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 HighPowder 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 FanSleep 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 LINIT MODEL

OUTDOOR UNIT MODEL	WRC-050CS		
INDOOR UNIT MODEL	WRE-050CS		
	NETT		
(1)(2) COOLING CAPACITY (kW) - NOMIN	5.00 (2.10 - 7.20)		
(1) (3) HEATING CAPACITY (kW) - NOMIN	5.00 (2.50 - 7.80)		
(1) (4) COOLING INPUT POWER (kW)	1.17		
(1) (4) HEATING INPUT POWER (kW)		1.16	
(1)(2) EER	4.27		
(1)(3) COP	4.31		
(5) INDOOR AIRFLOW (I/s) - TURBO / H	291 / 228 / 168 / 137 / 83		
MOISTURE REMOVAL (I/hr)	2.6		
INDOOR SOUND PRESS. LEVEL dB(A) - SILENT/LOW/MED/HIGH	26 / 30 / 34 / 40		
OUTDOOR SOUND PRESS. LEVEL @	1M dB(A)	58	
(6) OUTDOOR SOUND POWER LEVEL O	dB(A)	67	
POWER SUPPLY	220 - 240V / 1Ph+N / 50 Hz		
(1) RATED LOAD AMPS - COOLING / HE	5.2 / 5.3		
(7) FULL LOAD AMPS	15.5		
(8) CIRCUIT BREAKER	16.0		
WEIGHT (kg) - INDOOR / OUTDOOR	12.3 / 38.4		
OUTDOOR ORERATING PANCE (90)	COOLING	-15 to 60	
OUTDOOR OPERATING 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.
- (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.

Note: Use input power to estimate running cost.



WDC 050CS

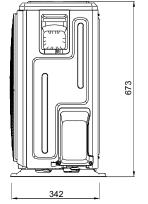
OUTDOOR	INDOOR CONDITIONS (°C - DB)																
TEMPERATURE	WB°C 17.0				18.0			19.0			22.0						
(DB)	DB°C	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0
	Nett Capacity, kW	5.46	5.46	5.46	5.52	5.60	5.60	5.60	5.60	5.78	5.78	5.78	5.78	6.21	6.21	6.21	6.21
18°C	Sensible Capacity, kW	3.77	3.99	4.48	4.97	3.47	3.70	4.15	4.65	3.18	3.41	3.87	4.33	2.48	2.73	3.17	3.60
	Power Input, kW	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.82	0.82	0.82	0.82
	Nett Capacity, kW	5.11	5.11	5.11	5.17	5.26	5.26	5.26	5.26	5.43	5.43	5.43	5.43	5.83	5.83	5.83	5.83
25°C	Sensible Capacity, kW	3.58	3.84	4.30	4.76	3.31	3.52	4.00	4.47	3.04	3.26	3.75	4.18	2.33	2.57	2.98	3.44
P	Power Input, kW	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
	Nett Capacity, kW	4.89	4.89	4.89	4.94	5.03	5.03	5.03	5.03	5.17	5.17	5.17	5.17	5.57	5.57	5.57	5.57
30°C	Sensible Capacity, kW	3.47	3.71	4.15	4.65	3.22	3.42	3.87	4.32	2.90	3.16	3.62	4.09	2.23	2.45	2.90	3.34
	Power Input, kW	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
_	Nett Capacity, kW	4.63	4.63	4.63	4.68	4.77	4.77	4.77	4.77	4.91	4.91	5.00	5.02	5.32	5.32	5.32	5.32
35°C	Sensible Capacity, kW	3.33	3.56	4.03	4.54	3.05	3.29	3.77	4.20	2.80	3.00	3.50	4.02	2.07	2.34	2.76	3.24
	Power Input, kW	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.17	1.17	1.16	1.16	1.16	1.16
	Nett Capacity, kW	4.36	4.36	4.38	4.42	4.49	4.49	_	4.51	4.64	4.64	4.68	4.64	5.01	5.01	5.01	5.01
40°C	Sensible Capacity, kW	3.27	3.49	3.98	4.42	2.97	3.19	3.68	4.15	2.69	2.92	3.42	3.90	1.96	2.21	2.66	4.51
	Power Input, kW	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.27	1.27	1.27	1.27	1.28	1.28	1.28	1.28
	Nett Capacity, kW	4.05	4.05	4.08	4.11	4.16	4.16	4.16	4.19	4.31	4.31	4.31	4.41	4.65	4.65	4.65	4.65
46°C	Sensible Capacity, kW	3.08	3.28	3.75	4.11	2.79	3.00	3.46	3.94	2.50	2.76	3.19	4.10	1.81	2.05	2.51	4.28
	Power Input, kW	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.41	1.41	1.41	1.41	1.42	1.42	1.42	1.42
	Nett Capacity, kW	3.07	3.10	3.13	3.16	3.19	3.19	3.22	3.25	3.30	3.30	3.30	3.33	3.59	3.59	3.59	3.59
60°C	Sensible Capacity, kW	2.61	2.85	3.13	3.16	2.36	2.58	3.06	3.25	2.08	2.31	2.77	3.23	1.40	1.62	2.08	3.48
	Power Input, kW	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.89	1.89

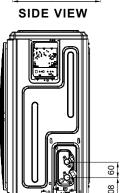
HEATING PERI	FORMANCE											
INDOOR		OUTDOOR TEMPERATURE										
CONDITIONS		-15°C D -16°C W	-7°C D -8°C W	-5°C D -6°C W	0°C D -1°C W	4°C D 3°C W	7°C D 6°C W	12°C D 11°C W	24°C D 18°C W			
45°C DD	Nett Capacity, kW	2.02	3.66	4.04	4.47	4.76	5.77	6.35	5.32			
15°C - DB	Power Input, kW	0.68	1.09	0.97	1.19	1.33	1.32	1.45	1.21			
18°C - DB	Nett Capacity, kW	1.93	3.49	3.86	4.27	4.54	5.51	6.06	5.08			
10 C - DB	Power Input, kW	0.65	1.06	0.93	1.14	1.28	1.27	1.39	1.17			
20°C - DB	Nett Capacity, kW	1.80	3.27	3.60	3.99	4.25	5.00	5.67	4.75			
20 C - DB	Power Input, kW	0.62	1.00	0.88	1.08	1.21	1.16	1.32	1.10			
22°C - DB	Nett Capacity, kW	1.75	3.17	3.49	3.87	4.12	4.99	5.49	4.61			
22°C - DB	Power Input, kW	0.63	1.02	0.89	1.10	1.24	1.23	1.35	1.13			
07°C DD	Nett Capacity, kW	1.57	2.85	3.14	3.47	3.69	4.48	4.93	4.13			
27°C - DB	Power Input, kW	0.63	1.02	0.90	1.11	1.24	1.23	1.35	1.13			

PIPE LENGTH CORRECTION MULTIPLIER

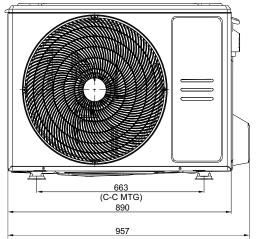
*	* COOLING				PIPE LENGTH (m)					
a e		COOLING		5	10	20	30			
		Indoor Unit Higher Than	30							
			20			0.904	0.861			
			10		0.963	0.918	0.874			
	H = Height	Outdoor Unit*	5	0.995	0.973	0.928	0.883			
	Difference		0	1.000	0.977	0.932	0.887			
**	(m)	Indoor Unit Lower Than Outdoor Unit**	-5	1.000	0.977	0.932	0.887			
	` ,		-10		0.977	0.932	0.887			
			-20			0.932	0.887			
			-30							
	11545010			PIPE LENGTH (m)						
		LIFATING			PIPE LEN	IGTH (m)				
		HEATING		5	PIPE LEN	NGTH (m) 20	30			
		<u> </u>	30	5			30			
		Indoor Unit	30 20		10	20				
		Indoor Unit Higher Than			10	20				
	H = Height	Indoor Unit	20		10 	20 0.972	0.953			
	H = Height Difference	Indoor Unit Higher Than	20 10		10 0.991	20 0.972 0.972	0.953 0.953			
		Indoor Unit Higher Than Outdoor Unit*	20 10 5	 1.000	10 0.991 0.991	20 0.972 0.972 0.972	0.953 0.953 0.953			
	Difference	Indoor Unit Higher Than Outdoor Unit*	20 10 5 0	 1.000 1.000	10 0.991 0.991 0.991	20 0.972 0.972 0.972 0.972	0.953 0.953 0.953 0.953			
	Difference	Indoor Unit Higher Than Outdoor Unit*	20 10 5 0 -5	 1.000 1.000 0.992	10 0.991 0.991 0.991 0.983	20 0.972 0.972 0.972 0.972 0.964	0.953 0.953 0.953 0.953 0.953 0.945			

C OUTDOOR UNIT: WRC-050CS

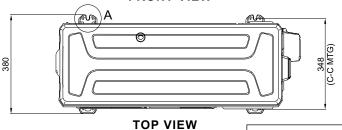




SIDE VIEW



FRONT VIEW



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

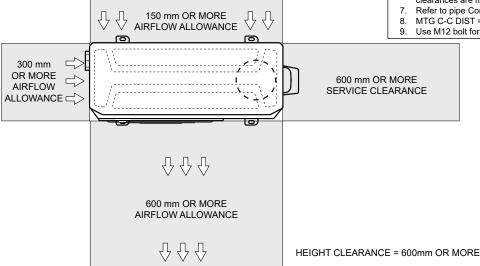


DETAIL - A





- 1. 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



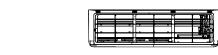
UNIT DIMENSIONS

WRC-050CS / WRE-050CS

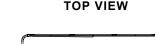
INDOOR UNIT: WRE-050CS

NOMINAL DIMENSION (H x W x D) = 315 x 965 x 239

> THIRD ANGLE ___



TOP VIEW



L_239

LHS VIEW

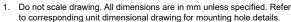
965 **FRONT VIEW**

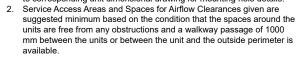
BOTTOM VIEW

RHS VIEW



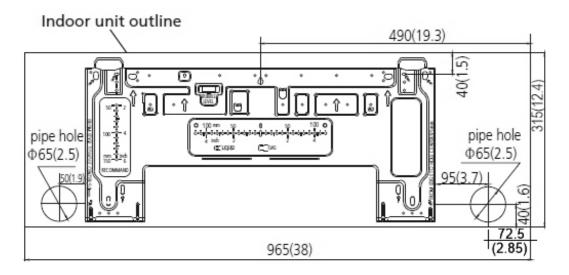




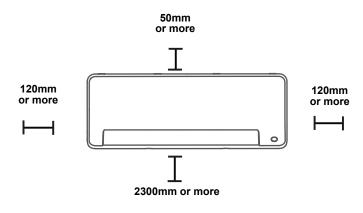


Minimum Service Access Areas and Spaces for Airflow Clearances are responsibilities of the installer, ActronAir will not be held liable for any extra charges incurred due to lack of access and space for airflow.

MOUNTING DETAILS



MOUNTING CLEARANCES





Pipe Length)

30°C DB

-25°C DB

SPECIFICATIONS

WRC-050CS / WRE-050CS

UNIT DIMENSIONS			COMPRESSOR						
	Depth	342 mm	NUMBER PER U	NIT x TYPE		1 x Rotary Compressor			
OUTDOOR DIMENSIONS	Height	673 mm	STARTING MET	HOD		DC Inverter S	tarter		
Width 890 mm		INPUT (W)			1090				
	Depth	239 mm	REFRIGERANT OIL (TYPE/CHARGE)		ESTER OIL VG74 / 440ml				
INDOOR DIMENSIONS	Height	315 mm	PROTECTION	-			mal Cut-Out		
Width 965 mm		REFRIGERATION SYSTEM							
ELECTRICAL			REFRIGERANT			R-32			
POWER SUPPLY		220 - 240 Volts / 1 Ph + N / 50Hz		FACTORY CHARGE			1100 q		
FULL LOAD AMPS*	Total	15.5	PRE-CHARGE L	PRE-CHARGE LENGTH		15 m			
FULL LOAD AMPS	Indoor	0.275	MINIMUM ROOM	MINIMUM ROOM AREA					
DATED OAD AMDO**	Cooling	5.2	(@ 2.3 INSTALLE	ED HEIGHT)		No restriction			
RATED LOAD AMPS**	Heating	5.3	ADD'L. REFRIGE			12g/m			
ID DATING	Outdoor	IP24	DESIGN PRESS	DESIGN PRESSURE (High/Low)		4.3/1.7 MPa			
IP RATING	Indoor	IPX0	INTERCONNECTING PIPE RUN						
IMPORTANT - The local electricity authority may require limits on starting current and			MAXIMUM PIPE	MAXIMUM PIPE LENGTH			30 m		
voltage drop, please check prior to purchase.				MAXIMUM CHARGE					
*Full Load Amps are based on Compressor and Fan Motor's maximum expected current.		MINIMUM ROOM	MINIMUM ROOM AREA						
**Rated Load Amps are mea	sured and teste	d in accordance with AS/NZS3823.1.1.		(@ 2.3 INSTALLED HEIGHT)			0.949 m ²		
CIRCUIT BREAKE	R SIZE			MINIMUM PIPE LENGHT					
Circuit Breaker Size		16.0 Amps		,			d in Max. Pipe Lengt		
	alian/New Zeala	nd Wiring Rules or AS/NZS 3008 "Electrical	FIELD PIPE SIZE	S		6.35 mm (1/4 ²			
Installations-Selection of Cab			Liquid Pipe				·		
OUTDOOR COIL			Gas Pipe	IONIC		12.7 mm (1/2	")		
TUBE TYPE		Copper Ø7mm, inner groove tube	Indoor	PIPE CONNECTIONS Indoor Liquid Pipe		6.35 mm (1/4")			
FIN TYPE		Hydrophylic Aluminium	Illudoli	Gas Pipe	e	12.7 mm (1/2	· <u> </u>		
FACE AREA		0.54m ²	Outdoor	Liquid Pip		6.35 mm (1/4	·		
FIN SPACING		1.3 mm	Odidooi	Gas Pipe					
OUTDOOR FAN			CONNECTION T			12.7 mm (1/2'			
NUMBER OF FANS x TY	PE	1 x Axial							
INPUT (W)	' -	340	ELECTRIC C	ONTROLS	i				
FAN SPEED (rpm) - Hi/L	0	700/530	DEFROST METH	DEFROST METHOD		Reverse Cycle			
AIRFLOW (I/s)	.0	970	- WALL CONTROL			4 Core (0.75n	nm²) Shielded Data		
		970		(INCLUDED FOR WIRED CONTROLLER OPTION)) Cinciaca Bata		
INDOOR COIL			OONTROLLER	71 11011)					
TUBE TYPE		Copper Ø7mm, inner groove tube	OPERATING						
FIN TYPE		Hydrophylic Aluminium	It is essential that the unit is correctly sized for the application and operates within its recommended range of operating conditions as shown below.						
FACE AREA		0.25 m ²	- Isosiiiiiciided laii(, c or operating to			OUTDOOF		
FIN SPACING		1.3 mm	MODE	DANCE		NDOOR	OUTDOOR		

AIRFLOW - Boost/High/Med/Low
AIR FILTERS

INPUT (W)

INDOOR FAN NUMBER OF FANS x TYPE

Air filters are supplied standard and pre-fitted.

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	OUTDOOR AIR INTAKE					
		TEMPERATURE	TEMPERATURE					
COOLING	Max.	32°C DB	60°C DB					
COOLING	Min	17°C DB	15°C DB					

30°C DB

0°C DB

Max.

Min.

HEATING

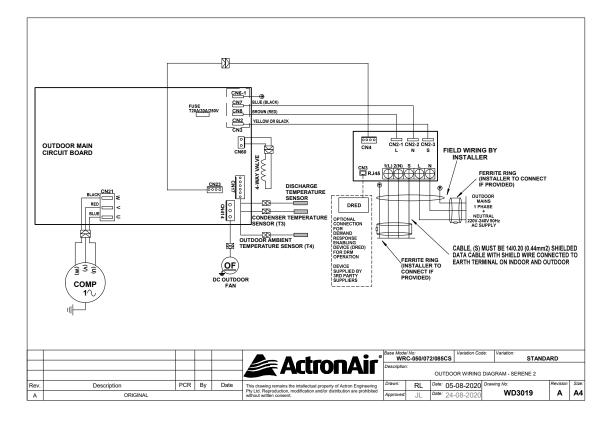


1 x Cross- flow fan

240/201/172/120 (I/s)

36

WRC-050CS (OUTDOOR)



WRE-050CS (INDOOR)

