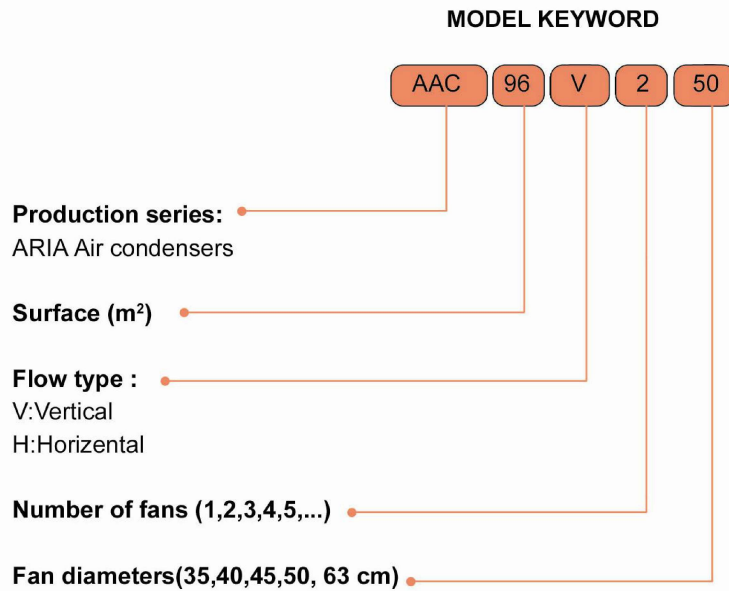


Unit Condenser

VERTICAL & HORIZONTAL TYPES



Casing:

Casing for unit condensers is made of galvanized steel with electrostatic paint coating.

Fans:

Fans used in are made by ZIEHL-ABEGG. All fans are equipped with internal over load device according to IP 54. There are four models of fans, with diameters of (350-400-450,500, 630 mm).

Coil:

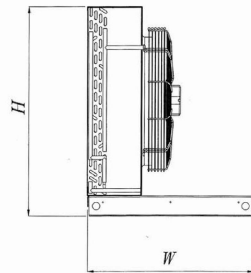
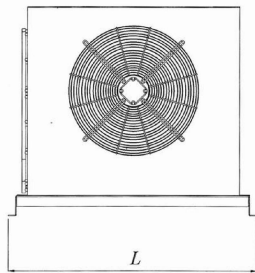
Coils are tested at 30 Bar. All unit condensers are precharged with nitrogen gas to ensure leakage prevention and that refrigerant circuit be free of humidity. Fin spacing 2.5, 2.82 mm and tube OD is 3/8" , 1/2" in staggered type.

Receiver tanks:

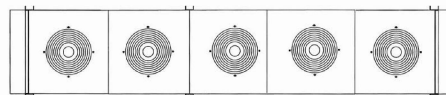
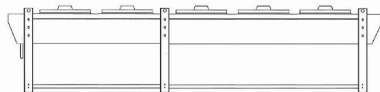
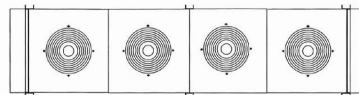
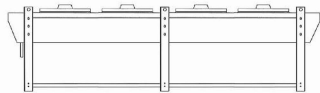
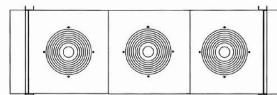
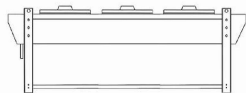
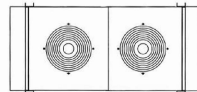
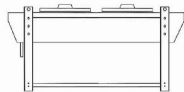
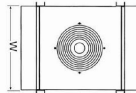
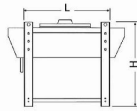
Receiver tanks are made of heavy steel pipes with proportional thickness and volume according to unit condensing capacity.

DIMENSIONS:

- AAC*H**



- AAC*V*50



SPECIFICATION DESIGN STANDARDS:

AAC-H and AAC-V unit condensers designed for following temperatures(given):

MODEL	Tc [°C]	Ta [°C]	DT
AAC*H**	50	35	15
AAC*V**	40	25	15

Tc=Condensing temp. Ta=Ambient temp. DT=Tc-Ta

“UNIT CONDENSERS” SPECIFICATIONS:

MODEL	Fin Spacing [mm]	TUBE	FIN THICKNESS	FAN
AAC*H**	2.5	3/8”(staggered)	150-200 μ	Axial type 220v-50H
AAC*V**	2.82	1/2”(staggered)	150-200 μ	Axial type 220v-50H

Standards specifications which have been taken into design condition:

- 1) EUROVENT ENU 327. 2) ARI 365-94.

All unit condensers are corresponding to Global standard specifications. For other condition use the following formula.

CORRECTION FACTOR TABLES:

DT correction factor (Table 1)

DT [°C]	8	9	10	11	12	13	14	15	16	17	18	19	20
f1	1.78	1.56	1.44	1.32	1.22	1.12	1.06	1	0.95	0.9	0.85	0.8	0.75

Ambient temperature correction factor (Table 2)

Ta [°C]	10	15	20	25	30	35	40	50
f2	0.95	0.96	0.98	1	1.02	1.04	1.05	1.06

Refrigerant correction factor (Table 3)

R	R404A	R22	R502	R134a
f3	0.99	1	1.04	1.01

Altitude correction factor (Table 4)

h [m]	0	500	1000	1500	2000	2500	3000
f4	1	1.04	1.07	1.11	1.16	1.21	1.25

For Example: selection of suitable unit condenser model

AAC*H UNIT CONDENSERS**

Model	Capacity		Air circulation		Dimensions			Coil		Receiver Tank		Weight kg
	ΔT = 15 k		Air Flow m³/h	Surface m²	Length (L) mm	Width (W) mm	High (H) mm	Connections		Volume dm³	Connection Øin (mm)	
	KW	Kcal/h						Øin (mm)	Øout (mm)			
AAC-5H135	2.8	2408	2800	5.1	650	605	466	12	10	3	12	35
AAC-7H135	4.5	3870	2800	7.25	650	605	466	12	10	3	12	37
AAC-13H135	6.2	4332	2800	13	650	605	516	12	10	5.6	12	46
AAC-15H135	7.5	6450	2800	15.3	1000	670	536	16	10	5.6	12	57
AAC-27H145	13	11180	5800	27.1	1000	670	687	16	12	7.8	12	73
AAC-39H145	16.2	13932	5800	38.7	1000	670	837	16	12	13	12	91
AAC-43H245	23.4	20124	11600	43	1140	920	723	22	16	15	22	119
AAC-56H245	27.1	23306	11600	56	1356	920	773	28	16	15	22	133
AAC-77H245	34	29240	11600	76.6	1591	1000	848	28	22	30	22	165
AAC-110H250	48	41280	14100	109	1591	1000	998	28	22	30	22	190

AAC*V UNIT CONDENSERS**

Model	Capacity		Air circulation		Dimensions			Coil		Receiver Tank		Weight kg
	ΔT = 15 k		Air Flow m³/h	Surface m²	Length (L) mm	Width (W) mm	High (H) mm	Connections		Volume dm³	Connection Øin	
	KW	Kcal/h						Øin (mm)	Øout (mm)			
AAC-48V150	19	16340	7050	54	1260	940	850	28	18	15.6	7/8"	99
AAC-96V250	37	32594	14100	108	2060	940	850	35	22	29.5	7/8"	155
AAC-145V350	56.9	48934	21150	145	2980	940	850	42	28	40	1 1/8"	222
AAC-193V450	75.8	65188	28200	215	3840	940	850	42	28	49.6	1 1/8"	275
AAC-241V550	94.8	81528	35200	269	4700	940	850	54	35	65.8	1 3/8"	332
AAC-290V650	113.8	97868	42300	296	2980	1800	850	54	35	2*40	1 5/8"	388