

**FUNCTIONING IN  
COOLING MODE WITH  
EXTERNAL  
TEMPERATURE TO -7°C**



LC\_F



LC\_C



LC\_D



Wired control panel Remote control

### Features

- The **LC** range is made up from outdoor units that can be coupled with 3 types of indoor unit
- **LC 5** sizes with different power with single phase power supply
- **LC T** 4 sizes with different power with three phase power supply
- **Indoor unit** selected from:
  - **LC C** Cassette, suspended ceiling installation, with remote control and wired control panel: LC 035C - 050C - 070C - 100C - 120C - 140C (coupling with the MDSGL40 or MDSGL40S accessory is mandatory)
  - **LC F** Floor Ceiling, wall and/or ceiling installation, with remote control and wired control panel: LC 025F - 035F - 050F - 070F - 100F - 120F - 140F
  - **LC D** ducted, ducted installation with remote control and wired control panel:
    - LC 025D - 035D - 050D - 070D - 100D - 120D - 140D - 160D
- R410A refrigerant gas
- Heat pump functioning with reverse cooling cycle and defrost control
- Outdoor unit with rotary or Scroll compressor
- Indoor unit with 3 speed fan unit
- Infrared ray remote control with liquid crystal display for checking all functions
- Liquid crystal display wired control panel for checking all functions
- Microprocessor control
- Possibility to set the room temperature probe in intake of the indoor unit or in the wired control panel
- Timer for programming switch-off or switch-on
- Functioning mode: Cooling, Heating, Dehumidification, Automatic and Fan only
- Maximum silence
- Condensate drain pump on the LC C version
- Easy installation and maintenance
- Air filter with easy extraction and cleaning
- Refrigerant lines with flared connections
- Maximum length of the refrigerant lines up to 20m for the LC25, LC35 and LC50 units; up to 30m for the LC70 units; up to 50m for the LC100, LC100T, LC120T, LC140T and LC160T units
- **Condensate control device for functioning in cooling mode with external temperature to -7°C, as per standard**

## Technical data

Outdoor unit		LC035	LC050	LC070	LC100	LC100T	LC120T	LC140T
Indoor unit		LC035C	LC050C	LC070C	LC0100C	LC100C	LC120C	LC140C
Cooling capacity	W	3500	5000	6800	10000	10000	12050	14000
EER		2,99	2,63	2,60	2,78	2,78	2,51	2,41
Total input power	W	1170	1900	2620	3600	3600	4800	5800
Total absorption	A	5,4	9,0	11,9	20	6,7	8,7	10,5
Heating capacity	W	3600	5600	7500	11000	11000	14000	15500
COP		3,27	2,95	3,00	3,33	3,55	2,80	2,50
Total input power	W	1100	1900	2500	3300	3100	5000	6200
Total absorption	A	5,05	8,7	11,4	18	5,7	8,5	11,3
Compressor	Type	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll
Fans (external unit).	n°	1	1	1	1	1	2	2
Air flow rate (indoor unit)	m³/h (max)	680	680	1180	1600	1600	1650	1700
♪ Sound pressure (indoor unit)dB(A)	(max)	47	47	47	53	53	53	53
♪ Sound pressure (outdoor unit)	dB(A)	56	56	59	60	60	63	63
Refrigerant connections	Ø liquid	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"	1/2"
	Ø gas	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"	3/4"
Refrigerant lines	Ø liquid	6,35(1/4")	6,35(1/4")	9,52(3/8")	12,7(1/2")	12,7(1/2")	12,7(1/2")	12,7(1/2")
	Ø gas	12,7(1/2")	12,7(1/2")	15,9(5/8")	19(3/4")	19(3/4")	19(3/4")	19(3/4")
Refrigerant lines maximum length	m	20	20	30	50	50	50	50
Max. level difference between the units	m	15	15	15	30	30	30	30

**Outdoor unit electric power supply** = 230V~50Hz (LC) ; 400V 3N~50Hz (LC T)

**Indoor unit electric power supply** = 230V~50Hz (LC C)

The performance refers to the following conditions:

♪ Sound pressure measures in a semianechoic chamber at 1m from the front

■ Cooling:

- Room air temperature 27 °C D.B.; 19 °C W.B.
- External air temperature 35 °C
- Maximum speed
- Refrigerant lines length 5m

■ Heating:

- Room air temperature 20 °C
- External air temperature 7 °C D.B.; 6 °C W.B.
- Maximum speed
- Refrigerant lines length 5m

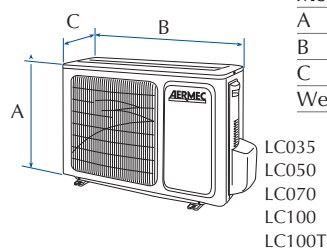
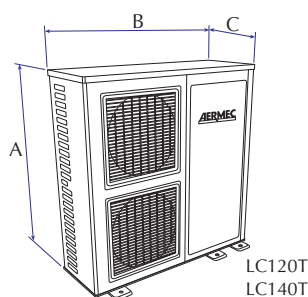
## Accessories

- **MDSGL40:** Air flow and recovery grid (840x840). The flow louvers are powered. Equipped with infrared receiver and emergency functioning key. It is a **mandatory accessory** as the LC C units are delivered without.

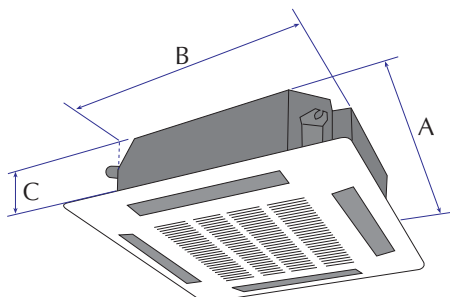
- **MDSGL40S:** Air flow and recovery grid (600x600). The flow louvers are powered. Equipped with infrared receiver and emergency functioning key. It is a **mandatory accessory** as the LC C units are delivered without.

Mod.	LC035C	LC050C	LC070C	LC0100C	LC120C	LC140C
MDSGL40S	✓	✓				
MDSGL40			✓	✓	✓	✓

## Dimensional data (mm)



Mod.	LC	035	050	070	100	100T	120T	140T
A	mm	540	540	700	840	840	1250	1250
B	mm	848	848	1018	1018	1018	950	950
C	mm	320	320	412	412	412	412	412
Weight	kg	36	40	59	90	90	128	128



Mod.	LC	035C*	050C*	070C**	100C**	120C**	140C**
A	mm	600	600	840	840	840	840
B	mm	600	600	840	840	840	840
C	mm	230	230	260	320	320	320
Weight	kg	20	20	30	38	38	38

\*: Grid dimensions MDSGL40S mm 650x650x50;  
Weight = 5 kg;

\*: Grid dimensions MDSGL40 mm 950x950x60;  
Weight = 6.5 kg;

## Technical data

Outdoor unit		LC025	LC035	LC050	LC070	LC100	LC100T	LC120T	LC140T	LC160T
Indoor unit		LC025D	LC035D	LC050D	LC070D	LC0100D	LC100D	LC120D	LC140D	LC160D
Cooling capacity	W	2500	3500	5000	7000	10000	9800	12050	14000	16000
EER		2,5	2,92	2,5	2,63	2,5	2,45	2,27	2,41	2,46
Total input power	W	1000	1200	2000	2660	4000	4000	5300	5800	6500
Total absorption	A	4,39	5,4	9,4	12,1	22	7	9,6	10,5	11,8
Heating capacity	W	2700	3600	5600	8000	11000	11000	14000	15500	18500
COP		2,7	3,27	3,11	3,19	3,14	3,14	2,86	2,87	3,36
Total input power	W	1000	1100	1800	2510	3500	3500	4900	5400	5500
Total absorption	A	4,41	5,09	8,04	11,4	19	6,3	8,9	9,8	10
Compressor	Type	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll
Fans (external unit).	n°	1	1	1	1	1	1	2	2	2
Air flow rate (indoor unit)	m <sup>3</sup> /h (max)	564	634	1067	1712	2330	2330	2330	2330	2961
Static pressure (indoor unit)	Pa	0-25	0-25	0-50	0-50	0-50	0-50	0-50	0-50	0-100
♪ Sound pressure (indoor unit)dB(A)	(max)	37	40	42	44	50	50	50	50	53
♪ Sound pressure (outdoor unit)	dB(A)	55	56	56	59	60	60	63	63	64
Refrigerant connections	Ø liquid	1/4"	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"
	Ø gas	3/8"	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"	3/4"	3/4"*
Refrigerant lines	Ø liquid	6,35(1/4")	6,35(1/4")	6,35(1/4")	9,52(3/8")	12,7(1/2")	12,7(1/2")	12,7(1/2")	12,7(1/2")	12,7(1/2")
	Ø gas	9,52(3/8")	12,7(1/2")	12,7(1/2")	15,9(5/8")	19(3/4")	19(3/4")	19(3/4")	19(3/4")	22,2(7/8")*
Refrigerant lines maximum length	m	20	20	20	30	50	50	50	50	50
Max. level difference between the units	m	15	15	15	15	30	30	30	30	30

\* with adaptors (3/4"→7/8")to be mounted on the outdoor unit and indoor unit

**Outdoor unit electric power supply** = 230V~50Hz (LC) ; 400V 3N~50Hz (LC T)

**Indoor unit electric power supply** = 230V~50Hz (LC D)

The performance refers to the following conditions:

♪ Sound pressure measures in a semianechoic chamber at 1m from the front

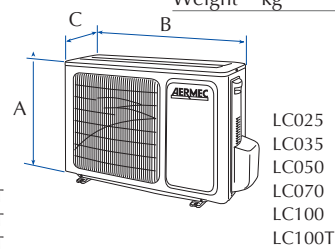
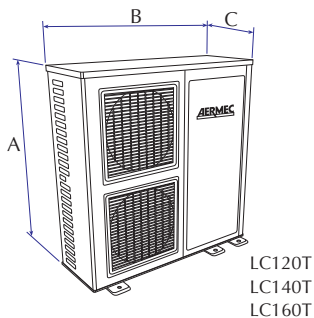
■ Cooling:

- Room air temperature 27 °C D.B.; 19 °C W.B.
- External air temperature 35 °C
- Maximum speed
- Refrigerant lines length 5m

■ Heating:

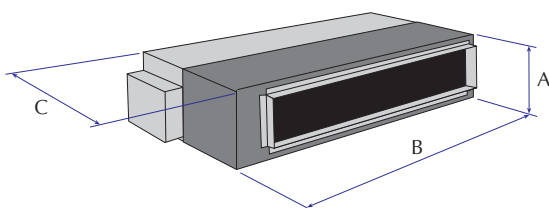
- Room air temperature 20 °C
- External air temperature 7 °C D.B.; 6 °C W.B.
- Maximum speed
- Refrigerant lines length 5m

## Dimensional data (mm)



Mod.	LC	025	035	050	070	100	100T	120T	140T	160T
A	mm	540	540	540	700	840	840	1250	1250	1250
B	mm	848	848	848	1018	1018	1018	950	950	950
C	mm	320	320	320	412	412	412	412	412	412
Weight	kg	34	36	40	59	90	90	128	128	138

Mod.	LC	025D	035D	050D	070D	0100D	120D	140D	160D
A	mm	220	220	266	268	290	290	290	330
B	mm	913	913	1012	1270	1251	1251	1251	1251
C	mm	680	680	736	504	744	744	744	788
Weight	kg	27	27	36	37	57	57	57	66



## Technical data

Outdoor unit		LC025	LC035	LC050	LC070	LC100	LC100T	LC120T	LC140T
Indoor unit		LC025F	LC035F	LC050F	LC070F	LC0100F	LC100F	LC120F	LC140F
Cooling capacity	W	2500	3500	5000	7000	10000	9800	12050	14000
EER		2,5	2,99	2,59	2,68	2,78	2,72	2,51	2,30
Total input power	W	1000	1170	1930	2610	3600	3600	4800	6100
Total absorption	A	4,39	5,4	9,3	11,8	20	6,7	8,7	11
Heating capacity	W	2700	3600	5600	8000	11000	10780	14000	15500
COP		2,7	3,27	2,71	3,09	3,33	3,27	2,98	2,67
Total input power	W	1000	1100	2070	2590	3300	3300	4700	5800
Total absorption	A	4,5	5,05	9,5	11,7	18	6	8,5	10,5
Compressor	Type	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll
Fans (external unit)	n°	1	1	1	1	1	1	2	2
Air flow rate (indoor unit)	m³/h (max)	550	550	700	1170	1800	1800	1800	2100
♪ Sound pressure (indoor unit)	dB(A)(max)	47	46	54	50	54	54	54	58
♪ Sound pressure (outdoor unit)	dB(A)	55	56	56	59	60	60	63	63
Refrigerant connections	Ø liquid	1/4"	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"	1/2"
	Ø gas	3/8"	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"	3/4"
Refrigerant lines	Ø liquid	6,35(1/4")	6,35(1/4")	6,35(1/4")	9,52(3/8")	12,7(1/2")	12,7(1/2")	12,7(1/2")	12,7(1/2")
	Ø gas	9,52(3/8")	12,7(1/2")	12,7(1/2")	15,9(5/8")	19(3/4")	19(3/4")	19(3/4")	19(3/4")
Refrigerant lines maximum length	m	20	20	20	30	50	50	50	50
Max. level difference between the units	m	15	15	15	15	30	30	30	30

**Outdoor unit electric power supply** = 230V~50Hz (LC) ; 400V 3N~50Hz (LC T)

**Indoor unit electric power supply** = 230V~50Hz (LC F)

The performance refers to the following conditions:

♪ Sound pressure measures in a semianechoic chamber at 1m from the front

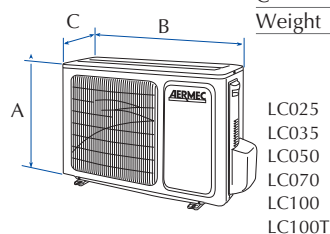
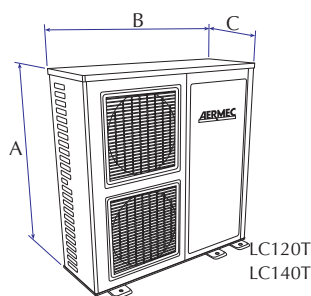
■ Cooling:

- Room air temperature 27 °C D.B.; 19 °C W.B.
- External air temperature 35 °C
- Maximum speed
- Refrigerant lines length 5m

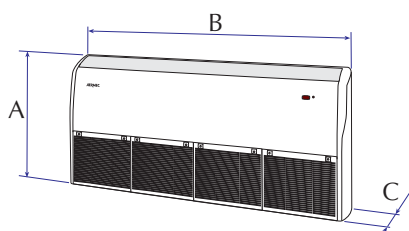
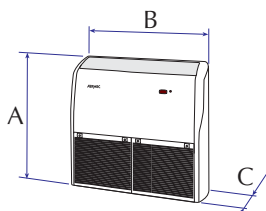
■ Heating:

- Room air temperature 20 °C
- External air temperature 7 °C D.B.; 6 °C W.B.
- Maximum speed
- Refrigerant lines length 5m

## Dimensional data (mm)



Mod.	LC	025	035	050	070	100	100T	120T	140T
A	mm	540	540	540	700	840	840	1250	1250
B	mm	848	848	848	1018	1018	1018	950	950
C	mm	320	320	320	412	412	412	412	412
Weight	kg	34	36	40	59	90	90	128	128



Mod.	LC	025F	035F	050F	070F	100F	120F	140F
A	mm	695	695	695	600	695	695	695
B	mm	836	836	836	1300	1590	1590	1590
C	mm	238	238	238	188	238	238	238
Weight	kg	27	27	27	32	42	42	42

The technical data given on this documentation is not binding. Aermec S.p.A. reserves the right to apply at any time all the modifications deemed necessary for improving the product.

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