WALL HUNG SPLIT SYSTEM

























UNIT FEATURES

- Reverse Cycle Wall Hung Split SystemMono & Multi Compatible Heads
- Rotary Compressor
- Superior Operating Range:
- Cooling: up to 60°C DB
- Heating: down to -25°C DB
- Adjustable Airflow
- 3D Multi-Directional Airflow
 Up/Down Auto Swing
- · Left / Right Auto Swing
- Louvre Position Memory
- · Fan Speed: Auto, Low, Medium and High
- Powder Coated Panels Outdoor Unit
- · Hydrophilic Indoor and Outdoor Coil Protection
- Self-Diagnosis and Auto Protection
- · Fire Proof Electrical Box Indoor and Outdoor Units
- · Dehumidification Mode
- · Super Ionizer Technology
- Intitutive Proximity Sensor
- R-32 low GWP Refrigerant

UNIT OPTION

· Left or Right Hand Drain Connection

CONTROL FEATURES

- Digital Display
- Auto Restart After Power Failure
- Timer ON/OFF Operation
- Remote ON/OFF Input
 Manual ON/OFF Operation
- 12-speed Indoor Fan
- 5-speed Outdoor Fan
- Sleep Mode • Boost Mode
- · Quiet Operation
- Dry Mode Operation
- Demand Response Ready 1W Standby Power Consumption
- Auto Defrost Function
- Follow Me Function
- · Mute Operation
- Self Clean Function Fault Alarm Output
- **UNIT COMPLIANCE**
- AS/NZS 3823.2 (MEPS)
- AS/NZS 4755.3.1 (DRM 1, 2 and 3)
- AS/NZS CISPR 14.1 (EMC)
 AS/NZS 60335.1 (ELECTRICAL APPLIANCE SAFETY)
- · AS/NZS 60335.2.40 (ELECTRICAL APPLIANCE SAFÉTY AIR CONDITIONERS)

SPECIFICATION SUMMARY

OUTDOOR LINIT MODEL

OUTDOOR UNIT MODEL	OUTDOOR UNIT MODEL			
INDOOR UNIT MODEL	WRE-035CS			
		NETT		
(1)(2) COOLING CAPACITY (kW) - NOMIN	IAL (MIN - MAX)	3.50 (1.50 - 4.90)		
(1) (3) HEATING CAPACITY (kW) - NOMIN	AL (MIN - MAX)	3.70 (1.80 - 5.10)		
(1) (4) COOLING INPUT POWER (kW)		0.73		
(1) (4) HEATING INPUT POWER (kW)		0.77		
(1)(2) EER		4.79		
(1)(3) COP		4.81		
(5) INDOOR AIRFLOW (I/s) - LOW/MED/	HIGH/BOOST	100 /120/180 / 250		
MOISTURE REMOVAL (I/hr)	1.7			
INDOOR SOUND PRESS. LEVEL dB(A) - SILENT/LOW/MED/HIGH	24 / 30 / 32 / 38			
OUTDOOR SOUND PRESS. LEVEL @	OUTDOOR SOUND PRESS. LEVEL @ 1M dB(A)			
(6) OUTDOOR SOUND POWER LEVEL O	dB(A)	58		
POWER SUPPLY		220 - 240V / 1Ph+N / 50 Hz		
INDOOR UNIT WIRING METHOD		Hard wire to Outdoor		
(1) RATED LOAD AMPS - COOLING / HE	ATING	3.2 / 3.4		
(7) FULL LOAD AMPS	7.6			
(8) CIRCUIT BREAKER AND CABLE AME	10.0			
WEIGHT (kg) - INDOOR / OUTDOOR		10.3 / 32.1		
OUTDOOR OPERATING RANGE (°C)	COOLING	-15 to 60		
OUTDOON OF ENATING RANGE (C)	HEATING	-25 to 30		

- (1) Measured and tested in accordance with AS/NZS 3823.1.1.
- (a) At 20°C DB / 10°C WB entering air temperatures and 35°C ambient.
 (b) At 20°C DB entering air temperature and 7°C DB / 6°C WB ambient.
- (4) input power includes indoor fan kW.

Note: Use input power to estimate running cost.

- Max. Min. airflow application range.
- (6) Determination of Sound Power Levels of Noise Sources per AS1217.2.
- Full Load Amps are based on compressor and fan motors' maximum expected current.
- (8) See Specifications sheet for cable size and circuit breaker size details.



MDC 025CC

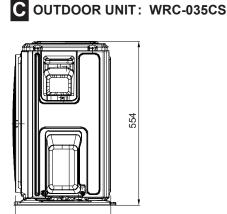
COOLING PER	RFORMANCE																
OUTDOOR							INDO	OOR C	ONDI	TIONS	S (°C -	DB)					
TEMPERATURE	MB _o C		17	7.0			18	3.0			19	0.0			22	2.0	
(DB)	DB°C	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0
	Nett Capacity, kW	3.83	3.83	3.83	3.86	3.95	3.95	3.95	3.98	4.06	4.06	4.06	4.06	4.35	4.35	4.35	4.35
18°C	Sensible Capacity, kW	2.80	2.99	3.37	3.79	2.57	2.76	3.16	3.54	2.32	2.52	2.93	3.29	1.70	1.92	2.31	2.70
	Power Input, kW	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
	Nett Capacity, kW	3.60	3.60	3.63	3.66	3.69	3.69	3.69	3.72	3.81	3.81	3.81	3.81	4.09	4.09	4.09	4.09
25°C	Sensible Capacity, kW	2.67	2.88	3.27	3.66	2.44	2.62	3.03	3.42	2.21	2.40	2.78	3.20	1.60	1.80	2.17	2.58
	Power Input, kW	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Nett Capacity, kW	3.43	3.43	3.46	3.49	3.55	3.55	3.55	3.57	3.63	3.63	3.63	3.63	3.92	3.92	3.92	3.92
30°C	Sensible Capacity, kW	2.61	2.78	3.22	3.49	2.38	2.55	2.94	3.36	2.14	2.32	2.72	3.09	1.53	1.73	2.12	2.51
	Power Input, kW	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.67	0.67	0.67	0.67
	Nett Capacity, kW	3.26	3.26	3.29	3.32	3.37	3.37	3.37	3.40	3.46	3.46	3.50	3.51	3.75	3.75	3.75	3.75
35°C	Sensible Capacity, kW	2.51	2.70	3.12	3.32	2.29	2.50	2.87	3.27	2.04	2.25	2.52	3.05	1.46	1.65	2.06	2.44
	Power Input, kW	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
	Nett Capacity, kW	3.04	3.04	3.07	3.09	3.14	3.14	3.15	3.18	3.22	3.22	3.25	3.24	3.50	3.50	3.50	3.50
40°C	Sensible Capacity, kW	2.43	2.64	3.03	3.09	2.20	2.42	2.80	3.18	1.97	2.16	2.57	2.94	1.36	1.57	1.96	3.15
	Power Input, kW	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
	Nett Capacity, kW	2.82	2.82	2.85	2.88	2.90	2.90	2.93	2.96	2.99	2.99	2.99	3.17	3.25	3.25	3.25	3.25
46°C	Sensible Capacity, kW	2.31	2.48	2.85	2.88	2.06	2.27	2.67	2.96	1.85	2.03	2.42	3.01	1.27	1.46	1.85	2.99
	Power Input, kW	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91
	Nett Capacity, kW	2.14	2.16	2.19	2.22	2.22	2.25	2.28	2.31	2.28	2.28	2.31	2.34	2.51	2.51	2.51	2.51
60°C	Sensible Capacity, kW	1.99	2.16	2.19	2.22	1.78	1.98	2.28	2.31	1.55	1.73	2.12	2.34	0.98	1.18	1.55	2.43
[Power Input, kW	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.21	1.21	1.21	1.21

HEATING PERI	FORMANCE										
INDOOR		OUTDOOR TEMPERATURE									
CONDITIONS		-15°C D -16°C W	-7°C D -8°C W	-5°C D -6°C W	0°C D -1°C W	4°C D 3°C W	7°C D 6°C W	12°C D 11°C W	24°C D 18°C W		
15°C - DB	Nett Capacity, kW	1.49	2.70	2.98	3.29	3.51	4.26	4.68	3.93		
15-C - DB	Power Input, kW	0.43	0.70	0.62	0.76	0.85	0.85	0.93	0.78		
18°C - DB	Nett Capacity, kW	1.42	2.58	2.85	3.15	3.35	4.07	4.47	3.75		
10 C - DB	Power Input, kW	0.42	0.68	0.59	0.73	0.82	0.82	0.89	0.75		
20°C - DB	Nett Capacity, kW	1.33	2.41	2.66	2.95	3.13	3.70	4.18	3.51		
20 C - DB	Power Input, kW	0.39	0.64	0.57	0.69	0.78	0.77	0.85	0.71		
22°C - DB	Nett Capacity, kW	1.29	2.34	2.58	2.86	3.04	3.69	4.06	3.40		
22 C - DB	Power Input, kW	0.40	0.66	0.58	0.71	0.79	0.79	0.87	0.72		
27°C - DB	Nett Capacity, kW	1.16	2.09	2.31	2.56	2.73	3.31	3.64	3.05		
21 C - DB	Power Input, kW	0.40	0.66	0.58	0.71	0.79	0.79	0.87	0.73		

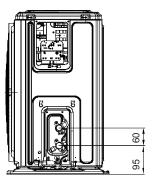
PIPE LENGTH CORRECTION MULTIPLIER

*	COOLING			PIPE LENGTH (m)						
8		COOLING		5	10	20	30			
		Indoor Unit	30				0.870			
				20			0.918	0.883		
		Higher Than Outdoor Unit*	10		0.985	0.932	0.896			
Ni -	H = Height	Outdoor Offic	5	0.995	0.995	0.941	0.905			
	Difference		0	1.000	1.000	0.946	0.910			
	(m)	la de en Llait	-5	1.000	1.000	0.946	0.910			
		Indoor Unit Lower Than	-10		1.000	0.946	0.910			
		Outdoor Unit**	-20			0.946	0.910			
**		Outdoor Offic	-30				0.910			
					DIDELEN	ICTIL (ma)				
		LICATING			PIPE LEN	NGIH (M)				
		HEATING		5	10	20	30			
		_	30	5			30 0.976			
		Indoor Unit	30 20	_	10	20				
		Indoor Unit Higher Than			10	20	0.976			
	H = Height	Indoor Unit	20		10 	20 0.986	0.976 0.976			
	H = Height Difference	Indoor Unit Higher Than	20 10		10 1.000	20 0.986 0.986	0.976 0.976 0.976			
		Indoor Unit Higher Than Outdoor Unit*	20 10 5	 1.000	10 1.000 1.000	20 0.986 0.986 0.986	0.976 0.976 0.976 0.976			
	Difference	Indoor Unit Higher Than Outdoor Unit*	20 10 5 0	1.000 1.000	10 1.000 1.000 1.000	20 0.986 0.986 0.986 0.986	0.976 0.976 0.976 0.976 0.976			
	Difference	Indoor Unit Higher Than Outdoor Unit* Indoor Unit Lower Than	20 10 5 0 -5	1.000 1.000 0.992	10 1.000 1.000 1.000 0.992	20 0.986 0.986 0.986 0.986 0.978	0.976 0.976 0.976 0.976 0.976 0.968			
	Difference	Indoor Unit Higher Than Outdoor Unit*	20 10 5 0 -5 -10	 1.000 1.000 0.992	10 1.000 1.000 1.000 0.992 0.984	20 0.986 0.986 0.986 0.986 0.978 0.970	0.976 0.976 0.976 0.976 0.976 0.968 0.960			

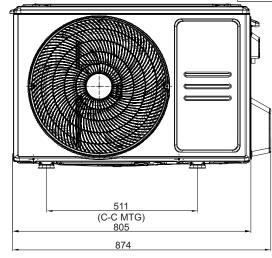
NOMINAL DIMENSION (H x W x D) = 554 x 805 x 333

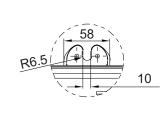


333 SIDE VIEW

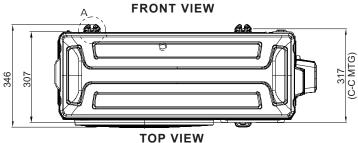


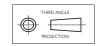
SIDE VIEW





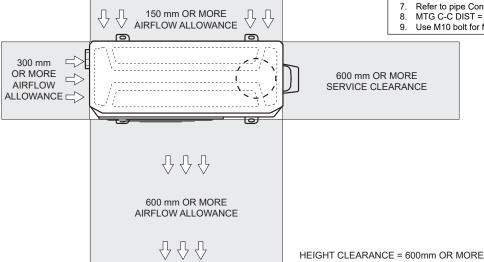
DETAIL - A





- Do not scale drawing. All dimensions are in mm unless specified. Refer to corresponding unit dimensional drawing for mounting hole details.
- Service Access Areas and Spaces for Airflow Clearances given above are suggested minimum based on the condition that the spaces around the units are free from any obstructions and a walkway passage of 1000 mm between the units or between the
- unit and the outside perimeter is available.

 Minimum service access areas and spaces for airflow clearances are responsibilities of the installer, ActronAir will not be held liable for any extra charges incurred due to lack of access and space for airflow.
- Under all circumstances, condenser air must not recirculate back onto condenser coil. Keep all clearance free of any obstructions.
- Maximum External Static of Outdoor Fans is 5 Pa.
- STACKING OF UNITS: Ensure that minimum airflow and clearances are met.
- Refer to pipe Connection Details on Specifications Sheet. MTG C-C DIST = Mounting Centre to Centre Distance.
- Use M10 bolt for feet mounting.



SERVICE ACCESS AREAS & AIRFLOW ALLOWANCES

INDOOR UNIT: WRE-035CS

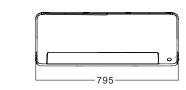


NOMINAL DIMENSION (H x W x D) = 295 x 795 x 225





LHS VIEW





FRONT VIEW

RHS VIEW

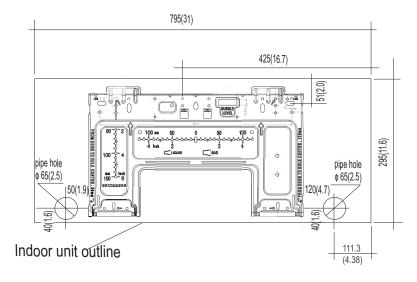




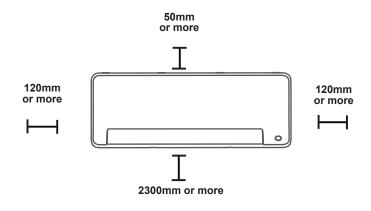
NOTES:

- Do not scale drawing. All dimensions are in mm unless specified. Refer to corresponding unit dimensional drawing for mounting hole details.
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MOUNTING DETAILS



MOUNTING CLEARANCES





UNIT DIMENSIONS					
CUITOCOD	Depth	333 mm			
OUTDOOR DIMENSIONS	Height	554 mm			
BINIENGIONO	Width	805 mm			
	Depth	225 mm			
INDOOR DIMENSIONS	Height	295 mm			
DIVILITOIONO	Width	795 mm			

ELECTRICAL					
POWER SUPPLY		220 - 240 Volts / 1 Ph + N / 50Hz			
WIRING METHOD		Hard wire to outdoor			
FULL LOAD AMPS*	Total	7.6			
FULL LOAD AMPS	Indoor	0.275			
RATED LOAD AMPS**	Cooling	3.2			
RATED LOAD AWIFS	Heating	3.4			
IP RATING	Outdoor	IP24			
IP RATING	Indoor	IP20			

IMPORTANT - The local electricity authority may require limits on starting current and voltage drop, please check prior to purchase.

CABLE SIZE & CIRCUIT BREAKER SIZE

Suggested minimum cable size should be used as a guide only, refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.

Cable Size (Supply Mains)	1.0 mm ² (SUGGESTED MINIMUM)
Cable Size (Indoor to Outdoor Wire)	1.0 mm ² (3 Core + Earth)
Circuit Breaker Size	10.0Amps

OUTDOOR COIL	
TUBE TYPE	Copper Ø7mm, inner groove tube
FIN TYPE	Hydrophylic Aluminium
FACE AREA	0.43 m ²
FIN SPACING	1.3 mm
ROWS	2

OUTDOOR FAN	
NUMBER OF FANS x TYPE	1 x Axial
INPUT (W)	103
FAN SPEED (rpm) - Hi/Lo	770/560
AIRFLOW (I/s)	620

INDOOR COIL	
TUBE TYPE	Copper Ø7mm, inner groove tube
FIN TYPE	Hydrophylic Aluminium
FACE AREA	0.20 m ²
FIN SPACING	1.3 mm
ROWS	2

INDOOR FAN	
NUMBER OF FANS x TYPE	1 x Cross- flow fan
INPUT (W)	50
AIRFLOW - Boost/High/Med/Low/Quiet	250/180/120/100 (I/s)

AIR FILTERS

Air filters are supplied standard and pre-fitted.

COMPRESSOR	
NUMBER PER UNIT x TYPE	1 x Rotary Compressor
STARTING METHOD	DC Inverter Starter
INPUT (W)	765
REFRIGERANT OIL (TYPE/CHARGE)	ESTER OIL VG74 / 300ml
PROTECTION	External Thermal Cut-Out

REFRIGERATION SYSTEM	
REFRIGERANT TYPE	R-32
FACTORY CHARGE	900 g
PRE-CHARGE LENGTH	15 m
MINIMUM ROOM AREA (@ 2.3 INSTALLED HEIGHT)	No restriction
ADD'L. REFRIGERANT CHARGE	12 g/m
DESIGN PRESSURE (High/Low)	4.3/1.7 MPa

INTERCONNECTING PIPE RUN				
MAXIMUM PIPE LENGTH		25 m		
MAXIMUM CHARGE		1020 g		
MINIMUM ROOM AREA (@ 2.3 INSTALLED HEIGHT)		No restriction		
MINIMUM PIPE LENGHT		3 m		
MAX. VERTICAL LENGTH		10 m (Included in Max. Pipe Length)		
FIELD PIPE SIZES				
Liquid Pipe		6.35 mm (1/4")		
Gas Pipe		9.52 mm (3/8")		
PIPE CONNECTIONS				
Indoor	Liquid Pipe	6.35 mm (1/4")		
	Gas Pipe	9.52 mm (3/8")		
Outdoor	Liquid Pipe	6.35 mm (1/4")		
	Gas Pipe	9.52 mm (3/8")		
CONNECTION TYPE		Flare Nut		

ELECTRIC CONTROLS	
DEFROST METHOD	Reverse Cycle
WALL CONTROLLER CABLE (INCLUDED FOR WIRED CONTROLLER OPTION)	4 Core (0.75mm²) Shielded Data Cable

OPERATING RANGE

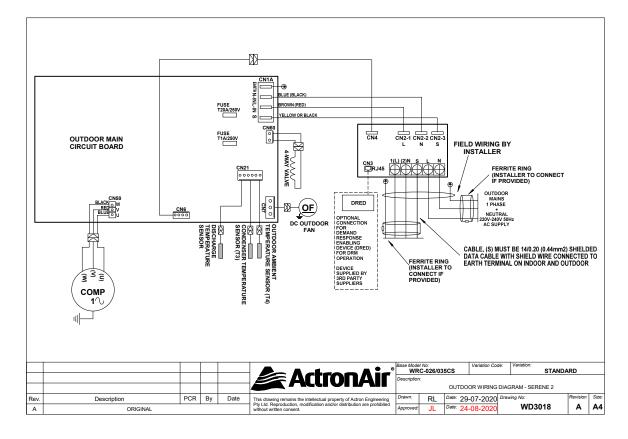
It is essential that the unit is correctly sized for the application and operates within its recommended range of operating conditions as shown below.

MODE		INDOOR	OUTDOOR
	RANGE	OPERATING	AIR INTAKE
		TEMPERATURE	TEMPERATURE
COOLING	Max.	32°C DB	60°C DB
	Min.	17°C DB	-15°C DB
HEATING	Max.	30°C DB	30°C DB
	Min.	0°C DB	-25°C DB

^{*}Full Load Amps are based on Compressor and Fan Motor's maximum expected current.

^{**}Rated Load Amps are measured and tested in accordance with AS/NZS3823.1.1.

WRC-035CS (OUTDOOR)



WRE-035CS (INDOOR)

