

AACV AIR CONDITIONERS SUMMARY

AACV AIR CONDITIONER SUMMARY



K-AACVSUM-1

K-AACVSUM-1

AACV AIR CONDITIONER

AACV INDOOR FAN COIL UNIT INSTALLATION & COMMISSIONING

GENERAL MAINTENANCE

AACV AIRCONDITIONER WIRING DIAGRAM

OUTDOOR CONDENSING UNIT RUNNING STATUS & FAULT INDICATION

AACV AIR CONDITIONER COMMISSIONING SHEET



K-AACV 1

K-AACV 1-2

K-AACV 3

K-AACV 4

K-AACV-5

K-AACV-6



AACV147 AIR CONDITIONER

GENERAL INFORMATION



K-AACV147-1

K-AACV147 1-6



AACV164 AIR CONDITIONER

GENERAL INFORMATION



K-AACV164-1

K-AACV164 1-6



AACV200 AIR CONDITIONER

GENERAL INFORMATION



K-AACV200-1

K-AACV200 1-6

DUCTED SPLIT SYSTEM AIR CONDITIONER SUMMARY OF RANGE

AdvantageAir

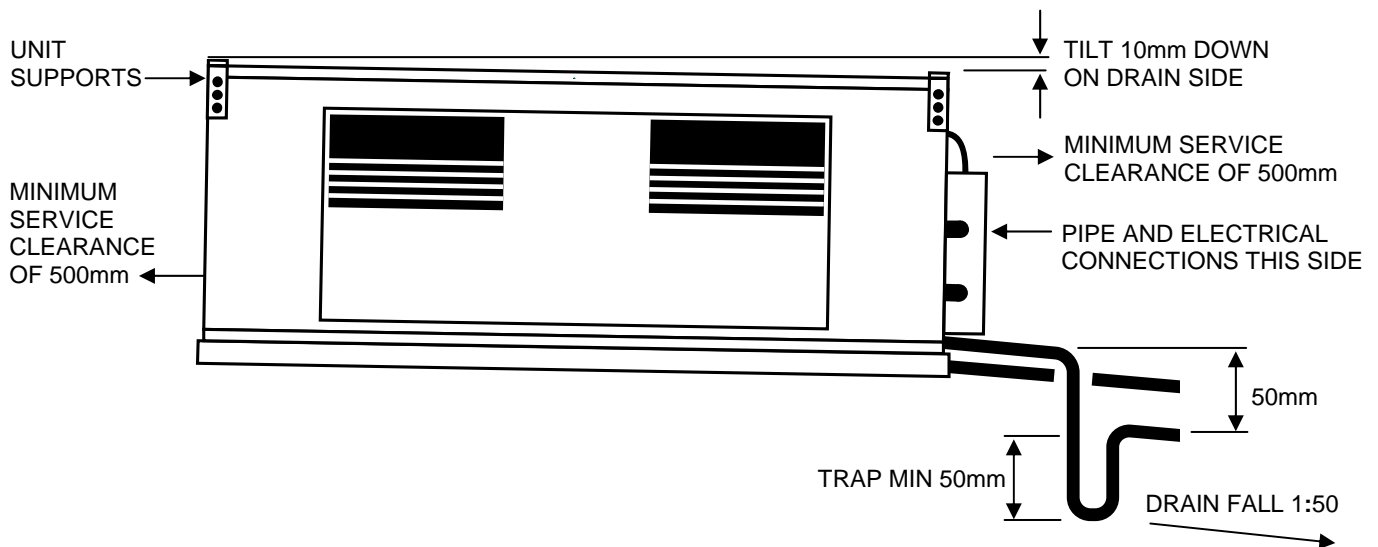
SYSTEM	AACV-147-FCU/CON1	AACV-164-FCU/CON3	AACV-200-FCU/CON3
Nominal cooling capacity (kW) ¹	14.8	16.5	21.3
Nominal heating capacity (kW) ¹	15.1	17.6	23.3
Nominal air flow (l/s) ²	850	850	1160
System power input (kW)	5.2	6.4	7.8
Running current (Amps)	23.7 (as per AS 3823.1.2)	12.5 (as per AS 3823.1.2)	14
Full load current (Amps)	32.6	15.6	20
System EER (W/W)	2.83 ⁽³⁾	2.57 ⁽³⁾	2.77
System COP (W/W)	3.00 ⁽³⁾	2.90 ⁽³⁾	3.00
Refrigerant	R407C	R407C	R407C
Refrigerant Circuit	1	1	2
Refrigeration Charge (PER CIRCUIT)	4.7 kg	4.7 kg	4.5 kg
Additional refrigerant charge	65 g/m over 7 meters		
System oil Charge (PER CIRCUIT)	1.68 kg	1.68 kg	1.36 kg
Refrigerant suction pipe size (dia)	19mm (3/4")	19mm (3/4")	19mm (3/4")
Refrigerant liquid pipe size (dia)	9.5mm (3/8")	9.5mm (3/8")	9.5mm (3/8")
System maximum pipe length	50 meters	50 meters	50 meters
System maximum elevation	30 meters	30 meters	30 meters
System maximum no. elbows or bends	10	10	10
FANCOIL UNIT			
Fan type	Twin forward curved centrifugal		
Standard airflow (Hi / Med / Lo) (l/s) ²	850 / 740 / 630	850 / 740 / 630	1160 / 1120 / 1080
Maximum coil face velocity	2.5m/s	2.5m/s	2.5m/s
Power supply	230V / 50 Hz / 1 phase	240V / 50 Hz / 1 phase	240V / 50 Hz / 1 phase
Motor output (kW)	0.58	0.58	-
Running Current:(Amps)	2.6	2.6	4.5
Cabinet construction	Galvanized steel		
Cabinet insulation type	Closed cell material with aluminum foil faced (8mm)		
Condensate drain tray construction	Stainless steel		
Safety tray construction	Galvanized steel		
Condensate drain pipe size (OD)	25.4 mm	25.4 mm	25.4 mm
Safety tray pipe size (OD)	25.4 mm	25.4 mm	25.4 mm
Size Width x Depth x Height (mm)	1145 x 600 x 410	1145 x 600 x 410	1495 x 680 x 460
Spigot dimensions (mm)	Supply 710 x 305 Return 940 x 325	Supply 710 x 305 Return 940 x 325	Supply 865 x 310 Return 1260 x 380
Noise level dB(A) ⁴	47	47	-
Indoor fan coil unit mass	75 kg	75 kg	98 kg
CONDENSING UNIT			
Compressor (PER OUTDOOR UNIT)	Single Copeland scroll	Single Copeland scroll	Single Copeland Scroll
Condenser fan type (PER OUTDOOR UNIT)	Twin variable speed propeller		Twin variable speed propeller
Power supply	230V / 50 Hz / 1 phase	415V / 50 Hz / 3 phase	415V / 50 Hz / 3 phase
Defrost Method	Reverse Cycle	Reverse Cycle	Reverse Cycle
Size Width x Depth x Height (mm) (PER OUTDOOR UNIT)	970 x 410 x 1465	970 x 410 x 1465	970 x 400 x 1255
Noise level dB(A) ⁵ High - low	54 - 49	57 - 52	58 - 52
Outdoor condensing unit mass (PER OUTDOOR UNIT)	150 kg	150 kg	110kg

1. Capacity based on 27°C EDB / 19°C EWB indoor and 35°C outdoor temperatures.
2. AS 3823 standard air flow conditions. 60Pa external static pressure.

3. AS 3823.2:2003 MEPS rating
4. Measured at 1.5 meters from unit
5. Measured at 1.0 meter from unit. Dependent on ambient temperature, mode of operation and number of units running. Preliminary measurements only.

INDOOR FAN COIL UNIT INSTALLATION & COMMISSIONING

AdvantageAir



FAN COIL UNIT INSTALLATION

- Unit must be installed in accordance with all national and local safety codes.
- Suitable anti vibration mountings must be used to minimize the transfer of vibration into the building structure.
- The minimum maintenance clearance should be maintained.
- The fan coil unit must be tilted 10mm lower on the drain side to ensure proper condensate drainage.
- The condensate drain must be trapped with a minimum vertical P trap height of 50mm. A separate drain must be installed from the safety tray. Both drains must be installed with a minimum fall of 1:50 to ensure free drainage. If inadequate space is available to ensure gravity drainage, an electrical condensate pump must be installed
- In high humidity areas the condensate drain should be insulated.

REFRIGERATION PIPEWORK

- Refrigeration pipe work must be installed by a qualified refrigeration technician and in accordance with the local, state and national regulations and all relevant Australian Standards.
- The unit is designed for use only with refrigerant R407C. The use of other refrigerants is not permitted and may cause operational problems and damage to the unit and will void the warranty.
- Refrigerants shall not be released to the atmosphere during the installation of the unit.
- All refrigeration pipe work must be insulated and all insulation joins glued, taped and sealed.
- Pipe work exposed to direct sunlight should be installed in suitable trunking.

ELECTRICAL WIRING

All electrical work must be carried out by a qualified electrician and be installed and tested in accordance with the local supply authority regulations, AS3000 and Advantage Air's wiring diagram

COMMISSIONING

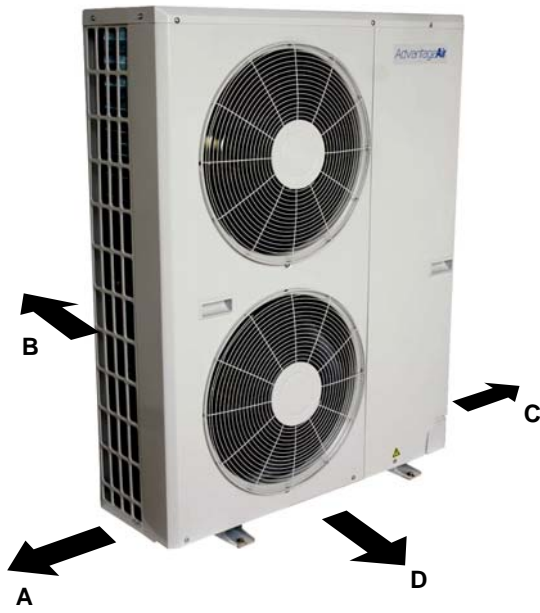
- Check that all electrical work is complete and in accordance with the wiring diagram.
- Check that all refrigerant and drain pipe work is complete and that the pipe insulation totally encloses the associated pipe.
- Check that air filter is installed and clean.
- Check that the fan runs freely without vibration and restriction.
- Check that the condensate drain allows a free flow of water and does not hold water at any point, apart from any 'P-trap' installed.
- Run the unit in Cooling, Vent and Heating modes.
- Train the customer in the use of the system.
- Refer to Advantage Air's relevant control system technical data for installation of controls.

No liability

Make sure you read and understand all the installation instructions before you install this Air Conditioner. Advantage Air (Aust) Pty Ltd does not accept any responsibility for any loss or damage that may be caused either directly or indirectly by the installation of this Air Conditioner.

OUTDOOR CONDENSING UNIT INSTALLATION & COMMISSIONING

AdvantageAir



Dimension mm	A	B	C	D
Minimum Clearance required (mm)	200	150	600	800

INSTALLATION

- Unit must be installed in accordance with all national and local safety codes.
- Suitable anti vibration mountings must be used to minimize the transfer of vibration into the building structure.
- The minimum maintenance and airflow clearance should be maintained.
- Locate the outdoor unit in a suitable position where the noise from the unit will not affect occupants or neighbors.
- Position the unit to prevent prevailing winds from causing short circuiting of condenser air.
- For multiple outdoor units installations, units should discharge away from each other.
- For floor mounting the condensing unit must be mounted on a solid level base clear of vegetation
- For high level wall mounting the condensing unit must be mounted on a suitable frame securely fixed to the wall.
- For roof mounting the condensing unit must be mounted on a suitable level structure.
- The condensing unit must be fastened down to the base to prevent movement in high winds.
- Install the unit with a positive fall to the rear to ensure condensate and/or rain water drains away. For a totally drip free installation, it is recommended that a drain tray is installed under the unit and piped to waste.
- AACV indoor and outdoor units must be mounted on suitable Anti-Vibration Mounts (AVM). Depending on the environment, different AVMs are required. SPRING isomounts, WP waffle pads, AVM GREEN KIT and AVM RED KIT can be ordered separately. Please see table below for correct selection of AVMs and Sundry section of the Technical Catalogue for product data.

	MOUNTING ENVIRONMENT			
	CEILING SPACE	FLOOR MOUNT	ROOF MOUNT	WALL MOUNT
ALL AACV FAN COIL UNIT	SPRING (ISOMOUNT)	N/A	N/A	N/A
AACV-147-CON1 (OUTDOOE UNIT)	N/A	WP (WAFFLE PAD)	AVM GREEN	AVM GREEN
AACV-164-CON3 (OUTDOOR UNIT)	N/A	WP (WAFFLE PAD)	AVM GREEN	AVM GREEN
AACV-200-CON3 (OUTDOOR UNIT)	N/A	WP (WAFFLE PAD)	AVM RED	AVM RED

ELECTRICAL WIRING

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OUTDOOR CONDENSING UNIT INSTALLATION & COMMISSIONING

AdvantageAir

REFRIGERATION PIPEWORK

- Refrigeration pipe work must be installed by a qualified refrigeration technician and in accordance with the local, state and national regulations and all relevant Australian Standards.
- The unit is designed for use only with refrigerant R407C. The use of other refrigerants is not permitted and may cause operational problems and damage to the unit and will void the warranty.
- Refrigerants shall not be released to the atmosphere during the installation of the unit.
- Refer to outdoor unit specifications for refrigerant charge, pipe sizes, pipe lengths.
- If the outdoor unit is installed above the indoor unit, correctly engineered traps and dual risers must be installed to ensure oil return to the compressor.
- All refrigeration pipe work must be insulated and all insulation joins glued, taped and sealed.
- Pipe work exposed to direct sunlight should be installed in suitable trunking.
- The unit is factory charged with sufficient refrigerant for a 7 meter pipe run (one way). Additional refrigerant must be added at a rate of 65grams per meter (as per the table below)

Pipe Length (m)	Additional refrigerant charge (g)
8	65
9	130
10	195
15	520
20	845
25	1170
30	1495

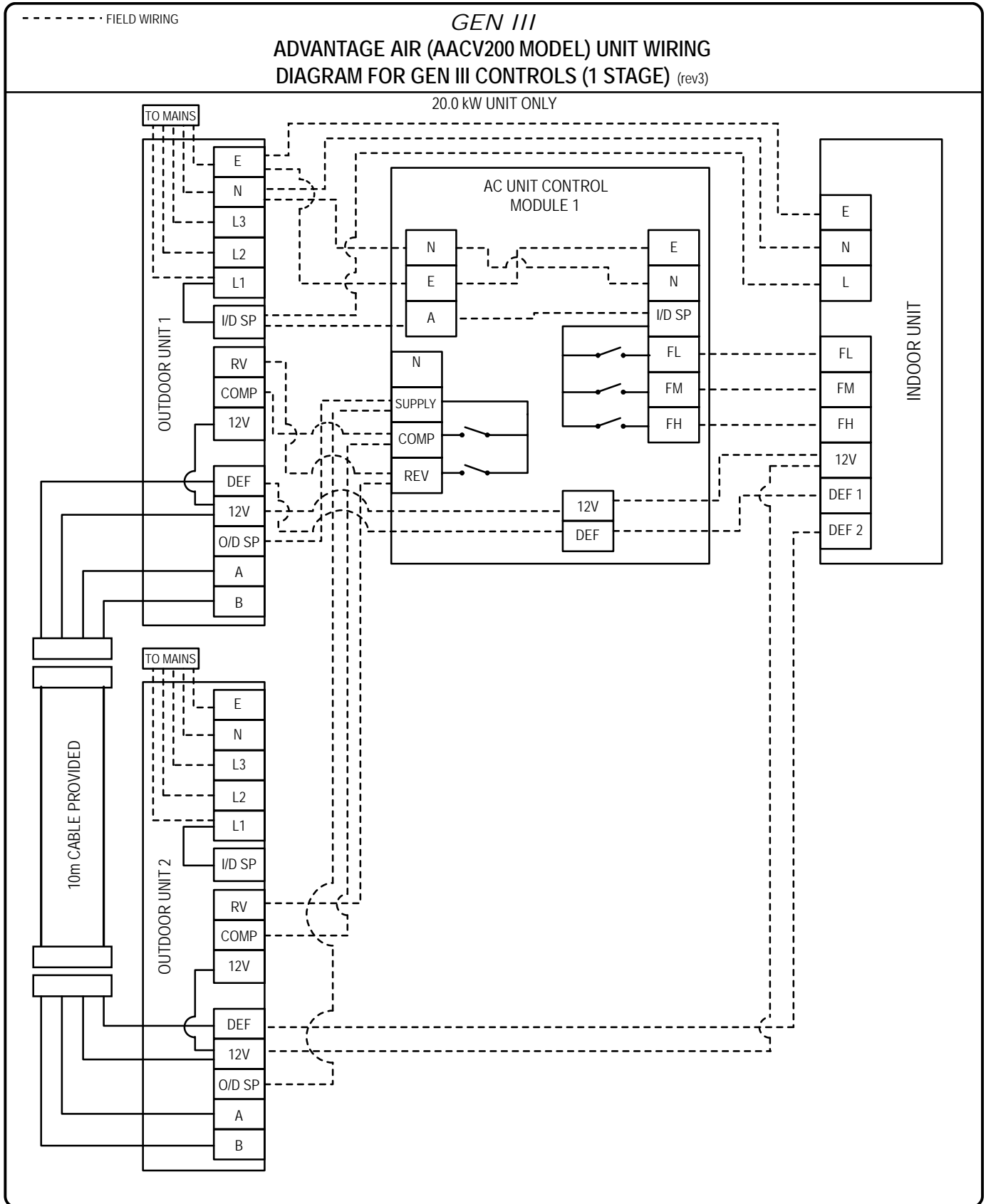
COMMISSIONING & START UP PROCEDURE

- Check fan motors are free running, and air inlet and outlet are not obstructed.
- Switch on the unit, check the voltages and current drawn on the compressor motors and fan motors against the specified values.
- Fit gauges and measure and record the suction pressures.
- Test the operation in cooling and heating modes.
- Complete the Advantage Air test report
- Train the customer in the use of their system.

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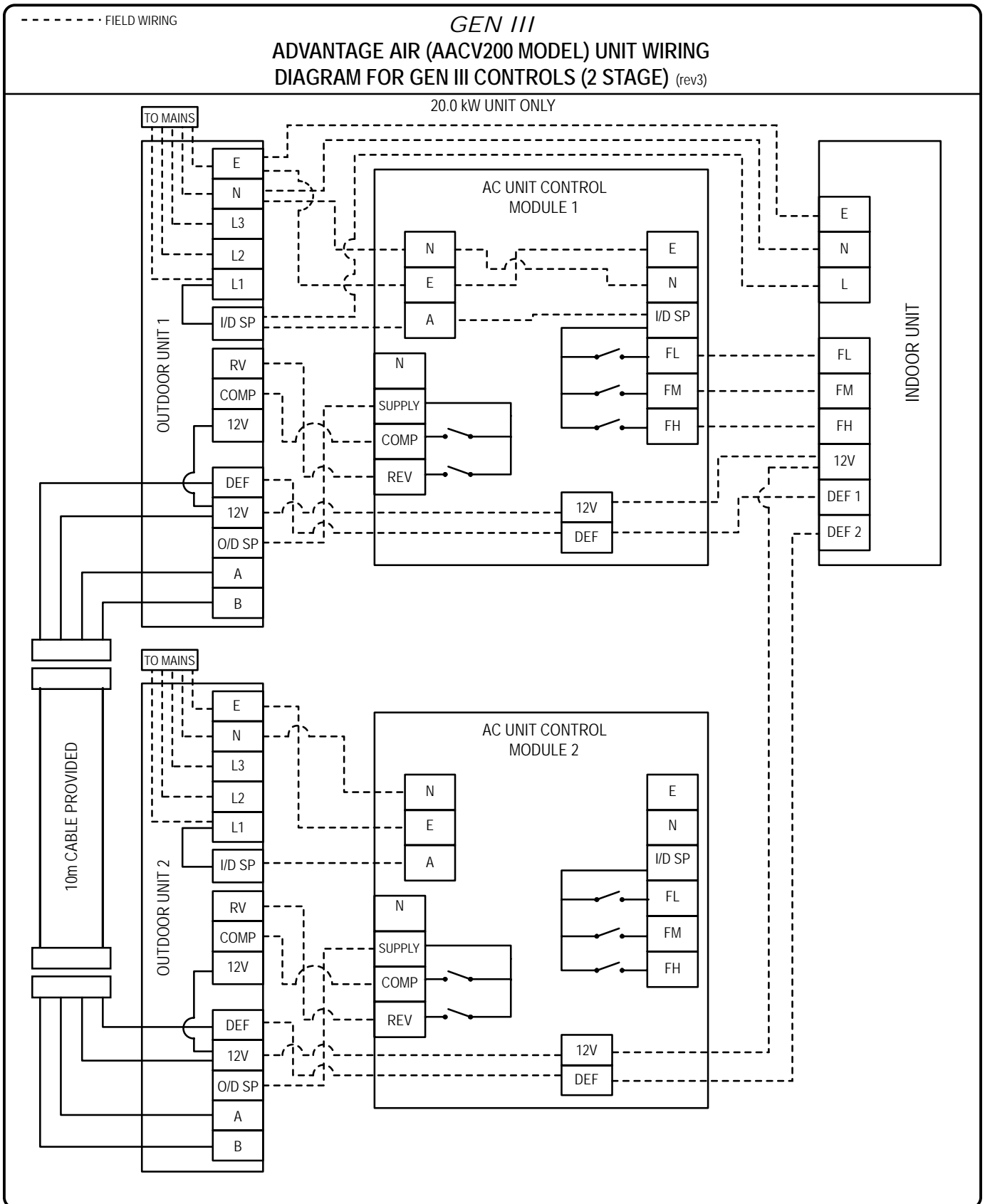
AACV 200 AIR CONDITIONER WIRING DIAGRAM 1 STAGE



No liability

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AACV 200 AIR CONDITIONER WIRING DIAGRAM 2 STAGE



No liability

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AACV OUTDOOR CONDENSING UNIT RUNNING STATUS & FAULT INDICATION



1. Ensure dipswitch SW3-1 and 2 are in the OFF position.
2. Press SW2 to switch between RUNNING STATUS and FAULT indication.
3. Press SW 1 to clear all faults. All faults will be cleared once power supply to the system is isolated.
4. When the system detects a fault it will automatically reset after 3 minutes . However, if the same fault occurs again within the next 30 minutes, the system will shut down and will require manual reset by switching the condensing unit isolator off and back on.

RUNNING STATUS

LED No.	COMMAND / EQUIPMENT STATUS	LED DISPLAY		
		UNIT OFF	COOLING	HEATING
LED 8	Compressor Crankcase Heater On	ON		
LED 7	Bypass Valve On	ON for 30 sec when comp switches off		May be ON when HP Switch (LED3) is ON
LED 6	Reverse valve On			ON
LED 5	Outdoor Fan On		ON	ON
LED 4	Compressor On		ON	ON
LED 3	High Pressure Switch On			INTERMITENT
LED 2	Heating Command			ON
LED 1	Start Compressor Command		ON	ON

FAULT INDICATION

LED No.	EQUIPMENT STATUS	LED DISPLAY	POSSIBLE CAUSE	POSSIBLE SOLUTIONS
LED 8	Faulty control board	FLASHING	Faulty control PCB	Replace outdoor control PCB
LED 7	Overheat Protection (Outdoor coil is above 70 °C)	FLASHING	Outdoor fan faulty	Check fan
			Refrigerant over charged	Weigh in new charge
			Dirty condenser coil	Clean condenser coil
			Short cycling of hot condenser air	Relocate obstruction or unit
			Faulty sensor connection	Check connection
			Faulty sensor	Replace sensor
LED 6	Not used			
LED 5	High Temperature Protection (refrigerant discharge above 130 °C)	FLASHING	Outdoor fan faulty	Check fan
			Refrigerant over charged	Weigh in new charge
			Dirty condenser coil	Clean condenser coil
			Short cycling of hot condenser air	Relocate obstruction or unit
			Faulty sensor connection	Check connection
			Faulty sensor	Replace sensor
LED 4	Low Refrigerant Pressure Protection	FLASHING	Refrigerant leak.	Leak test system
			Low Refrigerant charge	Weigh in new charge
			Low indoor air flow	Check indoor fan, filter and coil
			Faulty sensor connection	Check connection
			Faulty LP sensor	Replace sensor
LED 3	Faulty Outdoor Coil sensor	FLASHING	Faulty wiring connection or sensor	Check connection / replace sensor
LED 2	Missing Phase (3 Phase units only)	FLASHING	Power failure on one or more phases	Check power supply
LED 1	Anti-Phase (3 Phase units only)	FLASHING	Incorrect mains cable termination	Check cable termination

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AACV AIR CONDITIONER COMMISSIONING SHEET



Model No.: _____

Condensing Unit Serial No.: _____

Company: _____

Fan Coil Unit Serial No.: _____

Installer: _____

Date of Installation: _____

Date of Commissioning: _____

REFRIGERATION

Refrigerant type	
Pipe Sizes: Suction/ Liquid (mm)	
Line Lengths: Horizontal/ Vertical/ Total (Meters)	
What pressure was the system evacuated to?	
Refrigerant added/ Total refrigerant in system (kg)	
Amount of oil added to system (g)	
Suction pressure on Cooling (kPa)	
Refrigerant leak test	

ELECTRICAL

Supply Voltage (V)	
Compressor Running current (A)/ designed current (A)	
Outdoor unit fan running current (A)	
Indoor Fan running current (A)	
Total Unit running current (A)	

TEMPERATURE

Outdoor ambient temperature (°C)	
Indoor Unit air on/off coil temperature (°C)	
Outdoor Unit air on/off coil temperature (°C)	

GENERAL

Air filter installed?	
Condensate drain and safety drain tested?	
Indoor fan coil unit vibration checked	
Outdoor condensing unit vibration checked	

REMARKS:

This form must be completed and returned to Advantage Air to validate unit warranty

DUCTED SPLIT SYSTEM AIR CONDITIONER AACV-147-FCU/CON1

AdvantageAir



Outdoor unit AACV-147-CON1



Indoor unit AACV-147-FCU

FEATURES

- Nominal cooling capacity 14.8 kW
- Nominal heating capacity 15.1 kW
- Nominal airflow 850 l/s
- Refrigerant R407C, with zero ozone depleting potential (ODP).
- Single Phase with factory fitted soft starter
- Reliable Copeland scroll compressor
- 3 speed fan on indoor unit
- Variable speed outdoor fans for lower noise levels at part load conditions
- Fully compatible with Control Air Platinum control system with easy interface terminals
- Self diagnostic LED's to indicate running and fault status.
- Electronic HP/LP protection with auto reset
- Anti cycle timer
- Internal compressor overload protection
- Control system circuit breaker
- Time and temperature controlled electronic de-ice to prevent outdoor coil ice-up during heating

CONSTRUCTION

- Indoor units are constructed from high grade galvanized steel.
- Indoor unit come with a factory fitted stainless steel condensate drain tray and an external galvanized steel safety tray.

APPLICATIONS

- Suitable for reverse cycle ducted system for residential commercial and industrial applications.

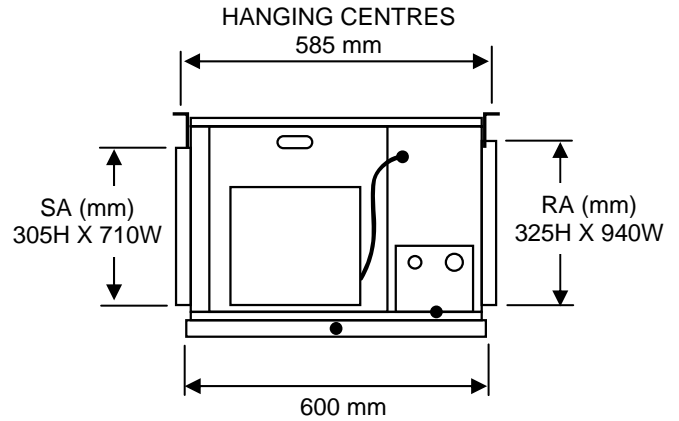
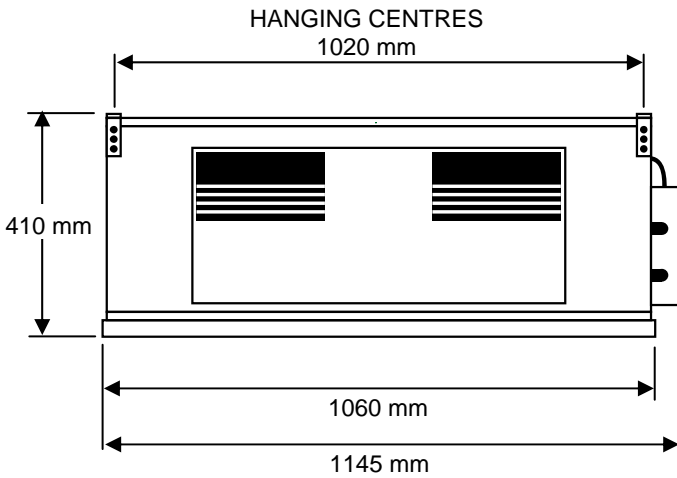
CONTROL SYSTEM OPTIONS

- This air conditioning unit has been specifically designed to interface directly with the following Advantage Air control systems:
 - Platinum system
 - The full range of Generation III control systems

INDOOR FAN COIL UNIT AACV-147-FCU

AdvantageAir

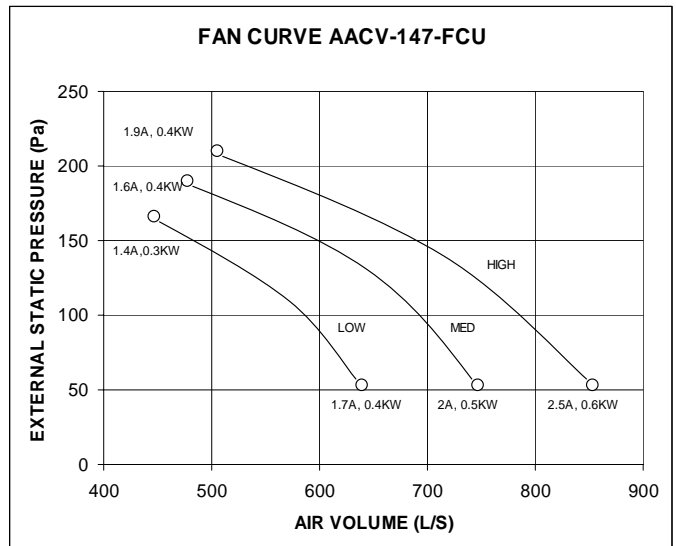
DIMENSIONS



TECHNICAL SPECIFICATIONS

Fan type	Twin forward curved centrifugal
Standard airflow (Hi / Med / Lo) (l/s)	850 / 740 / 630 @ 60 Pa external static pressure
Maximum coil face velocity in high humidity applications	2.5m/s
Power supply	230V / 50 Hz / 1 phase
Motor output: (kW)	0.58
Running Current:(Amps)	2.6
Cabinet construction	Galvanized steel
Cabinet insulation type	Closed cell material with aluminum foil faced (8mm)
Condensate drain tray construction	Stainless steel
Safety tray construction	Galvanized steel
Refrigerant	R407C
Refrigeration Charge	4.7 kg (up to 7 meters pipe length)
Defrost Method	Reverse Cycle
Refrigerant suction pipe size (DIA)	19 mm (3/4")
Refrigerant liquid pipe size (DIA)	9.5 mm (3/8")
Condensate drain pipe size (OD)	25.4 mm
Safety tray pipe size (OD)	25.4 mm
Indoor fan coil unit mass	75 kg

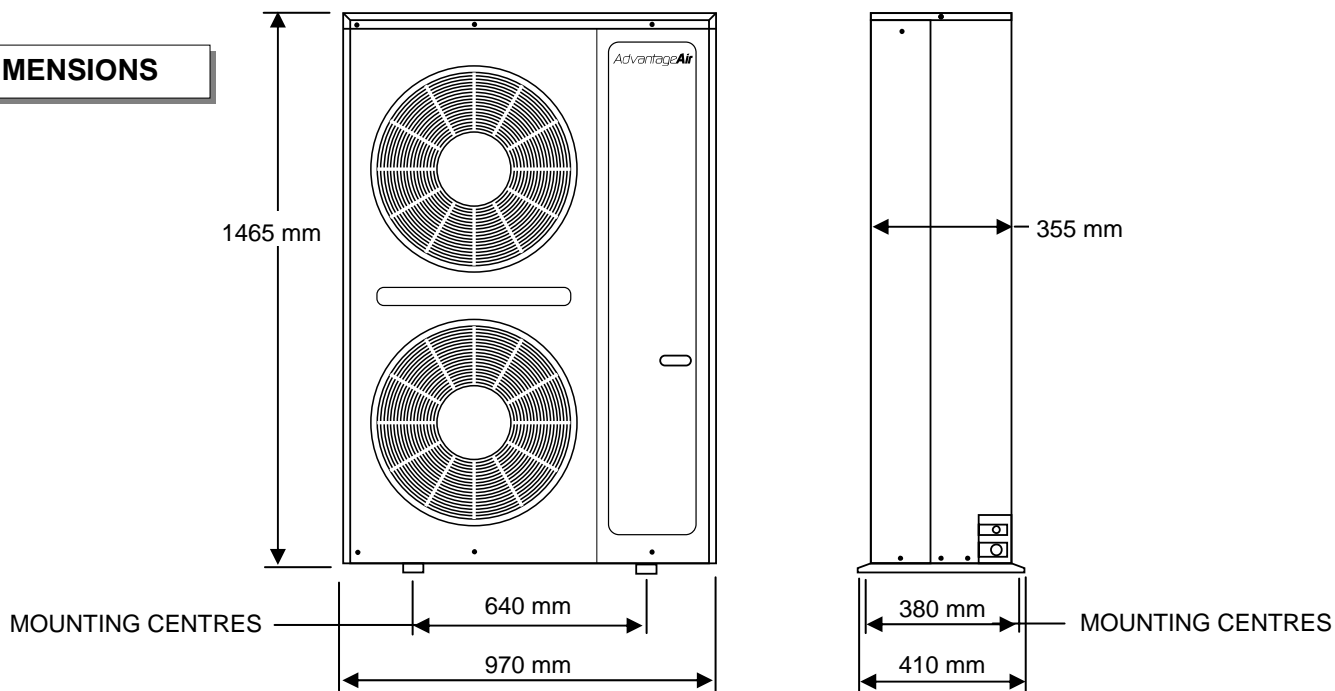
FAN PERFORMANCE CURVE



OUTDOOR CONDENSING UNIT AACV-147-CON1

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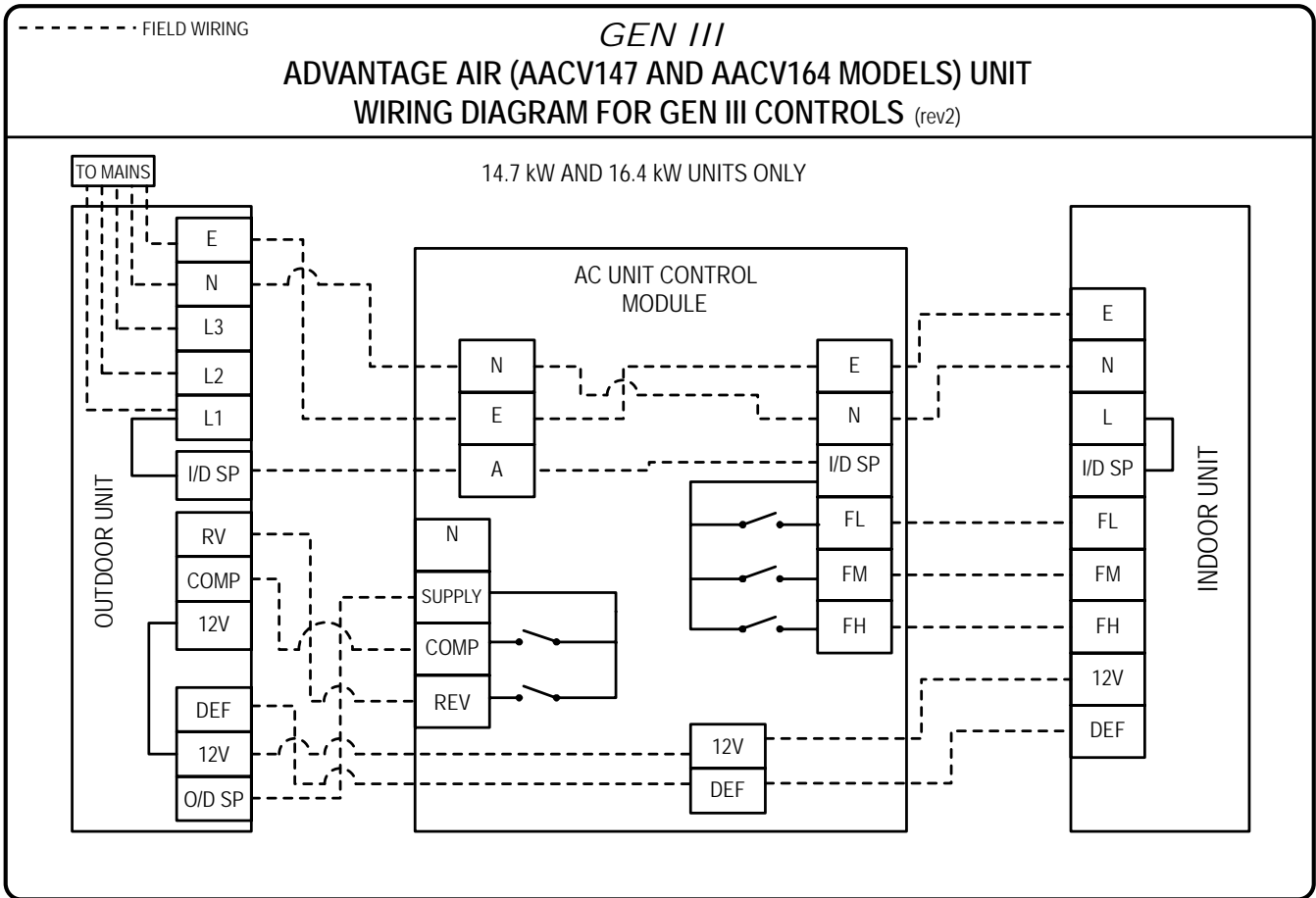
DIMENSIONS



TECHNICAL SPECIFICATIONS

Compressor	Single Copeland scroll
Condenser fan type	Twin variable speed propeller
Power supply	230V / 50 Hz / 1 phase
System power input (kW)	5.2
System running current (Amps)	32.6
System EER (W/W)	2.83
Refrigerant	R407C
System refrigeration charge	4.7 kg (up to 7 meters pipe length)
Additional refrigerant charge	65 grams per meter pipe length over 7 meters
System oil Charge	1.68 kg
Defrost Method	Reverse Cycle
Refrigerant suction pipe size (dia)	19mm (3/4")
Refrigerant liquid pipe size (dia)	9.5mm (3/8")
System maximum pipe length (one way)	50 meters
System maximum elevation (indoor to outdoor)	30 meters
System maximum no. elbows or bends	10
Outdoor condensing unit mass	150 kg

AACV AIR CONDITIONER AACV-147-FCU/CON1 WIRING DIAGRAM



No liability

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PERFORMANCE DATA AACV-147-FCU/CON1



INDOOR		OUTDOOR TEMP DB °C																																		
		27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43																		
Air qty	DB °C	WB °C	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH	TH SH																		
850	16	14.6	13.0	14.5	12.9	14.4	12.8	14.3	12.7	14.2	12.7	14.1	12.6	14	12.5	13.9	12.4	13.7	12.2	13.6	12.1	13.5	12.0	13.4	11.9	13.3	11.9	13.3	11.7	13	11.6	12.9	11.5	12.8	11.4	
850	23	17	15	12.2	14.9	12.1	14.8	12.0	14.7	11.9	14.6	11.8	14.5	11.7	14.4	11.7	14.2	11.5	14.1	11.4	14	11.3	13.9	11.3	13.8	11.2	13.6	11.0	13.5	10.9	13.4	10.9	13.2	10.7	13.1	10.6
850	24	17	15	13.2	14.9	13.2	14.8	13.1	14.7	13.0	14.6	12.9	14.5	12.8	14.3	12.6	14.2	12.5	14.1	12.5	14.0	12.4	13.9	12.3	13.7	12.1	13.6	12.0	13.5	11.9	13.4	11.8	13.2	11.7	13.1	11.6
850	25	18	15.4	12.5	15.4	12.5	15.3	12.4	15.2	12.3	15.0	12.1	14.9	12.1	14.7	11.9	14.6	11.8	14.5	11.7	14.4	11.6	14.2	11.5	14.1	11.4	14.0	11.3	13.9	11.2	13.7	11.1	13.6	11.0	13.5	10.9
850	26	18	15.4	13.4	15.3	13.3	15.2	13.3	15.1	13.2	15.0	13.1	14.8	12.9	14.7	12.8	14.6	12.7	14.5	12.6	14.4	12.6	14.2	12.4	14.1	12.3	14.0	12.2	13.9	12.1	13.7	11.9	13.6	11.9	13.4	11.7
850	27	19	15.7	13.7	15.6	13.6	15.5	13.5	15.4	13.5	15.3	13.4	15.2	13.3	15.0	13.1	14.9	13.0	14.8	12.9	14.7	12.8	14.5	12.7	14.4	12.6	14.3	12.5	14.1	12.3	14.0	12.2	13.9	12.1	13.7	12.0
850	28	19	15.8	13.6	15.7	13.5	15.6	13.4	15.5	13.3	15.3	13.1	15.2	13.0	15.1	13.0	15.0	12.9	14.9	12.8	14.7	12.6	14.6	12.5	14.5	12.4	14.3	12.3	14.2	12.2	14.1	12.1	13.9	11.9	13.8	11.8
850	29	20	16.2	12.9	16.1	12.8	16	12.7	15.9	12.6	15.8	12.5	15.6	12.4	15.5	12.3	15.4	12.2	15.3	12.1	15.1	12.0	15.0	11.9	14.9	11.8	14.7	11.7	14.6	11.6	14.4	11.4	14.3	11.4	14.2	11.3
850	30	21	16.6	12.3	16.5	12.2	16.4	12.1	16.3	12.0	16.2	12.0	16.0	11.8	15.9	11.8	15.8	11.7	15.6	11.5	15.5	11.5	15.4	11.4	15.2	11.2	15.1	11.2	15	11.1	14.8	10.9	14.7	10.9	14.5	10.7

INDOOR		OUTDOOR TEMP DB °C																																	
		-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10																		
Air qty	DB °C	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett
850	16	10.7	9.6	11.1	10.0	11.4	10.3	11.8	10.6	12.1	10.9	12.5	11.3	12.8	10.2	13.2	11.2	13.5	11.5	13.9	11.8	14.3	12.5	14.7	13.2	15.1	14.3	15.5	15.5	15.9	15.9	16.4	16.4	16.4	16.4
850	19	10.7	9.6	11.1	10.0	11.4	10.3	11.7	10.5	12.1	10.9	12.4	11.2	12.8	10.2	13.1	11.1	13.5	11.5	13.9	11.8	14.2	12.4	14.6	13.1	15.1	14.3	15.5	15.5	15.9	15.9	16.3	16.3	16.3	16.3
850	20	10.7	9.6	11.1	10.0	11.4	10.3	11.7	10.5	12.1	10.9	12.4	11.2	12.8	10.2	13.1	11.1	13.5	11.5	13.8	11.7	14.2	12.4	14.6	13.1	15.1	14.3	15.4	15.4	15.8	15.8	16.3	16.3	16.3	16.3
850	22	10.7	9.6	11.1	10.0	11.4	10.3	11.7	10.5	12.1	10.9	12.4	11.2	12.8	10.2	13.1	11.1	13.5	11.5	13.8	11.7	14.2	12.4	14.5	13.1	15	14.2	15.4	15.4	15.8	15.8	16.2	16.2	16.2	16.2
850	25	10.7	9.6	11	9.9	11.4	10.3	11.7	10.5	12	10.8	12.4	11.2	12.7	10.2	13.1	11.1	13.4	11.4	13.8	11.7	14.1	12.3	14.5	13.1	15	14.2	15.3	15.3	15.7	15.7	16.1	16.1	16.1	16.1

AS 3823.2:2003 MINIMUM ENERGY PERFORMANCE TEST	
(Conditions shown highlighted)	
Refrigerant	R407C
Pipe length (m)	7.5
Air quantity (l/s)	848 @ 60Pa esp
Cooling Capacity T1 Test	
Total cooling capacity (kW)	14.76
Sensible cooling capacity (kW)	12.89
Energy consumption (kWh)	5.22
Energy efficiency Ratio (EER)	2.83
Heating Capacity H1 Test	
Total heating capacity (kW)	15.08
Energy consumption (kWh)	5.03
Coefficient of performance (COP)	3.00

OUTDOOR CONDENSING UNIT AACV-147-FCU/CON1



PERFORMANCE CORRECTION FACTORS

INDOOR AIR FLOW CORRECTION	
Percent of Rated Flow	Capacity Correction Factor
110%	1.02
100%	1.00
90%	0.98
80%	0.96
70%	0.94

REFRIGERANT PIPE CORRECTION	
Equivalent Pipe length in meters (one way)	Capacity Correction Factor
10	0.98
20	0.96
30	0.94
40	0.92
50	0.89

NOISE DATA

FAN COIL UNIT NOISE DATA HIGH SPEED							
IN DUCT SOUND POWER LEVELS (L _w)	125	250	500	1K	2K	4K	8K
Return air inlet (dB)	64.9	62.7	57.3	57.4	57	56.6	45.1
Supply air outlet (dB)	57.7	57.1	59.5	62.2	58.8	58	56.4
Casing radiation (dB)	54	51.2	47.6	40.8	36.9	33.3	26.7
Free blow - total (dB)	68.4	64.3	63.3	64.7	62	60	56.6
SOUND PRESSURE LEVELS (L _p)* Free blow - total dB(A)	47						

CONDENSING UNIT NOISE DATA	dB(A)
SOUND PRESSURE LEVELS (L _p)**	54 - 49

* Measured at 1.5 meters from unit with a reverberation time of 0.23 seconds.

** Measured at 1.0 meter from unit. Dependent on ambient temperature, mode of operation and number of units running.

DUCTED SPLIT SYSTEM AIR CONDITIONER AACV-164-FCU/CON3

AdvantageAir



Outdoor unit AACV-164-CON3



Indoor unit AACV-164-FCU

FEATURES

- Nominal cooling capacity 16.5 kW
- Nominal heating capacity 17.6 kW
- Nominal airflow 850 l/s
- Refrigerant R407C, with zero ozone depleting potential (ODP).
- Three phase electrical supply
- Reliable Copeland scroll compressor
- 3 speed fan on indoor unit
- Variable speed outdoor fans for lower noise levels at part load conditions
- Fully compatible with Control Air Platinum control system with easy interface terminals
- Self diagnostic LED's to indicate running and fault status.
- Electronic HP/LP protection with auto reset
- Anti cycle timer
- Internal compressor overload protection
- Control system circuit breaker
- Time and temperature controlled electronic de-ice to prevent outdoor coil ice-up during heating

CONSTRUCTION

- Indoor units are constructed from high grade galvanized steel.
- Indoor unit come with a factory fitted stainless steel condensate drain tray and an external galvanized steel safety tray.

APPLICATIONS

- Suitable for reverse cycle ducted system for residential commercial and industrial applications.

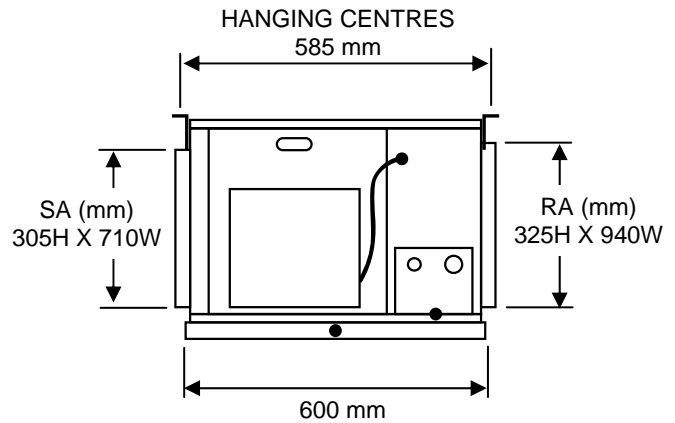
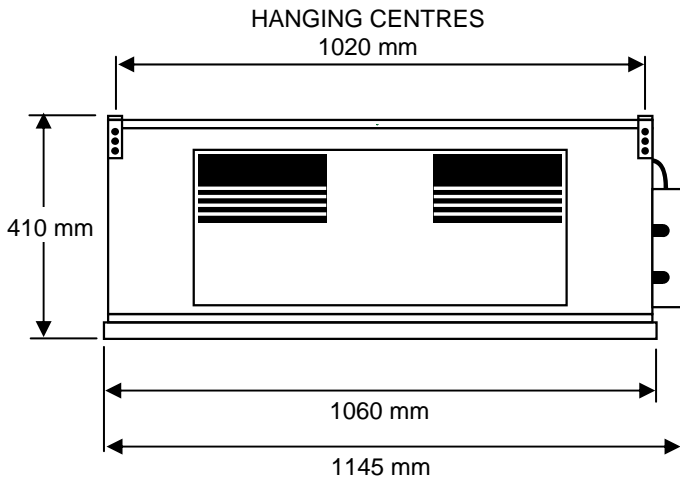
CONTROL SYSTEM OPTIONS

- This air conditioning unit has been specifically designed to interface directly with the following Advantage Air control systems:
 - Platinum system
 - The full range of Generation III control systems

INDOOR FAN COIL UNIT AACV-164-FCU

AdvantageAir

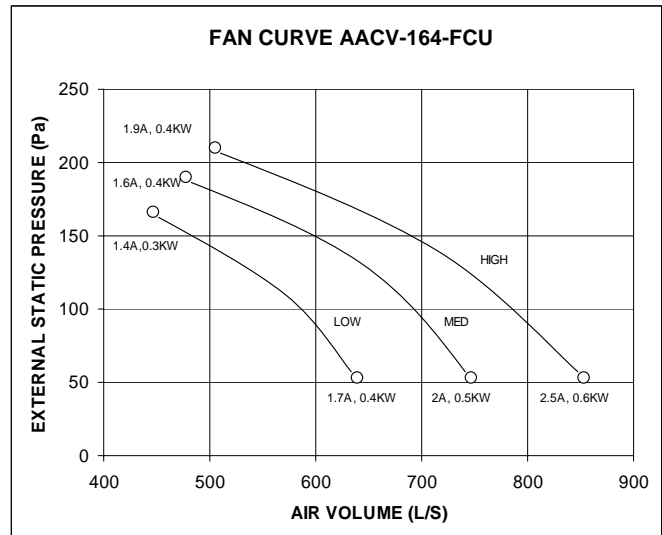
DIMENSIONS



TECHNICAL SPECIFICATIONS

Fan type	Twin forward curved centrifugal
Standard airflow (Hi / Med / Lo) (l/s)	850 / 740 / 630 @ 60 Pa external static pressure
Power supply	240V / 50 Hz / 1 phase
Maximum coil face velocity in high humidity applications	2.5m/s
Motor output: (kW)	0.58
Running Current:(Amps)	2.6
Cabinet construction	Galvanized steel
Cabinet insulation type	Closed cell material with aluminum foil faced (8mm)
Condensate drain tray construction	Stainless steel
Safety tray construction	Galvanized steel
Refrigerant	R407C
Refrigeration Charge	4.7 kg (up to 7 meters pipe length)
Defrost Method	Reverse Cycle
Refrigerant suction pipe size (dia)	19 mm (3/4")
Refrigerant liquid pipe size (dia)	9.5 mm (3/8")
Condensate drain pipe size (OD)	25.4 mm
Safety tray pipe size (OD)	25.4 mm
Indoor fan coil unit mass	75 kg

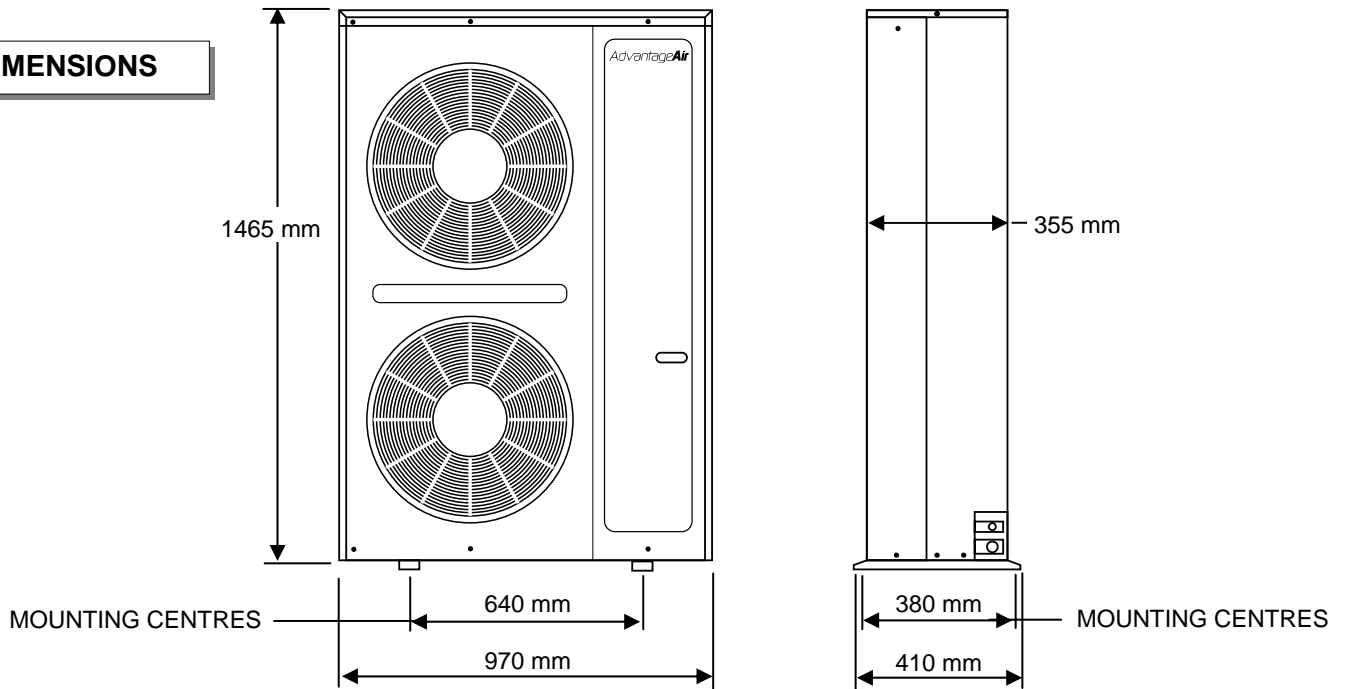
FAN PERFORMANCE CURVE



OUTDOOR CONDENSING UNIT AACV-164-CON3

AdvantageAir

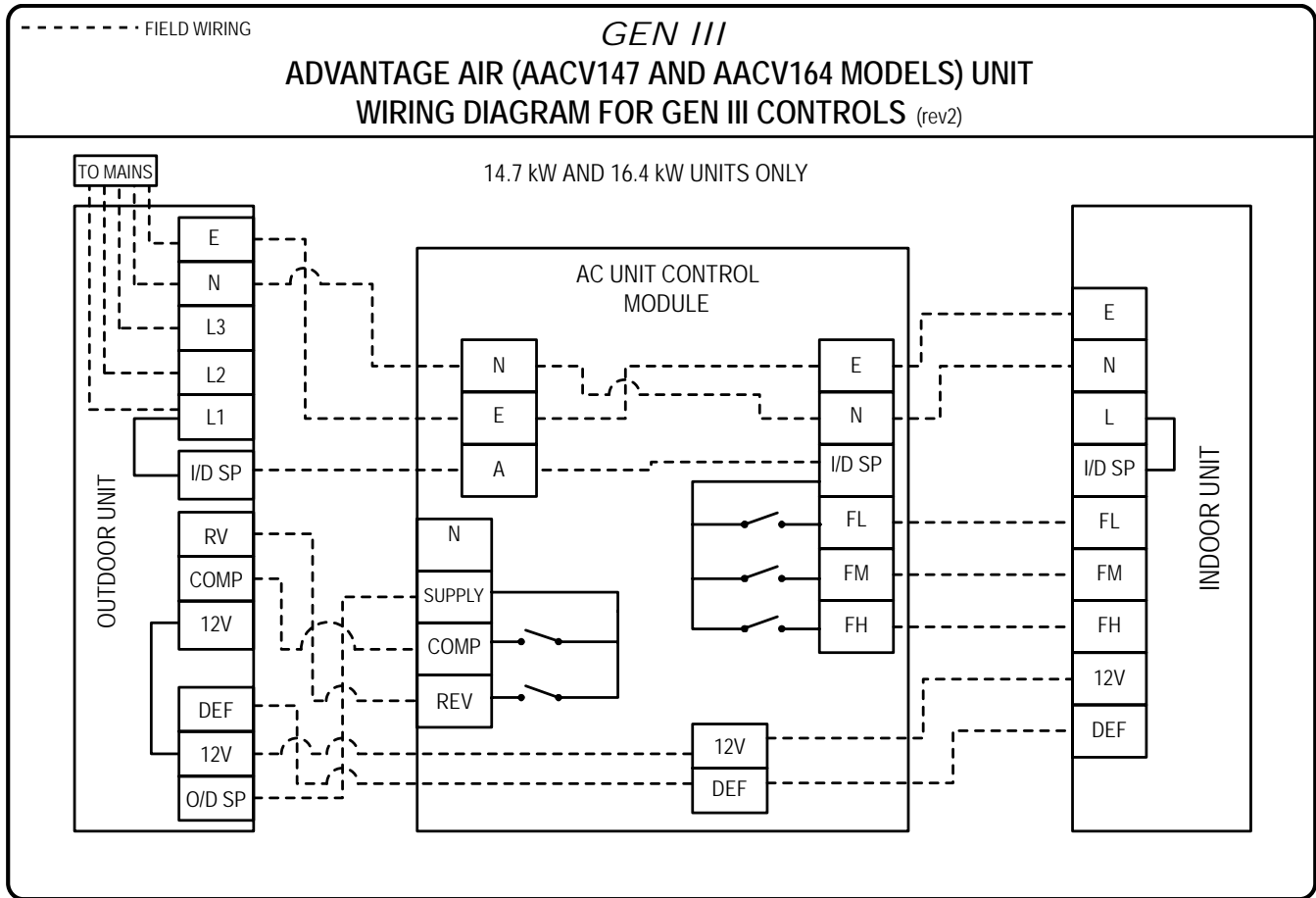
DIMENSIONS



TECHNICAL SPECIFICATIONS

Compressor	Single Copeland scroll
Condenser fan type	Twin variable speed propeller
Power supply	415V / 50 Hz / 3 phase
System power input (kW)	6.4
System running current (Amps)	15.6
System EER (W/W)	2.57
Refrigerant	R407C
System refrigeration charge	4.7 kg (up to 7 meters pipe length)
Additional refrigerant charge	65 grams per meter pipe length over 7 meters
System oil Charge	1.68 kg
Defrost Method	Reverse Cycle
Refrigerant suction pipe size (dia)	19mm (3/4")
Refrigerant liquid pipe size (dia)	9.5mm (3/8")
System maximum pipe length (one way)	50 meters
System maximum elevation (indoor to outdoor)	30 meters
System maximum no. elbows or bends	10
Outdoor condensing unit mass	150 kg

AACV AIR CONDITIONER AACV-164-FCU/CON3 WIRING DIAGRAM



No liability

Make sure you read and understand all the installation instructions before you install this Air Conditioner. Advantage Air (Aust) Pty Ltd does not accept any responsibility for any loss or damage that may be caused either directly or indirectly by the installation of this Air Conditioner.

PERFORMANCE DATA AACV-164-FCU/CON3



COOLING PERFORMANCE DATA

INDOOR		OUTDOOR TEMP DB ° C																																		
Air qty	WB	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43																		
I/s	° C	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH																	
850	22	16.4	14.6	16.3	14.5	16.1	14.4	16	14.3	15.8	14.1	15.7	14.0	15.5	13.8	15.4	13.7	15.2	13.6	15	13.4	14.9	13.3	14.7	13.1	14.5	12.9	14.4	12.8	14.2	12.7	14	12.5	13.8	12.3	
850	23	17	16.9	13.7	16.7	13.5	16.6	13.5	16.4	13.3	13.2	16.1	13.1	16	13.0	15.8	12.8	15.6	12.7	15.5	12.6	15.3	12.4	14.8	12.1	14.9	12.1	14.8	12.0	14.6	11.8	14.4	11.7	14.2	11.5	
850	24	17	16.9	14.9	16.7	14.7	16.6	14.7	16.4	14.5	16.3	14.4	16.1	14.2	15.9	14.0	15.8	14.0	15.6	13.8	15.4	13.6	15.3	13.5	14.9	13.2	14.8	13.1	14.6	12.9	14.4	12.7	14.2	12.5		
850	25	18	17.3	14.0	17.2	13.9	17	13.8	16.9	13.7	16.7	13.5	16.5	13.3	16.4	13.3	16.2	13.1	16	12.9	15.9	12.9	15.7	12.7	15.5	12.5	15.3	12.4	15.2	12.3	15.0	12.1	14.8	12.0	14.6	11.8
850	26	18	17.3	15.1	17.2	15.0	17	14.8	16.9	14.7	16.7	14.6	16.5	14.4	16.4	14.3	16.2	14.1	16	14.0	15.9	13.9	15.7	13.7	15.5	13.5	15.3	13.3	15.1	13.2	15.0	13.1	14.8	12.9	14.6	12.7
850	27	19	17.8	14.7	17.6	14.5	17.5	14.4	17.3	14.3	17.1	14.1	17.0	14.0	16.8	13.9	16.6	13.7	16.5	13.6	16.3	13.4	16.1	13.3	15.9	13.1	15.7	12.9	15.6	12.9	15.4	12.7	15.2	12.5	15.0	12.4
850	28	19	17.8	15.3	17.6	15.1	17.5	15.0	17.3	14.8	17.1	14.7	17.0	14.6	16.8	14.4	16.6	14.2	16.4	14.1	16.3	14.0	16.1	13.8	15.9	13.6	15.7	13.5	15.5	13.3	15.4	13.2	15.2	13.0	15.0	12.9
850	29	20	18.3	14.5	18.1	14.4	17.9	14.2	17.8	14.1	17.6	14.0	17.4	13.8	17.2	13.7	17.1	13.6	16.9	13.4	16.7	13.3	16.5	13.1	16.3	12.9	16.2	12.9	16	12.7	15.8	12.5	15.6	12.4	12.2	
850	30	21	18.8	13.9	18.6	13.7	18.4	13.6	18.2	13.4	18.1	13.4	17.9	13.2	17.7	13.1	17.5	12.9	17.3	12.8	17.1	12.6	17.0	12.6	16.8	12.4	16.6	12.3	16.4	12.1	16.2	12.0	16.0	11.8	15.8	11.7

HEATING PERFORMANCE DATA

INDOOR		OUTDOOR TEMP DB ° C																															
Air qty	DB	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10																
I/s	° C	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett																
850	16	12.3	11.1	12.6	11.3	13	11.7	13.4	12.1	13.8	12.4	14.2	12.8	14.7	11.8	15.1	12.8	15.5	13.2	15.9	13.5	16.3	14.3	16.8	15.1	17.8	16.9	17.8	17.8	18.2	18.2	18.7	18.7
850	19	12.2	11.0	12.6	11.3	13	11.7	13.3	12.0	13.7	12.3	14.2	12.8	14.6	11.7	15	12.8	15.4	13.1	15.8	13.4	16.2	14.2	16.6	14.9	17.6	16.7	17.6	17.6	18	18	18.5	18.5
850	20	12.2	11.0	12.6	11.3	12.9	11.6	13.3	12.0	13.7	12.3	14.1	12.7	14.5	11.6	14.9	12.7	15.3	13.0	15.7	13.3	16.1	14.1	16.6	14.9	17.6	16.7	17.6	17.6	18	18	18.4	18.4
850	22	12.1	10.9	12.5	11.3	12.9	11.6	13.3	12.0	13.7	12.3	14.1	12.7	14.5	11.6	14.9	12.7	15.3	13.0	15.7	13.3	16.1	14.1	16.5	14.9	17.5	16.6	17.5	17.5	17.9	17.9	18.3	18.3
850	25	12.1	10.9	12.5	11.3	12.8	11.5	13.2	11.9	13.6	12.2	14	12.6	14.4	11.5	14.7	12.5	15.1	12.8	15.5	13.2	15.9	13.9	16.3	14.7	17.3	16.4	17.3	17.3	17.7	17.7	18.1	18.1

AS 3823.2:2003 MINIMUM ENERGY PERFORMANCE TEST

(Conditions shown highlighted)

Refrigerant	R407C
Pipe length (m)	7
Air quantity (l/s)	861 @ 60Pa esp
Cooling Capacity T1 Test	
Total cooling capacity (kW)	16.51
Sensible cooling capacity (kW)	13.626
Energy consumption (kWh)	6.41
Energy efficiency Ratio (EER)	2.576
Heating Capacity H1 Test	
Total heating capacity (kW)	17.62
Energy consumption (kWh)	6.09
Coefficient of performance (COP)	2.90

OUTDOOR CONDENSING UNIT AACV-164-FCU/CON3

AdvantageAir

PERFORMANCE CORRECTION FACTORS

INDOOR AIR FLOW CORRECTION	
Percent of Rated Flow	Capacity Correction Factor
110%	1.01
100%	1.00
90%	0.98
80%	0.96
70%	0.93

REFRIGERANT PIPE CORRECTION	
Equivalent Pipe length in meters (one way)	Capacity Correction Factor
10	0.98
20	0.96
30	0.94
40	0.92
50	0.89

NOISE DATA

FAN COIL UNIT NOISE DATA HIGH SPEED							
IN DUCT SOUND POWER LEVELS (L _w)	125	250	500	1K	2K	4K	8K
Return air inlet (dB)	64.9	62.7	57.3	57.4	57	56.6	45.1
Supply air outlet (dB)	57.7	57.1	59.5	62.2	58.8	58	56.4
Casing radiation (dB)	54	51.2	47.6	40.8	36.9	33.3	26.7
Free blow - total (dB)	68.4	64.3	63.3	64.7	62	60	56.6
SOUND PRESSURE LEVELS (L _p)* Free blow - total dB(A)	47						

CONDENSING UNIT NOISE DATA	dB(A)
SOUND PRESSURE LEVELS (L _p)**	57 - 52

* Measured at 1.5 meters from unit with a reverberation time of 0.23 seconds.

** Measured at 1.0 meter from unit. Dependent on ambient temperature, mode of operation and number of units running.

DUCTED SPLIT SYSTEM AIR CONDITIONER AACV-200-FCU/CON3

AdvantageAir



2 x Outdoor unit AACV-200-CON3

1 x Indoor unit AACV-200-FCU

FEATURES

- Nominal cooling capacity 21.3 kW
- Nominal heating capacity 23.3 kW
- Nominal airflow 1160 l/s
- Refrigerant R407C, with zero ozone depleting potential (ODP).
- Three phase electrical supply
- Reliable Copeland scroll compressor
- 3 speed fan on indoor unit
- Variable speed outdoor fans for lower noise levels at part load conditions
- Fully compatible with Control Air Platinum control system with easy interface terminals
- Self diagnostic LED's to indicate running and fault status.
- Electronic HP/LP protection with auto reset
- Anti cycle timer
- Internal compressor overload protection
- Control system circuit breaker
- Time and temperature controlled electronic de-ice to prevent outdoor coil ice-up during heating

CONSTRUCTION

- Indoor units are constructed from high grade galvanized steel.
- Indoor unit come with a factory fitted stainless steel condensate drain tray and an external galvanized steel safety tray.

APPLICATIONS

- Suitable for reverse cycle ducted system for residential commercial and industrial applications.

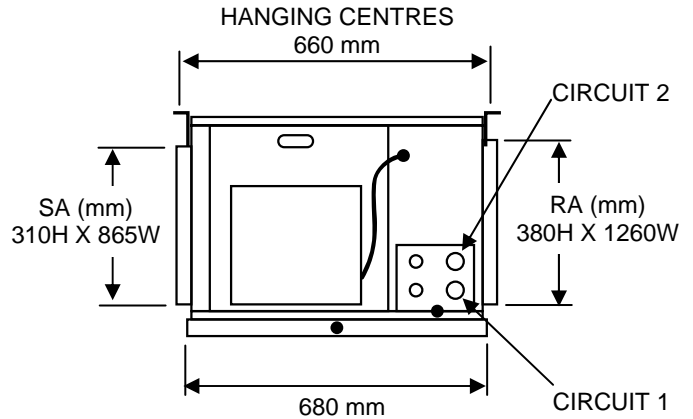
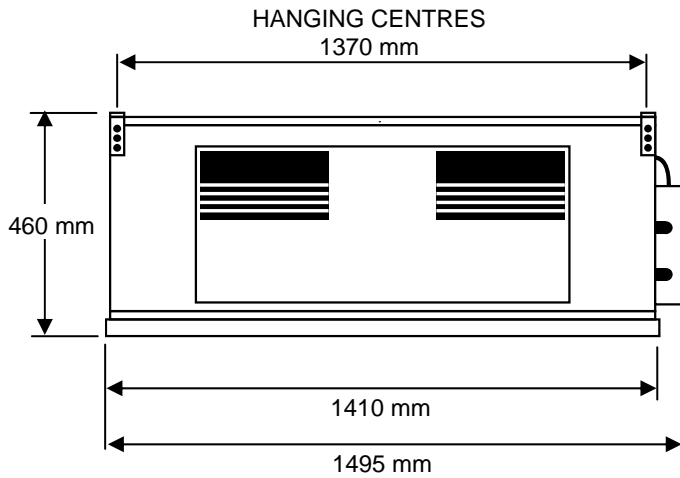
CONTROL SYSTEM OPTIONS

- This air conditioning unit has been specifically designed to interface directly with the following Advantage Air control systems:
 - Platinum system
 - The full range of Generation III control systems

INDOOR FAN COIL UNIT AACV-200-FCU

AdvantageAir

DIMENSIONS

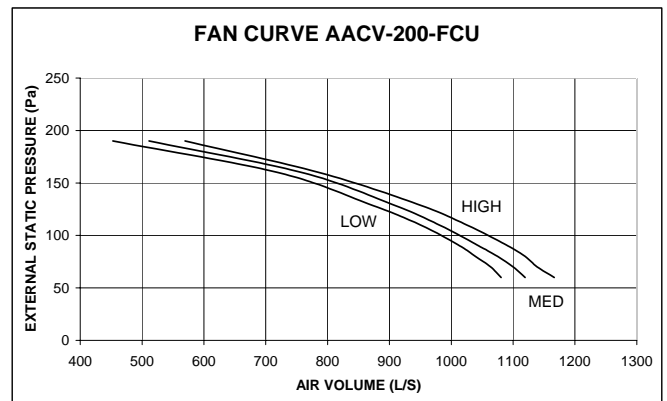


NOTE: 2 CIRCUITS INTERLACED
FAN COIL UNIT

TECHNICAL SPECIFICATIONS

Fan type	Twin forward curved centrifugal
Standard airflow (Hi / Med / Lo) (l/s)	1160 / 1120 / 1080 @ 60 Pa external static pressure
Maximum coil face velocity in high humidity applications	2.5m/s
Power supply	240V / 50 Hz / 1 phase
Motor output: (kW)	
Running Current:(Amps)	4.5
Cabinet construction	Galvanized steel
Cabinet insulation type	Closed cell material with aluminum foil faced (8mm)
Condensate drain tray construction	Stainless steel
Safety tray construction	Galvanized steel
Refrigerant	R407C
Refrigeration Charge	4.5 kg (up to 7 meters pipe length)
Defrost Method	Reverse Cycle
Refrigerant suction pipe size (DIA)	19 mm (3/4")
Refrigerant liquid pipe size (DIA)	9.5 mm (3/8")
Condensate drain pipe size (OD)	25.4 mm
Safety tray pipe size (OD)	25.4 mm
Indoor fan coil unit mass	98 kg

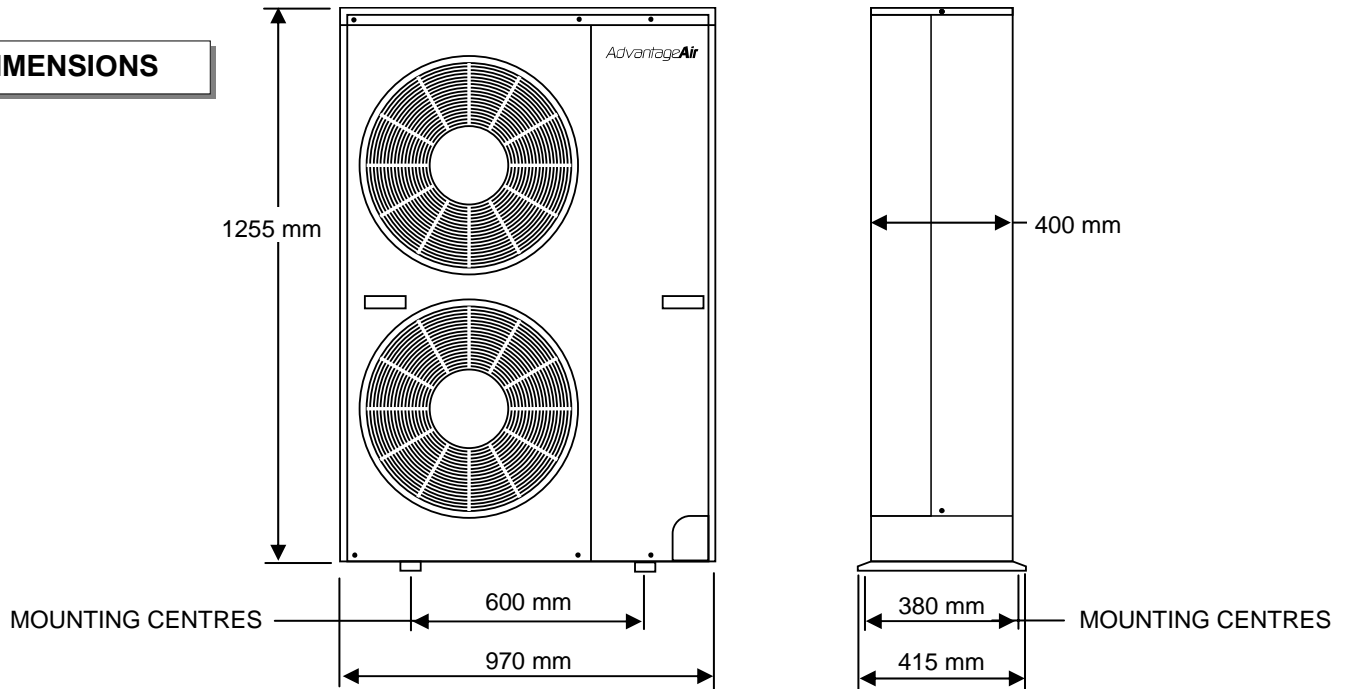
FAN PERFORMANCE CURVE



OUTDOOR CONDENSING UNIT AACV-200-CON3

AdvantageAir

DIMENSIONS

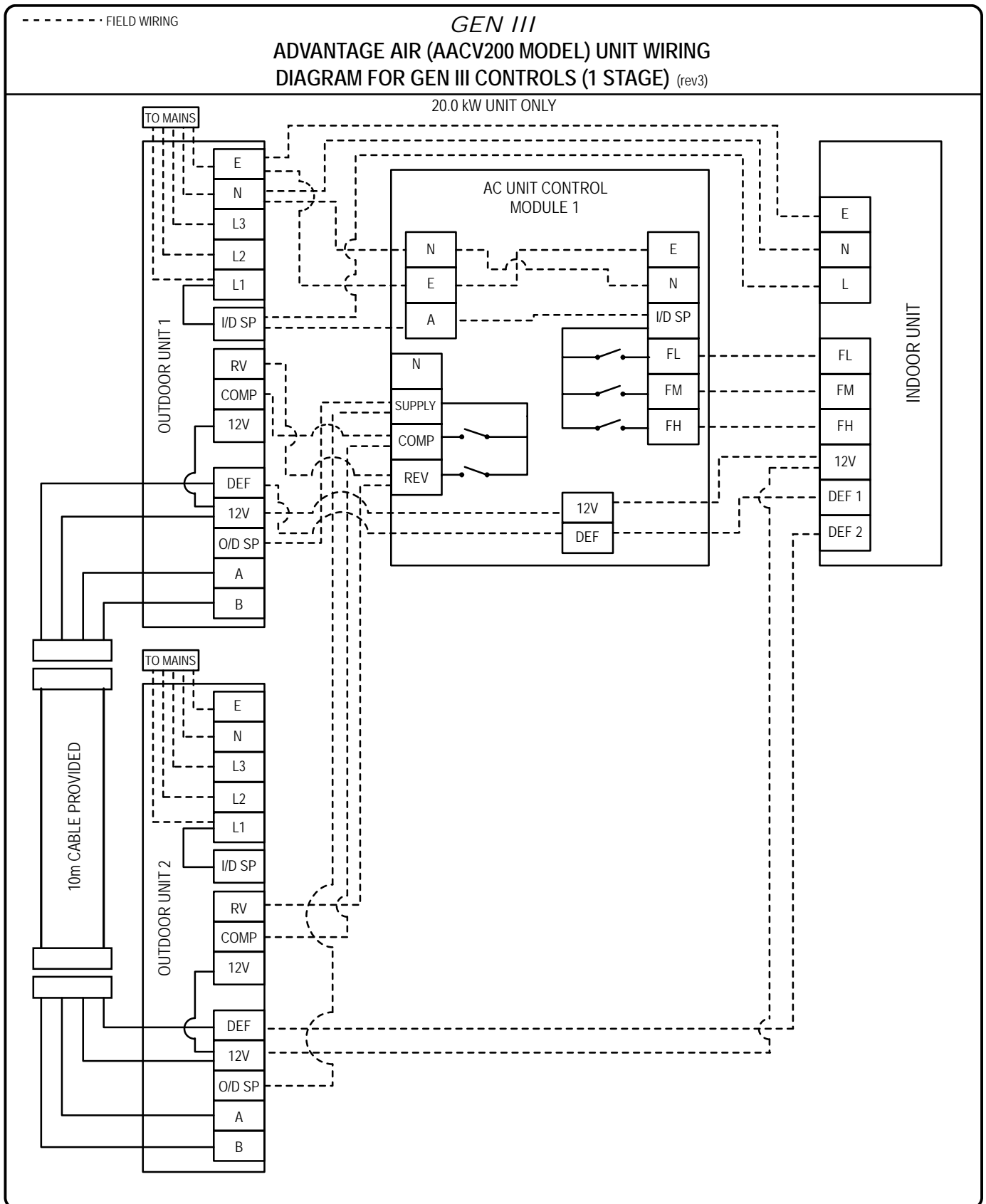


TECHNICAL SPECIFICATIONS

Compressor	Single Copeland scroll
Condenser fan type	Twin variable speed propeller
Power supply	415V / 50 Hz / 3 phase
System power input (kW)	7.8
System running current (Amps)	14
System EER (W/W)	2.77
Refrigerant	R407C
System refrigeration charge	4.5 kg (up to 7 meters pipe length)
Additional refrigerant charge	65 grams per meter pipe length over 7 meters
System oil Charge	1.36 kg
Defrost Method	Reverse Cycle
Refrigerant suction pipe size (dia)	19mm (3/4")
Refrigerant liquid pipe size (dia)	9.5mm (3/8")
System maximum pipe length (one way)	50 meters
System maximum elevation (indoor to outdoor)	30 meters
System maximum no. elbows or bends	10
Outdoor condensing unit mass	110 kg

NOTE: 2 X AACV200CON3 ARE REQUIRED FOR 20.0 kW SYSTEM

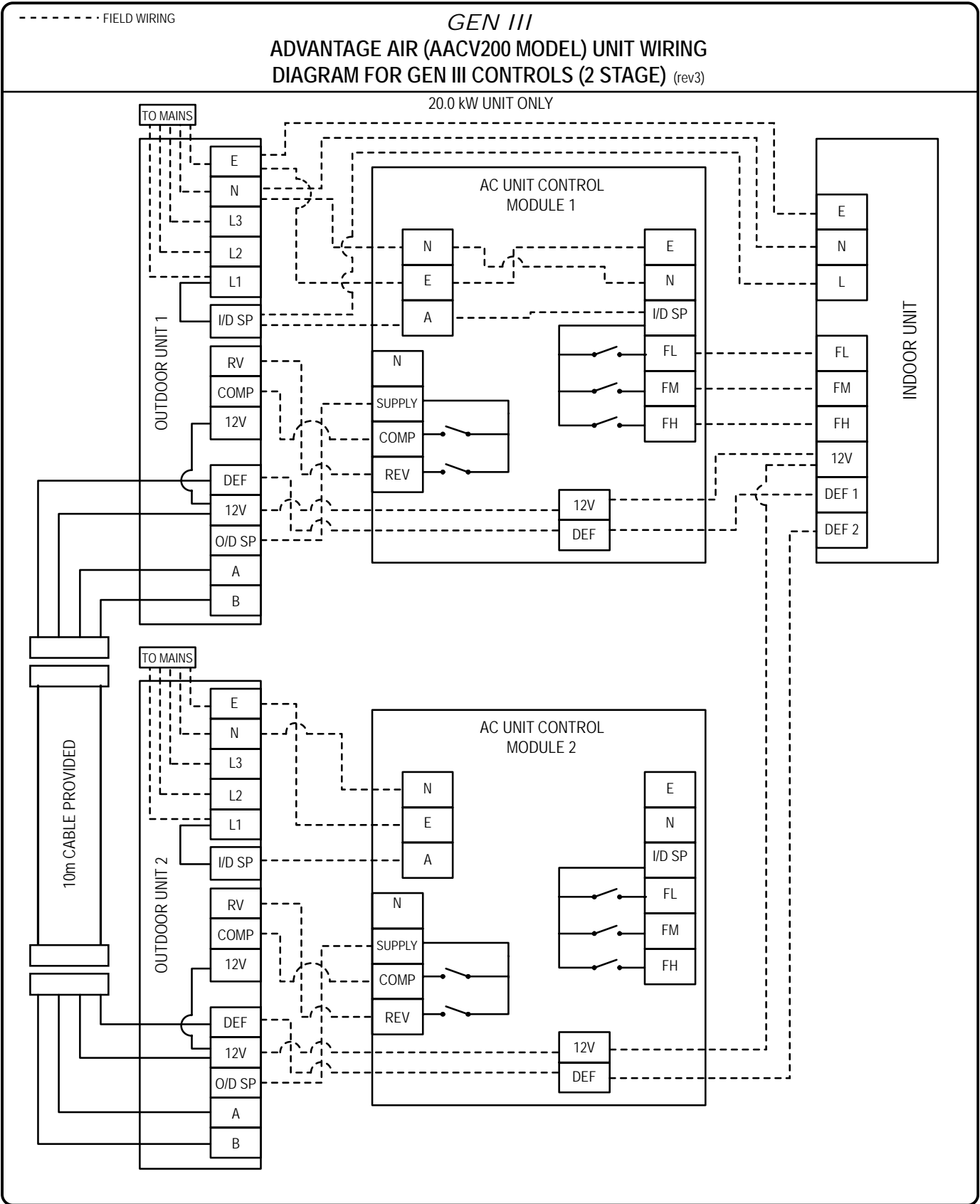
AACV 200 AIR CONDITIONER WIRING DIAGRAM 1 STAGE



No liability

Make sure you read and understand all the installation instructions before you install this Air Conditioner. Advantage Air (Aust) Pty Ltd does not accept any responsibility for any loss or damage that may be caused either directly or indirectly by the installation of this Air Conditioner.

AACV 200 AIR CONDITIONER WIRING DIAGRAM 2 STAGE



No liability

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PERFORMANCE DATA AACV-200-FCU/CON3



INDOOR		OUTDOOR TEMP DB ° C																																			
		27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43																			
Air qty	° C	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH												
1160	16	20.7	17.7	20.4	17.5	20.2	17.3	19.9	17.0	19.7	16.8	19.4	16.6	19.2	16.4	18.9	16.2	18.7	16.0	18.4	15.8	17.4	14.9	17.1	14.6	16.9	14.4	16.6	14.2								
1160	23	21.1	16.4	20.9	16.2	20.6	15.9	20.3	15.8	20.1	15.6	19.9	15.4	19.6	15.2	19.4	15.0	19.1	14.8	18.9	14.6	18.6	14.4	18.1	14.0	17.8	13.8	17.3	13.4	17.0	13.2						
1160	24	21.5	18.2	21.2	18.0	21.0	17.8	20.8	17.6	20.5	17.4	20.3	17.2	20.1	17.0	19.9	16.8	19.6	16.6	19.4	16.4	19.1	16.2	18.8	15.9	18.5	15.7	18.3	15.5	18.0	15.2	17.7	15.0	17.4	14.8		
1160	25	21.8	16.8	21.5	16.6	21.4	16.5	21.2	16.4	21.0	16.2	20.8	16.0	20.5	15.9	20.3	15.7	20.1	15.5	19.8	15.3	19.5	15.1	19.3	14.9	19.0	14.7	18.7	14.5	18.4	14.2	18.2	14.0	17.9	13.8		
1160	26	22.0	18.4	21.8	18.2	21.8	18.2	21.6	18.1	21.4	17.9	21.2	17.7	21.0	17.5	20.8	17.4	20.6	17.2	20.3	17.0	20.3	17.0	20.0	16.7	19.7	16.5	19.4	16.2	19.2	16.0	18.9	15.8	18.6	15.5	18.3	15.3
1160	27	22.9	18.0	22.7	17.9	22.5	17.7	22.3	17.6	22.1	17.4	21.9	17.3	21.7	17.1	21.5	17.0	21.3	16.8	21.0	16.6	20.7	16.3	20.4	16.1	20.1	15.9	19.9	15.6	19.6	15.4	19.3	15.2	19.0	15.0	15.0	
1160	28	23.3	19.2	23.1	19.0	22.9	18.9	22.8	18.7	22.6	18.5	22.4	18.4	22.2	18.2	22.0	18.1	21.8	17.9	21.5	17.7	21.2	17.4	20.9	17.2	20.6	17.0	20.4	16.7	20.1	16.5	19.8	16.2	19.5	16.0	16.0	
1160	29	23.8	18.0	23.6	17.9	23.4	17.7	23.2	17.6	23.0	17.4	22.8	17.3	22.7	17.2	22.5	17.0	22.3	16.9	22.0	16.7	21.7	16.5	21.4	16.2	21.1	16.0	20.9	15.8	20.6	15.6	20.3	15.4	20.0	15.1	15.1	
1160	30	24.2	17.0	24.0	16.9	23.9	16.8	23.7	16.6	23.5	16.5	23.3	16.4	23.1	16.3	23.0	16.1	22.8	16.0	22.5	15.8	22.2	15.6	21.9	15.4	21.6	15.2	21.4	15.0	21.1	14.8	20.8	14.6	20.5	14.4	14.4	

INDOOR		OUTDOOR TEMP DB ° C																																	
		-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10																		
Air qty	° C	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett	Gross	Nett
1160	16	13.8	12.4	14.7	13.2	15.5	13.9	16.3	14.7	17.1	15.4	18.0	16.2	18.8	15.0	19.6	16.7	20.4	17.4	21.2	18.1	22.1	19.3	22.9	20.6	23.7	22.5	24.3	24.9	24.9	24.9	25.5	25.5	25.5	25.5
1160	19	14.7	13.2	15.4	13.9	16.2	14.5	16.9	15.2	17.6	15.8	18.3	16.5	19.0	15.2	19.8	16.8	20.5	17.4	21.2	18.0	21.9	19.2	22.7	20.4	23.4	22.2	24.0	24.0	24.6	24.6	25.2	25.2	25.2	25.2
1160	20	15.0	13.5	15.7	14.1	16.4	14.7	17.1	15.4	17.8	16.0	18.4	16.6	19.1	15.3	19.8	16.8	20.5	17.4	21.2	18.0	21.9	19.1	22.6	20.3	23.3	22.1	23.9	23.9	24.5	24.5	25.2	25.2	25.2	25.2
1160	22	14.9	13.4	15.6	14.0	16.3	14.7	17.0	15.3	17.7	15.9	18.3	16.5	19.0	15.2	19.7	16.8	20.4	17.3	21.1	17.9	21.8	19.1	22.5	20.2	23.2	22.0	23.7	23.7	24.3	24.3	24.9	24.9	24.9	24.9
1160	25	14.8	13.3	15.5	13.9	16.2	14.5	16.8	15.2	17.5	15.8	18.2	16.4	18.9	15.1	19.6	16.6	20.3	17.2	20.9	17.8	21.6	18.9	22.3	20.1	23.0	21.9	23.5	23.5	23.9	23.9	24.4	24.4	24.4	24.4

AS 3823.2:2003 MINIMUM ENERGY PERFORMANCE TEST (Conditions shown highlighted)	
Refrigerant	R407C
Pipe length (m)	7
Air quantity (l/s)	1160 @ 60Pa esp
Cooling Capacity T1 Test	
Total cooling capacity (kW)	21.31
Sensible cooling capacity (kW)	16.8
Energy consumption (kWh)	7.69
Energy efficiency Ratio (EER)	2.771
Heating Capacity H1 Test	
Total heating capacity (kW)	23.26
Energy consumption (kWh)	7.76
Coefficient of performance (COP)	3

OUTDOOR CONDENSING UNIT AACV-200-FCU/CON3



PERFORMANCE CORRECTION FACTORS

INDOOR AIR FLOW CORRECTION	
Percent of Rated Flow	Capacity Correction Factor
110%	1.01
100%	1.00
90%	0.98
80%	0.96
70%	0.93

REFRIGERANT PIPE CORRECTION	
Equivalent Pipe length in meters (one way)	Capacity Correction Factor
10	0.98
20	0.96
30	0.94
40	0.92
50	0.89

NOISE DATA

CONDENSING UNIT NOISE DATA	dB(A)
SOUND PRESSURE LEVELS (Lp)**	58 - 52

* Measured at 1.5 meters from unit with a reverberation time of 0.23 seconds.

** Measured at 1.0 meter from unit. Dependent on ambient temperature, mode of operation and number of units running.