



Total-One

COOLING + HEATING + DOMESTIC HOT WATER + HEAT RECOVERY

Total-One revolutionises the world of air conditioning by adding an indoor unit with a domestic hot water tank to the usual features of expansion systems. The production of domestic hot water, during summer operation, utilises the heat that would otherwise be dispersed outside.



Innovative

Total-One can operate in total energy recovery during the summer, thanks to the unique technology of the new series of outdoor units.



Effective

Guaranteed operation from -15° C and up to +42° C outside temperature, with domestic hot water up to 55° C.



Flexible

Compatible with all models of multi-split indoor units. Depending on the model used, up to three different indoor units can be connected in addition to the domestic hot water storage tank.



Smart

The Total-One system can be connected to smart grid systems for intelligent energy flow management, or be directly connected to a photovoltaic system.



Efficient

Energy efficiency class A+ in domestic hot water production mode under average climate conditions with L draw-off profile.



Sustainable

Energy recovery during summer operation reduces energy consumption and increases environmental sustainability.

Intelligent System for Energy Recovery

During summer operation, the outdoor unit of a normal air-conditioning system dissipates heat from the indoor environment to the outside to cool it. The possibility of harnessing this 'waste' energy has always been an important issue for air-conditioning operators.

Finally, MAXA, with the **Total-One** system, allows residential or small commercial installations to take advantage of the great opportunity represented by summer energy recovery.

The **Total-One** system, through the exclusive combination of an innovative refrigeration scheme and an advanced electronic control, makes it possible to activate not only the usual operating modes of all air conditioners, but also domestic hot water production modes with a focus on summer condensation heat recovery.

In short, domestic hot water can be produced free of charge by exploiting the heat that would otherwise be dissipated outside.

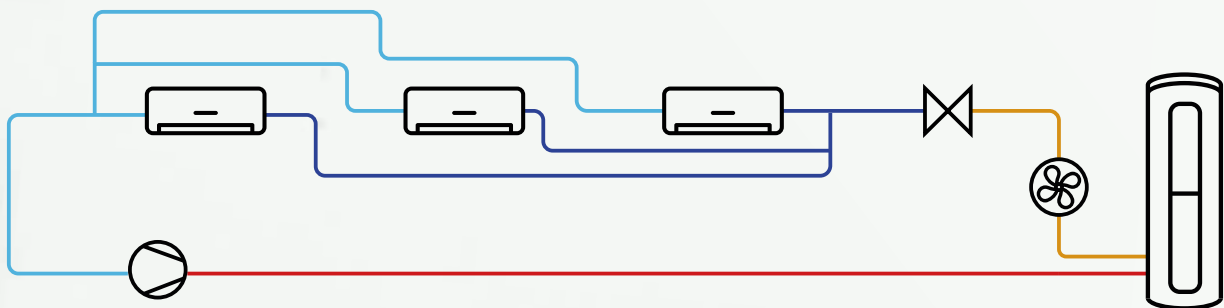


A+ ENERGY EFFICIENCY CLASS	DC INVERTER TECHNOLOGY	WI-FI	APP AVAILABLE Net-home Plus	OPERATING TEMPERATURE -15/+50°C	APPLICATION FLEXIBILITY
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Smart heat recovery

Total-One features a function, enabled via the control located on the onboard internal tank unit, that allows the system to increase the domestic hot water setpoint up to the maximum available value. This function therefore checks whether the DHW temperature set by the

user has actually been reached and, at the same time, whether recovery energy is available. If this condition is met, the system decides to optimize energy recovery by automatically raising the setpoint.



Operating principle

When the indoor units are switched on in cooling mode and the refrigerant gas reaches an appropriate temperature, the internal control system sends the hot gas to the heat exchanger of the glass-lined steel tank. At this point, the hot gas completes its condensation process, transferring a large amount of energy to the water contained inside the tank.

It should be emphasized that this heat exchange technology is highly advanced and, above all, extremely safe with regard to the quality of the water contained in the tank. When the heat to be dissipated is greater than what is required by

the tank, the system sends the excess energy to the outdoor unit to complete the gas condensation phase.

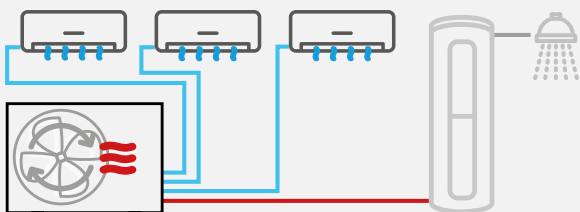
When the domestic hot water tank has reached the desired temperature, all the condensation heat is dissipated outdoors, as in a traditional air conditioner.

If, on the other hand, the cooling system is not operating but there is a need to heat the domestic hot water tank, the outdoor unit starts operating in heating mode for the sole purpose of restoring the temperature inside the tank.

Range of Compatible Indoor Units

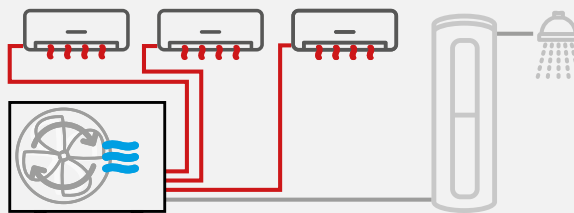


Available operating modes



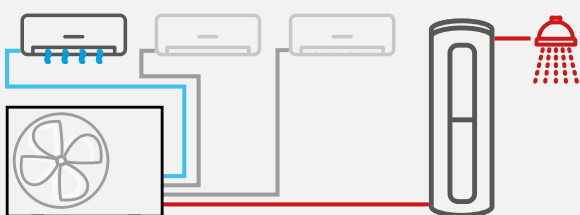
Cooling only

High-quality summer cooling is always guaranteed even in the absence of the domestic hot water storage tank.



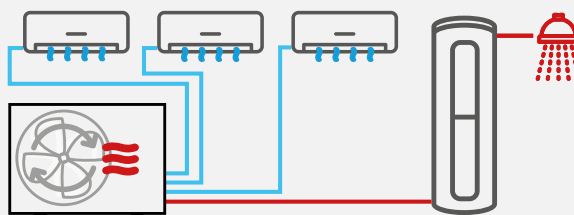
Heating only

During winter heating, the connected indoor units provide comfortable room conditions even if the domestic hot water tank is not connected.



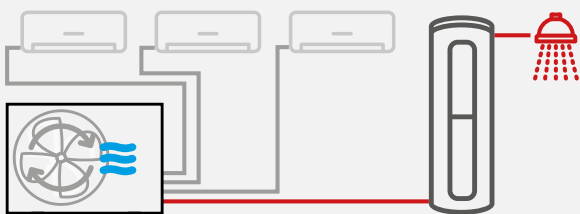
Air conditioning with total heat recovery

When the thermal energy extracted from the indoor spaces can be transferred entirely to the domestic hot water, the outdoor fan switches off and the system operates in total energy recovery mode.



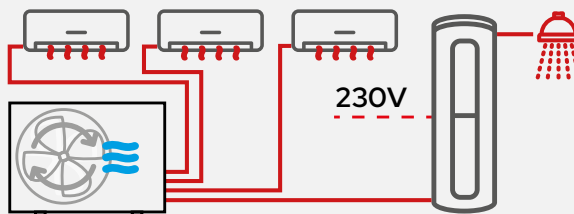
Air conditioning with partial heat recovery

When all indoor units operate simultaneously, part of the energy heats the domestic hot water. The excess energy is dissipated by the outdoor unit.



DHW-only production

Domestic hot water production is ensured even if no indoor unit is connected or when no indoor unit is operating.



Heating and DHW production

If the environmental conditions allow, the indoor units and the DHW tank can operate simultaneously, allowing space heating while at the same time heating the domestic hot water. Alternatively, the system assigns all available capacity with priority to the DHW tank.

Total-One Outdoor Units

Multisplit DC inverter with heat recovery

5,2 kW ÷ 7,9 kW



MULTISPLIT WITH HEAT RECOVERY

CONTO TERMICO

			EXT3M53HR	EXT4M80HR1	
Cooling	Connectable indoor units		2 + 1	3 + 1	
	Nominal cooling capacity	kW	5,2	7,9	
		BTU/h	18.000	27.000	
	Power input	kW	1,582	2,45	
	Absorbed current	A	7,0	11	
	E.E.R. *	W/W	3,35	3,55	
S.E.E.R.	W/W	6,1	6,3		
Heating	Rated heating capacity	kW	5,2	8,2	
		BTU/h	18.000	28.000	
	Power input	kW	1,429	2,2	
	Absorbed current	A	6,4	10,5	
	C.O.P. *	W/W	3,71	3,81	
	S.C.O.P. Medium range	W/W	4,1	4,1	
S.C.O.P. Warm climate zone	W/W	5,2	5,1		
Compressor	Type		Rotary Inverter		
	Number		1		
	Refrigerant oil (type)		VG74		
	Refrigerant oil (quantity)	ml	450	620	
Power supply	Power supply	V~, Ph, Hz	230, 1, 50		
Refrigerant	Type		R32		
	Refrigerant quantity	kg	1,57	1,8	
	Refrigerant quantity in tons of CO2 equivalent (GWP)	Ton	675		
	Maximum length with standard charge	m	15	15	
	Additional load	g/m	12	12	
	Maximum height difference between outdoor unit and indoor unit	m	15	15	
	Maximum length for each unit	m	30 (20m for DHW)	35 (20m for DHW)	
	Height difference between indoor units	m	10	10	
	Minimum recommended line length	m	5	5	
	Maximum length for all indoor units	m	60 (20m for DHW)	80 (20m for DHW)	
	Gas connections	mm	3x9.52	3X9.52+1x12.7	
		inch	3x3/8"	3x3/8"+1x1/2"	
	Liquid connections	mm	3x6.35	4x6.35	
inch		3x1/4"	4x1/4"		
Fans	Type		Axial		
	Number		1		
	Rated power	W	80	120	
	Nominal air flow rate	m³/h	3000	4000	
Operating limits	Outdoor temperature in cooling min/max	°C	-15~50	-15~50	
	Outdoor temperature in heating min/max	°C	-15~24	-15~24	
Sound data	Sound pressure level of outdoor unit	dB(A)	60	62	
	Sound power level of outdoor unit	dB(A)	65	66	
Dimensional data	Outdoor unit dimensions (WxHxD)	mm	890x673x342	946x810x410	
	Net weight of outdoor unit	kg	46,6	64,3	
	Gross weight of outdoor unit	kg	50,3	68,6	

* Indoor units size 26.

DHW Tanks Total-One

R32 indoor unit for domestic hot water production

100, 190 l



MULTISPLIT WITH HEAT RECOVERY



		TNK100HR	TNK190HR	
Compatible outdoor unit		EXT3M53HR EXT4M80HR1	EXT4M80HR1	
Field of application		From -15°C to +43°C	From -15°C to +43°C	
Refrigerant connections (inch)		1/4" + 3/8"	1/4" + 3/8"	
DHW setpoint temperature (with resistance enabled)		38 ~ 55 (70)	38 ~ 55 (70)	
Tank corrosion protection		Magnesium anode	Magnesium anode	
Building material		Enamelled steel	Enamelled steel	
Net internal volume Litres		100	190	
Power supply		Ph-V-Hz	1ph/220~240V/50Hz	
DHW performance according to standard EN 16147:2017	Load profile	M	L	
	Rated DHW power	kW	2,6	
	COP dhw		3,4	
	DHW setpoint test	°C	52	
	Maximum draw-off with DHW = 40°C	l	120 L	
	Energy Class		A+	
	Standby absorption	W	50	
	Maximum tank pressure	bar	10	
	Protection system		Magnesium sacrificial anode	
	Type of material		Vitreous enamel steel	
	Integration mode		2kW electric heater	
	DHW production only data	Water heating capacity *	3,0	4,0
		COP *	3,9	3,9
Dimensional data	Dimensions (HxWxD)	mm	1.060*500*556	
	Net weight	kg	45	
Electrical data	Electrical wiring		2+Earth	
	Recommended minimum power supply section	mm ²	1,5	
	Electric heating element power	kW	2	
	Current electric resistance	A	9,1	
Wiring section to the outdoor unit		mm ²	1.0 x 3 + Earth	

*air inlet 15°C, air outlet 12°C, water inlet 15°C, water outlet 45°C



High-efficiency heat exchange interface, accelerates **water heating**



Super-resistant tank, designed and built to withstand rigorous tests with very high pressures



High-efficiency condenser, made of flat tube with a high number of turns



Condenser with parallel connections, **high-efficiency** heat exchange

Nevalis Multisplit

DC inverter winter specialist, Wi-Fi

2.6 kW ÷ 7.0 kW



MULTISPLIT

			NVL26R	NVL35R	NVL53R	NVL70R
Cooling	Cooling capacity	kW	2,6 (1,0~3,5)	3,5 (1,4~4,0)	5,0 (2,0~6,1)	7,0 (2,2~8,8)
		BTU/h	9.000	12.000	17.060	23.884
Heating	Heating capacity	kW	2,9 (0,8~3,7)	3,8 (1,1~4,1)	5,4 (1,4~6,8)	7,3 (1,6~9,4)
		BTU/h	10.000	13.000	18.425	24.908
Refrigerant connections	Gas connections (1)	mm / inch	Ø9.53(3/8")	Ø9.53(3/8")	Ø12.7(1/2")	Ø12.7(1/2")
	Liquid connections	mm / inch	Ø6.35(1/4")	Ø6.35(1/4")	Ø6.35(1/4")	Ø9.53(3/8")
Indoor unit fans	Type	Centrifugal with EC motor				
	Number	1				
	Nominal air flow rate	m³/h	650 / 510 / 360 / 285 / 150	800 / 600 / 450 / 370 / 220	950 / 800 / 600 / 470 / 340	1.150 / 1.090 / 790 / 635 / 445
Indoor unit heat exchanger	Internal heat exchanger type	Copper tube and aluminum fins				
	Nominal outside diameter	mm	5			
	Rows	no.	2	2	2	2
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50			
	Power input*	W	23	23	36	68
	Current drawn*	A	0,45	0,45	0,48	0,84
Sound data	Indoor unit sound pressure level	dB(A)	39 / 34 / 25 / 19	39 / 32 / 26 / 20	43 / 36 / 28 / 21.5	46 / 39.5 / 32.5 / 21.5
	Indoor unit sound power level	dB(A)	56	56	58	60
Dimensional data	Net dimensions (W x H x D) **	mm	723x286x199	813x289x201	975x308x218	1.055x330x231
	Net weight	kg	7,5	8	10,2	13

(* Value referred to the indoor unit only

(1) Refer to the indoor units table for the piping section.

(2) Average climatic conditions / hot climatic conditions

Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. - outdoor 35°C d.b. / 24°C w.b. - Heating test

conditions: indoor 20°C d.b. - outdoor 7°C d.b. / 6°C w.b.

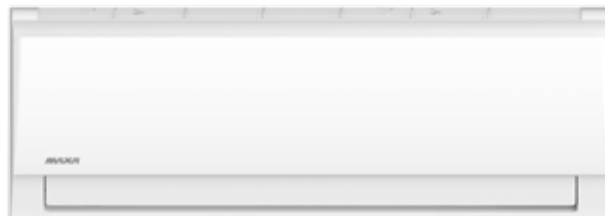
For system power consumption, refer to the outdoor unit nameplate

** The width measurement does not include the connections.

Lys R3 Multisplit

DC inverter Wi-Fi

2.6 kW ÷ 5.8 kW



MULTISPLIT

			LDL26R3	LDL35R3	LDL53R3	LDL70R3
Cooling	Cooling capacity	kW	2,64	3,22	5,27	5,86
		BTU/h	9.000	12.000	18.000	24.000
Heating	Heating capacity	kW	2,49	3,30	4,97	6,00
		BTU/h	8.500	13.000	19.000	25.000
Refrigerant connections	Gas connections	mm / inch	Ø9.53(3/8")	Ø9.53(3/8")	Ø12.7(1/2")	Ø15.9(5/8")
	Liquid connections	mm / inch	Ø6.35(1/4")	Ø6.35(1/4")	Ø6.35(1/4")	Ø9.53(3/8")
Indoor unit fans	Type	Centrifugal with EC motor				
	Number	1				
	Nominal air flow rate	m³/h	435/333/259	530/430/310	840/680/540	980/817/662
Indoor unit heat exchanger	Internal heat exchanger type	Copper tube and aluminum fins				
	Nominal outside diameter	mm	5			
	Rows	no.	3	4	3	4
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50			
	Power input*	W	20	20	34	62
	Current drawn*	A	0,09	0,09	0,15	0,28
Sound data	Indoor unit sound pressure level	dB(A)	37 / 32 / 25 / 21.5	39.5 / 35.5 / 25 / 21.5	42.5 / 36 / 26	45 / 40.5 / 36
	Indoor unit sound power level	dB(A)	50	54	56	59
Dimensional data	Net dimensions (W x H x D) **	mm	715x285x194	805x285x194	957x302x213	1.040x327x220
	Net weight	kg	6,7	7,3	10	12,3

(* Value referred to the indoor unit only

Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. - outdoor 35°C d.b. / 24°C w.b. - Heating test

conditions: indoor 20°C d.b. - outdoor 7°C d.b. / 6°C w.b.

For system power consumption, refer to the outdoor unit nameplate

Cassette Multisplit

DC fan cassette type indoor unit

2.6 kW ÷ 5.3 kW



MULTISPLIT

			CCST26R1	CCST35R1	CCST53R1	CCST71R
Cooling	Cooling capacity	kW	2,64	3,51	5,27	7,03
		BTU/h	9.000	12.000	18.000	21.000
Heating	Heating capacity	kW	2,93	3,80	5,57	7,62
		BTU/h	10.000	13.000	17.870	26.000
Refrigerant connections	Gas connections	mm / inch	Ø9,53(3/8")	Ø9,53(3/8")	Ø12,7(1/2")	Ø15,9(5/8")
	Liquid connections	mm / inch	Ø6,35(1/4")	Ø6,35(1/4")	Ø6,35(1/4")	Ø9,53(3/8")
Indoor unit heat exchanger	Number		1			
	Nominal air flow rate	m³/h	580/500/300	620x510x420	720x620x500	1300/1140/1000
	Internal heat exchanger type		Aluminum			
	Nominal outside diameter	mm	7	7	7	7
	Rows	no.	1	1	2	2
	Circuits	no.	2	2	4	4
Electrical data	Heat exchanger fin		Hydrophilic aluminum			
	Power supply	V~, Ph, Hz	230, 1, 50			
	Power input*	W	25	25	40	45
	Current drawn*	A	0,6	0,6	0,7	0,75
Sound data	Indoor unit sound pressure level	dB(A)	37/35,5/33	42/38,5/31,5	44/41/31,5	50/47,5/42
	Indoor unit sound power level	dB(A)	52	52	55	59
Dimensional data	Net dimensions (W x H x D) **	mm	647x647x50	647x647x50	647x647x50	950x950x55
	Net weight	kg	14,5	16,3	16,3	21,6

(*) Value referred to the indoor unit only
For system power consumption, refer to the outdoor unit nameplate

Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. - outdoor 35°C d.b. / 24°C w.b.
Heating test conditions: indoor 20°C d.b. - outdoor 7°C d.b. / 6°C w.b.

Duct Multisplit

Ductable indoor unit with DC fan, Wi-Fi

2.1 kW ÷ 5.3 kW



MULTISPLIT

			DUCT20R2	DUCT26R2	DUCT35R2	DUCT53R2	DUCT71R2
Cooling	Cooling capacity	kW	2,05	2,64	3,51	5,27	7,03
		BTU/h	7.000	9.000	12.000	18.000	24.000
Heating	Heating capacity	kW	2,34	2,93	3,81	6,00	7,62
		BTU/h	8.000	10.000	13.000	20.500	26.000
Refrigerant connections	Gas connections	mm / inch	Ø9,53(3/8")	Ø9,53(3/8")	Ø9,53(3/8")	Ø12,7(1/2")	Ø15,9(5/8")
	Liquid connections	mm / inch	Ø6,35(1/4")	Ø6,35(1/4")	Ø6,35(1/4")	Ø6,35(1/4")	Ø9,53(3/8")
Indoor unit fans	Type		Centrifugal				
	Number		1				
	Nominal air flow rate	m³/h	620 / 540 / 450	660 / 570 / 470	660 / 570 / 470	900 / 780 / 650	1200 / 1000 / 700
Electrical data	Useful static pressure range	Pa	0 - 80	0 - 80	0 - 100	0 - 160	0 - 160
	Power supply	V~, Ph, Hz	230, 1, 50				
	Power input*	W	88	88	91	172	217
	Current drawn*	A	0,8	0,8	0,8	1,3	1,5
Sound data	Indoor unit sound pressure level	dB(A)	40/34,5/27,5	35/33/31	35/33/31	36,5/34/31	33,5/32,5/31
	Indoor unit sound power level	dB(A)	57	54	52	53	56
Dimensional data	Net dimensions (W x H x D) **	mm	700x200x506			700x245x 750	1.100x249x 774
	Net weight	kg	16,6	16,6	16,6	24,4	32,3

(*) Value referred to the indoor unit only
For system power consumption, refer to the outdoor unit nameplate

Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. - outdoor 35°C d.b. / 24°C w.b.
Heating test conditions: indoor 20°C d.b. - outdoor 7°C d.b. / 6°C w.b.

Console Multisplit

DC fan console-type indoor unit

3.5 kW



MULTISPLIT

			CONS26R	CONS35R	CONS53R NEW
Cooling	Cooling capacity	kW	2,64	3,52	4,98
		BTU/h	9.000	12.000	17.000
Heating	Heating capacity	kW	2,93	3,81	5,27
		BTU/h	10.000	13.000	18.000
Refrigerant connections	Gas connections	mm / inch	Ø9,53(3/8")	Ø9,53(3/8")	Ø12,7(1/2")
	Liquid connections	mm / inch	Ø6,35(1/4")	Ø6,35(1/4")	Ø6,35(1/4")
Indoor unit fans	Type		Centrifugal		
	Number		1+1		
	Nominal air flow rate	m³/h	600/510/400	650/580/490	780/690/600
Indoor unit heat exchanger	Internal heat exchanger type		Copper - Aluminum		
	Nominal outside diameter	mm	7		
	Rows	no.	2		
	Circuits	no.	2		
	Heat exchanger fin		Hydrophilic aluminum		
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50		
	Power input*	W	25	30	35
	Current drawn*	A	0,38	0,40	0,42
Sound data	Indoor unit sound pressure level	dB(A)	37/34/27	37/34/27	41/38/32
	Indoor unit sound power level	dB(A)	54	54	55
Dimensional data	Net dimensions (W x H x D) **	mm	794x621x200		
	Net weight	kg	14,9		

(*) Value referred to the indoor unit only
For system power consumption, refer to the outdoor unit nameplate

Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. - outdoor 35°C d.b. / 24°C w.b.
Heating test conditions: indoor 20°C d.b. - outdoor 7°C d.b. / 6°C w.b.

Ceiling Floor Multisplit

Ceiling/floor type indoor unit DC fan

5.2 kW



MULTISPLIT

			SPV53R	SPV71R
Cooling	Cooling capacity	kW	5,27	7,03
		BTU/h	18.000	24.000
Heating	Heating capacity	kW	5,57	7,62
		BTU/h	19.000	26.000
Refrigerant connections	Gas connections	mm / inch	Ø12,7(1/2")	Ø15,9(5/8")
	Liquid connections	mm / inch	Ø6,35(1/4")	Ø9.53(3/8")
Indoor unit fans	Number		1	
	Nominal air flow rate	m³/h	958/839/723	1192/1023/853
Indoor unit heat exchanger	Internal heat exchanger type		Copper - Aluminum	
	Nominal outside diameter	mm	7	7
	Rows	no.	2.0	1.6
	Circuits	no.	4	5
	Heat exchanger fin		Hydrophilic aluminum	
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50	
	Power input*	W	172	217
	Current drawn*	A	1,3	1,5
Sound data	Indoor unit sound pressure level	dB(A)	44/41/37	51/47/43
	Indoor unit sound power level	dB(A)	59	55
Dimensional data	Net dimensions (W x H x D) **	mm	1.068x675x235	
	Net weight	kg	28	

(*) Value referred to the indoor unit only
For system power consumption, refer to the outdoor unit nameplate

Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. - outdoor 35°C d.b. / 24°C w.b.
Heating test conditions: indoor 20°C d.b. - outdoor 7°C d.b. / 6°C w.b.