Duct Multisplit

Ductable indoor unit with DC fan, Wi-Fi

2.1 kW÷5.3 kW

MULTISPLIT



STANDARD WI-FI

AIRSET-C WIRED REMOTE CONTROLLER included

CONDENSATE DRAIN PUMP

REMOTE ON/OFF INPUT

FRESH AIR ACTIVATION CONTACT

ALARM SIGNALLING CONTACT

FREE INSTALLATION sizes 53 / 71 only

AUTOMATIC DIAGNOSIS

AUTOMATIC DEFROST

AUTO RE-START

CONDENSATION CONTROL

DC INVERTER FAN MOTOR

FRESH AIR INTAKE PROVISION

ESP SETTINGS

Accessories



Airset-C wired remote control
Included



Infrared remote control with wall-mount support
Accessory supplied separately

			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	m^3/h	620 / 540 / 450	660 / 570 / 470	660 / 570 / 470	900 / 780 / 650	1200 / 1000 / 700
	Rated available static pressure	Pa	25	25	25	25	25
	Useful static pressure range	Pa	0 - 80	0 - 80	0 - 100	0 - 160	0 - 160
Indoor unit heat exchanger	Internal heat exchanger type		Copper - Aluminum				
	Nominal outside diameter	mm	7	7	5	5	5
	Rows	no.	3				
	Circuits	no.	3	3	5	6	9
	Heat exchanger fin		Hydrophilic aluminum				
Electrical data	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.

Outdoor Multisplit Units

DC inverter multi-split from 2 to 5 indoor units

4.1 kW÷12.3 kW

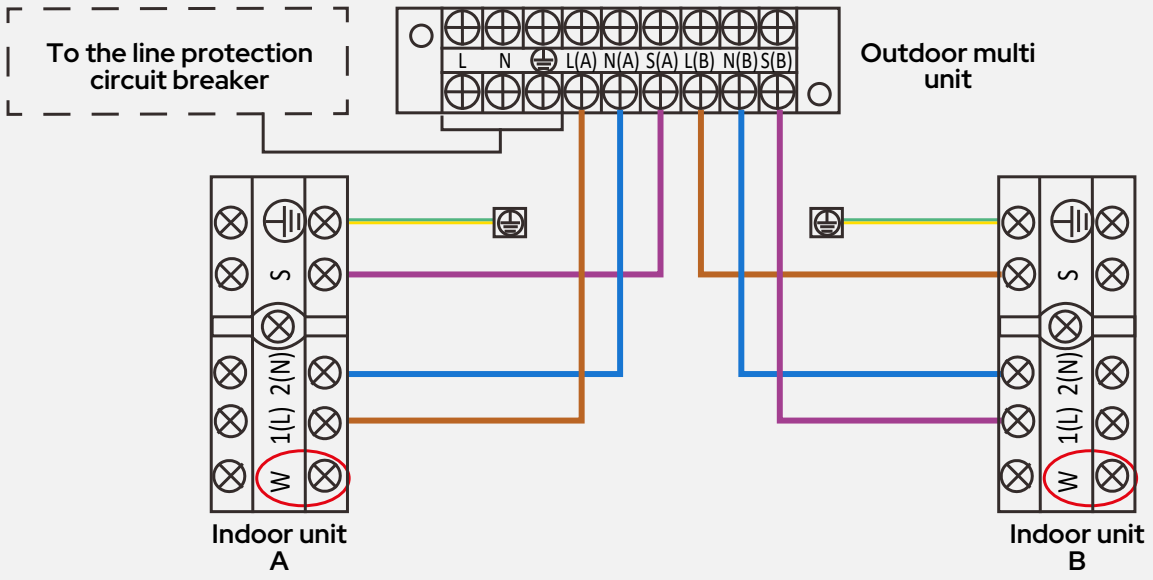
MULTISPLIT



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

Commercial Monosplit Duct

Ductable indoor unit with DC fan, Wi-Fi

2.6 kW÷5.3 kW

COMMERCIAL



STANDARD WI-FI

AIRSET-C WIRED REMOTE CONTROLLER included

CONDENSATE DRAIN PUMP

REMOTE ON/OFF INPUT

FRESH AIR ACTIVATION CONTACT

ALARM SIGNALLING CONTACT

FREE INSTALLATION only sizes 53 and 71

AUTOMATIC DIAGNOSIS

AUTOMATIC DEFROST

AUTO RE-START

CONDENSATION CONTROL

DC INVERTER FAN MOTOR

FRESH AIR INTAKE PROVISION

ESP SETTINGS

COMPATIBLE WITH PARALLEL SYSTEM

Accessories



Airset-C
Included



Infrared remote control with wall-mount support
Accessory supplied separately



Smart Wi-Fi Gateway Port
Accessory supplied separately

			DUCT26R2	DUCT35R2	DUCT53R2	DUCT71R2
Cooling	Cooling capacity	kW	2,64	3,51	5,27	7,03
		BTU/h	9.000	12.000	18.000	24.000
	Electrical power input *	kW	0,72	1,85	1,53	2,19
	Current drawn *	A	3,2	4,75	7,1	10,20
	S.E.E.R.	W/W	6.5 - A++	6.3 - A++	6.5 - A++	6.2 - A++
Heating	Heating capacity	kW	2,93	3,81	5,57	7,62
		BTU/h	10.000	13.000	19.000	26.000
	Electrical power input *	kW	0,85	1,03	1,51	1,90
	Current drawn *	A	3,81	4,52	6,8	9,2
	S.C.O.P. Medium range	W/W	4.1 - A+	4.0 - A+	4.0 - A+	4.0 - A+
	S.C.O.P. Warm climate zone	W/W	5.1 - A+++	5.1 - A+++	5.1 - A+++	5.1 - A+++
Indoor unit fans	Number		1			
	Nominal air flow rate	m^3/h	620/540/450	660/570/470	900/780/650	1200/1000/700
	Rated available static pressure	Pa	25	25	25	25
	Available static pressure (range)	Pa	0 - 80	0 - 100	0 - 160	0 - 160
Indoor unit heat exchanger	Internal heat exchanger type		Copper Tube / Aluminum Fins			
	Nominal outside diameter	mm	7	5	5	5
	Rows	no.	3			
	Circuits	no.	3	5	6	9
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50			
Sound data	Sound pressure level	dB(A)	35/33/31	35/33/31	36,5/34/31	33,5/32,5/31
	Sound power level	dB(A)	54	52	53	56
Maximum pipe length		m	≤ 25	≤ 25	≤ 30	≤ 50
Height difference between units		m	≤ 10	≤ 10	≤ 20	≤ 25
Refrigerant line diameters	Gas connections	mm	Ø9.53	Ø9.53	Ø12.7	Ø15.9
		inch	3/8"	3/8"	1/2"	5/8"
	Liquid connections	mm	Ø6.35	Ø6.35	Ø6.35	Ø9.53
		inch	1/4"	1/4"	1/4"	3/8"
Dimensional data	Net dimensions (WxHxD)	mm	700x200x506	700x200x506	880x210x674	1.100x249x774
	Net weight	kg	16,6	16,6	24,4	31,8

(*) Value refers to the sum of the power input of the outdoor unit + indoor unit (separate power supplies)
(1) Evaluated at the nominal air flow rate, overcoming only the pressure drop of the coil
(2) Combined with single-phase outdoor unit

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.

Commercial Monosplit Duct

Ductable indoor unit with DC fan, Wi-Fi

2.6 kW÷5.3 kW

COMMERCIAL



STANDARD WI-FI

AIRSET-C WIRED REMOTE CONTROLLER included

CONDENSATE DRAIN PUMP

REMOTE ON/OFF INPUT

FRESH AIR ACTIVATION CONTACT

ALARM SIGNALLING CONTACT

FREE INSTALLATION only sizes 53 and 71

AUTOMATIC DIAGNOSIS

AUTOMATIC DEFROST

AUTO RE-START

CONDENSATION CONTROL

DC INVERTER FAN MOTOR

FRESH AIR INTAKE PROVISION

ESP SETTINGS

COMPATIBLE WITH PARALLEL SYSTEM

			DUCT105R2(2)	DUCT105R2	DUCT130R2	DUCT176R2
Cooling	Cooling capacity	kW	10,5	10,6	14,07	15,24
		BTU/h	36.000	36.000	48.000	52.000
	Electrical power input *	kW	3,95	3,90	4,5	5,25
	Current drawn *	A	17,5	6	7	8,1
	S.E.E.R.	W/W	6.3 - A++	6.1 - A++	6.1 - A++	6.1 - A++
Heating	Heating capacity	kW	11,72	11,72	16,12	18,18
		BTU/h	40.000	40.000	55.000	62.000
	Electrical power input *	kW	3,25	3,30	4,6	5,15
	Current drawn *	A	14,5	5,3	8	8,5
	S.C.O.P. Medium range	W/W	4.1 - A+	4.0 - A+	4.0 - A+	4.0 - A+
	S.C.O.P. Warm climate zone	W/W	5.1 - A+++	5.1 - A+++	5.1 - A+++	5.1 - A+++
Indoor unit fans	Number		1			
	Nominal air flow rate	m^3/h	1700/1400/1100	1700/1400/1100	2000/1700/1300	2200/1900/1500
	Rated available static pressure	Pa	37	37	50	50
	Available static pressure (range)	Pa	0 - 160	0 - 160	0 - 160	0 - 160
Indoor unit heat exchanger	Internal heat exchanger type		Copper Tube / Aluminum Fins			
	Nominal outside diameter	mm	7	7	7	7
	Rows	no.	3	3	4	4
	Circuits	no.	9	9	9	9
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50			
Sound data	Sound pressure level	dB(A)	39/37/34	39/37/34	43.5/41.5/39.5	44.5/43/41.5
	Sound power level	dB(A)	62	62	65	66
Maximum pipe length		m	≤ 50	≤ 75	≤ 75	≤ 75
Height difference between units		m	≤ 25	≤ 30	≤ 30	≤ 30
Refrigerant line diameters	Gas connections	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9
		inch	5/8"	5/8"	5/8"	5/8"
	Liquid connections	mm	Ø9.53	Ø9.53	Ø9.53	Ø9.53
		inch	3/8"	3/8"	3/8"	3/8"
Dimensional data	Net dimensions (WxHxD)	mm	1,200x245x750	1,200x245x750	1,200x245x750	1.200x300x750
	Net weight	kg	38,4	38,4	40,4	42,9

(*) Value refers to the sum of the power input of the outdoor unit + indoor unit (separate power supplies)
(1) Evaluated at the nominal air flow rate, overcoming only the pressure drop of the coil
(2) Combined with single-phase outdoor unit

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.

Commercial Monosplit Outdoor Units

DC inverter

3.5 kW÷16.1 kW

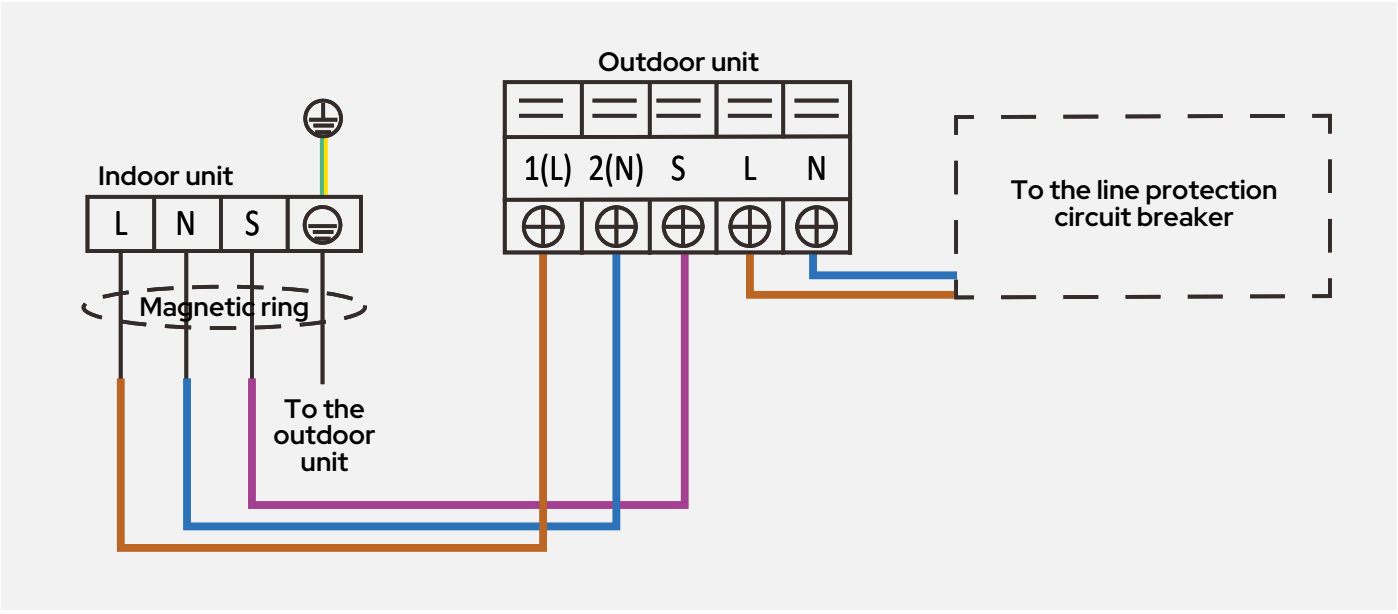
COMMERCIAL

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.
- 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.
- **Guaranteed operation**: commercial outdoor units operate normally even when the supply voltage is unstable.
- **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.
- **High performance**: The outdoor unit electronics are cooled by the refrigerant gas to significantly improve the performance and stability of the outdoor unit in the presence of high ambient temperatures. This technology can improve heat dissipation by up to 500%. The electrical panel of the outdoor unit has been equipped with as many as 4 ventilation grilles for better heat dissipation. The new compressor ensures stable performance even under high outdoor temperature conditions (models 71 to 176 only).

Example wiring diagram Outdoor Mono Commercial (single-phase) + Indoor

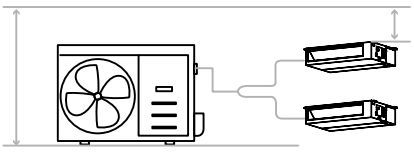


			UECS 26R2	UECS 35R	UECS 53R	UECS 71R2	UECS 105R-1	UECS 105R	UECS 130R2	UECS 176R2
Compressor	Type		Rotary Inverter							
	Number		1							
	Refrigerant oil (type)		ESTER OIL VG74							
	Refrigerant oil (quantity)	ml	300	300	440	620	1000	1000	1400	1400
Power supply	Power supply	V~, Ph, Hz	230, 1, 50	230, 1, 50	230, 1, 50	230, 1, 50	230, 1, 50	380, 3, 50	380, 3, 50	380, 3, 50
Refrigerant	Type		R32							
	Refrigerant quantity	kg	650	710	1150	1400	2400	2400	2900	3200
	Refrigerant quantity in tons of CO2 equivalent (GWP)	Ton	675							
	Maximum length with standard charge	m	5	5	5	5	5	5	5	5
	Additional load	g/m	12	12	12	24	24	24	24	24
	Maximum height difference between outdoor and indoor unit	m	10	10	20	25	30	30	30	30
	Maximum length with additional charge	m	25	25	30	50	75	75	75	75
	Height difference between indoor units	m	10	10	20	25	30	30	30	30
	Gas connections (1)	mm	Ø9.53		Ø12.7	Ø15.9				
		inch	3/8”		1/2”	5/8”				
	Liquid connections	mm	Ø6.35			Ø9.53				
		inch	1/4”			3/8”				
Outdoor unit fans	Type		Axial							
	Number		1							
	Nominal air flow rate	m^3/h	2.200	2.200	2.100	3.500	4.000	4.000	5.600	7.500
Operating limits	Outdoor temperature in cooling min/max	°C	-15 / +50	-15 / +50	-15 / +50	-15 / +50	-15 / +50	-15 / +50	-15 / +50	-15 / +50
	Outdoor temperature in heating min/max	°C	-20 / +24	-20 / +24	-20 / +24	-20 / +24	-20 / +24	-20 / +24	-20 / +24	-20 / +24
Sound data	Sound pressure level outdoor unit	dB(A)	53,5	55,5	59	60	60	65	64,5	64
	Sound power level outdoor unit	dB(A)	62	53,6	59	60	63	63	63,5	75
Dimensional data	Net dimensions (WxHxD)	mm	835x555x274		874x554x 307	955x675x 325	1,030x810x410		1.073x975x397	
	Net weight	Kg	24,6	24,6	32,5	41,9	80,5	66,9	90	92

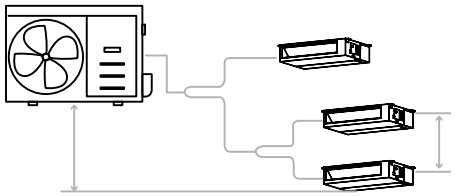
Performance data referring to the use of 26-size indoor units, no height difference, pipe length 5 m.
(1) Refer to the indoor units table for the piping section.
Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. – outdoor 35°C d.b. / 24°C w.b. – Heating test conditions: indoor 20°C d.b. – outdoor 7°C d.b. / 6°C w.b.
For system power consumption, refer to the outdoor unit nameplate

Parallel Systems

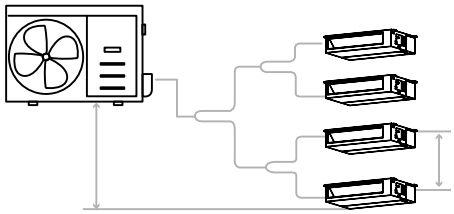
Double parallel system



Triple parallel system



Four-unit parallel system



Refer to the dedicated page of the following catalogue for details.