

# AlfaBlue Junior AG

## Air-cooled condensers – commercial range

### General information & application

AlfaBlue Junior is a competitive condenser line that offers excellent performance, allowing easy installation on site and an outstanding integration with other components. High efficient fan motors combine excellent sound characteristics and low energy consumption. AlfaBlue Junior AG condensers can be used in commercial refrigeration and HVAC installations. Stock units available.

Refrigerants	all HFO/HFC
Capacity range*	5.6 up to 260 kW

\* Nominal capacities ( $T_{air} = 25\text{ }^{\circ}\text{C}$ ,  $T_{cond} = 40\text{ }^{\circ}\text{C}$ ,  $T_{subcool} < 3\text{ K}$ ,  $T_{superheating} = 25\text{ K}$ )



AlfaBlue Junior AG

### Finned coil

Innovative coil design manufactured from Cu tubes and aluminium turbo fins. Standard fin spacing 2.1 mm. Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge.

### Construction

Patented coil frame design allowing thermal expansion and offering protection against vibration. Corrosion resistant casing material, powder coated RAL9002. Separated fan sections.

### Fans

High efficiency AC or EC fans and low power consumption. Available in three fan diameters 350, 500 & 630 mm, different power supplies (230/50-60/1, 400/50/3, 480/60/3) and four noise levels. Protection class IP54 according to DIN 40050. AC motors are fitted with integrated thermo contacts to provide reliable protection against thermal overload (terminals in the box).

### AlfaBlue Junior AGH

A special range of high pressure condensers (design pressure 45 bar) is available with circuiting design optimized for refrigerant R410A. This AGH range has been specifically developed for HVAC applications and may be tailor made for OEM use.

### Options

- Switch on/off (SW)
- Connection box for electrical power connection (CB)
- Fan speed control 230/1 and 400/3 (FP)
- Coil options:
  - Epoxy coated fins (EP)
  - Seawater resistant aluminium AlMg fins (SWR)
  - Copper fins (CU)
  - F-coat treatment (FC)
  - Industrial fins (IF)
  - Fin spacing 2.5 mm (other fin spacings on request)
- Vibration dampers (VD)
- End covers (CV)
- Mounting feet kit for vertical airflow

### Benefits

- Reduced refrigerant charge
- Excellent sound characteristics, suitable for residential applications
- Energy efficient
- Easy installation & maintenance
- Eurovent certified performance
- Two-year product guarantee
- Easy access to on-line product information



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## Dimensions

AG(H)		Dimensions mm*					
type	fans	L1	H1	W1	L2	H2	W2
351	1	820	600	548	820	529	390
352	2	1420	600	548	1420	529	390
353	3	2020	600	548	2020	529	390
501	1	1165	890	899	1165	826	512
502	2	2065	890	899	2065	826	512
503	3	2965	890	899	2965	826	512
504	4	3865	890	899	3865	826	512
631	1	1265	1204	1102	1265	1036	760
632	2	2265	1204	1102	2265	1036	760
633	3	3265	1204	1102	3265	1036	760
634	4	4265	1204	1102	4265	1036	760
635	5	5265	1204	1102	5265	1036	760
636	6	6265	1204	1102	6265	1036	760

\* Full dimensional details in instruction manual & website

### Customization (on request features)

- Split circuits (50/50 %)
- Sub-cooling circuit

### Design pressure

Design pressure 33 bar, 45 bar for AGH.

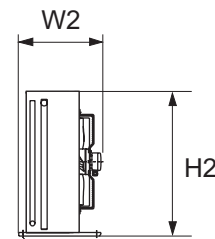
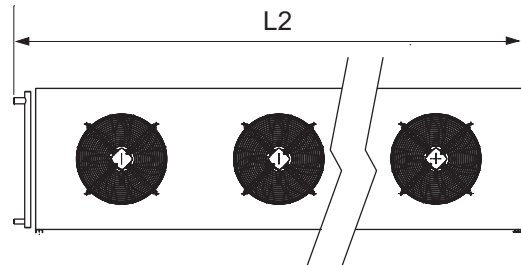
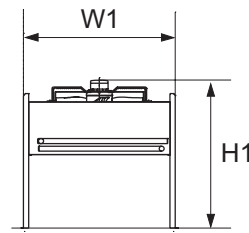
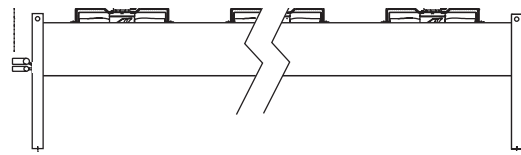
### Packing

All units are packed and shipped in horizontal airflow position. AlfaBlue Junior 351, 352, 353, 501 & 502 units are mounted on a wooden pallet and covered with a sturdy cardboard box. All other models are mounted on a wooden pallet, wrapped with plastic foil and covered with an open crate.

### Code description

AG	H	SE	35	2.2	A	S	H/V	BO	*	-	AL	2.1	CU	*
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

- AlfaBlue Junior condenser
- High pressure range for R-410A (blank=default, H=R410A)
- Sound level/fan code (S=standard, L=low, Q=quiet, R=residential, E=EC fan motor)
- Fan diameter (35=350, 50=500, 63=630 mm)
- Number of fans (1 to 6)
- Version number
- Tube rows code (A, B, C)
- No. of phases (S=1 ph, D=3 ph D connection, Y=3 ph Y connection)
- Units are suitable for both horizontal and vertical airflow (mounting feet kit required for vertical airflow setup)
- Packing (BO=box, CR=crate)
- Options
- Fin material (AL=aluminium, IF=industrial fins, SWR=AlMg2.5, CU=Copper, EP=epoxy coated aluminium, FC=F-coat)
- Fin spacing (2.1, 2.5 mm)
- Tube material (CU=copper)
- Options



### Selection

Selection and pricing is to be performed with our Alfa LU-VE air heat exchanger selection software. Please contact our sales organization for details and full technical documentation.

### Certifications

Eurovent certified performance applies to models included in the programme scope. The Alfa LU-VE quality system is in accordance with ISO 9001. All products are manufactured according to PED.



### How to contact Alfa LU-VE

Up-to-date Alfa LU-VE contact details for all countries are always available on our website at [alfa.luvegroup.com](http://alfa.luvegroup.com)