



*Clima Split*



ISO9001:2008





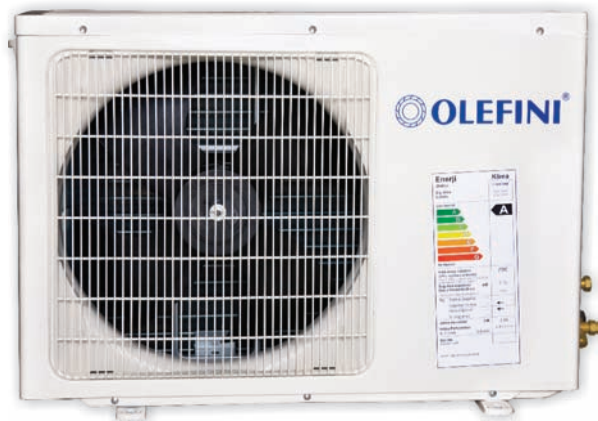
## Clima Split



OLEFINI Split Air Conditioners are designed to provide comfort environment and easy use to the end customer. They are quite, slim designed, with high quality plastics. Unit air is uniformly distributed throughout the whole room for optimum performance. During Heating Mode Pre-Heat function does not allow Indoor unit fan to operate in order not to send cold air in the room.

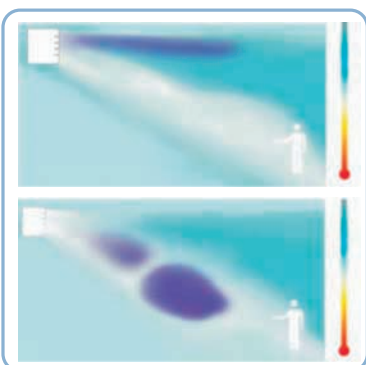


All OLEFINI Air Conditioners use R-410 A Freon, which belongs to HFC element group (friendly for the environment as far as OZON layer).



### PRE HEAT FUNCTION

When Air Conditioner works in Heating Mode Pre Heat function does not allow Indoor unit fan to operate in order not to send cold air in the room. When pipe temperature reaches 28 °C Indoor unit fan is Set to Lower speed. After one minute of operation fan starts to work to the desired by the User speed.



### DRY MODE

During Dry Mode Air Conditioner maintains Humidity levels in controlled levels, giving small amounts of Cold air in standard intervals.



# FEATURES



**AUTOMATIC RESTART**  
Air Conditioner stores in memory settings before each Power Failure and after Power comes back unit restarts operation according to the previous settings.



**SLEEP MODE**  
When Sleep Mode is selected unit automatically adjusts room temperature in order to bring it to human body temperature.



**DRY MODE**  
Rapidly reduces moisture levels inside the room by absorbing redundant moisture, thus creating a healthy and pleasant environment.



**JAPANESE COMPRESSOR**  
Adopted world-famous Japanese compressors such as Mitsubishi, Hitachi enable high efficiency cooling and long service for all conditioners.



**TIMER**  
Adjusts START and STOP of the unit in the desirable time and temperature at a setting of 0 - 24 hours.



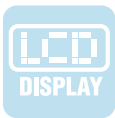
**TURBO MODE**  
This Mode when selected AC Cools or Heats room rapidly in order to achieve desired temperature levels.



**MOULD PROTECTION**  
After unit shut down fan continues to rotate for 3 more minutes in order to remove remaining moisture inside the unit and prevent mould concentration.



**PROGRAM MEMORY**  
Unit stores in memory last program settings and we can recall them whenever we wish.



**LCD DISPLAY**  
Adopted intelligent central digital dynamic LED display, indicates the operation status vividly. The setting of timed switch on/off can be made according to the end-user's needs.



**AIR DISTRIBUTION TECHNOLOGY**  
Guarantees uniform air circulation inside the room.



**HEAT PUMP**  
Air Conditioner works in Heat Mode during Winter and Cool Mode during Summer.



**LOW VOLTAGE START UP**  
Air Conditioner is able to begin operation even if Power Supply Voltage is at Low levels.



**QUIET OPERATION**  
Indoor and Outdoor Unit fans are especially designed for low noise operation.



**MULTI FOLDS EVAPORATOR**  
Multi-fold evaporator in Indoor unit could enlarge the expel heat area and enhance the cooling / heating efficiency, also makes unit more compact in size.



**AUTOMATIC DEFROST**  
Defrost takes place according to micro controller's settings to achieve effective heating conditions.



**HYDROPHILIC FINS**  
Blue colored hydrophillic fins of Indoor unit, makes the coil free from water contamination thus enhancing heat exchanging efficiency.



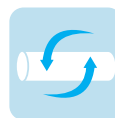
**AIR LOUVER ADJUSTMENT**  
Allows a uniform air distribution inside the room, by guiding Hot air towards the floor and Cold air towards room ceiling.



**ELECTRIC HEATING ELEMENTS**  
Electric heaters inside unit, especially during Winter season, support Heating operation in order to achieve desirable Heat levels.



**SELF DIAGNOSIS**  
Electronic error diagnosis during operation and automatically displays error codes in Unit Control panel. Unit turn simultaneously to Auto Protect Mode.



**LOW NOISE CROSS FLOW FAN**  
Low noise operation cross flow fans in Indoor Unit with High flow and efficiency.



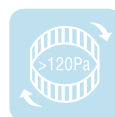
**VITAMIN C FILTER**  
The Vitamin C inducement material is installed in the filtration network of the AC. When unit starts Vitamin C will be released slowly.



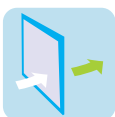
**TEMPERATURE DIFFERENCE ELIMINATION**  
Distributes Heat load equally between floor and ceiling inside the room.



**PRE-HEAT**  
During Heat Mode, element is Heated for a while before Unit starts thus preventing from blowing Cold Air inside the room.



**HIGH STATIC PRESSURE**  
Air is delivered throughout the whole room, even in high ceiling rooms, with High external static pressure.



**DUST FILTER**  
This super filter screen is easy to remove for cleaning, high effective in mold prevention and anti-bacteria, ensuring the healthy environment in the room.



**COLD CATALYTIC FILTER**  
The cold catalyst has the functions sterilization and removing odors. It can completely degrade the methyl oxide in the air, substance harmful for human health. It also effectively removes odors of methyl sulphate, ethyl mercaptan etc.



**IONIZER**  
Removes Positive Ions from Air inside the room thus creating a healthier environment.



**LED SCREEN**  
Indoor unit equipped with LED Screen for easy use and reading of unit messages.



**SLIM DESIGN**  
Slim designed unit, easy to install and service.



**ANTI-OXIDATION DESIGN**  
Outdoor unit body is designed from galvanized steel to prevent oxidation.



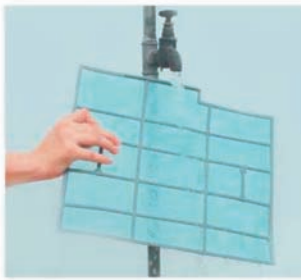
**INTERNAL THREADED COPPER PIPES**  
Speeds up fluid circulation and enhances heat-exchange efficiency up to 30 to 50%.



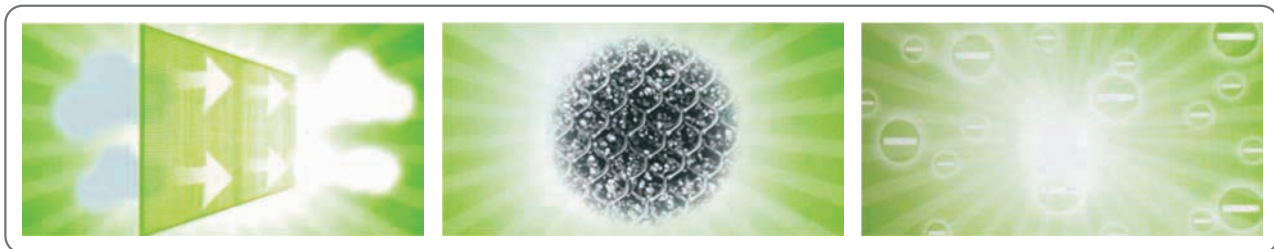
**VALVE COVERS**  
Outer unit valves are covered to prevent water dripping during operation.



## EASY CLEAN FILTERS



## FILTERS



### HIGH EFFICIENCY DUST FILTER

This super filter screen is easy to remove for cleaning, high effective in mold prevention and anti-bacteria, ensuring the healthy environment in the room.

### COLD CATALYSTIC FILTER

The cold catalyst has the functions sterilization and removing odors. It can completely degrade the methyl oxide in the air, substance harmful for human health. It also effectively removes odors of methyl sulphate, ethyl mercaptan etc.

### IONIZER

Too much Positive Ions in the air cause headaches, nausea in an Air conditioned space. OLEFINI Air Conditioners include a Brush type Anion generator which produces a large amount of anions in order to neutralize positive Ions and make Indoor Air fresh, clean and full of Oxygen.

# DC INVERTER SPLIT UNITS



DCINVERTER



## DC INVERTER TECHNICAL DETAILS

MODEL			OLE 09 DC	OLE 12 DC	OLE 18 DC	OLE 24 DC
UNIT CAPACITY	COOL	Btu/h	9000(4100~12980)	12000 (4500~13660)	18000 (6800~20500)	24000 (7860~25600)
		W	2500 (1200~3800)	2500 (1200~3800)	5100 (2000~6000)	7100 (2300~7500)
	HEAT	Btu/h	9900 (4800~15400)	13000 (5125~16400)	19000 (7500~23000)	25000 (7850~28000)
		W	2900 (1400~4500)	2900 (1400~4500)	5600 (2200~6800)	7400 (2300~8200)
POWER INPUT	COOL	W	780 (270~1310)	995 (340~1380)	1580 (320~2060)	2100 (580~2700)
	HEAT	W	800 (300~1600)	1050 (350~1600)	1640 (440~2400)	2050 (520~2700)
RATED CURRENT	COOL	A	3.40 (1.3~5.8)	4.40 (1.6~6.1)	7.1 (1.4~9.2)	9.4 (2.7~12.1)
	HEAT	A	3.55 (1.4~7.3)	4.7 (1.6~7.0)	7.4 (2.0~10.8)	9.2 (2.4~12.1)
EER		W/W	3.21 (2.9~4.4)	3.21 (2.9~4.1)	3.22 (2.9~6.25)	3.38 (2.8~4.0)
COP		W/W	3.63 (2.8~4.7)	3.62 (3.0~4.4)	3.41 (2.8~5.0)	3.61 (3.0~4.8)
AIR VOLUME		m <sup>3</sup> /h	450/400/320	500/450/380	850/700/650	1100/980/880
NOISE LEVELS	INDOOR UNIT	dB(A)	38/35/32	40/37/34	43/40/37	50/46/43
	OUTDOOR UNIT	dB(A)	50	51	51	58
REFRIGERANT			R410A	R410A	R410A	R410A
REFRIGERANT AMOUNT		gr	590	800	1400	2150
UNIT DIMENSIONS WxHxD	INDOOR UNIT	mm	800x290x186	800x290x186	860x292x205	1080x330x220
	OUTDOOR UNIT	mm	770x520x280	770x520x280	770x520x280	880x790x360
NET WEIGHT	IN / OUT UNIT	kg	10/32	10/37	12/41	15/70
POWER SUPPLY		V/Hz/Ph	220-240/ 50/1	220-240/50/1	220-240/50/1	220-240/50/1
SUPPLY PIPE DIAMETER (LIQUID / GAS LINE)		inch	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"	3/8"-5/8"
MAXIMUM PIPE LENGTH		m	10	10	10	15
MAXIMUM PIPE HEIGHT DIFFERENCE		m	5	5	5	8
ALLOWABLE OPERATION TEMPERATURE		°C	-15/48	-15/48	-15/48	-15/48
DE-HUMIDIFICATION CAPACITY		l/h	0.8	1.2	2.2	3

**Notes:**

- Above given data have been measured before unit leaves factory premisses.
- Heat / cool unit performances have been measured under following environmental conditions.

COOL	INDOOR UNIT	27°C (DB)	19°C (WB)	INDOOR UNIT	35°C (DB)	24°C (WB)
HEAT	OUTDOOR UNIT	20°C (DB)	15°C (WB)	OUTDOOR UNIT	7°C (DB)	6°C (WB)

**3. Allowable operation temperature**

	MAXIMUM HEAT	MINIMUM HEAT	MAXIMUM COOL	MINIMUM COOL
INDOOR UNIT DB/WB (°C)	32 / 23	21 / 15	27 / ...	20 / ...
OUTDOOR UNIT DB/WB (°C)	43 / 26	21 / 15	24 / 18	-5 / -6



## ON - OFF SPLIT UNITS



ON - OFF TECHNICAL DETAILS							
MODEL			OLE 09 AC	OLE 12 AC	OLE 18 AC	OLE 22 AC	OLE 24 AC
UNIT CAPACITY	COOL	Btu/h	9500	12250	18000	22000	24000
		W	2780	3590	5275	6447	7030
	HEAT	Btu/h	9500	12900	18430	22400	25600
		W	2780	3780	5400	6565	7500
POWER INPUT	COOL	W	860	1120	1640	2008	2190
	HEAT	W	770	1040	1495	1819	2080
RATED CURRENT	COOL	A	3.9	5.1	7.1	9.2	10.3
	HEAT	A	3.4	4.7	6.5	8.7	10.4
EER		W/W	3.23	3.21	3.21	3.21	3.21
COP		W/W	3.61	3.64	3.61	3.61	3.61
AIR VOLUME	INDOOR UNIT	m <sup>3</sup> /h	500	500	800	900	1050
NOISE LEVELS	INDOOR UNIT	dB(A)	29-39	29-39	40-44	42-46	43-49
	OUTDOOR UNIT	dB(A)	51	54	54	54	56
REFRIGERANT			R410A	R410A	R410A	R410A	R410A
REFRIGERANT AMOUNT		gr	560	970	1500	1900	2100
UNIT DIMENSIONS WxHxD	INDOOR UNIT	mm	745x250x195	800x280x190	900x292x215	900x292x215	1080x335x245
	OUTDOOR UNIT	mm	700x225x500	795x255x540	795x255x540	850x295x605	870x310x700
NET WEIGHT	IN / OUT UNIT	kg	9/25	10/36	14/38	14/45	18/60
POWER SUPPLY		V/Hz/Ph	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
SUPPLY PIPE DIAMETER (LIQUID / GAS LINE)		inch	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"
MAXIMUM PIPE LENGTH		m	15	15	15	15	15
MAXIMUM PIPE HEIGHT DIFFERENCE		m	5	5	5	5	5
PIPE LENGTH (WITHOUT LOAD)		m	3.5	3.5	4.0	5.0	5.0
ADDITIONAL REFRIGERANT AMOUNT		gr/m	20	20	20	30	56
ALLOWABLE OPERATION TEMPERATURE		°C	-7/43	-7/43	-7/43	-7/43	-7/43

**Notes:**

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- Heat / cool unit performances have been measured under following environmental conditions.

COOL	INDOOR UNIT	27°C (DB)	19°C (WB)	INDOOR UNIT	35°C (DB)	24°C (WB)
HEAT	OUTDOOR UNIT	20°C (DB)	15°C (WB)	OUTDOOR UNIT	7°C (DB)	6°C (WB)

# FLOOR TYPE SPLIT UNITS



FLOOR TYPE TECHNICAL DETAILS				
MODEL			OLE 24 FS	OLE 48 FS
UNIT CAPACITY	COOL	Btu/h	25000	44000
		W	7328	12896
	HEAT	Btu/h	25000+7165	46000+8530
		W	7328+2100	13482+2500
POWER INPUT	COOL	W	2615	4580
	HEAT	W	2280+2100	4200+2500
RATED CURRENT	COOL	A	11,8	8,2
	HEAT	A	10,4+9,2	7,4+11,4
EER		W/W	2,81	2,81
COP		W/W	3,21	3,21
AIR VOLUME	INDOOR UNIT	m <sup>3</sup> /h	1100	1800
NOISE LEVELS	INDOOR UNIT	dB(A)	44-49	48-56
	OUTDOOR UNIT	dB(A)	57	65
REFRIGERANT			R410A	R410A
REFRIGERANT AMOUNT		gr	1680	3150
UNIT DIMENSIONS WxHxD	INDOOR UNIT	mm	480x1652x230	600x1868x313
	OUTDOOR UNIT	mm	990x410x780	990x410x780
NET WEIGHT	IN / OUT UNIT	kg	40/58	61/98
POWER SUPPLY		V/Hz/Ph	220-240/50/1	380-420/50/3
SUPPLY PIPE DIAMETER (LIQUID / GAS LINE)		inch	3/8"-5/8"	3/8"-3/4"
MAXIMUM PIPE LENGTH		m	20	25
MAXIMUM PIPE HEIGHT DIFFERENCE		m	5	5
PIPE LENGTH (WITHOUT LOAD)		m	5	5
ADDITIONAL REFRIGERANT AMOUNT		gr/m	80	80
ALLOWABLE OPERATION TEMPERATURE		°C	-7/43	-7/43



**Notes:**

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- Heat / cool unit performances have been measured under following environmental conditions.

COOL	INDOOR UNIT	27°C (DB)	19°C (WB)	INDOOR UNIT	35°C (DB)	24°C (WB)
HEAT	OUTDOOR UNIT	20°C (DB)	15°C (WB)	OUTDOOR UNIT	7°C (DB)	6°C (WB)



## CASSETTE TYPE SPLIT UNITS



### FLOOR TYPE TECHNICAL DETAILS

MODEL			OLE 26 CS	OLE 45 CS	OLE 50 CS
UNIT CAPACITY	COOL	Btu/h	24000	45000	50000
		W	7035	13200	14700
	HEAT	Btu/h	25600	45000	52600
		W	7500	13200	15400
POWER INPUT	COOL	W	2490	4500	5200
	HEAT	W	2300	4000	4780
RATED CURRENT	COOL	A	11.30	10.51	9.85
	HEAT	A	10.70	10.51	8.85
EER		W/W	2.83	2.93	2.83
COP		W/W	3.26	3.30	3.22
AIR VOLUME	INDOOR UNIT	m <sup>3</sup> /h	1145	1700	1800
NOISE LEVELS	INDOOR UNIT	dB(A)	44-48	45-52	45-52
	OUTDOOR UNIT	dB(A)	60	65	62
REFRIGERANT			R410A	R410A	R410A
REFRIGERANT AMOUNT		gr	2180	2650	3700
UNIT DIMENSIONS WxHxD	INDOOR UNIT	mm	840x840x230	840x840x285	840x840x280
	FRAME	mm	950x950x50	950x950x50	950x950x50
	OUTDOOR UNIT	mm	900x335x840	1000x400x995	970x350x1260
NET WEIGHT	IN / OUT UNIT	kg	28/72	31/98	35-118
POWER SUPPLY		V/Hz/Ph	220-240/50/1	380-420/50/3	380-420/50/3
SUPPLY PIPE DIAMETER (LIQUID / GAS LINE)		inch	3/8"-5/8"	3/8"-3/4"	1/2"-3/4"
MAXIMUM PIPE LENGTH		m	30	30	30
MAXIMUM PIPE HEIGHT DIFFERENCE		m	10	10	10
ALLOWABLE OPERATION TEMPERATURE		°C	-7/43	-7/43	-7/43
DE-HUMIDIFICATION CAPACITY		l/h	3,5	5	6.5

#### Notes:

- Above given data have been measured before unit leaves factory premisses.
- Heat / cool unit performances have been measured under following environmental conditions.

COOL	INDOOR UNIT	27°C (DB)	19°C (WB)	INDOOR UNIT	35°C (DB)	24°C (WB)
HEAT	OUTDOOR UNIT	20°C (DB)	15°C (WB)	OUTDOOR UNIT	7°C (DB)	6°C (WB)





# DUCT TYPE HIGH PRESSURE SPLIT UNITS



DUCT TYPE TECHNICAL DETAILS				
MODEL			OLE D 48 H	OLE D 60 H
UNIT CAPACITY	COOL	Btu/h	48000	60000
		kW	14.047	17.559
	HEAT	Btu/h	52000	65000
		kW	15.218	19.023
POWER INPUT	COOL	W	4700	6000
	HEAT	W	4900	6000
RATED CURRENT	COOL	A	8.2	9.8
	HEAT	A	8.6	9.8
EER		W/W	2.99	2.93
COP		W/W	3.11	3.17
AIR VOLUME		m <sup>3</sup> /h	1920/1510/1280	1920/1510/1280
NOISE LEVELS	INDOOR UNIT	dB(A)	48/45	45/40
	OUTDOOR UNIT	dB(A)	59	58
REFRIGERANT			R410A	R410A
REFRIGERANT AMOUNT		gr	3150	4200
UNIT DIMENSIONS WxHxD	INDOOR UNIT	mm	1350x320x800	1350x320x800
	OUTDOOR UNIT	mm	986x1167x340	940x1245x360
NET WEIGHT	IN / OUT UNIT	kg	58/93	58/110
POWER SUPPLY		V/Hz/Ph	380-420/50/3	380-420/50/3
SUPPLY PIPE DIAMETER (LIQUID / GAS LINE)		inch	1/2"-3/4"	1/2"-3/4"
MAXIMUM PIPE LENGTH		m	30	30
MAXIMUM PIPE HEIGHT DIFFERENCE		m	20	20
ALLOWABLE OPERATION TEMPERATURE		°C	-7/43	-7/43
EXTERNAL STATIC PRESSURE		Pa	150	150



**Notes:**

1. Above given data have been measured before unit leaves factory premisses.
2. Heat / cool unit performances have been measured under following environmental conditions.

COOL	INDOOR UNIT	27°C (DB)	19°C (WB)	INDOOR UNIT	35°C (DB)	24°C (WB)
HEAT	OUTDOOR UNIT	20°C (DB)	15°C (WB)	OUTDOOR UNIT	7°C (DB)	6°C (WB)

3. Above given noise levels have been measured in an anechoic room, real values may vary depending on different room types.
4. Air filters are not standard. We suggest to use filters in air inlet.



## DUCT TYPE LOW PRESSURE SPLIT UNITS



DUCT TYPE TECHNICAL DETAILS				
MODEL			OLE D 48 M	OLE D 60 M
UNIT CAPACITY	COOL	Btu/h	48000	60000
		kW	14.047	17.559
	HEAT	Btu/h	52000	65000
		kW	15.218	19.023
POWER INPUT	COOL	W	5230	6092
	HEAT	W	4400	5460
RATED CURRENT	COOL	A	14.49	16.88
	HEAT	A	12.2	15.12
EER		W/W	2.69	2.89
COP		W/W	3.46	3.49
AIR VOLUME		m <sup>3</sup> /h	2282/1970/1690	2325/1990/1710
NOISE LEVELS	INDOOR UNIT	dB(A)	52.5/37	52.7/39.7
	OUTDOOR UNIT	dB(A)	62.8	59.3
REFRIGERANT			R410A	R410A
REFRIGERANT AMOUNT		gr	3250	3200
UNIT DIMENSIONS WxHxD	INDOOR UNIT	mm	1200x300x800	1200x300x800
	OUTDOOR UNIT	mm	986x1167x340	986x1167x340
NET WEIGHT	IN / OUT UNIT	kg	49/110	49/93
POWER SUPPLY		V/Hz/Ph	380-420/50/3	380-420/50/3
SUPPLY PIPE DIAMETER (LIQUID / GAS LINE)		inch	1/2"-3/4"	1/2"-3/4"
MAXIMUM PIPE LENGTH		m	50	30
MAXIMUM PIPE HEIGHT DIFFERENCE		m	25	20
ALLOWABLE OPERATION TEMPERATURE		°C	-7/43	-7/43
EXTERNAL STATIC PRESSURE		Pa	70	100



### Notes:

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COOL	INDOOR UNIT	27°C (DB)	19°C (WB)	INDOOR UNIT	35°C (DB)	24°C (WB)
HEAT	OUTDOOR UNIT	20°C (DB)	15°C (WB)	OUTDOOR UNIT	7°C (DB)	6°C (WB)

- Above given noise levels have been measured in an anechoic room, real values may vary depending on different room types.
- Air filters are not standard. We suggest to use filters in air inlet.

# ENERGY RATING



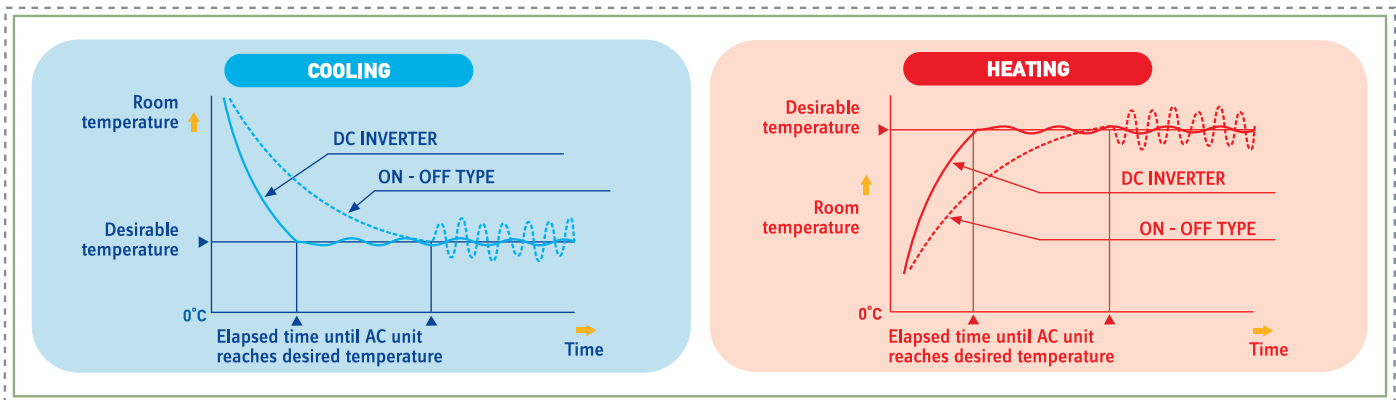
<b>Energy class</b>		<b>Energy Rating during Cooling Mode:</b>	
Manufacturer OUTDOOR UNIT INDOOR UNIT		<b>A</b>	EER > 3.20
<b>More effective</b>		<b>B</b>	3.20 ≥ EER > 3.00
<b>A</b>		<b>C</b>	3.00 ≥ EER > 2.80
<b>B</b>		<b>D</b>	2.80 ≥ EER > 2.60
<b>C</b>		<b>E</b>	2.60 ≥ EER > 2.40
<b>D</b>		<b>F</b>	2.40 ≥ EER > 2.20
<b>E</b>		<b>G</b>	2.20 ≥ EER
<b>F</b>			
<b>G</b>			
<b>Less effective</b>			
Annual Energy consumption kW in Cooling Mode Real Consumption values depend on way of installation and prevailing environmental conditions.		<b>Energy Rating during Heating Mode:</b>	
Cooling Power	kW	<b>A</b>	COP > 3.60
Energy efficiency rate Full power (higher, better)		<b>B</b>	3.60 ≥ COP > 3.40
Type		<b>C</b>	3.40 ≥ COP > 3.20
Cooling only	—	<b>D</b>	3.20 ≥ COP > 2.80
Cool + heat	—	<b>E</b>	2.80 ≥ COP > 2.60
Air cooled	—	<b>F</b>	2.60 ≥ COP > 2.40
Water cooled	—	<b>G</b>	2.40 ≥ COP
Heating Power	kW		
Heating Performance A: Higher G: Lower			
Noise levels (dB(A) re 1 pW)			
According to: EN 14511 2002/31/EC.			

## Energy Efficiency

**EER:**  $\frac{\text{Cooling Capacity (W)}}{\text{Power Consumption during Cooling (W)}}$

**COP:**  $\frac{\text{Heating Capacity (W)}}{\text{Power Consumption during Heating (W)}}$

# MAXIMUM ENERGY SAVING USING DC INVERTER UNITS





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