WALL HUNG SPLIT SYSTEM

























UNIT FEATURES

- Reverse Cycle Wall Hung Split System
- · Mono & 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 InputManual 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

OOTDOOK ONT WODEL		VVI\C-003CG	
INDOOR UNIT MODEL		WRE-085CS	
		NETT	
(1)(2) COOLING CAPACITY (kW) - NOMIN	IAL (MIN - MAX)	8.50 (3.60 - 9.60)	
(1)(3) HEATING CAPACITY (kW) - NOMIN	AL (MIN - MAX)	9.45 (3.55 - 11.00)	
(1) (4) COOLING INPUT POWER (kW)		2.40	
(1)(4) HEATING INPUT POWER (kW)		2.52	
(1)(2) EER		3.54	
(1)(3) COP		3.75	
(5) INDOOR AIRFLOW (I/s) - TURBO / H	I / MED / LOW / QUIET	431 / 322 / 250 / 221	
MOISTURE REMOVAL (I/hr)	3.5		
INDOOR SOUND PRESS. LEVEL dB(A) - SILENT/LOW/MED/HIGH	32 / 38 / 42 / 47		
OUTDOOR SOUND PRESS. LEVEL @	OUTDOOR SOUND PRESS. LEVEL @ 1M dB(A)		
(6) OUTDOOR SOUND POWER LEVEL O	(6) OUTDOOR SOUND POWER LEVEL dB(A)		
POWER SUPPLY		220-240V/1Ph+N/50 Hz	
(1) RATED LOAD AMPS - COOLING / HE	ATING	10.5 / 11.3	
(7) FULL LOAD AMPS	17.5		
(8) CIRCUIT BREAKER	20.0		
WEIGHT (kg) - INDOOR / OUTDOOR		19.7 / 43.3	
OUTDOOR OPERATING RANGE (°C)	COOLING	-15 to 60	
OUTDOON OF LIVATING RANGE (C)	HEATING	-25 to 30	

- (1) Measured and tested in accordance with AS/NZS 3823.1.1.
- (2) At 27°C DB / 19°C WB entering air temperatures and 35°C ambient.
 (3) 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.

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

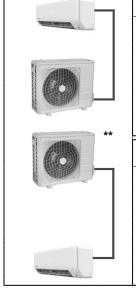


WRC-085CS

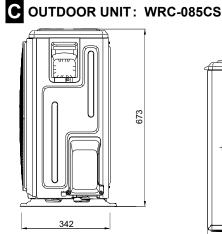
OUTDOOR							INDO	OOR C	OND	TION	s (°C -	DB)					
TEMPERATURE	MB _o C		17.0			18.0			19.0			22.0					
(DB)	DB°C	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0
	Nett Capacity, kW	9.29	9.29	9.29	9.38	9.55	9.55	9.55	9.55	9.84	9.84	9.84	9.84	10.56	10.56	10.56	10.56
18°C	Sensible Capacity, kW	6.41	6.78	7.62	8.44	5.92	6.30	7.07	7.83	5.41	5.80	6.59	7.38	4.22	4.64	5.38	6.12
	Power Input, kW	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.71	1.71	1.71	1.71	1.70	1.70	1.70	1.70
	Nett Capacity, kW	8.69	8.69	8.69	8.77	8.97	8.97	8.97	8.97	9.23	9.23	9.23	9.23	9.92	9.92	9.92	9.92
25°C	Sensible Capacity, kW	6.08	6.51	7.30	8.07	5.65	6.01	6.82	7.63	5.17	5.54	6.28	7.11	3.97	4.37	5.06	5.85
	Power Input, kW	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99
	Nett Capacity, kW	8.28	8.28	8.28	8.37	8.54	8.54	8.54	8.54	8.80	8.80	8.80	8.80	9.49	9.49	9.49	9.49
30°C	Sensible Capacity, kW	5.88	6.30	7.04	7.87	5.47	5.81	6.58	7.35	4.93	5.37	6.16	6.87	3.80	4.18	4.94	5.70
	Power Input, kW	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.19	2.19	2.19	2.19
	Nett Capacity, kW	7.88	7.88	7.88	7.97	8.14	8.14	8.14	8.14	8.37	8.37	8.50	8.51	9.03	9.03	9.03	9.03
35°C	Sensible Capacity, kW	5.67	6.07	6.86	7.65	5.21	5.62	6.43	7.16	4.77	5.11	6.12	6.81	3.52	3.97	4.70	5.51
	Power Input, kW	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.40	2.40	2.40	2.40	2.41	2.41	2.41	2.41
	Nett Capacity, kW	7.42	7.42	7.44	7.52	7.66	7.66	7.66	7.69	7.89	7.89	7.97	7.89	8.53	8.53	8.53	8.53
40°C	Sensible Capacity, kW	5.56	5.93	6.77	7.52	5.06	5.44	6.28	7.07	4.58	4.97	5.82	6.55	3.33	3.75	4.52	7.67
	Power Input, kW	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.65	2.65	2.65	2.65	2.66	2.66	2.66	2.66
	Nett Capacity, kW	6.87	6.87	6.92	6.98	7.10	7.10	7.10	7.15	7.33	7.33	7.33	7.33	7.93	7.93	7.93	7.93
46°C	Sensible Capacity, kW	5.22	5.56	6.37	6.98	4.76	5.11	5.89	6.73	4.25	4.69	5.42	6.82	3.09	3.49	4.28	7.30
	Power Input, kW	2.93	2.93	2.93	2.93	2.94	2.94	2.94	2.94	2.95	2.95	2.95	2.95	2.97	2.97	2.97	2.97
	Nett Capacity, kW	5.20	5.26	5.32	5.37	5.40	5.40	5.46	5.52	5.60	5.60	5.60	5.66	6.12	6.12	6.12	6.12
60°C	Sensible Capacity, kW	4.42	4.84	5.32	5.37	4.00	4.38	5.19	5.52	3.53	3.92	4.71	5.49	2.39	2.75	3.55	5.94
	Power Input, kW	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.94	3.94	3.94	3.94	3.97	3.97	3.97	3.97

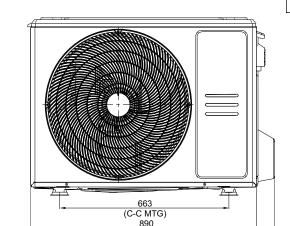
HEATING PERI	FORMANCE										
INDOOR			OUTDOOR TEMPERATURE								
CONDITIONS		-15°C D -16°C W	-7°C D -8°C W	-5°C D -6°C W	0°C D -1°C W	4°C D 3°C W	7°C D 6°C W	12°C D 11°C W	24°C D 18°C W		
15°C - DB	Nett Capacity, kW	3.72	6.76	7.45	8.25	8.78	10.64	11.70	9.82		
15 C - DB	Power Input, kW	1.44	2.33	2.05	2.52	2.83	2.80	3.08	2.58		
100C DD	Nett Capacity, kW	3.56	6.46	7.12	7.88	8.38	10.17	11.18	9.38		
18°C - DB	Power Input, kW	1.38	2.25	1.98	2.43	2.73	2.69	2.97	2.48		
20°C - DB	Nett Capacity, kW	3.33	6.03	6.65	7.36	7.84	9.45	10.45	8.76		
20 C - DB	Power Input, kW	1.31	2.12	1.87	2.29	2.58	2.52	2.81	2.35		
22°C - DB	Nett Capacity, kW	3.23	5.85	6.45	7.14	7.60	9.22	10.14	8.50		
22 C - DB	Power Input, kW	1.34	2.17	1.91	2.34	2.63	2.60	2.86	2.39		
27°C - DB	Nett Capacity, kW	2.89	5.25	5.79	6.40	6.82	8.27	9.09	7.62		
21 C-DB	Power Input, kW	1.34	2.17	1.91	2.35	2.64	2.61	2.87	2.40		

PIPE LENGTH CORRECTION MULTIPLIER

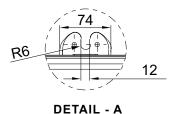


COOLING			PIPE LENGTH (m)							
	COOLING		7.5	10	20	30	40	50		
	Indoor I Init	25				0.872	0.834	0.797		
	Indoor Unit	20			0.923	0.885	0.847	0.809		
	Higher Than Outdoor Unit*	10		0.975	0.937	0.898	0.860	0.822		
H = Height	Outdoor Offic	5	0.995	0.985	0.946	0.908	0.869	0.830		
Difference		0	1.000	0.990	0.951	0.912	0.873	0.834		
(m)	Indoor I Init	-5	1.000	0.990	0.951	0.912	0.873	0.834		
	Indoor Unit Lower Than	-10		0.990	0.951	0.912	0.873	0.834		
	Outdoor Unit**	-20			0.951	0.912	0.873	0.834		
	Outdoor Offic	-25				0.912	0.873	0.834		
	LIEATING				PIPE LEN	IGTH (m)				
	HEATING		7.5	10	PIPE LEN	1GTH (m) 30	40	50		
	<u> </u>	25	7.5	10			40 0.942	50 0.924		
	Indoor Unit	25 20			20	30				
	Indoor Unit Higher Than				20	30 0.960	0.942	0.924		
H = Height	Indoor Unit	20			20 0.978	30 0.960 0.960	0.942 0.942	0.924 0.924		
H = Height Difference	Indoor Unit Higher Than	20 10		 0.996	20 0.978 0.978	30 0.960 0.960 0.960	0.942 0.942 0.942	0.924 0.924 0.924		
•	Indoor Unit Higher Than Outdoor Unit*	20 10 5	 1.000	 0.996 0.996	20 0.978 0.978 0.978	30 0.960 0.960 0.960 0.960	0.942 0.942 0.942 0.942	0.924 0.924 0.924 0.924		
Difference	Indoor Unit Higher Than Outdoor Unit*	20 10 5 0	 1.000 1.000	 0.996 0.996 0.996	20 0.978 0.978 0.978 0.978	30 0.960 0.960 0.960 0.960 0.960	0.942 0.942 0.942 0.942 0.942	0.924 0.924 0.924 0.924 0.924		
Difference	Indoor Unit Higher Than Outdoor Unit*	20 10 5 0 -5	 1.000 1.000 0.992	 0.996 0.996 0.996 0.988	20 0.978 0.978 0.978 0.978 0.970	30 0.960 0.960 0.960 0.960 0.960 0.952	0.942 0.942 0.942 0.942 0.942 0.934	0.924 0.924 0.924 0.924 0.924 0.917		

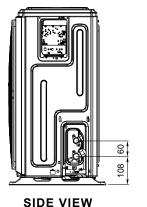


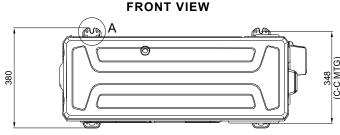


NOMINAL DIMENSION (H x W x D) = 673 x 890 x 342



SIDE VIEW



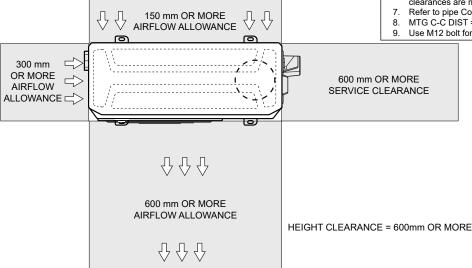


TOP VIEW



- 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 M12 bolt for feet mounting.

SERVICE ACCESS AREAS & AIRFLOW ALLOWANCES



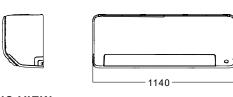


INDOOR UNIT: WRE-085CS

NOMINAL DIMENSION (H x W x D) = 370 x 1140 x 297



TOP VIEW





LHS VIEW FRONT VIEW

RHS VIEW

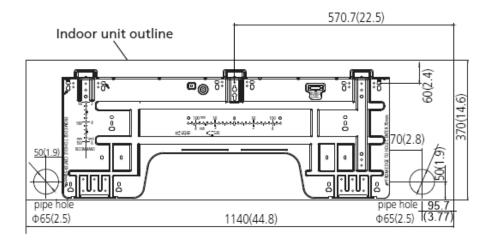




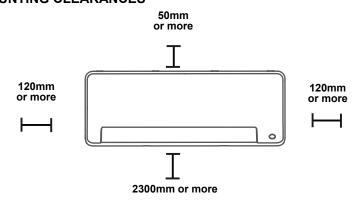


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- Minimum Service Access Areas and Spaces for Airflow Clearances are responsibilities of the installer, ActronAir will not be held liable for any extra charges incurred due to lack of access and space for airflow.

MOUNTING DETAILS



MOUNTING CLEARANCES





SPECIFICATIONS

WRC-085CS / WRE-085CS

UNIT DIMENSIONS	3				
OUTDOOD	Depth	342 mm			
OUTDOOR DIMENSIONS	Height	673 mm			
BINIEROIONO	Width	890 mm			
INIDOOD	Depth	297 mm			
INDOOR DIMENSIONS	Height	370 mm			
DIMENSIONS	Width	1140 mm			
ELECTRICAL					
POWER SUPPLY		220 - 240 Volts / 1 Ph + N / 50Hz			
FULL LOAD AMPS*	Total	17.5			
FULL LOAD AMPS	Indoor	0.40			
RATED LOAD AMPS**	Cooling	10.5			
RATED LOAD AWIPS	Heating	11.3			
IP RATING	Outdoor	IP24			
IP RATING	Indoor	IPX0			
IMPORTANT - The local electricity authority may require limits on starting current and voltage drop, please check prior to purchase.					

*Full Load Amps are based on Compressor and Fan Motor's maximum expected curre
**Rated Load Amps are measured and tested in accordance with AS/NZS3823.1.1.

CIRCUIT BREAKER SIZE					
	Circuit Breaker Size	20.0 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	0.55 m ²
FIN SPACING	1.3 mm
OUTDOOR FAN	

OUIDOUNTAN	
NUMBER OF FANS x TYPE	1 x Axial
INPUT (W)	340
FAN SPEED (rpm) - Hi / Lo	800/550
AIRFLOW (I/s)	970

INDOOR COIL	
TUBE TYPE	Copper Ø7mm, inner groove tube
FIN TYPE	Hydrophylic Aluminium
FACE AREA	0.33 m ²
FIN SPACING	1.3 mm

INDOOR FAN	
NUMBER OF FANS x TYPE	1 x Cross- flow fan
INPUT (W)	58
AIRFLOW - Boost/High/Med/Low	370/320/230/190(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)	2045
REFRIGERANT OIL (TYPE/CHARGE)	ESTER OIL VG74 / 620ml
PROTECTION	External Thermal Cut-Out

REFRIGERATION SYSTEM	
REFRIGERANT TYPE	R-32
FACTORY CHARGE	1500 g
PRE-CHARGE LENGTH	15 m
MINIMUM ROOM AREA (@ 2.3 INSTALLED HEIGHT)	1.303 m ²
ADD'L. REFRIGERANT CHARGE	24 g/m
DESIGN PRESSURE (High/Low)	4.3/1.7 MPa

INTERCONNECTING PIPE RUN				
MAXIMUM PIPE LENGTH		50 m		
MAXIMUM CHARGE		2340 g		
MINIMUM ROOM AREA (@ 2.3 INSTALLED HEIGHT)		3.171 m ²		
MINIMUM PIPE LENGHT		3 m		
MAX. VERTICAL LENGTH		25 m (Included in Max. Pipe Length)		
FIELD PIPE SIZES				
Liquid Pipe		9.52 mm (3/8")		
Gas Pipe		15.9 mm (5/8")		
PIPE CONNECTIONS				
Indoor	Liquid Pipe	9.52 mm (3/8")		
	Gas Pipe	15.9 mm (5/8")		
Outdoor	Liquid Pipe	9.52 mm (3/8")		
	Gas Pipe	15.9 mm (5/8")		
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

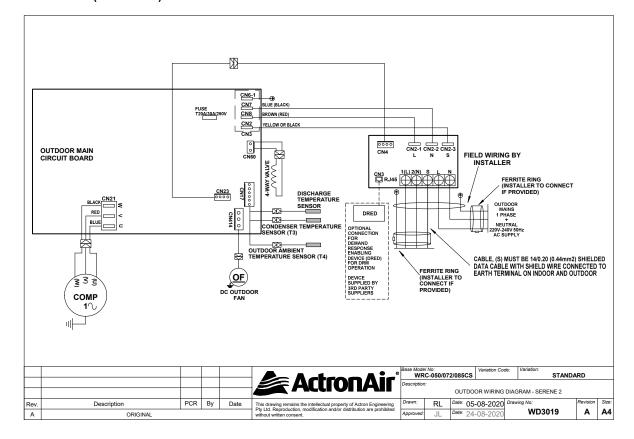
OPERATING RANGE

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	RANGE	INDOOR OPERATING TEMPERATURE	OUTDOOR AIR INTAKE 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-085CS (OUTDOOR)



WRE-085CS (INDOOR)

