.824	—	3.700	19,0
		07	12	12	—	31	2.353	3.824	3.824	—	3.750	19,2
		07	07	18	—	32	2.265	2.265	5.471	—	3.810	19,5
		09	12	12	—	33	2.647	3.676	3.676	—	3.810	19,5
		07	09	18	—	34	2.353	2.647	5.000	—	3.810	19,5
		12	12	12	—	36	3.333	3.333	3.333	—	3.810	19,5
		09	09	18	—	36	2.647	2.647	4.706	—	3.910	20,0
		07	12	18	—	37	2.353	2.941	4.706	—	3.910	20,0
	09	12	18	—	39	2.206	3.088	4.706	—	3.910	20,0	
	<b>4 INDOOR UNITS</b>	07	07	07	07	28	2.353	2.353	2.353	2.353	3.480	17,6
		07	07	07	09	30	2.353	2.353	2.353	2.941	3.700	19,0
		07	07	09	09	32	2.206	2.206	2.794	2.794	3.810	19,5
		07	07	07	12	33	2.147	2.147	2.147	3.559	3.810	19,5
		07	09	09	09	34	2.059	2.647	2.647	2.647	3.810	19,5
		07	07	09	12	35	2.132	2.132	2.353	3.382	3.810	19,5
		09	09	09	09	36	2.500	2.500	2.500	2.500	3.810	19,5
		07	09	09	12	37	2.000	2.500	2.500	3.000	3.910	20,0
		07	07	12	12	38	2.059	2.059	2.941	2.941	3.910	20,0
		07	07	07	18	39	1.912	1.912	1.912	4.265	3.910	20,0
		09	09	09	12	39	2.265	2.265	2.265	3.206	3.910	20,0

Recommended Combinations

## ■ Flexibility

- Up to 4 indoor units with only one outdoor unit..

## ■ Adaptability

- Different indoor units adapted to client requirement.

OUTDOOR UNIT	
KMHM 30	

INDOOR UNITS				
<b>WALL</b>	LGHM 07	LGHM 09	LGHM 12	LGHM 18
<b>CASSETTE</b>			LDHM 12	LDHM 18
<b>DUCTED</b>				LNHM 18





## ■ WALL

- **Quick cooling:** Boosted air flow, so that the temperature of the room to be air conditioned reaches 18° C within 30 minutes.
- **Improved Air-Swing:** Operates automatically by increasing or reducing the fan speed, creating a soft breeze that blows throughout the entire room.
- **Infrared remote control**
- **Antibacterial air filter:** Prevents respiratory germs such as bacteria and other pest elements.
- **Electrostatic air filter:** eliminates minute particles of up to 0.01 micron via an electric dust collection system.

### Infrared Remote Control

- Liquid crystal display.
- On/Off.
- Operation Mode (Auto, Cool, Heat, Dehumidification).
- Temperature Control.
- Fan speeds (Low, Medium, High or Air-Swing).
- Quick cooling.
- Air-Swing.
- 24-hour time programming.



## ■ CASSETTE

- **Silent comfort:** The advanced turbo design of its 3D fan and the specific design of its indoor exchanger make it a very quiet unit.
- **Fan adaptable to ceiling height:** Fan speed may be selected according to ceiling height to increase or decrease the air throw when required to ensure uniform air distribution.
- **Wired remote control**
- **Automatic Cool/Heat switching:** The unit switches from Cooling to Heating depending upon room demand, with a tolerance of 2° C against the room control setpoint.
- **Air Filters:** Long life and easily accessed for maintenance purposes.



## ■ DUCTED

- **Quiet comfort:** These high performance units make very low noise.
- **With reduced dimensions and compact design,** they can be installed in reduced height areas.
- **Wired remote control**
- **Air filters with high performance and filtration capacity** very easy to remove for cleaning.

### Wired control for Cassette and Ducted Unit

- Digital display.
- On/Off.
- Operation Mode (Auto, Cool, Heat, Dehumidification).
- Temperature control.
- Fan speeds.
- Weekly and daily time adjustment.
- Reset.



## MULTI SPLIT INVERTER HEAT PUMP

			WALL			
INDOOR UNIT			LGHM 07	LGHM 09	LGHM 12	LGHM 18
Cooling capacity (Set)		kW	2,05	2,67	3,51	5,27
Heating capacity (Set)		kW	2,34	2,93	3,80	5,56
Power input (Set)	Cooling	kW	1,43-3,80	1,43-3,80	1,43-3,80	1,43-3,80
	Heating	kW	1,95-3,91	1,95-3,91	1,95-3,91	1,95-3,91
Current (Set)	Cooling	A	7,0-19,5	7,0-19,5	7,0-19,5	7,0-19,5
	Heating	A	9,3-20,0	9,3-20,0	9,3-20,0	9,3-20,0
Voltage: 50 Hz (Set)		V/f	230 / 1	230 / 1	230 / 1	230 / 1
Air flow	High/Medium/Low	m <sup>3</sup> /h	390/360/300	420/360/300	510/450/390	780/660/480
Sound level (1m)	High/Medium/Low	dB(A)	36/33/30	38/34/32	40/37/35	44/41/39
Ø Coupling pipe sizes	Liquid	Inch	1/4"	1/4"	1/4"	1/4"
	Gas	Inch	3/8"	3/8"	3/8"	1/2"
Maximum Length, Vertical		m	7,5	7,5	7,5	7,5
Maximum Length		m	20	20	20	20
Ø Outlet Tube		mm	20	20	20	20
<b>PHYSICAL DATA</b>						
Dimensions	Height/Width/Depth	mm	260x820x155	260x820x155	285x900x156	314x1.080x182
Net weight		Kg	7	7	8	12
Electrical Connection with indoor Unit	n° of cables/size		4 / 0,75	4 / 0,75	4 / 0,75	4 / 0,75
<b>OPERATING LIMITS</b>						
Outside temperature Max./Min.	Cooling	°C	48/21	48/21	48/21	48/21
Indoor temperature Max./Min.	Cooling	°C	24/15	24/15	24/15	24/15
Outside temperature Max./Min.	Heating	°C	48/ - 10	48/ - 10	48/ - 10	48/ - 10
Indoor temperature Max./Min.	Heating	°C	24/10	24/10	24/10	24/10

			CASSETTE		DUCTED
INDOOR UNIT			LDHM 12	LDHM 18	LNHM 18
Cooling capacity (Set)		kW	3,51	5,27	5,27
Heating capacity (Set)		kW	3,80	5,56	5,56
Power input (Set)	Cooling	kW	1,43-3,80	1,43-3,80	1,43-3,80
	Heating	kW	1,66-3,90	1,66-3,90	1,66-3,91
Current (Set)	Cooling	A	7,00-19,50	7,00-19,50	7,00-19,50
	Heating	A	8,00-20,00	8,00-20,00	8,00-20,00
Voltage: 50 Hz (Set)		V / f	230 / 1	230 / 1	230 / 1
Air flow		m <sup>3</sup> /h	555	810	960/870/780
Sound level (1m)	High/Medium/Low	dB(A)	41/39/37	47/45/43	42/40/38
Ø Coupling pipe sizes	Liquid	Inch	1/4"	1/4"	1/4"
	Gas	Inch	3/8"	1/2"	1/2"
Maximum Length, Vertical		m	7,5	7,5	7,5
Maximum Length longitud		m	20	20	20
Ø Outlet Tube		mm	25	25	22,6
<b>PHYSICAL DATA</b>					
Dimensions	Indoor Unit	AxLxF mm	269x570x570	269x570x570	260x880x455
	Diffuser Panel	AxLxF mm	55x670x670	55x670x670	—
Net weight	Indoor Unit	Kg	19	19	34
Electrical Connection with indoor Unit	n° of cables/size		4 / 0,75	4 / 0,75	4 / 0,75
<b>OPERATING LIMITS</b>					
Outside temperature Max./Min.	Cooling	°C	48/21	48/21	48/21
Indoor temperature Max./Min.	Cooling	°C	24/15	24/15	24/15
Outside temperature Max./Min.	Heating	°C	48/ - 10	48/ - 10	48/ - 10
Indoor temperature Max./Min.	Heating	°C	24/10	24/10	24/10

OUTDOOR UNIT		KMHM 30	
Air flow		m <sup>3</sup> /h	3.180
Voltage: 50 Hz		V / f	230 / 1
Compressor		Type	Scroll
Sound level (1 m)	High/-/ Low	dB(A)	58/-/56
Ø Coupling pipe sizes	Liquid	Inch	1/4"x4
	Gas	Inch	3/8"x4
Maximum Length, Vertical		m	7,5
Maximum Length		m	20
<b>PHYSICAL DATA</b>			
Dimensions		AxLxF mm	800x870x320
Net weight		Kg	75
Electrical Connection with Indoor Unit		n° of cables/size	4 / 0,75
Mains Supply		n° of cables/size	3 / 4

Ref.: LE - 080304



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