

CLIMATE CONTROL

A blue-tinted photograph of a modern office interior. The image shows rows of desks and overhead lighting fixtures, creating a sense of depth and perspective. The lighting is bright and even, highlighting the clean lines of the office furniture. The overall atmosphere is professional and high-tech.

PRODUCT INTRODUCTION

And it isn't just ventilation products. Addvent offers a range of climate control products to help make your surroundings more pleasant.



MOBILE AIR CON

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a 9000btu self-evaporating unit with contemporary styling.

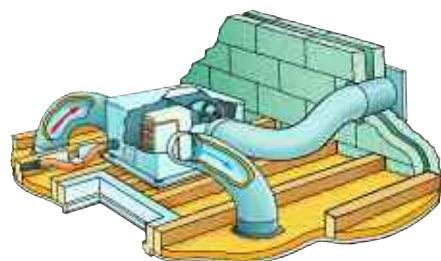
NEW
PRODUCT



SPLIT AIR CON

48

our new split air-con range with easy-fit connectors in 12000 and 18000 btu.



LOFT AIR CON

50

ideal in a domestic loft space.

NEW
PRODUCT



DEHUMIDIFIER

51

a stylish 20 litres/day portable with timer.



NEW
PRODUCT

AIR CIRCULATORS

52

stylish solutions for circulating air.

easy to use with contemporary styling

MOBILE



AVAC9000CM Mobile

features

- fully self-evaporating (no need to empty water containers);
- contemporary styling with robust construction;
- easy to use manual controls ;
- 12-hour timer;
- 1 year return-to-base warranty.

product range

AVAC9000CM 9000btu portable air conditioner.

accessories

AVACWK Window kit.

guide to use

The approximate room sizes quoted are for guidance only and refer to domestic applications. These figures do not apply for conservatories:

- AVAC9000CM – up to 20m² at normal ceiling height

Please consult Addvent technical for specific advice.

Our high efficiency mobile air conditioning unit is available as a 9,000btu model. Featuring contemporary styling it is easy to install and use.

The AVAC9000CM is the most popular unit. It features 'self evaporation' of moisture avoiding the need to continually empty water containers and is suitable for rooms up to 20m² at normal ceiling height.

The unit can be vented through a window using the optional AVACWK kit.

performance

	airflow m ³ /hour	removal litres/sec	input W
AVAC9000CM	668	185	80

dimensions

	width	height	depth	weight
	mm	mm	mm	kG
AVAC9000CM	435	790	400	30

specification

technical data POWER SUPPLY: 220-240V/50Hz; RATED COOLING CAPACITY: 2.6kW; RATED INPUT: 1200W; ENERGY EFFICIENCY CLASS: C; MOISTURE REMOVAL: 1.6l/h; AIR CIRCULATION VOLUME: 320m³/h ; TEMPERATURE SETTING RANGE:16-32°C; REFRIGERANT/CHARGE: R407Cg; WARRANTY: One Year return to base.



all year round heating and cooling

guide to use

The AVACSPL12N is suitable for areas up to 25m² and the AVACSPL18N for areas up to 40m² – assuming normal ceiling heights. Please consult Addvent technical for specific advice.



INDOOR UNIT



OUTDOOR UNIT

SPLIT AIR-CON



REMOTE CONTROL

features

- AVACSPL12N: with 4kW heating (up to 25m²);
- AVACSPL18N: with 5.6kW heating (up to 40m²);
- 3-speed fan;
- Dehumidifying function;
- Sweep function;
- High COP values;
- Supplied with remote control;
- Easy installation, full kit included.

Our new split air conditioning is perfect for all year-round

heating and cooling. Available with 12,000BTU or 18,000BTU cooling capacity, installation couldn't be simpler. The units come pre-gassed – requiring no refrigerant handling – and with all the electrical connections pre-fitted. The outdoor unit is compact and just requires a small, flat space for mounting – though it can be wall mounted if preferred. And together with the attractively styled, compact wall-mount indoor unit they are quiet and unobtrusive when fitted in any space. Operation is easy as the unit comes with a highly-usable remote control giving the user complete, programmable, finger-tip control of their environment.

product range

- AVASPL12N** 12,000btu split air conditioner.
AVASPL18N 18,000btu split air conditioner.

accessories

- AVACBRK** Wall brackets.
AVACEH4M 4m extension pipe kit.

installation

The indoor unit must be wall mounted. The outdoor unit may be floor-mounted or wall-mounted using the AVACBRK wall brackets kit. Where the outside unit is more than 5m from the indoor unit, please use the 4m extension pipe kit AVACEH4M.

technical data

POWER SUPPLY: 220-240V/50Hz; Cooling capacity: 12,000kW (AVACSPL12N) 18,000kW (AVACSPL18N);
RATED INPUT: 3.5kW (AVACSPL12N), 5.1 (AVACSPL18N); **HEATING CAPACITY:** 13,500btu/h (AVACSPL12N), 19,000btu/h /4.0kW, (AVACSPL18N); 5.6kW;
EER: (AVACSPL12N), 3.21kW, 2.83kW; **ENERGY CLASS:** (AVACSPL12N) A (AVACSPL18N) C; **COP:** AVACSPL12N, 3.67kW, (AVACSPL18N) 3.22kW;
ENERGY CLASS: AVACSPL12N)A, (AVACSPL18N) C; **REFRIGERANT CHARGE (5m):** 1.00kg (AVACSPL12N), 1.45kg (AVACSPL18N);
DEHUMIDIFICATION: AVACSPL12N) 1.3L/h/2.0L/h; **NOISE LEVEL @ 1M (HIGH/MEDIUM/LOW):** (AVACSPL12N), 40/36/32dB(A), (AVACSPL18N);
 43/39/35dB(A); **DIMENSIONS HXWXD (MM):** indoor unit 275x790x200 (AVACSPL12N), 275x930x200 (AVACSPL18N), outdoor unit 545x830x255
 (AVACSPL12N) 545x830x255 (AVACSPL18N); **NET WEIGHT:** indoor unit 10kg (AVACSPL12N), 12kg (AVACSPL18N); outdoor unit 34kg (AVACSPL12N),
 40kg (AVACSPL18N);

performance

Power Input	Cooling	W	1,090	1,800
	Heating	W	1,090	1,740
Airflow m ³ / h	H		520	800
		M	450	700
	L		380	600

LOFT

ideal for installation in a domestic loftspace

features

- high level of air filtration;
- low sound levels;
- no external unit;
- discreet internal grilles;
- remote control operation;
- sleep function;
- simple installation;
- one-year warranty.

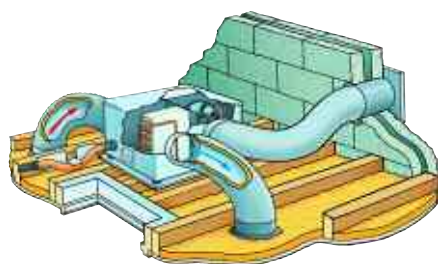


product range

AVACLU21CF 2.1kW Loft Unit *complete with installation kit.*

accessories

AVACLUVK Optional Gable End Vent kit for Loft Unit.



The AVACLU21CF provides a constantly comfortable

environment, needs no external condensing unit, and is designed to fit through a standard loft hatch into a roof space. The only visible part of the system are two small ceiling grilles, one through which cooled, filtered air is quietly delivered into the room and one for return air. All functions are programmed using the handy remote control unit. The AVACLU21CF is a highly affordable solution for bedrooms, home offices, bungalows or any area with a roof-void or suitable space.

The typical installation diagram (shown inset) is for illustrative purposes only.

You should refer to the installation instructions for the precise procedure, or consult our technical department.

performance

	outside ambient °C	room air return DB RH	room air supply DB RH	cooling duty W
AVACLU21F	35	30°C 60%	12.5°C 85%	2122

technical data

DIMENSIONS: 594/492/431 mm (length/width/height); **WEIGHT:** 42Kg; **POWER SUPPLY:** 230 Volts, single phase, 50Hz; **RUNNING CURRENT:** 7.0 Amps (nominal); **MAXIMUM STARTING CURRENT:** 26 Amps; **POWER INPUT*:** 1200 Watts; **COOLING CAPACITY*:** 2122 Watts; **REFRIGERANT:** R22/RS44; **AIRFLOW:** 3.4m³ per hour; **UNIT AMBIENT TEMPERATURE:** 32°C; **CONTROL:** Remote infra red programme controller and Sensor; **EVAPORATOR FAN MOTOR:** 3 speed fan motor; **COMPRESSOR:** 2 pole rotary; **CONDENSATE DRAIN:** 1/2" od plain tube; **MOUNTINGS:** Anti-vibration mounting pads; **DUCT CONNECTIONS:** (cold/warm) 200mm ID/250mm ID; * *Test certified by BSRIA at 30°C DB, 60% RH*

specific

a stylish 20 litres/day portable with timer.

DEHUMIDIFIER



AVDH20 Dehumidifier

features

- high capacity (max 20 l/day);
- user controllable humidity setting – 20% to 80% (normal is 60%);
- 2-speed fan;
- optional continuous drainage;
- programmable timer function;
- LCD display for easy operation;

product range

AVDH20 Dehumidifier.

The new AVDH20 is a high capacity portable dehumidifier.

It has a two-speed fan and the option for continuous drainage (no bucket emptying). With user-settable humidity levels, a room temperature indicator and tank full indicator, the AVDH20 is easily controlled from its informative and functional LCD display. Together with the programmable timer, this makes operation easy.

technical data POWER SUPPLY: 220-240V/50Hz; RATED INPUT: 320W; HUMIDITY LEVEL: 20%-80% (normal 60%); MOISTURE REMOVAL: 10l/d @ 27°C; 60%RH, 20l/d @ 30°C; 80%RH; F-GAS REGULATION: EC no 842/2006; REFRIGERANT: R134a; BODY DIMENSION: 390Wx610Hx274Dmm; NET WEIGHT: 17kg. CE

specification



AIR CIRCULATORS

stylish solutions for circulating air

features

- high performance, up to 12600 m³/sec (AVIAC24);
- 3-speed fan;
- stainless steel fan blades;
- chrome finish;
- supplied with stand;
- pedestal model (AVACP20);
- two-year warranty.

NEW
PRODUCT



AVAC18N



AVAC20N

AVACP20



AVIAC24

product range

- AVAC18N** 18" (460mm) Air Circulator.
AVAC20N 20" (510mm) Air Circulator.
AVACP20 20" (460mm) Pedestal Air Circulator.
AVIAC24 24" (610mm) Drum Air Circulator.

Stylishly designed with a chrome finish, our new Air Circulators

are ideal for domestic, commercial and industrial applications. The new 18" fan has a high performance with 3-speed control, precision balanced blades and a 360° tilt action for flexible use. The pedestal version allows the option of high-level application. The 20" fan is for higher air flow requirements.

And for maximum air movement in heavy industrial situations the AVIAC24 is ideal.

performance

Model	weight kg	power W	speed	airflow setting m ³ /hour	current amps	Model	weight kg	power W	speed	airflow setting m ³ /hour	current amps
AVAC18N	7.5	120	LOW	4400	0.475	AVAC20N	9.0	150	LOW	4500	0.52
			MEDIUM	4900	0.52				MEDIUM	5400	0.625
			HIGH	5880	0.625				HIGH	6600	0.75
AVACP20	9.0	150	LOW	4500	0.52	AVIAC24	18.5	200	LOW	7200	0.85
			MEDIUM	5400	0.625				MEDIUM	9000	1.00
			HIGH	6600	0.75				HIGH	12600	1.35



technical data rating: AVAC18/20: 220-240V ~50 Hz ;
 AVIAC24: 220-240V ~50 Hz

Warranty

Addvent is so confident in the quality of its installed products that they carry an exceptional five-year, no quibble exchange warranty. A 2-year warranty applies to some domestic and commercial ventilation products and some air conditioning products carry a one-year exchange warranty. If for any reason you or your customer is not entirely satisfied Addvent will exchange



the product concerned without question.

Throughout the catalogue these symbols show the level of warranty applicable to any given product.

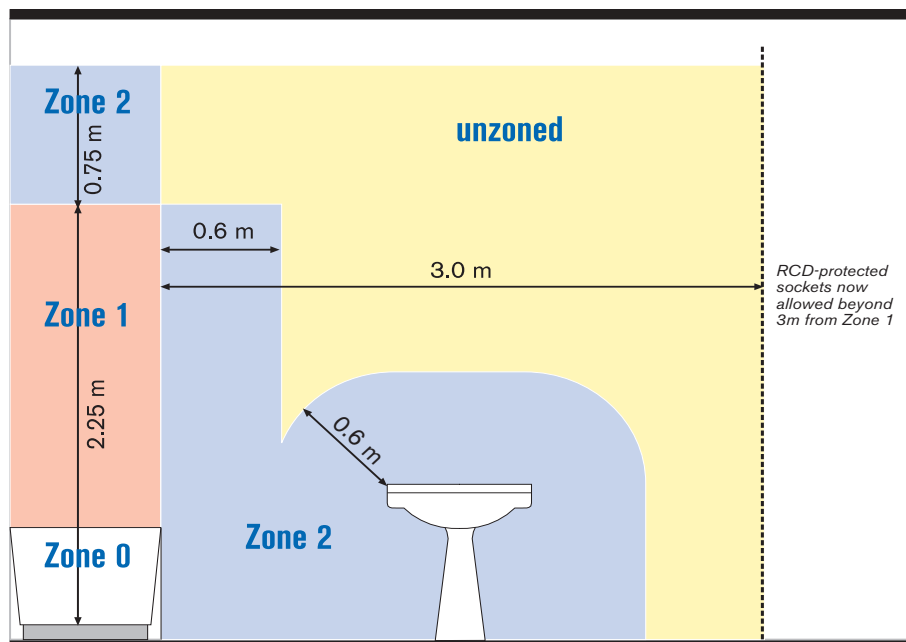
Bathroom regulations

Important changes

Under NICEIC Wiring Regulations bathrooms represent an increased electrical hazard. The 17th Edition regulations make some changes regarding technical alignment with European Harmonisation Documents, as well as additional definitions and requirements.

A significant change is that 30mA RCD protected socket outlets are now permitted *beyond* a distance of 3m from Zone 1. They remain prohibited *within* 3m of Zone 1. There are some changes to the defined zones in the bathroom. Zones 1 and 2 remain, but Zone 3 is no longer defined (see the *amended* typical bathroom illustration below). The regulations continue to demand a minimum of IPX4 in Zones 1 and 2.

Addvent offers a range of IP24 rated fans which meet these regulations and also offer a range of IP44 low voltage fans – recommended for added safety.



PELV and SELV

As well as IP numbers, items may be classed as PELV or SELV.

- Protective Extra-Low Voltage (PELV) – the item uses low voltage but it is connected to earth;
- Safety Extra-Low Voltage (SELV) – also a low voltage system but here the output is isolated from the input.

All Addvent low voltage products are classed SELV.

the zones and use of equipment

Bathroom zones are identified from 0 to 2, with 0 being the wettest. The former Zone 3 is now undefined. *Any electrical item approved for use in a zone may be used in another zone with a higher number, but not in a lower number zone.*

ZONE 0 **Zone 0** The interior of the bath or shower which can hold water. Requires low voltage (max 12V) electrical products and to be IPX7 (the mechanical protection is unimportant).

ZONE 1 **Zone 1** The area directly above zone 0 limited vertically to 2.25m above the bottom of the bath or shower. *Requires electrical products to be IPX4 or better, or SELV with the transformer located beyond Zone 2. If the fitting is 240v, a 30mA RCD must protect the circuit.*

ZONE 2 **Zone 2** The area beyond zones 0 and 1, 0.6m horizontally and up to 2.25m vertically. Zone 2 also included any window with a sill next to the bath. *Requires electrical products to be IPX4 or better, or SELV with the transformer located beyond Zone 2.*

ZONE U **Unzoned** The area beyond Zone 2 previously referred to as Zone 3 is now undefined. *Where previously Addvent products were shown as suitable for Zone 3 they now display this Unzoned badge.*

3m Beyond zone 1 When a bathroom extends 3 metres beyond zone 1, portable equipment is permitted. *Any socket used for this portable equipment must be protected by a 30mA RCD.*

TECHNICAL GUIDE

ip rating digit information

First Digit (X) Protection against solids	Second digit (Y) Protection against liquids
0 No protection	0 No protection
1 Protected against solid objects greater than 50mm	1 Protection against vertical water drops
2 Protected against solid objects greater than 12mm	2 Protection against direct water spray up to 15° from vertical
3 Protected against solid objects greater than 2.5mm	3 Protection against direct water spray up to 60° from vertical
4 Protected against solid objects greater than 1mm	4 Protection against direct water spray from all directions
5 Protected against dust	5 Protection against low pressure jets of water from all directions
6 Total protection from dust	6 Protection against jets of water of similar force to heavy seas
	7 Protection against immersion between 150-1000mm
	8 Protection against submersion

Figures shown are recommendations.
Where an X appears in this catalogue, the product has not been tested.

What is IP rating?

Electrical equipment may be identified as having a certain level of mechanical and moisture protection. This is called Ingress Protection and is quoted as an IP number - such as IPXY, where X and Y are numbers. X indicates the level of mechanical protection and Y the level of moisture protection. In both cases, the higher the number, the better the protection. If an item of electrical equipment is not IP rated, it must not be used in zones 0, 1 or 2 (or elsewhere in a wet/damp environment).

Typical IP rated items

Typical electrical items which are marked with IP numbers include: extractor fans, lighting, heaters, shower pumps, electric showers. Shaver power points are not IP rated. If they comply with BS EN 60742 they may be located in Zone 2 (or beyond) providing they are unlikely to be subject to direct spray from a shower. Standard fittings – such as wall sockets, flexible cord outlets and fused switches – are not IP rated so must not be installed within zones 0, 1 or 2. Although 30mA RCD protected socket outlets are now permitted *beyond* a distance of 3m from Zone 1.

Approvals and compliance

CE approval

The **CE** mark is the manufacturers declaration to appropriate enforcement authorities that the product complies with all relevant European Directives, such as the Low Voltage Directive for Safety (73/23/EEC, amended by 93/96/EEC) and the Electromagnetic Compatibility Directive for Radio Interference (89/336/EEC, amended by 92/31/EEC), *see below*. Addvent products comply with European Directives and carry the CE mark.

EMC compliance

With increasing levels of electrical equipment comes the need to limit interference. The Electromagnetic Compatibility (EMC) Directive 89/336/EEC, as amended by 91/31/EEC and 93/68/EEC, set standards for interference levels: products must be constructed so that they do not cause excessive electromagnetic interference and are not unduly affected by electromagnetic interference. Most electrical and electronic products marketed in the European Economic Area must comply with the EMC Directive.

Where Addvent products have been tested and conform to these regulations, this is indicated by the symbol shown opposite.

RoHS compliance

RoHS – Restriction of Hazardous Substances, Directive 2002/95/EC – restricts the use of specific hazardous materials found in electrical and electronic products. All applicable products in the EU market after July 1, 2006 must pass RoHS compliance.

The substances banned under RoHS are lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (CrVI), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

WEEE regulations

Addvent fully conforms to Waste Electrical & Electronic Equipment Regulations which came into full effect on 1 July 2007. If you are in any doubt about the safe disposal of WEEE products, please contact us for advice on 0117 938 6400 or fax our technical team on 0117 938 6401.

symbols used in this catalogue



Addvent reserve the right to alter specifications without notice.
All performance figures refer to maximum levels. All specifications and performance data is correct at time of printing.
Issue 11/0708.

domestic products

commercial products

controllers

accessory usage quick reference

100	STAINLESS	CENTRIFUGAL	MULTI-FUNCTION	IN DUCT	SHOWER LIGHT	FLUSH FIT		CIRCULAR FLUSH FIT		120	150
AVA001	AVA010	AVA010	AVA010	AVA211	AVA211	100mm	AVA170	100mm	150mm	AVA005	AVA007
AVA002	AVA050	AVA050	AVA050	AVA212C	AVA212C	AVA003	AVA180	AVA010	AVA011	AVA006	AVA008
AVA003	AVA100	AVA100	AVA100	AVA212B	AVA212B	AVA004	AVA267	AVA050	AVA070	AVA011	AVA011
AVA004	AVA120	AVA120	AVA120	AVA213C	AVA213C	AVA010	AVA271	AVA100	AVA190	AVA060	AVA070
AVA010	AVA150	AVA150	AVA150	AVA213B	AVA213B	AVA050	AVA351	AVA120	AVA200	AVA170	AVA190
AVA050	AVA160	AVA160	AVA160	AVA440	AVA440	AVA100	AVA361	AVA150	AVA280	AVA180	AVA200
AVA100	AVA270	AVA270	AVA351			AVA120	AVA362	AVA160	AVA300	AVA267	AVA213C
AVA120	AVA351	AVA351	AVA361			AVA150	150mm	AVA270		AVA271	AVA213B
AVA150	AVA361	AVA361	AVA362			AVA160	AVA007	AVA440		AVA351	AVA268
AVA160	AVA362	AVA362	AVA440			AVA270	AVA008	SYSTEM54		AVA361	AVA280
AVA269	AVA440	AVA440	SYSTEM54			AVA351	AVA011			AVA362	AVA300
AVA270	SYSTEM54	SYSTEM54				AVA361	AVA070				AVA351
AVA351						AVA362	AVA190				AVA361
AVA361						AVA440	AVA200				AVA362
AVA362						SYSTEM54	AVA280				
AVA440						120mm	AVA300				
SYSTEM54						AVA005	AVA351				
						AVA006	AVA361				
						AVA011	AVA362				
						AVA060					

accessory usage quick reference

COMMERCIAL WINDOW	COMMERCIAL WALL	PROFESSIONAL		COMMERCIAL BUILT-IN	CENTRIFUGAL IN-DUCT	INDUSTRIAL IN-DUCT		MIXED FLOW		
AVA299	AVA012	AVA011	AVA301	AVACTRL2R	AVA010	AVA200	AVA010	AVA200	100mm	150mm
AVA301	AVA080	AVA012	AVA309	AVACTRLV	AVA011	AVA206	AVA011	AVA206	AVA010	AVA011
AVA351	AVA090	AVA070	AVA309/1	AVACTRLVRN	AVA012	AVA207	AVA012	AVA207	AVA050	AVA070
AVA361	AVA206	AVA080	AVA351		AVA050	AVA208	AVA050	AVA208	AVA100	AVA190
AVA362	AVA207	AVA090	AVA361		AVA060	AVA209	AVA060	AVA209	AVA120	AVA200
	AVA208	AVA190	AVA362		AVA070	AVA351	AVA070	SYSTEM54	AVA150	AVA300
	AVA209	AVA200			AVA071	AVA361	AVA071		AVA160	
	AVA295	AVA206			AVA080	AVA362	AVA080		AVA440	200mm
	AVA299	AVA207			AVA090	AVA440	AVA090			AVA012
	AVA301	AVA208			AVA100	SYSTEM54	AVA100		120mm	AVA071
	AVA309	AVA209			AVA120		AVA120		AVA011	AVA080
	AVA309/1	AVA268			AVA150		AVA150		AVA060	AVA209
	AVA351	AVA280			AVA160		AVA160		AVA170	
	AVA361	AVA295			AVA170		AVA170		AVA180	
	AVA362	AVA299			AVA180		AVA180		AVA190	
		AVA300			AVA190		AVA190			

use of controllers quick reference

Model	industrial in-duct range						industrial range							
	100	125	150	200	250	315	254	314	354	404	454	504	564	634
AVIC1N	●	●	●	●	●	●	●	●	●	○	○	○	○	○
AVIC4N	○	○	○	○	○	○	○	○	○	○	○	○	○	○
AVIC6N	○	○	○	○	○	○	○	○	○	○	○	○	○	○
AVIC6AN	○	○	○	○	○	○	○	○	○	○	○	○	○	○
AVIC8AN	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Model	commercial and professional range		
	230/9	300/12	Built-in
AVACTRL2R	○	●+	○
AVACTRLV	●*	●	●
AVACTRLVN	○	●+	●

* excludes humidistat models
 + excludes manual pull cord models.
 Built-in BIAC 9" and 12" models are supplied with a 5-speed reverse controller as standard.