Nevalis Monosplit

DC inverter winter specialist, Wi-Fi

2.6 kW÷7.0 kW

MONOSPLIT



WINTER SPECIALIST -25°C | ECO ENERGY SAVING | TREATMENT GOLDEN FIN | WI-FI Standard USB Smart Kit | APP AVAILABLE NetHome Plus | AUTO RE-START | FUNCTION TIMER | SLEEP MODE 21.5 DB(A) | ADJUSTABLE SPEED | LED DISPLAY | OPERATING TEMPERATURE -25/+50°C | MOTORIZED FRONT FLAP | MOTORIZED DEFLECTORS

Accessories



Infrared remote control with wall mount
Included



Smart Kit USB
Included



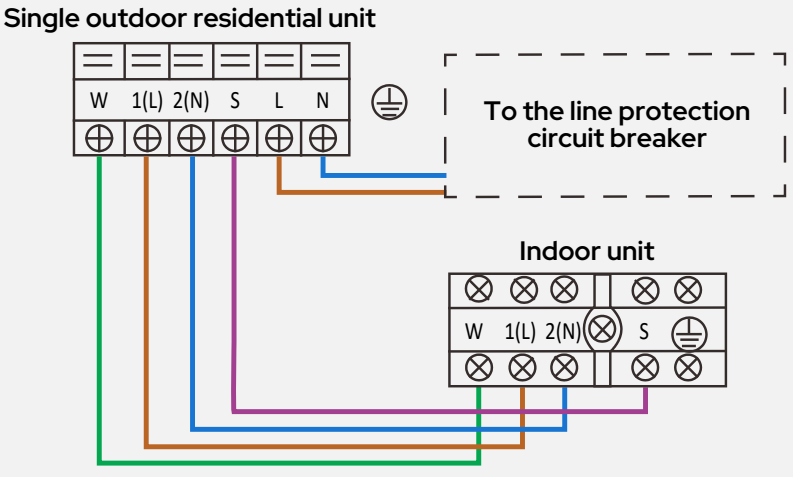
Airset-C
Accessory supplied separately

Heated Base
Included

Features

- **Winter specialist**: Thanks to its advanced technology, the Nevalis range is designed to operate with outdoor temperatures as low as -25°C, ensuring efficient heating even in the most extreme weather conditions. Ideal for cold climates, it provides consistent comfort, reduces energy consumption, and supports environmental sustainability, without compromising performance.
- **Golden Fin**: exclusive anti-corrosion coating that enables the finned heat exchanger coil to withstand salty air, rain, and other corrosive elements. In addition, it effectively prevents bacterial growth and improves thermal efficiency. The Golden Fin treatment also guarantees the maintenance of optimal performance over the long term.
- **Flash Cooling**: the outdoor units in this range, by exploiting high-frequency compressor start-up technology (new-generation inverter), make it possible to generate a strong flow of cold air in extremely short times, ensuring immediate cooling.
- **ECO Mode**: the Nevalis range is equipped with energy-saving ECO technology, which integrates perfectly with high-efficiency inverter technology. You can enjoy a pleasant level of cooling while significantly reducing energy consumption over an 8-hour period.
- **Maximum flexibility**: Thanks to continuous improvements made to the electronic and electrical components, the Nevalis range can operate with a particularly wide electrical voltage range. The minimum supply voltage is 90 V, while the maximum voltage is 270 V.
- **Silent Mode**: Through a function that can be activated using the supplied remote control, the indoor unit and the outdoor unit automatically adjust their operating frequency, ensuring maximum quietness.

Example wiring diagram for single outdoor residential unit + indoor unit



W: suggested but not mandatory

			NVL26R + OUNVL26R	NVL35R + OUNVL35R	NVL53R + OUNVL53R	NVL70R + OUNVL70R
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
	Power input	kW	0,628	1,035	1,39	2,12
	Absorbed current	A	4,4	4,7	6,04	9,21
	E.E.R.	W/W	4,2	3,4	3,6	3,3
	S.E.E.R. - Energy Class	W/W	8.8 - A+++	8.5 - A+++	8.5 - A+++	7.9 - A++
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
	Power input	kW	0,666	0,975	1,44	1,97
	Absorbed current	A	4,45	4,4	6,26	8,56
	C.O.P.	W/W	4,4	3,91	3,75	3,71
	S.C.O.P. (2)	W/W	4.6 - A++	4.6 - A++	4.6 - A++	4.6 - A++
Compressor	Type		Rotary Inverter			
	Number		1			
	Refrigerant oil (type)		ESTER OIL VG74			
	Refrigerant oil (quantity)	ml	280	280	440	620
	Refrigerant circuits		1			
Refrigerant	Type		R32			
	Refrigerant quantity	kg	0,55	0,58	0,85	1,08
	Refrigerant quantity in tons of CO2 equivalent (GWP)	Ton	675			
	Maximum length with standard charge	m	5	5	5	5
	Additional load	g/m	12	12	12	24
	Maximum height difference between outdoor unit and indoor unit	m	≤ 10	≤ 10	≤ 20	≤ 25
	Maximum length with additional charge	m	25	25	30	50
	Recommended minimum length	m	3,5	3,5	3,5	3,5
	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")	Ø6.35(1/4")
Outdoor unit fans	Type		Axial with front discharge			
	Number		1			
	Rotational speed	rpm	800/600	780/600	700/530	830/550
	Nominal air flow rate	m^3/h	2.200	2.200	3.500	3.500
Indoor unit fans	Type		Centrifugal with EC motor			
	Number		1			
	Nominal air flow rate	m^3/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
Operating limits	Outdoor temperature in cooling min/max	°C	-15 / +50			
	Outdoor temperature in heating min/max	°C	-25 / +24			
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50			
	Maximum absorbed power	W	2150	2150	2500	3500
	Maximum absorbed current	A	10	10	13	15,5
Sound data	Sound pressure level of outdoor unit	dB(A)	54	55	57	60
	Sound power level of outdoor unit	dB(A)	62	62	65	68
	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 of indoor unit (WxHxD)	mm	723x286x199	813x289x201	975x308x218	1.055x330x231
	Net dimensions of outdoor unit (W x H x D) **	mm	765x555x303	765x555x303	890x673x342	890x673x342
	Net weight of indoor unit	kg	7,5	8	10,2	13
	Net weight of outdoor unit	kg	23,1	23,1	37,8	41

(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.

Nevalis Multisplit

Wall-mounted multisplit indoor unit, DC inverter, Wi-Fi

2.6 kW÷7.0 kW

MULTISPLIT



ECO ENERGY SAVING | TREATMENT GOLDEN FIN | WI-FI Standard USB Smart Kit | APP AVAILABLE NetHome Plus | AUTO RE-START | FUNCTION TIMER | SLEEP MODE 21.5 DB(A) | ADJUSTABLE SPEED | LED DISPLAY | MOTORIZED FRONT FLAP | OPERATING TEMPERATURE -25/+50°C

Accessories



Infrared remote control with wall mount
Included



Smart Kit USB
Included

Heated Base
Included

			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")	Ø6.35(1/4")
Indoor unit fans	Type		Centrifugal with EC motor			
	Number		1			
	Nominal air flow rate	m^3/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.

Outdoor Multisplit Units

DC inverter multi-split from 2 to 5 indoor units

4.1 kW÷12.3 kW

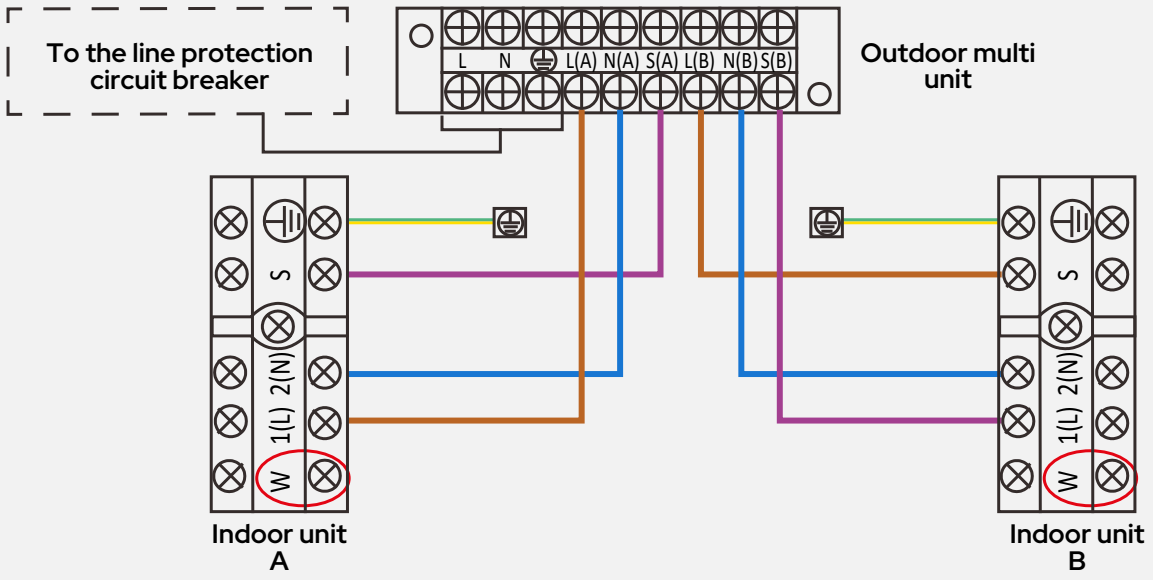
MULTISPLIT



TREATMENT GOLDEN FIN | INVERTER TECHNOLOGY | ON-BOARD UNIT DIAGNOSTICS | OPERATING TEMPERATURE -15/+50°C

- **Golden Fin**: exclusive anti-corrosion coating that enables the finned heat exchanger coil to withstand salty air, rain, and other corrosive elements. In addition, it effectively prevents bacterial growth and improves thermal efficiency. The Golden Fin treatment also guarantees the maintenance of optimal performance over the long term.
- **Inverter compressor**: the inverter compressor ensures high energy efficiency even at partial loads. When individual rooms reach the desired temperature and the power demand decreases, the compressor automatically adapts, ensuring significant energy savings.
- **Flexible sizing**: even when total capacity requirements are high, it is always possible to choose the most suitable multisplit outdoor unit. Depending on the available combinations, the capacity ratio can reach a maximum value of 130%.
- Thanks to the **active power factor control**, the multisplit outdoor units are always able to maintain optimal phase synchronization. The Cosφ value always remains between 0.88 and 0.99.
- **Wide modulation range**: the advanced Inverter technology allows the compressor to modulate the operating frequency from 20 Hz up to 105 Hz, ensuring maximum operating flexibility.
- The **automatic recognition function** makes it possible to resolve any installation errors in which the refrigerant piping and electrical connections between the indoor units and the outdoor unit are not consistent. Simply press the "check switch" button and, after a few minutes, the system will automatically configure itself correctly.
- The multi-split outdoor units are able to maintain a delivered cooling capacity equal to 65% of the nominal capacity even with outdoor temperatures of -15°C. The condensing unit reduces the speed of the outdoor fan to adapt the heat exchange to the prohibitive ambient conditions, while keeping the cooling function active. This feature makes it easy to air-condition rooms in any season.
- **Guaranteed operation**: the multi-split outdoor units continue to operate correctly even when the supply voltage is unstable. Within the supply voltage range from 150 V to 260 V, operation remains stable.
- **On-board unit diagnostics**: when necessary, it is possible to access the on-board unit display to quickly identify any notification codes without needing to access the individual indoor units. Consulting the maintenance manual at the same time simplifies field verification operations.

Example wiring diagram Outdoor Multi + 2 Indoor Units



W: not required

			EXT 2M42R	EXT 2M53R	EXT 3M62R	EXT 3M80R1	EXT 4M82R	EXT 4M105R	EXT 5M120R
Connectable indoor units			2	2	3	3	4	4	5
Cooling	Nominal cooling capacity	kW	4,10	5,27	6,29	7,91	8,18	10,54	12,30
		BTU/h	14.000	18.000	21.000	27.000	28.000	36.000	42.000
	Minimum cooling capacity	kW	1,50	2,28	2,0	3,18	2,34	3,64	3,01
		BTU/h	5.100	7.800	6.800	10.850	8.000	12.430	10.300
	Maximum cooling capacity	kW	4,98	5,71	6,59	8,20	10,02	10,84	12,30
		BTU/h	17.000	19.500	22.500	28.000	34.200	37.000	42.000
	Power input	kW	1,27	1,63	1,95	2,45	2,55	3,81	3,81
	Absorbed current	A	5,52	7,10	9,00	13,70	11,00	15,00	16,00
	E.E.R.	W/W	3,23	3,23	3,23	3,23	3,23	3,23	3,23
	S.E.E.R. - Energy Class	W/W	5.6 - A+	6.1 - A++	6.1 - A++	6.1 - A++	6.1 - A++	6.2 - A++	6.1 - A++
Heating	Rated heating capacity	kW	4,39	5,56	6,44	8,20	8,79	10,84	12,30
		BTU/h	15.000	19.000	22.000	28.000	30.000	37.000	42.000
	Minimum heating capacity	kW	1,52	2,40	2,0	2,28	2,37	2,85	3,45
		BTU/h	5.200	8.200	6.800	7.800	8.100	9.730	11.800
	Maximum heating output	kW	4,98	5,74	6,68	8,5	10,49	12,01	12,30
		BTU/h	17.000	19.600	22.800	29.000	35.800	41.000	42.000
	Power input	kW	1,18	1,39	1,78	2,10	2,05	2,76	3,30
	Absorbed current	A	5,15	6,1	8,5	12,5	9,0	12,1	14,6
	C.O.P.	W/W	3,71	3,71	3,71	3,71	4,0	3,93	3,73
	S.C.O.P. Medium range	W/W	3.8 - A	3.8 - A+	4.0 - A+	4.0 - A+	3.8 - A	3.8 - A	3.5 - A
	S.C.O.P. Warm climate zone	W/W	4.6 - A++	5.1 - A+++	4.8 - A++	5.1 - A+++	4.6 - A++	5.2 - A+++	5.1 - A+++
Compressor	Type		Rotary Inverter						
	Number		1						
	Refrigerant oil (type)		ESTER OIL VG74						
	Refrigerant oil (quantity)	ml	440	440	440	670	670	1000	1000
Power supply *	Voltage, Phases, Frequency	V~, Ph, Hz	230, 1, 50						
	Maximum absorbed power	W	2.750	3.050	3.910	4.100	4.150	4.600	4.700
	Maximum absorbed current	A	12	13	17	18	19	21,5	22
Refrigerant	Type		R32						
	Refrigerant quantity	kg	1100	1250	1500	1720	2100	2100	2900
	Refrigerant quantity in tons of CO2 equivalent (GWP)	Ton	675						
	Maximum length with standard charge	m	2x7.5 (15 m)		3x7.5+7.5+7.5 (22.5m)		4x7.5+7.5+7.5 (30m)		5x7.5 (37.5m)
	Additional load	g/m	12 (>15 m)		12 (>22.5m)		12 (>30m)		12 (>37.5m)
	Maximum height difference between outdoor and indoor unit	m	15	15	15	15	15	15	15
	Maximum length with additional charge	m	40	40	60	60	80	80	80
	Maximum length for each unit	m	25	25	30	30	35	35	35
	Height difference between indoor units	m	10	10	10	10	10	10	10
	Minimum recommended line length	m	3,5	3,5	3,5	3,5	3,5	3,5	3,5
	Gas connections (1)	mm	Ø9,53				Ø3x9.53 + 1x12.7		
		inch	3/8"				3x3/8" + 1 x1/2"		
	Liquid connections	mm	Ø6,53				4x Ø6.35		
		inch	1/4"				4x1/4"		5x1/4"
Outdoor unit fans	Type		Axial						
	Number		1						
	Rated power	W	34	34	80	80	120	120	120
	Nominal air flow rate	m^3/h	2100	2100	3000	3000	3800	4000	3850
Operating limits	Outdoor temperature in cooling min/max	°C	-15 / +50						
	Outdoor temperature in heating min/max	°C	-15 / +24						
Sound data	Sound pressure level of outdoor unit	dB(A)	56	54	58	58	61,5	61	64
	Sound power level of outdoor unit	dB(A)	64	65	65	67	67	67	69
Dimensional data	Net dimensions (WxHxD)	mm	877x554x317		895x673x348		1.034x810x403		
	Net weight	Kg	31,8	35,5	46,8	51,1	62,1	68,8	74,1

***** Data required for sizing the wiring and safety devices
Performance data referring to the use of 26-size indoor units, no height difference, pipe length 5 m.(1) Refer to the indoor units table for the piping section.

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