



# condensing units

KOB30U 12 | 18 HFN32X • KOCA30U 24 HFN32  
KOD30U 36 HFN32 • KOD30U 36 HFJ32  
KOE30U 48 | 55 HFN32



Inverter condensing units are equipped with a control module that enables the connection of a universal outdoor unit to a freon heat exchanger in the air handling unit.

Such solution makes it possible to control the efficiency of the condensing unit by means of a 0-10V DC signal sent from the air handling unit control system. Both cooling and heating operation are possible. The units have built-in expansion valves, so that no additional refrigeration fittings are needed.

**Kaisai condensing units may only be used with AHUs equipped with protection devices suitable for R32 flammability characteristic.**



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# condensing units

## TECHNICAL SPECIFICATION

MODEL			KOB30-12HFN32X	KOB30-18HFN32X	KOCA30U-24HFN32
Capacity average (min÷max)	cooling	kW	3,5(1,5÷5,3)	5,3(2,7÷5,6)	7,0(3,2÷8,3)
	heating	kW	4,4(1,0÷5,6)	5,6(2,4÷6,3)	7,6(2,7÷8,7)
Energy class	cooling/heating		A++/A++	A++/A+	A++/A+
SEER	average	W/W	7,8	6,1	6,1
SCOP	average	W/W	4,6	4,0	4,0
Power input average (min÷max)	cooling	W	850(350÷1600)	1633(670÷1850)	2190(480÷2930)
	heating	W	1100(310÷1800)	1500(540÷1640)	2050(500÷2850)
Operation current average (min÷max)	cooling	A	3,8(1,6÷7,1)	7,2(3,2÷8,2)	10,0(2,1÷13,1)
	heating	A	5,0(1,4÷7,9)	6,6(2,7÷7,3)	9,5(2,2÷12,7)
Air flow		m³/h	2000	2000	2700
Operating temperature	cooling/heating	°C	-15÷50/-15÷24	-15÷50/-15÷24	-15÷50/-15÷24
Sound pressure level		dB(A)	55	55	62
Net dimensions w/h/d		mm	800/554/333	800/554/333	845/702/363
Transport dimensions w/h/d		mm	920/625/390	920/625/390	965/775/395
Net weight		kg	34,7	33,7	49,4
Transport weight		kg	37,5	36,6	52,8
Pipe diameter: liquid/gas		mm	6,35/9,52	6,35/12,7	9,52/15,9
Total length of installation		m	25	30	50
Max. level difference		m	10	20	25
Power supply		V/Hz/Ph	220÷240/50/1	220÷240/50/1	220÷240/50/1
Circuit breaker/fuse		A	10	16	20
Power supply lines		# of wires x mm²	3x2,5	3x2,5	3x2,5
Factory amount of refrigerant	< 5 m	kg	0,87	1,15	1,5
Additional amount of refrigerant	> 5 m	g/m	12	12	24



## TECHNICAL SPECIFICATION

MODEL			KOD30U-36HFJ32	KOD30U-36HFN32	KOE30U-48HFN32	KOE30U-55HFN32
Capacity average (min÷max)	cooling	kW	10,6(3,9÷12,0)	10,6(3,9÷12,0)	14,1(5,0÷15,1)	15,8(5,3÷17,0)
	heating	kW	11,1(2,8÷13,5)	11,1(2,8÷14,0)	16,1(3,8÷18,1)	18,2(4,4÷19,6)
Energy class	cooling/heating		A++/A+	A++/A+	A+/A+	A+/A+
SEER	average	W/W	6,1	6,1	6,1	6,1
SCOP	average	W/W	4,0	4,0	4,0	4,0
Power input average (min÷max)	cooling	W	3800(875÷4500)	3750(870÷4500)	5500(1158÷6003)	6063(1227÷6496)
	heating	W	3040(730÷4550)	3000(730÷4885)	5050(1026÷6200)	6036(1022÷6546)
Operation current average (min÷max)	cooling	A	16,7(4,1÷19,6)	5,8(1,2÷8,2)	9,1(1,8÷9,8)	10,5(1,9÷11,3)
	heating	A	14,0(2,8÷19,8)	4,8(1,2÷8,3)	8,14(1,6÷10,3)	9,9(1,6÷11,5)
Air flow		m³/h	4000	4000	7500	7500
Operating temperature	cooling/heating	°C	-15÷50/-15÷24	-15÷50/-15÷24	-15÷50/-15÷24	-15÷50/-15÷24
Sound pressure level		dB(A)	65	64	66	66
Net dimensions w/h/d		mm	946/810/410	946/810/410	952/1333/415	952/1333/415
Transport dimensions w/h/d		mm	1090/885/500	1090/885/495	1095/1480/500	1095/1480/500
Net weight		kg	66,8	81,5	106,7	111,3
Transport weight		kg	73,4	87,0	119,9	124,3
Pipe diameter: liquid/gas		mm	9,52/15,9	9,52/15,9	9,52/15,9	9,52/15,9
Total length of installation		m	65	65	65	65
Max. level difference		m	30	30	30	30
Power supply	V/Hz/Ph		220÷240/50/1	380÷420/50/3	380÷420/50/3	380÷420/50/3
Circuit breaker/fuse	A		25	16	16	16
Power supply lines	# of wires x mm²		3x4,0	5x2,5	5x2,5	5x2,5
Factory amount of refrigerant	up to 5 m	kg	2,4	2,4	2,8	2,95
Additional amount of refrigerant	over 5 m	g/m	24	24	24	24

## TECHNICAL SPECIFICATION



KOB30 12 I 18 HFN32X  
KOCA30U 24 HFN32  
KOD30U 36HFJ32  
KOD30U 36 HFN32



KOE30U 48 I 55 HFN32



Control modules  
KMS-8243\* & KMS-8140\*\*

\* for: KOCA30U 24 HFN32, KOD30U 36HFJ32, KOD30U 36 HFN32, KOE30U 48 I 55 HFN32 units \*\* for: KOB30-12 I 18 HFN32X units