




Air Conditioning

MODELS AND POWER

The range of air conditioners ALFA ELECTRIC includes several productions depending on voltages and different type of thermostat mounted. The code varies about voltage and control instrumentation.

CODE EXAMPLE AND COMPOSITION:

AVC 035.01



- (a) Cooling power at 35°C inside the cabinet and 35°C outside cabinet (x 10W)
- (b) Power supply:
0=230 V monophase 50/60 Hz
1=115 V monophase 50/60 Hz
2=400 V monophase 50/60 Hz
- (c) Type of thermostat:
0=mechanical thermostat
1=digital thermostat

DIGITAL THERMOSTAT

The version with the number 1 as the last digit coding are equipped with digital thermostat that allows to implement various control operations:

- 1 setting ignition temperature compressor
- 2 setting temperature compressor shutdown
- 3 Set delay on / off the compressor in terms of temperature
- 4 Setting the standard period of the compressor to avoid the phenomenon of intermittent on/off. This phenomenon is very detrimental to the proper operation of the air conditioner.
- 5 Setting the maximum value allowed for the overcoming of the maximum temperature in the cabinet, after which the thermostat emits an alarm
- 6 Setting the delay time of the alarm switch



LOW MAINTENANCE

ALFA ELECTRIC air conditioners require little maintenance on all models through the adoption of heat exchanger with a pitch between the fins is not less than 4 mm. The fins are treated to reduce the adhesion of dirt.

ROTARY COMPRESSOR

ALFA ELECTRIC air conditioners are distinguished by the adoption on most models of rotary compressors. This type of compressors, unlike the more common alternative compressors allowed to contain the clutter in favour of a greater distance between inlet hot air from the context and delivery of fresh air into the framework. The greater distance allows the reduction of the phenomenon of by-pass, using a greater amount of fresh air produced.

OUTDOOR VERSION

For all models is available the outdoor version. These units have a special cover designed to protect internal components, a condenser fan controller in according to the condensation pressure and pressure controller for the safety of compressor.

On request is available a heater band to protect compressor in low ambient temperature.

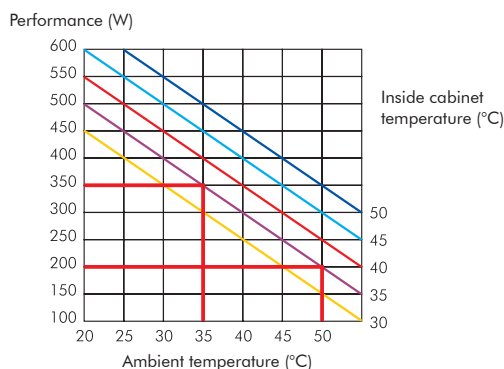
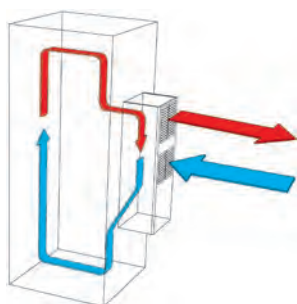
LESS WEIGHT AND LESS VIBRATION

The rotary compressor also reduces the weight of the unit with obvious benefits in the transport, handling and installation of the machine. The lower vibrations due to a lower inertia of the moving parts make this component quiet and durable.

GREATER EFFICIENCY

The rotary compressor has considerable advantages over the alternative compressor: among them being the biggest isentropic efficiency mainly due to different internal cooling which favors compression. The absence of valves in suction and dead volumes, typical of alternative systems, reduces the loss of gas pressure.

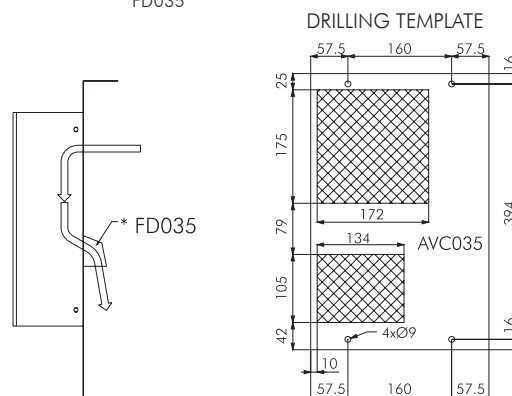
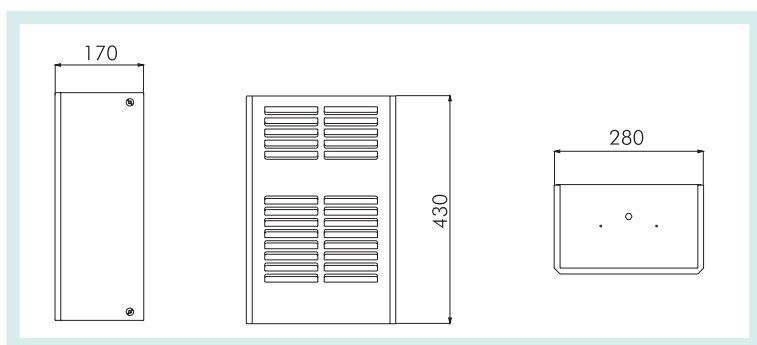
AVC 035



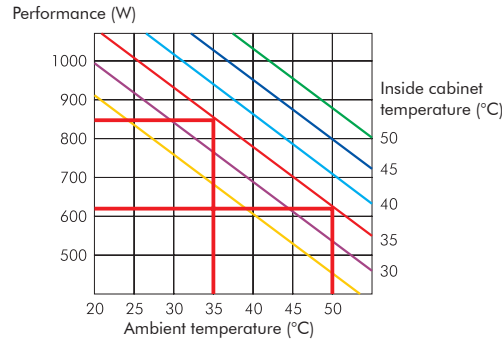
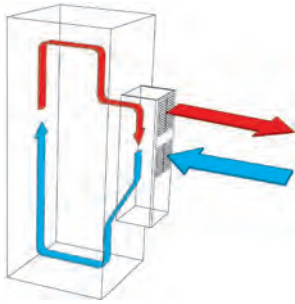
Features	Unit	AVC035.00	AVC035.01	AVC035.10	AVC035.11	AVC035.20	AVC035.21
Power supply	V/Hz	230V/1ph/50-60		115V/1ph/50-60		400V/2ph/50-60	
Dimensions HxWxD	mm	430x280x170					
Cooling capacity EN814 A35A35	W	350/370					
Cooling capacity EN814 A35A50	W	200/220					
Air flow rate (free blow)	inside	m3/h					
	outside	m3/h					
Max current	A	1.8/1.9		3.6/3.8		1/1.1	
Delayed fuse	A	4		6		4	
Absorbed electric power EN814 A35A35	W	260/270					
Absorbed electric power EN814 A35A50	W	280/300					
Refrigerant (type/charge)	kg	R134a/0,3					
Maximum Pressure	bar	25					
Operating temperature (ambient)	°C	+20/+55					
Operating temperature (enclosure)	°C	+20/+45					
Temperature controller (factory set at 35°C)	-	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat
Compressor type	-	Rotative compressor					
Noise level	dB(A)	60					
Electrical connection	-	Three-pole connector					
Protection degree EN60529/1 enclosure inside	-	IP54					
Protection degree EN60529/1 ambient inside	-	IP34					
Weight (with packaging)	kg	15(16)		17(18)			
Colour	-	RAL 7035					
Conformity/Certifications	-	CE					

Versions	AVC035.00.E	AVC035.10.E	AVC035.20.E
Outdoor			

Accessories	
Door limit switch	FINCOR
Door limit switch with mechanical lock	FINRIP
Flashing safety device	FSL
Flow diverter*	FD035



AVC 085



Features

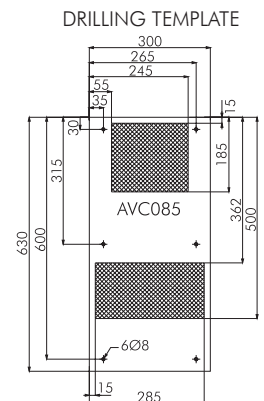
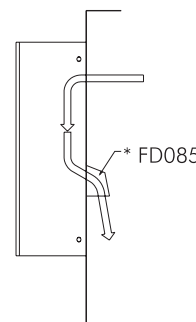
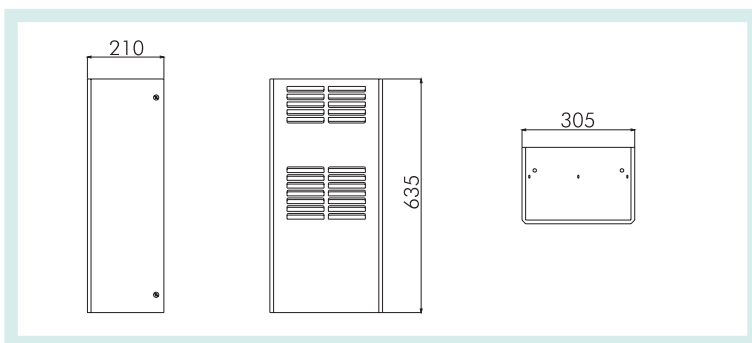
Unit	AVC085.00	AVC085.01	AVC085.10	AVC085.11	AVC085.20	AVC085.21	
Power supply	V/Hz	230V/1ph/50-60		115V/1ph/50-60		400V/2ph/50-60	
Dimensions HxWxD	mm	635x305x210					
Cooling capacity EN814 A35A35	W	850/900					
Cooling capacity EN814 A35A50	W	625/650					
Air flow rate (free blow)	inside	m3/h					
	outside	m3/h					
Max current	A	2.65/2.75		5.3/5.4		1.65/1.75	
Delayed fuse	A	6		10		4	
Absorbed electric power EN814 A35A35	W	450/470					
Absorbed electric power EN814 A35A50	W	530/560					
Refrigerant (type/charge)	kg	R134a/0,3					
Maximum Pressure	bar	25					
Operating temperature (ambient)	°C	+20/+55					
Operating temperature (enclosure)	°C	+20/+45					
Temperature controller (factory set at 35°C)	-	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat
Compressor type	-	Rotative compressor					
Noise level	dB(A)	62					
Electrical connection	-	Three-pole connector					
Protection degree EN60529/1 enclosure inside	-	IP54					
Protection degree EN60529/1 ambient inside	-	IP34					
Weight (with packaging)	Kg	23(24)		30(31)			
Colour	-	RAL 7035					
Conformity/Certifications	-	CE					

Versions

Outdoor	AVC085.00.E	AVC085.10.E	AVC085.20.E
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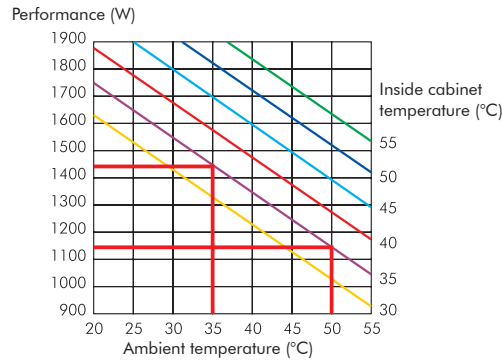
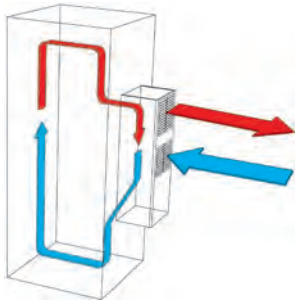
Accessories

Door limit switch	FINCOR
Door limit switch with mechanical lock	FINRIP
Flashing safety device	FSL
Flow diverter*	FD085



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AVC 145



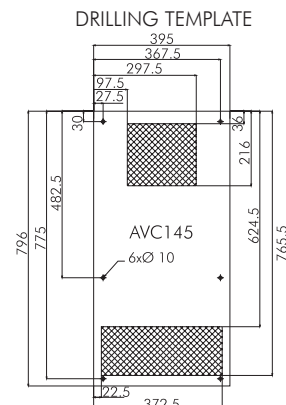
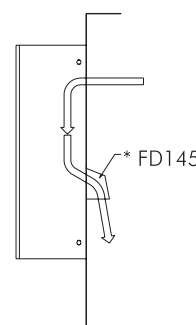
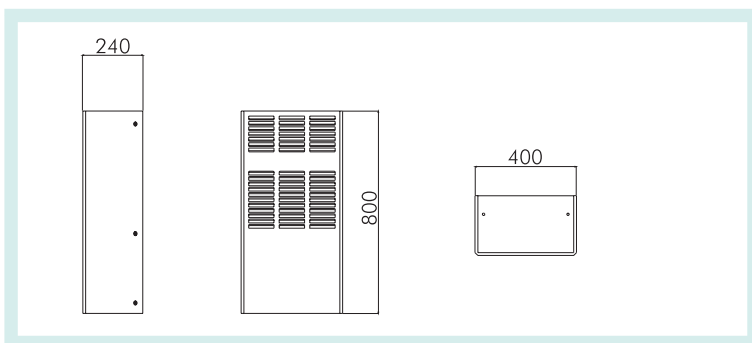
Features	Unit	AVC145.00	AVC145.01	AVC145.10	AVC145.11	AVC145.20	AVC145.21
Power supply	V/Hz	230V/1ph/50-60		115V/1ph/50-60		400V/2ph/50-60	
Dimensions HxWxD	mm	800x400x240					
Cooling capacity EN814 A35A35	W	1450/1500					
Cooling capacity EN814 A35A50	W	1150/1200					
Air flow rate (free blow)	inside	m3/h					
	outside	m3/h					
Max current	A	3.7/4.2		7.4/8.4		1.35/2.1	
Delayed fuse	A	6		10		4	
Absorbed electric power EN814 A35A35	W	650/700					
Absorbed electric power EN814 A35A50	W	770/850					
Refrigerant (type/charge)	kg	R134a/0,55					
Maximum Pressure	bar	25					
Operating temperature (ambient)	°C	+20/+55					
Operating temperature (enclosure)	°C	+20/+45					
Temperature controller (factory set at 35°C)	-	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat
Compressor type	-	Rotative compressor					
Noise level	dB(A)	65					
Electrical connection	-	Three-pole connector					
Protection degree EN60529/1 enclosure inside	-	IP54					
Protection degree EN60529/1 ambient inside	-	IP34					
Weight (with packaging)	Kg	37(38)		49(50)			
Colour	-	RAL 7035					
Conformity/Certifications	-	CE					

Versions

Outdoor	AVC145.00.E	AVC145.10.E	AVC145.20.E
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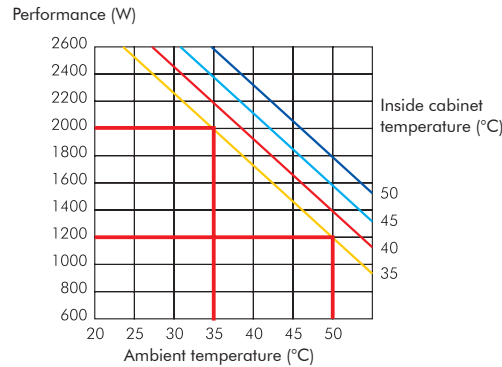
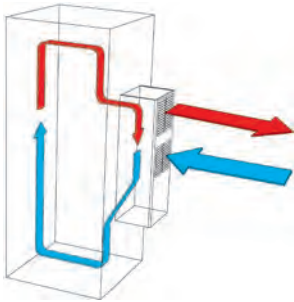
Accessories

Door limit switch	FINCOR
Door limit switch with mechanical lock	FINRIP
Flashing safety device	FSL
Flow diverter*	FD145



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AVC 200



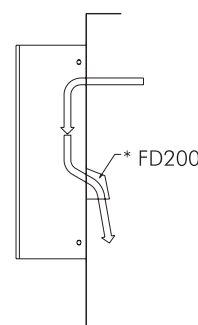
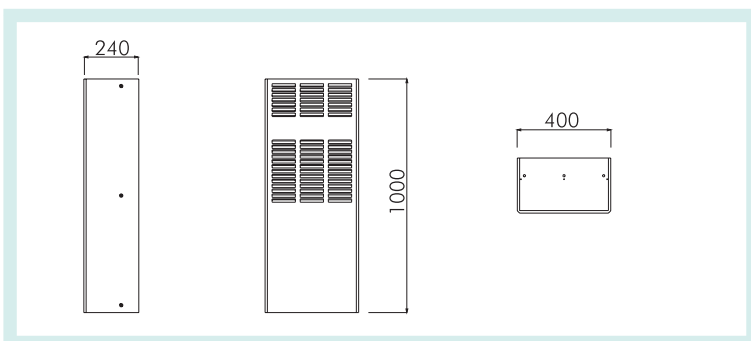
Features	Unit	AVC200.00	AVC200.01	AVC200.10	AVC200.11	AVC200.20	AVC200.21
Power supply	V/Hz	230V/1ph/50-60		115V/1ph/50-60		400V/2ph/50-60	
Dimensions HxWxD	mm	1000x400x240					
Cooling capacity EN814 A35A35	W	2000/2100					
Cooling capacity EN814 A35A50	W	1200/1250					
Air flow rate (free blow)	inside	m3/h 600/625					
	outside	m3/h 880/950					
Max current	A	6.6/6.9		13.0/13.8		3.3/3.5	
Delayed fuse	A	10		16		6	
Absorbed electric power EN814 A35A35	W	1060/1100					
Absorbed electric power EN814 A35A50	W	1240/1300					
Refrigerant (type/charge)	kg	R134a/0,6					
Maximum Pressure	bar	27					
Operating temperature (ambient)	°C	+20/+50					
Operating temperature (enclosure)	°C	+20/+45					
Temperature controller (factory set at 35°C)	-	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat	Integrated mechanical thermostat	Integrated digital thermostat
Compressor type	-	Alternative compressor					
Noise level	dB(A)	70					
Electrical connection	-	Three-pole connector					
Protection degree EN60529/1 enclosure inside	-	IP54					
Protection degree EN60529/1 ambient inside	-	IP34					
Weight (with packaging)	Kg	49(50)		57(58)			
Colour	-	RAL 7035					
Conformity/Certifications	-	CE					

Versions

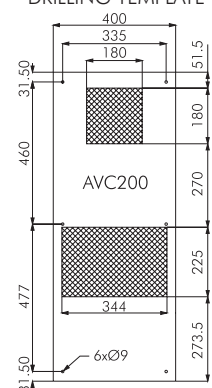
Outdoor	AVC200.00.E	AVC200.10.E	AVC200.20.E
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Accessories

Door limit switch	FINCOR
Door limit switch with mechanical lock	FINRIP
Flashing safety device	FSL
Flow diverter*	FD200



DRILLING TEMPLATE

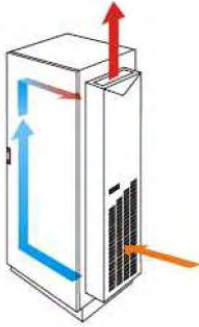


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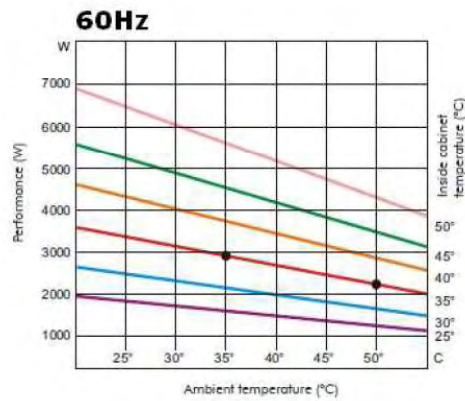
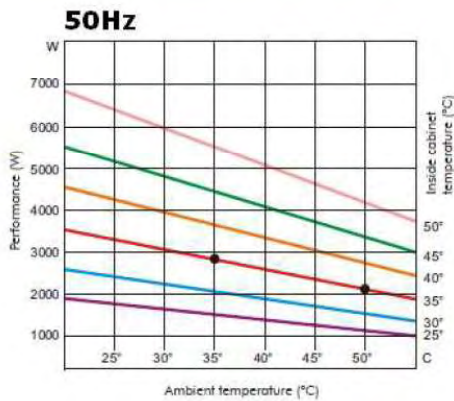
AIR CONDITIONING

Air Conditioning
3000W

AVC 300



Features	Unit	AVC300.41
Power supply	V/Hz	400V/3ph/50-460V/3ph/60
Dimensions HxWxD	mm	1500x400x255
Cooling capacity EN814 A35A35	W	2800/2940
Cooling capacity EN814 A35A50	W	2130/2320
Max running current	A	2.7 /2.7
Starting current	A	15/15
Absorbed electric power EN814 A35A35	W	1540/1800
Absorbed electric power EN814 A35A50	W	1770/2060
Operating temperature (ambient)	°C	+20/+55 (50Hz)/+20/+50 (60Hz)
Protection degree EN60529/1 ambient inside	-	IP34
Protection degree EN60529/1 enclosure inside	-	IP54
Weight (with packaging)	kg	65
Noise level	dB(A)	70

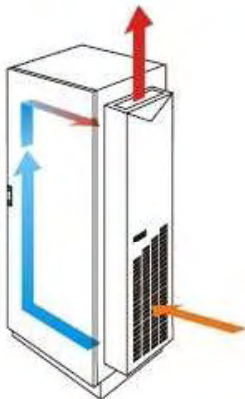


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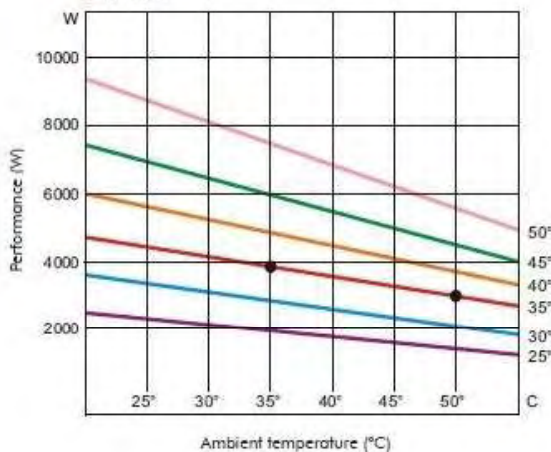
Automática Electrónica y Control, S.L. Lacy, 30 Acc. - 08202 Sabadell (Barcelona)
Tel 937 207 066 Fax 937 209 999 www.automatrica-elec.es info@automatrica.cat

AVC 400



Features	Unit	AVC400.41
Power supply	V/Hz	400V/3ph/50-460V/3ph/60
Dimensions HxWxD	mm	1500x400x255
Cooling capacity EN814 A35A35	W	3800/3990
Cooling capacity EN814 A35A50	W	2890/3150
Max running current	A	2.7 / 2.7
Starting current	A	14.6 / 15.2
Absorbed electric power EN814 A35A35	W	2090 / 2450
Absorbed electric power EN814 A35A50	W	2400 / 2800
Operating temperature (ambient)	°C	+20/+55 (50Hz) / +20/+50 (60Hz)
Protection degree EN60529/1 ambient inside	-	IP34
Protection degree EN60529/1 enclosure inside	-	IP54
Weight (with packaging)	kg	65
Noise level	dB(A)	70

50 Hz



60 Hz

