

PRODUCT CATALOGUE



PROVIDING **GLOBAL SYSTEM** SOLUTIONS

DUCTED UNIT
AIRCOOLAIR



INTRODUCTION TO THE RANGE

The AIRCOOLAIR is a free-standing centrifugal fan unit with a separate helicoidal condenser unit. It is recommended for large spaces, particularly in all buildings where unobtrusive air conditioning installations are required, e.g. offices, hotels, museums.

It is offered in the following versions:

- ANCK, cooling only (8 sizes)
- ANHK heat pump (8 sizes)
- ANCK D2 cooling only - 2 indoor units with one outdoor unit (4 sizes)
- ANHK D2 heat pump - 2 indoor units with one outdoor unit (4 sizes)



CONSTRUCTION

- Outdoor condensing unit containing the cooling or heating section, with one or two circuits (E, D or D2) :
 - Sealed scroll compressor
 - Crankcase heater (ANHK models)
 - Galvanized sheet steel casing
 - Polyester paint finish
 - Axial fans IP-54
- Indoor unit, containing the air treatment section :
 - Galvanized sheet steel casing, with polyester paint finish
 - Class M1 insulation and toxicity classification F1
 - Centrifugal fan with variable pulley
 - Horizontal or vertical distribution options
 - Easily exchangeable and washable internal air filters

All components are easily accessible via removable panels.



CONTROL PANEL

- Conform to EN 60-204-1 standard
- Power contactors
- Fuse protection of compressors and fans
- Electronic control alarm and failure signals
- Operating mode signals
- Two wired remote control

OPTIONS

- On/off all-season operation
- Proportional all-season operation
- Main switch
- Electrical heater
- Hot water coil
- Three phase detector
- Softstarter
- Free-cooling
- Additional static pressure
- Condenser protection grille
- Corrosion proofed coils
- Hot gas by-pass
- Compressor jacket
- Low noise kit (including compressor jacket and all season kit)
- Manual valves
- Unit pre-filled with refrigerant

aNCK / ANHK 21 → 80 kW

GENERAL DATA

AIRCOOLAIR	ANCK / ANHK	24E	32E	38E	43E	48D	48D2	64D	64D2	76D	76D2	86D	86D2
Cooling mode													
Cooling capacity ⁽¹⁾	kW	21	27	35	40	42	42	55	55	71	71	80	80
Absorbed power ⁽¹⁾	kW	8,7	11,7	14,5	17,1	17,6	17,6	23,4	23,4	29,0	29,0	34,2	34,2
Heating mode													
Heating capacity ⁽³⁾	kW	22	30	37	43	44	44	60	60	74	74	86	86
Absorbed power ⁽³⁾	kW	7,7	10,7	12,7	15,4	15,9	15,9	21,4	21,4	25,4	25,4	30,8	30,8
Electrical data													
Voltage	V / Ph / Hz	400/3/50											
Maximum current	A	18	28	33	40	39	39	56	56	65	65	79	79
Start-up intensity	A	103	134	165	199	124	124	162	162	198	198	238	238
Refrigerant circuit data													
Number of circuits	Nbr	1	1	1	1	2	2	2	2	2	2	2	2
Number of compressors	Nbr	1	1	1	1	2	2	2	2	2	2	2	2
Compressors type	Type	Scroll											
Pipe connection	Liquid	5/8"	5/8"	3/4"	7/8"	2x5/8"	2x5/8"	2x5/8"	2x5/8"	2x3/4"	2x3/4"	2x7/8"	2x7/8"
	Gas	1 1/8"	1 1/8"	1 3/8"	1 5/8"	2 x 1 1/8"	2 x 1 1/8"	2 x 1 1/8"	2 x 1 1/8"	2 x 1 3/8"	2 x 1 3/8"	2 x 1 5/8"	2 x 1 5/8"
Indoor unit	LECK / LEHK	24E	32E	38E	43E	48D	2 x 24E	64D	2 x 32E	76D	2 x 38E	86D	2 x 43E
Maximum absorbed power													
Maxi. absorbed power ⁽¹⁾	kW	1,4	1,8	2	2,5	2,8	2,8	3,6	3,6	4	4	5	5
Electrical data													
Voltage	V / Ph / Hz	400/3/50											
Start-up intensity	A	12	19	19	38	27	27	37	37	37	37	76	76
Maximum current	A	3	4	4	6	5	5	7	7	7	7	12	12
Ventilation													
Minimum Airflow	m ³ /h	3900	4750	5800	6500	7800	2x3900	9500	2x4750	11600	2x5800	13000	2x6500
Maximum Airflow	m ³ /h	5100	6000	7300	8750	10200	2x5100	12000	2x6000	14600	2x7300	17500	2x8750
Maxi available static pressure	Pa	195	220	240	290	195	2 x 195	220	2 x 220	240	2 x 240	270	2 x 290
Drive kit	Type	Belt drive packaged with variable pulley											
Acoustic													
Sound pressure level ⁽²⁾	dB(A)	59	60	61	62	59	62	61	63	62	64	63	65
Outdoor unit	KNCK / KNHK	24E	32E	38E	43E	48D	48D2	64D	64D2	76D	76D2	86D	86D2
Maximum absorbed power													
Maxi. absorbed power ⁽¹⁾	kW	8,9	13,8	16,4	19,9	18,7	18,7	27,6	27,6	32,8	32,8	39,8	39,8
Electrical data													
Voltage	V / Ph / Hz	400/3/50											
Maximum current	A	16	25	29	34	34	34	49	49	58	58	67	67
Start-up intensity	A	101	131	162	193	119	119	155	155	191	191	226	226
Ventilation													
Airflow	m ³ /h	6300	11500	11000	10500	19000	19000	23000	23000	22000	22000	21000	21000
Acoustic													
Sound pressure level ⁽⁴⁾	dB(A)	51	53	55	54	51	51	56	56	58	58	57	57

(1) Inside temperature : 27°C D.B, 19°C W.B - Outside temperature : 35°C D.B, 24°C W.B

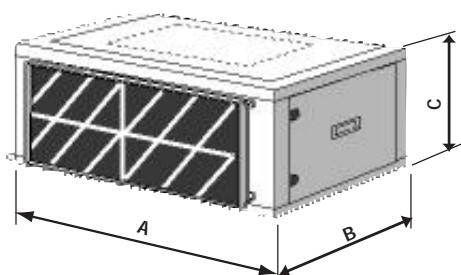
(2) Measured at 2 m from the unit

(3) Inside temperature : 20°C D.B, 12°C W.B - Outside temperature : 7°C D.B, 6°C W.B

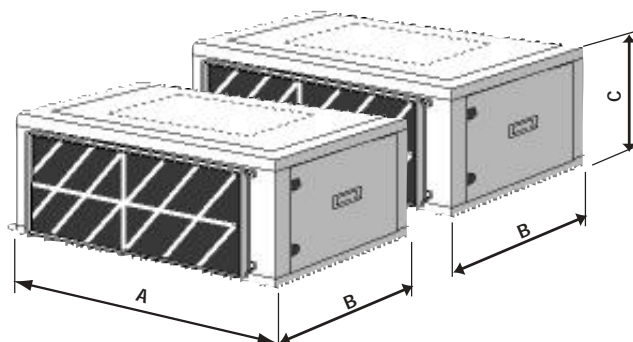
(4) Measured at 10 m from the unit, in free field conditions

PHYSICAL DATA

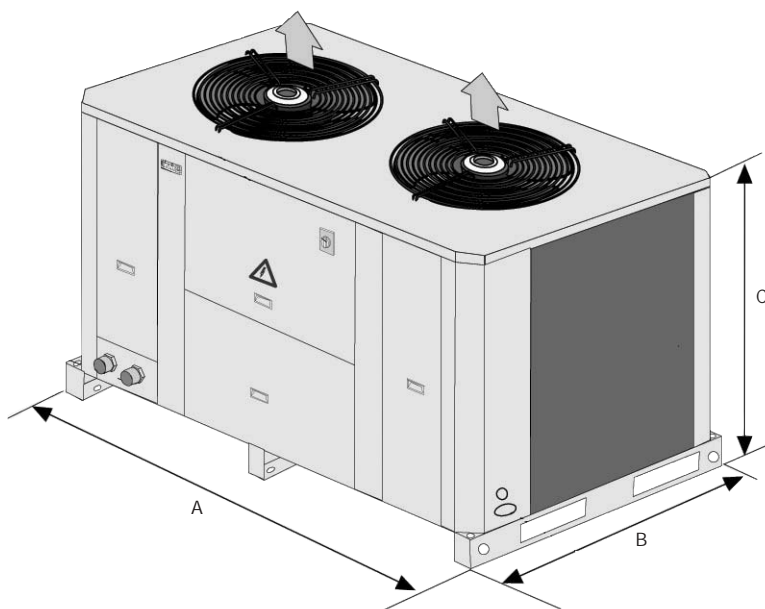
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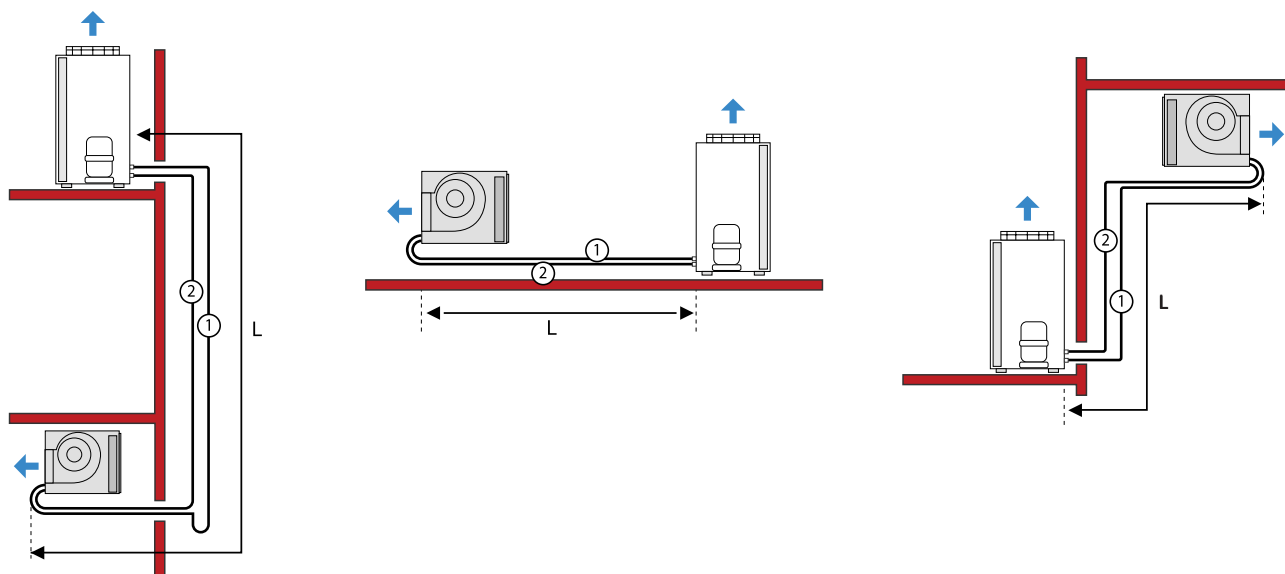
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AIRCOOLAIR Indoor unit	LECK / LEHK	24E	32E	38E	43E	48D	2 x 24E	64D	2 x 32E	76D	2 x 38E	86D	2 x 43E
View		1	1	1	1	1	2	1	2	1	2	1	2
A		1285	1285	1410	1570	2340	1285	2340	1285	2590	1410	3140	1570
B		803	803	803	803	803	803	803	803	803	803	803	803
C		665	665	665	665	665	665	665	665	665	665	665	665
Weight		105	110	145	150	220	2 x 105	240	2 x 110	265	2 x 145	270	2 x 150
AIRCOOLAIR Outdoor unit	KNCK / KNHK	24E	32E	38E	43E	48D	48D2	64D	64D2	76D	76D2	86D	86D2
View		3	3	3	3	3	3	3	3	3	3	3	3
A	mm	1195	980	980	980	1960	1960	1960	1960	1960	1960	1960	1960
B	mm	660	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195	1195
C	mm	1375	1375	1375	1375	1375	1375	1375	1375	1375	1375	1375	1375
Weight - cooling mode	kg	225	250	270	300	485	485	490	490	530	530	590	590
Weight - heating mode	kg	230	255	275	305	495	495	500	500	545	545	605	605



INSTALLATION AND REFRIGERATION CONNECTIONS



AIRCOOLAIR	ANCK / ANHK	24E	32E	38E	43E	48D	48D2	64D	64D2	76D	76D2	86D	86D2
Total length - 0 to 10 m													
Water pipe connection	Liquid	5/8"	5/8"	3/4"	7/8"	2 x 5/8"	2 x 5/8"	2 x 5/8"	2 x 5/8"	2 x 3/4"	2 x 3/4"	2 x 7/8"	2 x 7/8"
	Gas	1 1/8"	1 1/8"	1 3/8"	1 5/8"	2 x 1 1/8"	2 x 1 1/8"	2 x 1 1/8"	2 x 1 1/8"	2 x 1 3/8"	2 x 1 3/8"	2 x 1 5/8"	2 x 1 5/8"
Total length - 10 to 30 m													
Water pipe connection	Liquid	5/8"	3/4"	7/8"	7/8"	2 x 5/8"	2 x 5/8"	2 x 3/4"	2 x 3/4"	2 x 7/8"	2 x 7/8"	2 x 7/8"	2 x 7/8"
	Gas	1 1/8"	1 3/8"	1 5/8"	1 5/8"	2 x 1 1/8"	2 x 1 1/8"	2 x 1 3/8"	2 x 1 3/8"	2 x 1 5/8"	2 x 1 5/8"	2 x 1 5/8"	2 x 1 5/8"
Maximum vertical length													
Vertical length	m	16	16	16	16	16	16	16	16	16	16	16	16
Maximum total length													
Total length	m	50	50	50	50	50	50	50	50	50	50	50	50
Maximum number of bends	m	12	12	12	12	12	12	12	12	12	12	12	12

Remark : For a total length over 30 meters, please consult us.



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