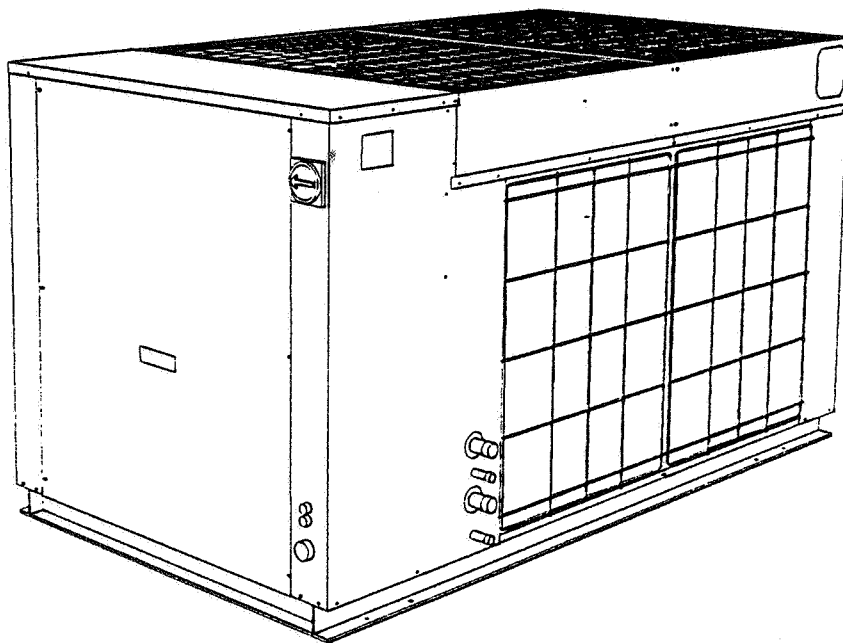


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# airconditioning

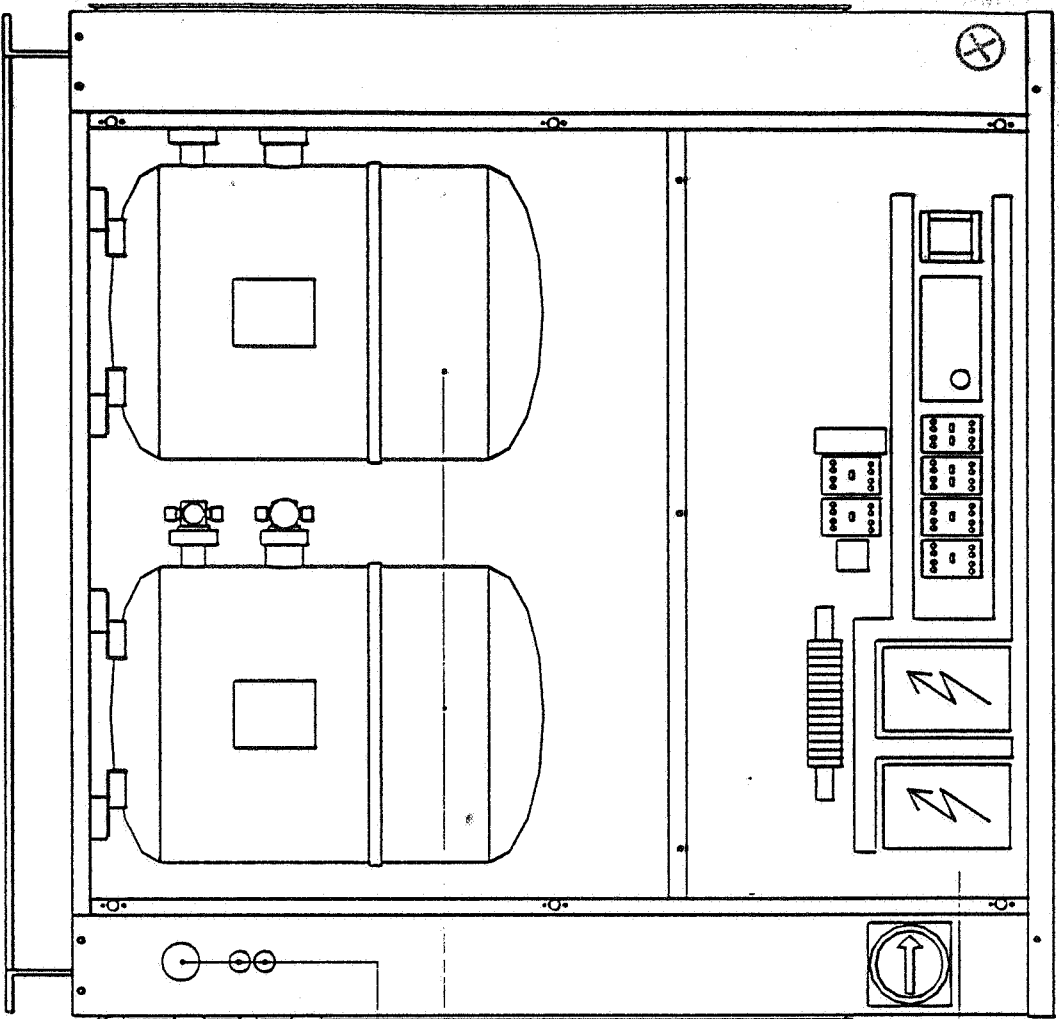
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**AIRCUBE-DUO KNA**

**17D-20D-30D**

Instructies voor de plaatsing en bediening  
Technische gegevens

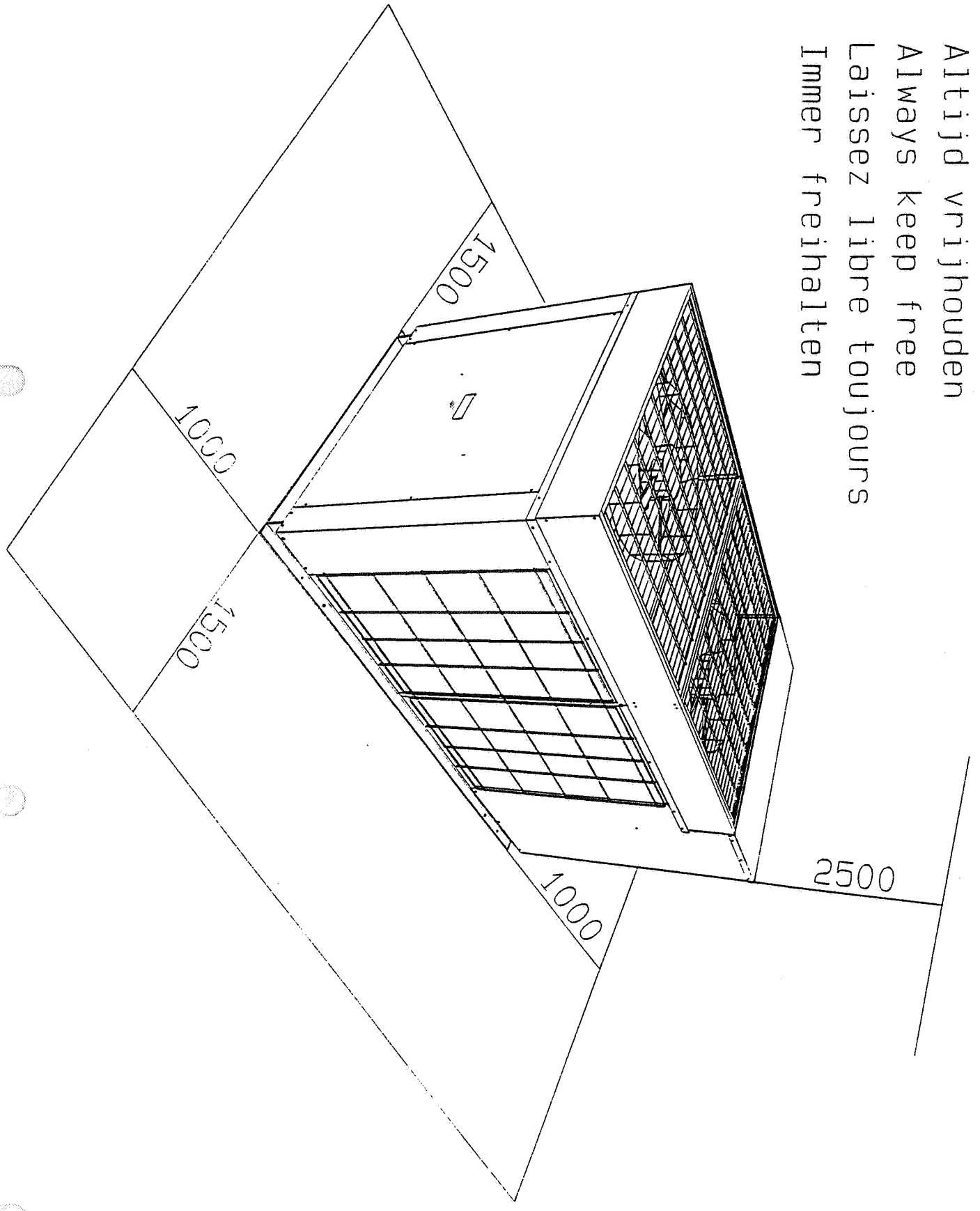


① ② ③ ④

- 1 : compressor  
compressor  
compresseur  
Kompressor
- 2 : elektrische schakelkast  
electrical panel  
panneau du électrique  
Schaltkasten
- 3 : elektrische kabeldoorvoer  
electrical cable inlet  
passage du cable électrique  
Durchführung für E-Kabel
- 4 : freonleiding  
refrigerant line  
conduite de freon  
Kältemittel-Leitung



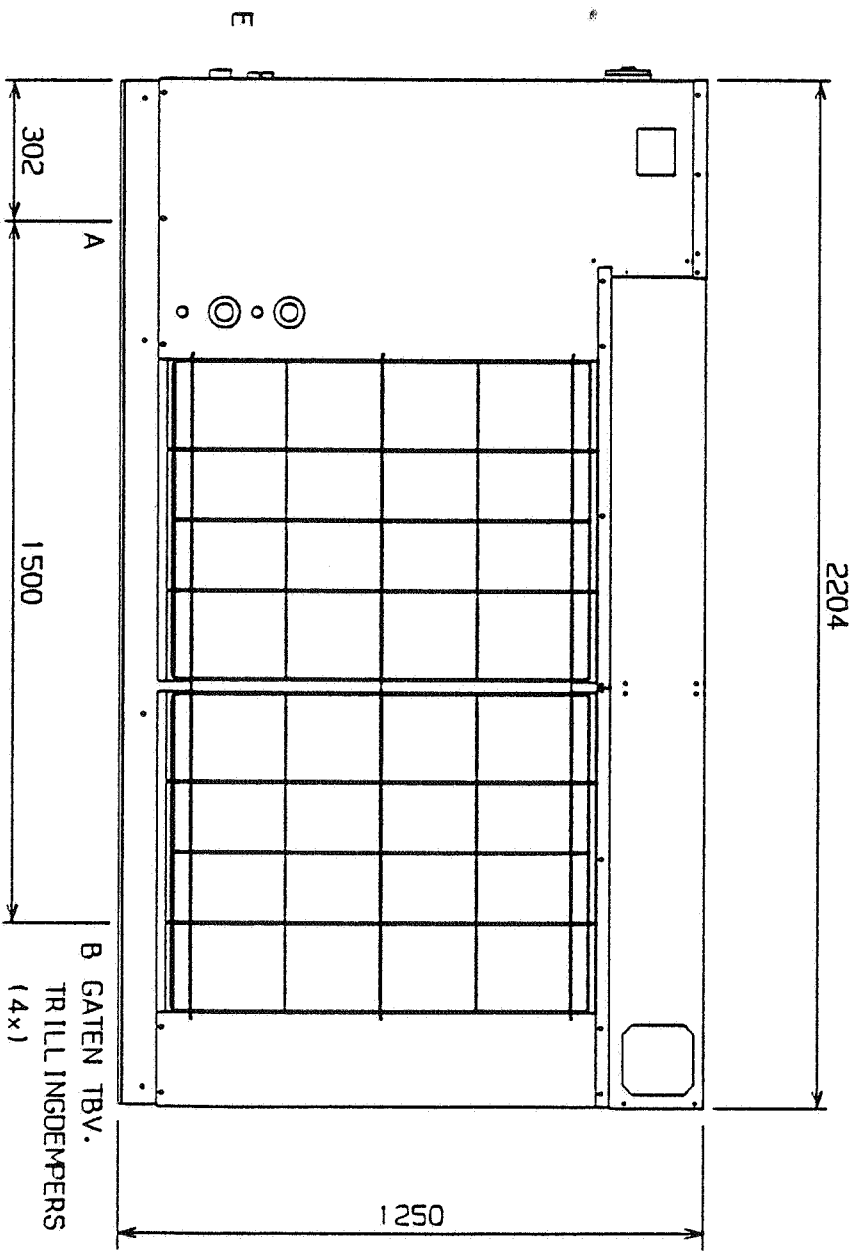
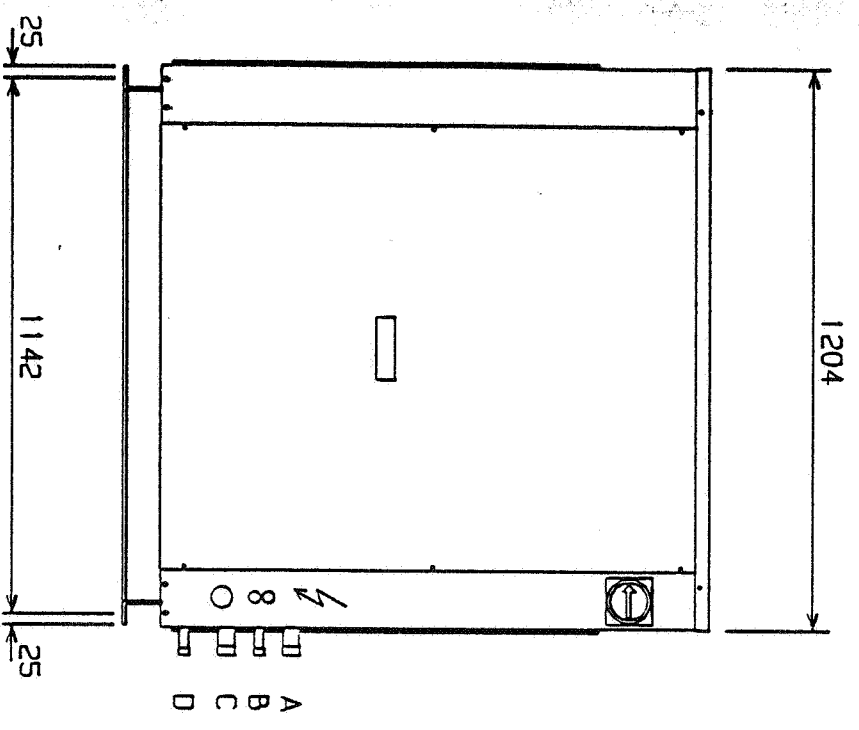
Altijd vrijhouden  
Always keep free  
Laissez libre toujours  
Immer freihalten



A : zuiggasleiding circuit 1  
 suction gas line circuit 1  
 conduite d aspiration circuit 1  
 Saugasleiding Kreis 1  
 B : vloeistofleiding circuit 1  
 liquid line circuit 1  
 conduite liquide circuit 1  
 Flüssigkeitsleitung Kreis 1

C : zuiggasleiding circuit 2  
 suction gas line circuit 2  
 conduite d aspiration circuit 2  
 Saugasleiding Kreis 2  
 D : vloeistofleiding circuit 2  
 liquid line circuit 2  
 conduite liquide circuit 2  
 Flüssigkeitsleitung Kreis 2

E : elektrische kabeldoorvoer  
 electric cable inlet  
 passage du cable électrique  
 Durchführung für E-Kabel



## CAPACITY TABLE

Type	Tz deg. C (Pabs) (bar)	Condenser air entering temperature in degrees C													
		15		20		25		30		35		40		45	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
KNA-17D	-4 (4.36)	41.8	11.2	38.6	11.8	35.8	12.2	33.2	12.8	30.8	13.2	28.4	14.0	26.4	14.2
	-2 (4.66)	45.0	11.6	41.6	12.2	38.8	12.6	36.0	13.2	33.6	13.6	31.0	14.4	28.8	15.0
	0 (4.97)	48.4	11.4	45.0	12.2	42.0	12.8	39.0	13.6	36.4	14.2	33.6	15.0	31.4	15.4
	+2 (5.31)	51.6	11.8	48.0	12.6	45.0	13.2	42.0	13.8	39.2	14.6	36.4	15.4	34.0	16.0
	+4 (5.66)	55.0	12.2	51.4	13.0	48.2	13.6	45.0	14.4	42.2	15.0	39.2	15.8	36.4	16.6
	+5 (5.84)	56.8	12.2	53.0	13.2	49.8	13.8	46.6	14.6	43.6	15.4	40.6	16.2	38.0	16.8
	+6 (6.02)	58.4	12.4	54.8	13.2	51.4	14.0	48.0	15.0	45.0	15.6	42.0	16.6	39.2	17.2
	+8 (6.41)	61.8	12.8	58.0	13.6	54.6	14.4	51.2	15.2	48.0	16.0	44.8	17.0	41.8	17.8
	+10 (6.81)	65.4	13.0	61.4	14.0	57.8	14.8	54.2	15.6	51.0	16.4	47.6	17.6	44.4	18.6

A = Cooling capacity in kW

B = Power consumption compressor in kW

## CAPACITY TABLE

Type	Tz deg. C (Pabs) (bar)	Condenser air entering temperature in degrees C													
		15		20		25		30		35		40		45	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
KNA-20D	-4 (4.36)	51.8	14.0	49.0	14.8	46.0	15.8	43.2	16.6	40.4	17.2	37.4	18.2	34.6	18.8
	-2 (4.66)	56.0	14.6	52.8	15.6	49.6	16.6	46.6	17.2	43.6	17.8	40.4	18.8	37.2	19.6
	0 (4.97)	60.0	15.0	56.6	16.0	53.4	17.0	50.0	18.0	46.8	18.8	43.4	19.8	40.2	20.4
	+2 (5.31)	64.0	15.6	60.8	16.6	57.4	17.4	53.8	18.4	50.4	19.2	46.8	20.2	43.2	21.0
	+4 (5.66)	68.4	16.2	65.0	17.2	61.4	18.2	57.8	19.2	54.0	20.0	50.0	21.2	46.0	22.0
	+5 (5.84)	70.8	16.2	67.2	17.4	63.4	18.6	59.6	19.4	55.6	20.6	51.6	21.6	47.6	22.4
	+6 (6.02)	73.0	16.6	69.2	17.8	65.4	19.0	61.6	19.8	57.4	21.0	53.2	22.2	49.2	23.0
	+8 (6.41)	77.8	17.0	73.8	18.4	69.6	19.6	65.4	20.6	61.6	21.8	56.6	23.0	52.2	24.0
	+10 (6.81)	82.2	17.4	77.8	19.0	73.6	20.0	69.2	21.4	64.4	22.8	59.8	24.0	--	--

A = Cooling capacity in kW

B = Power consumption compressor in kW

## CAPACITY TABLE

Type	Tz deg. C (Pabs) (bar)	Condenser air entering temperature in degrees C													
		15		20		25		30		35		40		45	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
KNA-30D	-4 (4.36)	65.0	18.2	61.2	19.6	57.8	20.2	54.2	21.2	50.6	22.0	46.8	23.2	43.2	24.0
	-2 (4.66)	70.4	18.6	66.4	20.0	62.6	20.8	58.6	22.0	54.8	22.8	50.6	24.2	47.0	24.8
	0 (4.97)	75.8	19.2	71.6	20.4	67.4	21.6	63.2	22.8	59.2	23.6	54.8	25.0	50.6	26.2
	+2 (5.31)	81.0	20.2	76.6	21.4	72.2	22.6	67.8	23.6	63.4	24.6	58.8	26.0	54.4	26.8
	+4 (5.66)	86.6	20.8	81.8	22.2	77.2	23.4	72.2	24.8	67.8	25.6	62.8	27.0	58.2	28.0
	+5 (5.84)	89.2	21.2	84.4	22.6	79.6	24.0	74.8	25.0	70.0	26.0	64.8	27.6	60.0	28.4
	+6 (6.02)	92.0	21.6	87.0	23.0	82.2	24.2	77.0	25.6	72.2	26.6	66.8	28.2	62.0	29.0
	+8 (6.41)	97.6	22.2	92.2	23.8	87.0	25.2	81.6	26.4	76.4	27.6	70.8	29.2	--	--
	+10 (6.81)	103	23.0	97.2	24.8	91.8	26.0	86.0	27.4	80.6	28.6	74.8	30.0	--	--

A = Cooling capacity in kW

B = Power consumption compressor in kW

Charge				
Type		KNA-17D	KNA-20D	KNA-30D
Holding charge N2, pressure	bar	4.0	4.0	4.0
Charge R-22	kg	2 x 3.0	2 x 4.2	2 x 5.5
Suction line		1 1/8"	1 3/8"	1 3/8"
Liquid line		5/8"	5/8"	3/4"
Charge suction line	1 1/8"	g/m	11.0	
	1 3/8"	g/m	20.0	
Charge liquid line	5/8"	g/m	180.0	
	3/4"	g/m	270.0	
Maximum equivalent piping length	m			

Oil charge		
At piping length > 15m	l/m	0.02 for each circuit