

DUCT 2 35M ÷ 160M



A++ A+

COMFORT



Stepless control compressor



Silent



Anti-cold air



Temperature Compensation

RELIABILITY



Self-diagnosis Function



Emergency Function



Auto Defrosting



Condensate drain pump



Opposite fan rotation

CONVENIENCE



Remote On/Off



Error Alarm Port



Auto-restart

ENERGY SAVING



Sleep



Gear

HEALTH



Fresh Air



i-Clean

OPTIONAL



Wired controller



Centralised control



BMS Communication



WiFi Control



Wi-Fi
WF-60A1-C
(optional)



WIRED REMOTE CONTROL
KJR-120X2-TFBG-E
(optional)



REMOTE CONTROL
RG10A-D2S-BGEF
(standard)



ID3-XY



MC3-Y

technical data

Set				35M	53M	70M	88M	105M	120M	105T	140T	160T
Cooling capacity	Standard (Min.÷Max.)		Btu/h	12.000 (1.800÷13.600)	18.000 (8.700÷20.000)	24.000 (11.200÷27.800)	30.000 (7.600÷33.600)	36.000 (9.400÷38.000)	41.000 (10.000÷42.000)	36.000 (9.300÷40.200)	48.000 (12.000÷53.000)	52.000 (14.000÷59.000)
	Standard (Min.÷Max.)		kW	3,52 (0,53÷4,00)	5,28 (2,55÷5,86)	7,03 (3,28÷8,16)	8,79 (2,23÷9,85)	10,6 (2,75÷11,1)	12,0 (2,93÷12,3)	10,6 (2,73÷11,8)	14,1 (3,52÷15,5)	15,2 (4,10÷17,3)
Heating capacity	Standard (Min.÷Max.)		Btu/h	13.000 (3.400÷15.000)	19.000 (7.500÷21.000)	26.000 (9.600÷29.000)	32.000 (9.200÷34.200)	40.000 (9.500÷43.600)	46.000 (11.500÷48.000)	40.000 (9.500÷43.800)	55.000 (14.000÷62.000)	62.000 (15.000÷70.000)
	Standard (Min.÷Max.)		kW	3,81 (1,00÷4,39)	5,57 (2,20÷6,15)	7,62 (2,81÷8,49)	9,38 (2,70÷10,0)	11,7 (2,78÷12,8)	13,5 (3,37÷14,1)	11,7 (2,78÷12,8)	16,1 (4,10÷18,2)	18,2 (4,40÷20,5)
Standard power supply	Cooling	Standard (Min.÷Max.)	W	1.053 (155÷1.373)	1.530 (710÷2.150)	2.190 (750÷2.960)	2.500 (190÷3.050)	3.950 (900÷4.150)	4.200 (680÷4.500)	4.000 (890÷4.200)	4.800 (880÷6.000)	5.250 (1.030÷6.650)
	Heating	Standard (Min.÷Max.)	W	1.038 (302÷1.390)	1.510 (740÷1.760)	1.900 (640÷2.580)	2.250 (430÷2.450)	3.250 (800÷3.950)	3.450 (750÷4.100)	3.250 (780÷4.000)	4.500 (950÷5.700)	5.150 (950÷6.600)
Standard current input	Cooling	Standard (Min.÷Max.)	A	4,75 (1,30÷6,09)	7,10 (3,20÷9,56)	10,2 (4,20÷13,2)	11,0 (2,00÷13,5)	17,5 (4,20÷18,5)	18,8 (3,10÷19,8)	6,50 (1,40÷6,70)	8,40 (1,90÷10,4)	9,60 (3,10÷11,5)
	Heating	Standard (Min.÷Max.)	A	4,52 (1,48÷6,15)	6,80 (3,30÷7,70)	9,20 (3,80÷11,6)	10,0 (3,00÷10,7)	14,5 (3,50÷17,5)	15,5 (3,40÷18,3)	5,30 (1,30÷6,40)	8,00 (2,00÷9,80)	9,05 (2,00÷11,5)
Seasonal efficiency ¹	Cooling	Energy class	-	A++	A++	A++	A++	A++	A++	A++	A++	A++
		Design load (Pdesign)	kW	3,50	5,30	7,00	8,80	10,5	12,1	10,5	14,0	15,3
		SEER	-	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10
		Annual energy consumption	kWh/a	197	291	401	474	593	700	608	811	900
	Heating Average season	Energy class	-	A+	A+	A+	A+	A+	A+	A+	A+	A+
		Design load (Pdesign)	kW	2,60	4,30	5,40	8,00	8,40	9,50	8,80	11,5	12,5
		SCOP	-	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00
		Annual energy consumption	kWh/a	945	1.505	1.890	2.800	2.940	3.350	3.080	4.025	4.390
Heating Warmer season	Energy class	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A++	A+++	
	SCOP	-	5,10	5,10	5,10	5,10	5,10	5,10	5,10	5,00	5,10	
Standard efficiency ²	EER	-	3,34	3,45	3,23	3,52	3,27	2,86	3,28	2,93	2,90	
	COP	-	3,71	3,71	4,01	4,17	3,71	3,91	3,71	3,58	3,53	

Indoor unit			ID3-XY	35M	53M	70M	88M	105M	120M	105M	140M	160M
Article code				89092219	89132211	89102201	89112238	89112241	87032229	89112241	89112243	89092248
Dimensions	Unit	L x D x H	mm	700x450x200	880x600x210	1100x700x249	1360x700x249	1360x700x249	1200x800x300	1360x700x249	1200x800x300	1200x800x300
	Packaging (Unit)	L x D x H	mm	860x540x285	1070x725x280	1305x805x315	1570x805x330	1570x805x330	1405x915x365	1570x805x330	1405x915x365	1405x915x365
Weight	Unit / Packaging		kg	17,8/21,5	24,4/29,6	32,3/39,1	40,5/48,3	40,5/48,2	47,6/55,8	40,5/48,2	47,6/55,8	47,4/56,1
Air filter	Type		-					R/W				
Air flow rate		Hi/Mid/Lo	m³/h	600/480/300	911/706/515	1229/1035/825	2100/1800/1500	2100/1800/1500	2400/2040/1680	2100/1800/1500	2400/2040/1680	2600/2210/1820
External static pressure		Std (Min~Max)	Pa	25 (0÷60)	25 (0÷100)	25 (0÷160)	37 (0÷160)	37 (0÷160)	50 (0÷160)	37 (0÷160)	50 (0÷160)	50 (0÷160)
Sound power		Hi	dB(A)	58	58	62	64	61	67	61	66	66
Sound pressure level		Hi/Mid/Lo	dB(A)	35/32/30	42/39/35	49/46/41	51/48/46	50/48/46	52/49/48	51/49/47	52/49/47	53/49/47
Control systems	Infrared remote control		-					RG10A-D2S-BGEF				
	Settable temperature		°C					16÷30				
Power supply	Voltage/Frequency/Phases		V/Hz/n°					230 / 50 / 1				

¹ SEER and SCOP data, relative energy ratings and annual energy consumption in conformity to the EN 14825 standard measurement.
² EER/COP values declared only for tax deductions in force at the time this document was written
R/W = Removable/Washable

Test conditions:
according to EN14511 / EN12102
Cooling: indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°C WB;
Heating: indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°C WB.
Data declared according to UE 626/2011 delegated regulation

Outdoor unit			MC3-Y	35M	53M	70M	88M	105M	120M	105T	140T	160T
Article code				89092252	89112214	89092257	89112230	89092274	87032230	89122200	88072255	89102239
Dimensions	Unit	L x D x H	mm	765x303x555	805x330x554	890x342x673	946x410x810	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
	Packaging	L x D x H	mm	887x337x610	915x370x615	995x398x740	1090x500x885	1090x500x885	1090x500x885	1090x500x885	1095x495x1480	1095x495x1480
Weight	Unit / Packaging		kg	26,6/29,0	32,5/35,2	43,9/46,9	52,8/57,3	66,9/71,5	71,0/75,0	80,5/85,0	103,7/118,3	107,0/121,2
Sound power		Nominal	dB(A)	62	65	69	70	70	72	70	74	75
Sound pressure level		Nominal	dB(A)	54	56	60	62	63	63	63	64	64
Operating Voltage Range	Cooling	Indoor T.	°C					16÷32				
		Outdoor T.	°C					-15÷50				
	Heating	Indoor T.	°C					0÷30				
		Outdoor T.	°C					-15÷24				
Refrigerant	Type/GWP		-					R-32 / 675				
Power supply	Voltage/Frequency/Phases		V/Hz/n°				230 / 50 / 1				400 / 50 / 3 + N	
Current - 50Hz	Maximum fuse capacity (MFA)		A		20			30			25	

refrigerant piping and connections

Set			35M	53M	70M	88M	105M	120M	105T	140T	160T
Max equivalent length			m	25	30	50	50	75	75	75	75
Max difference in level ODU / IDU			m	±10	±20	±25	±25	±30	±30	±30	±30
Refrigerant precharge			kg / m	0,72 / 5	1,15 / 5	1,5 / 5	2,0 / 5	2,4 / 5	2,8 / 5	2,9 / 5	3,0 / 5
External diameters	Liquid	mm / inch	Φ6,35 - 1/4"	Φ6,35 - 1/4"	Φ9,52 - 3/8"	Φ9,52 - 3/8"	Φ9,52 - 3/8"	Φ9,52 - 3/8"	Φ9,52 - 3/8"	Φ9,52 - 3/8"	Φ9,52 - 3/8"
	Gas	mm / inch	Φ9,52 - 3/8"	Φ12,7 - 1/2"	Φ15,9 - 5/8"	Φ15,9 - 5/8"	Φ15,9 - 5/8"	Φ15,9 - 5/8"	Φ15,9 - 5/8"	Φ15,9 - 5/8"	Φ15,9 - 5/8"

electrical connections

Set			35M	53M	70M	88M	105M	120M	105T	140T	160T
ODU	Power supply	V/Hz/n°	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3
		no. of cables	2 + G	2 + G	2 + G	2 + G	2 + G	2 + G	4 + G	4 + G	4 + G
IDU	Power supply	V/Hz/n°	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1
		no. of cables	2 + G	2 + G	2 + G	2 + G	2 + G	2 + G	2 + G	2 + G	2 + G
	Signal	no. of cables	1	1	1	1	1	1	1	1	1

accessoires

Standard	
RG10A-D2S-BGEF	Infrared remote control for indoor units CRISTALLO 2 / EZCool / BOX 2 / CONSOLE 3 / DUCT 2 / C&F 2
Optionals	
WF-60A1-C	Smart port kit for the hiwall indoor unit management via Wi-Fi (it includes the adaptor and the USB key)
Control systems	(learn more at Control System page)