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 OPTIONS

- · Left or Right Hand Drain Connection
- Fault Alarm Output

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

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 SAFETY AIR CONDITIONERS)

SPECIFICATION SUMMARY

OUTDOOR UNIT MODEL	WRC-035CS			
INDOOR UNIT MODEL	WRE-035CS			
INDOOR UNIT MODEL	WRE-035C5			
		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) - TURBO / H	I / MED / LOW / QUIET	233 / 161 / 115 / 91 / 87		
MOISTURE REMOVAL (I/hr)	1.7			
INDOOR SOUND PRESS. LEVEL dB(A) - SILENT/LOW/MED/HIGH	24 / 30 / 32 / 38			
OUTDOOR SOUND PRESS. LEVEL @	1M dB(A)	52		
(6) OUTDOOR SOUND POWER LEVEL O	dB(A)	58		
POWER SUPPLY		220 - 240V / 1Ph+N / 50 Hz		
(1) RATED LOAD AMPS - COOLING / HE	ATING	3.2 / 3.4		
(7) FULL LOAD AMPS	10.5			
(8) CIRCUIT BREAKER	16.0			
WEIGHT (kg) - INDOOR / OUTDOOR		10.3 / 32.1		
OUTDOOD ODERATING BANGE (9C)	COOLING	-15 to 60		
OUTDOOR OPERATING RANGE (°C)	HEATING	-25 to 30		

- (1) Measured and tested in accordance with AS/NZS 3823.1.1.
- At 27°C DB / 19°C WB entering air temperatures and 35°C ambient.
 At 20°C DB entering air temperature and 7°C DB / 6°C WB ambient.

- (4) Input power includes indoor fan kW.
 (5) Max. Min. airflow application range.

Note: Use input power to estimate running cost.

- Determination of Sound Power Levels of Noise Sources per AS1217.2.
 Full Load Amps are based on compressor and fan motors' maximum expected current.
- See Specifications sheet for circuit breaker size details.

ActronAir

COOLING PER	RFORMANCE																
OUTDOOR		INDOOR CONDITIONS (°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

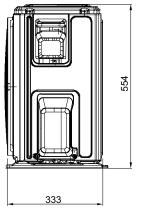
HEATING PER	FORMANCE										
INDOOR		OUTDOOR TEMPERATURE									
CONDITIONS		-15°C D -16°C W	-7°C D -8°C W	-5°C D -6°C W	0°C D -1°C W	4°C D 3°C W	7°C D 6°C W	12°C D 11°C W	24°C D 18°C W		
15°C - DB	Nett Capacity, kW	1.49	2.70	2.98	3.29	3.51	4.26	4.68	3.93		
15 C - DB	Power Input, kW	0.43	0.70	0.62	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 CORRE	CTION MULTIF	LIER								
*	COOLING			PIPE LENGTH (m)						
as a second		COOLING			10	20	25			
		Indoor Unit	30		-					
		_	20							
		Higher Than Outdoor Unit*	10		0.967	0.932	0.896			
ni	H = Height		5	0.995	0.977	0.941	0.905			
	Difference		0	1.000	0.982	0.946	0.923			
	(m)	Indoor Unit Lower Than Outdoor Unit**	-5	1.000	0.982	0.946	0.923			
			_	-10		0.982	0.946	0.923		
			-20							
**			-30							
		HEATING		PIPE LENGTH (m)						
		HEATING		5	10	20	25			
		Indoor Unit	30							
		Higher Than	20							
		Outdoor Unit*	10		0.995	0.986	0.980			
	H = Height	Outdoor Offic	5	1.000	0.995	0.986	0.980			
	Difference		0	1.000	0.995	0.986	0.980			
	(m)	Indoor Unit Lower Than Outdoor Unit**	-5	0.992	0.987	0.978	0.972			
			-10		0.979	0.970	0.966			
			-20							
3		Culdoor Offic	-30							

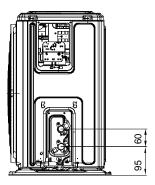
WRC-035CS / WRE-035CS

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

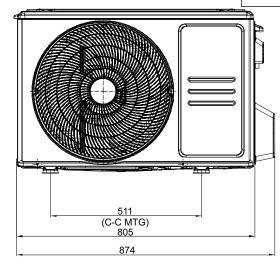


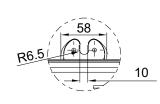


SIDE VIEW

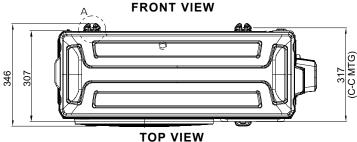


SIDE VIEW





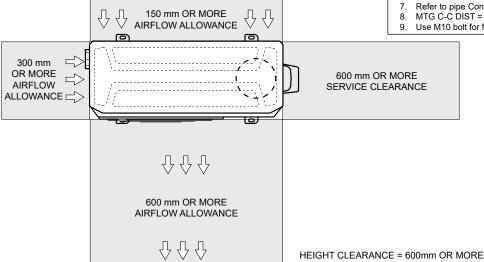
DETAIL - A





- 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

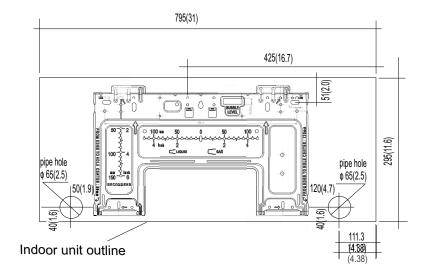




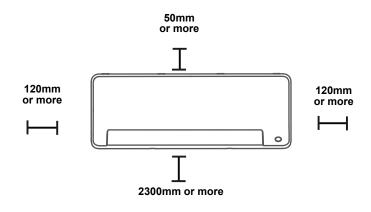
NOTES:

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MOUNTING DETAILS



MOUNTING CLEARANCES





SPECIFICATIONS

WRC-035CS / WRE-035CS

UNIT DIMENSION	S	
OUTDOOR	Depth	333 mm
DIMENSIONS	Height	554 mm
22.10.0.10	Width	805 mm
INIDOOD	Depth	225 mm
INDOOR DIMENSIONS	Height	295 mm
DIVILITOIOITO	Width	795 mm
ELECTRICAL		
POWER SUPPLY		220 - 240 Volts / 1 Ph + N / 50Hz
FULL LOAD AMPS*	Total	10.5
FULL LOAD AMPS	Indoor	0.275
RATED LOAD AMPS**	Cooling	3.2
RATED LOAD AIMPS	Heating	3.4
IP RATING	Outdoor	IP24
IP RATING	Indoor	IPX0
		may require limits on starting current and
voltage drop	o, please check pr	ior to purchase.
*Full Load Amps are base	d on Compressor	and Fan Motor's maximum expected current.
**Rated Load Amps are me	easured and teste	d in accordance with AS/NZS3823.1.1.

CIRCUIT BREAKER SIZE					
Circuit Breaker Size	16.0 Amps				
Refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules or AS/NZS 3008 "Electrical Installations-Selection of Cables" for cable size to be used.					

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

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	12g/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			

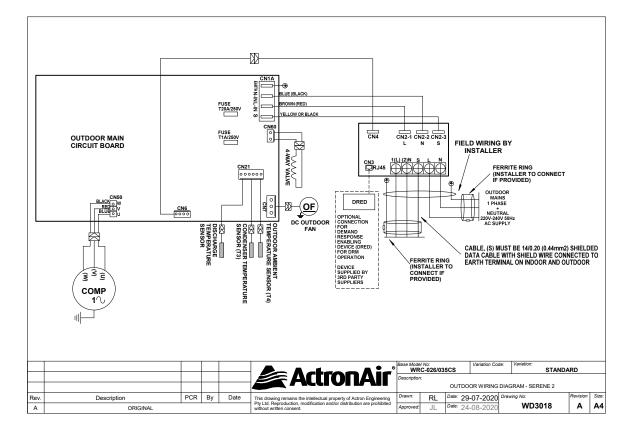
OPERATING RANGE

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	



WRC-035CS (OUTDOOR)



WRE-035CS (INDOOR)

