Commercial Monosplit Floor Standing

DC fan floor-standing indoor unit

2.1 kW÷5.3 kW

COMMERCIAL

AUTOMATIC DIAGNOSIS | AUTOMATIC DEFROST | AUTO RE-START | EDGE DISPLAY MACHINE | AUTOMATIC PANEL OPENING



			CLN130R
Cooling	Cooling capacity	kW	14,06
		BTU/h	48.000
	Electrical power input *	kW	4,95
	Current drawn *	A	8,00
	S.E.E.R.	W/W	6.1 - A++
Heating	Heating capacity	kW	16,11
		BTU/h	55.000
	Electrical power input *	kW	5,10
	Current drawn *	A	8,5
	S.C.O.P. Medium range	W/W	4.0 - A+
Indoor unit fans	Number		1
	Nominal air flow rate	m^3/h	2413/2222/2027
Indoor unit heat exchanger	Internal heat exchanger type		Copper Tube / Aluminum Fins
	Nominal outside diameter	mm	7
	Rows	no.	3
	Circuits	no.	7
Electrical data	Power supply	V~, Ph, Hz	230, 1, 50
Sound data	Sound pressure level	dB(A)	53/50/48
	Sound power level	dB(A)	67
Pipe length		m	75
Height difference between units		m	30
Refrigerant line diameters	Gas connections	mm	Ø15,9
		inch	5/8"
	Liquid connections	mm	Ø9.53
		inch	3/8"
Dimensional data	Net dimensions (WxHxD)	mm	1935x629x456
	Net weight	kg	59

(*) Value refers to the sum of the power input of the outdoor unit + indoor unit (separate power supplies)
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

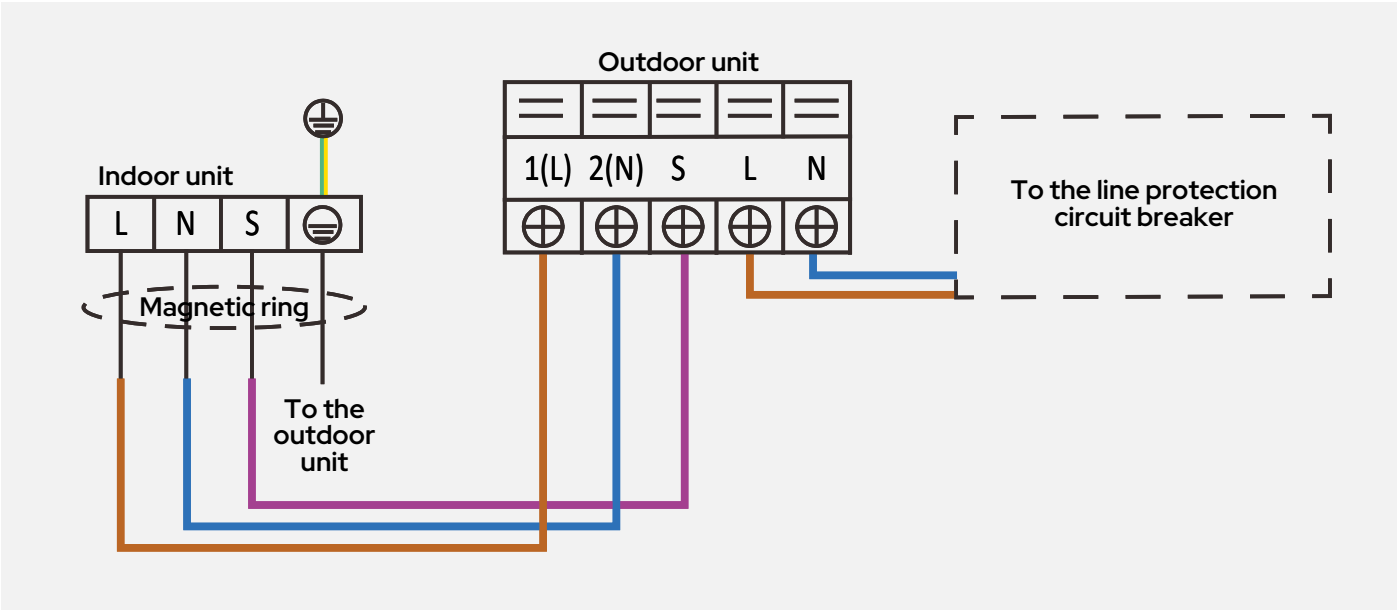
COMMERCIAL

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

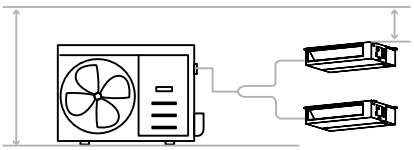


			UECS 26R2	UECS 35R	UECS 53R	UECS 71R2	UECS 105R-1	UECS 105R	UECS 130R2	UECS 176R2
Compressor	Type		Rotary Inverter							
	Number		1							
	Refrigerant oil (type)		ESTER OIL VG74							
	Refrigerant oil (quantity)	ml	300	300	440	620	1000	1000	1400	1400
Power supply	Power supply	V~, Ph, Hz	230, 1, 50	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

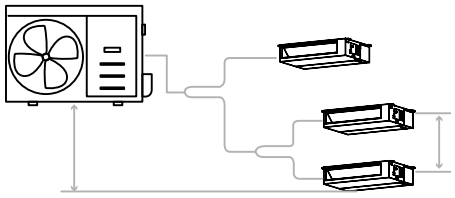
Performance data referring to the use of 26-size indoor units, no height difference, pipe length 5 m.
(1) Refer to the indoor units table for the piping section.
Cooling test conditions: indoor 27°C d.b. / 19.5°C w.b. – outdoor 35°C d.b. / 24°C w.b. – Heating test conditions: indoor 20°C d.b. – outdoor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

Parallel Systems

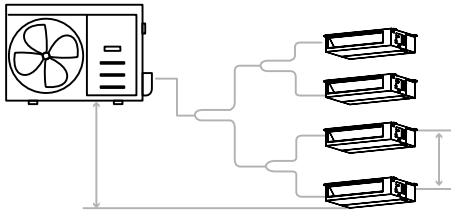
Double parallel system



Triple parallel system



Four-unit parallel system



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