Phase | 1 Stage

WALL HUNG SPLIT SYSTEM



















UNIT FEATURES

- Reverse Cycle Wall Hung Split System
- Mono & Multi Compatible Heads
- Rotary Compressor
- Superior Operating Range:
- Cooling: up to 50°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
- BIO Filter
- · Self-Diagnosis and Auto Protection
- Fire Proof Electrical Box Indoor & Outdoor Units

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
- · Turbo 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

- MEPS 2012
- Demand Response AS4755.3.1

SPECIFICATION SUMMARY

OUTDOOR UNIT MODEL	WRC-050AS		
INDOOR UNIT MODEL	WRE-050AS		
		NETT	
(1)(2) COOLING CAPACITY (kW) - NOMIN	5.00 (2.00 - 6.00)		
(1)(3) HEATING CAPACITY (kW) - NOMIN	AL (MIN - MAX)	5.15 (1.55 - 6.18)	
(1) (4) COOLING INPUT POWER (kW)		1.32	
(1) (4) HEATING INPUT POWER (kW)		1.32	
(1)(2) EER		3.79	
(1)(3) COP		3.90	
(5) INDOOR AIRFLOW (I/s) - LOW/MED/I	HIGH	211/264/306	
MOISTURE REMOVAL (I/hr)		1.8	
INDOOR SOUND PRESS. LEVEL dB(A) - LOW/MED/HIGH	37/42/44		
OUTDOOR SOUND PRESS. LEVEL @	55		
(6) OUTDOOR SOUND POWER LEVEL O	63		
POWER SUPPLY		220 - 240V / 1Ph+N / 50 Hz	
INDOOR UNIT WIRING METHOD	INDOOR UNIT WIRING METHOD		
(1) RATED LOAD AMPS - COOLING / HE	5.9 / 5.9		
(7) FULL LOAD AMPS	8.5		
(8) CIRCUIT BREAKER AND CABLE AME	10.0		
WEIGHT (kg) - INDOOR / OUTDOOR	WEIGHT (kg) - INDOOR / OUTDOOR		
OUTDOOR OPERATING BANGE (%C)	COOLING	-15 to 50	
OUTDOOR OPERATING RANGE (°C)	HEATING	-25 to 30	
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- (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.
- 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.

Note: Use input power to estimate running cost.



COOLING PER	FORMANCE							
INDOOR		OUTDOOR TEMPERATURE (°C - DB)						
CONDITIONS		21	25	30	35	40	45	50
0400 DD	Nett Capacity, kW	4.87	4.78	4.70	4.47	4.26	3.13	2.23
21°C - DB 15°C - WB	Sensible Heat Capacity, kW	3.96	3.89	3.82	3.63	3.47	2.54	1.82
15 C - WB	Power Input, kW	0.51	0.83	1.02	1.24	1.39	1.40	1.42
0490 DD	Nett Capacity, kW	5.18	5.08	5.00	4.75	4.54	3.33	2.38
24°C - DB 17°C - WB	Sensible Heat Capacity, kW	4.21	4.14	4.07	3.87	3.69	2.71	1.93
17 C - WB	Power Input, kW	0.52	0.86	1.05	1.28	1.43	1.45	1.46
070C DD	Nett Capacity, kW	5.45	5.35	5.26	5.00	4.78	3.50	2.50
27°C - DB 19°C - WB	Sensible Heat Capacity, kW	4.44	4.35	4.28	4.07	3.89	2.85	2.04
19 C - WD	Power Input, kW	0.54	0.89	1.08	1.32	1.48	1.49	1.51
220C DD	Nett Capacity, kW	6.10	5.99	5.89	5.60	5.35	3.92	2.80
32°C - DB 23°C - WB	Sensible Heat Capacity, kW	4.97	4.88	4.80	4.56	4.35	3.19	2.28
23°C - WB	Power Input, kW	0.59	0.98	1.19	1.46	1.63	1.65	1.66

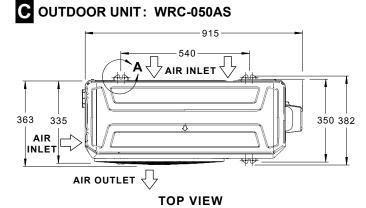
HEATING PERI	FORMANCE								
INDOOR	OUTDOOR TEMPERATURE								
CONDITIONS		-15°C D -16°C W	-7°C D -8°C W	-5°C D -6°C W	0°C D -1°C W	4°C D 3°C W	7°C D 6°C W	12°C D 11°C W	24°C D 18°C W
4500 DD	Nett Capacity, kW	2.02	3.66	4.04	4.47	4.76	5.77	6.34	5.32
15°C - DB	Power Input, kW	0.74	1.21	1.06	1.30	1.46	1.45	1.59	1.33
18°C - DB	Nett Capacity, kW	1.93	3.50	3.86	4.27	4.54	5.51	6.06	5.08
10 C - DB	Power Input, kW	0.72	1.16	1.02	1.26	1.41	1.40	1.54	1.29
200C DD	Nett Capacity, kW	1.80	3.27	3.61	3.99	4.25	5.15	5.67	4.75
20°C - DB	Power Input, kW	0.68	1.10	0.97	1.19	1.33	1.32	1.45	1.21
000C DD	Nett Capacity, kW	1.75	3.17	3.50	3.87	4.12	5.00	5.50	4.61
22°C - DB	Power Input, kW	0.69	1.12	0.99	1.21	1.36	1.35	1.48	1.24
27°C - DB	Nett Capacity, kW	1.57	2.85	3.14	3.47	3.70	4.48	4.93	4.13
	Power Input, kW	0.69	1.13	0.99	1.22	1.36	1.35	1.49	1.24

PIPE LENGTH CORRECTION MULTIPLIER					
	5m	10m	20m	30m	
COOLING	1.000	0.985	0.954	0.924	
HEATING	1.000	0.990	0.971	0.952	

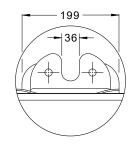
NOTES:

- 1. No allowance has been made for the effect of indoor fan motor.
- $2. \ \, \text{Selection tables are based on nominal airflows}.$
- Correction factors must be applied for selection away from these conditions.
- 3. Pipe length correction multipliers are based on horizontal pipe runs.

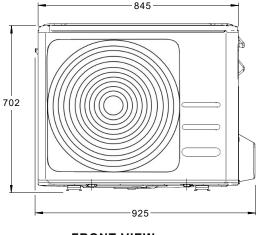


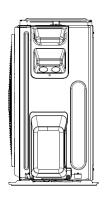


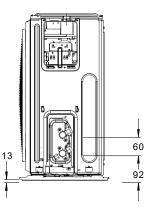
NOMINAL DIMENSION (H x W x D) = 702 x 845 x 363 USE M10 BOLT FOR FEET MOUNTING



DETAIL - "A"







FRONT VIEW

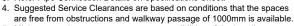
SIDE VIEW

SIDE VIEW

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NOTES:

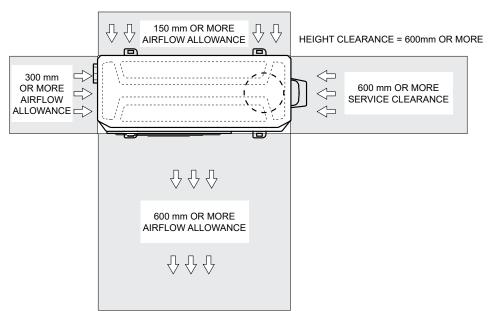
- All dimensions are in mm unless specified.
- Do not scale drawing.
- 3. Refer Pipe Connection Details on Specifications Sheet.



5. Minimum service access areas are responsibilities of the installer.

PLEASE NOTE THAT UNDER ALL CIRCUMSTANCES, CONDENSER AIR MUST NOT RECIRCULATE BACK ONTO CONDENSER COIL.

SERVICE ACCESS AREAS & AIRFLOW ALLOWANCES



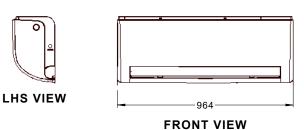


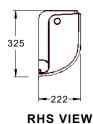


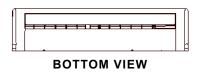
- 1. All dimensions are in mm unless specified.
- ∈
- 2. Do not scale drawing.
- Refer Pipe Connection Details on Specifications Sheet.
 Minimum service access areas are responsibilities of the installer.

NOMINAL DIMENSION (H x W x D) = 325 x 964 x 222

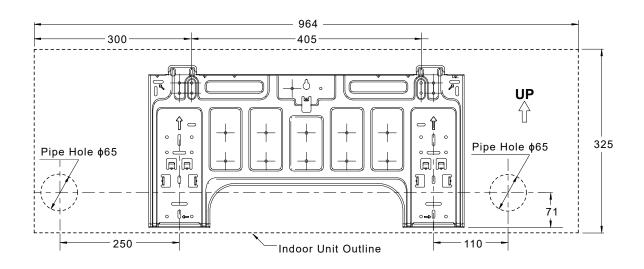




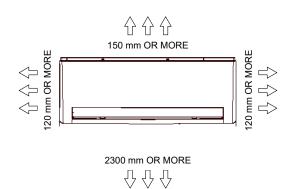




MOUNTING DETAILS



MOUNTING CLEARANCES





COMPRESSOR				
NUMBER PER UNIT x TYPE	1 x Rotary Compressor			
STARTING METHOD	DC Inverter Starter			
INPUT (W)	1035			
REFRIGERANT OIL (TYPE/CHARGE)	ESTER OIL VG74 / 450ml			
PROTECTION	External Thermal Cut-Out			
REFRIGERATION SYSTEM				
REFRIGERANT TYPE	R-410A			
FACTORY CHARGE	1575 g			
PRE-CHARGE LENGTH	10 m			
ADD'L. REFRIGERANT CHARGE	15g/m			

		9					
DESIGN PRESSURE (High/Low)		4.2/1.5 MPa					
INTERCONNEC	INTERCONNECTING PIPE RUN						
MAX PIPE LENGTH		30 m					
MIN PIPE LENGTH		3 m					
MAX. VERTICAL LE	NGTH	20 m (Included in Max. Pipe Length)					
FIELD PIPE SIZES							
Liquid Pipe		6.35 mm (1/4")					
Gas Pipe		12.7 mm (1/2")					
PIPE CONNECTION	NS .						
Indoor	Liquid Pipe	6.35 mm (1/4")					
	Gas Pipe	12.7 mm (1/2")					
Outdoor	Liquid Pipe	6.35 mm (1/4")					
	Gas Pipe	12.7 mm (1/2")					
CONNECTION TYPE		Flare Nut					

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

OPERATING RANGE

	recommended range of operating conditions as shown below.						
	MODE	RANGE	INDOOR OPERATING TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE			
	20011110	Max.	32°C DB	50°C DB			
COOLING	Min.	17°C DB	-15°C DB				
HEATING	Max.	30°C DB	30°C DB				
	HEATING	Min.	0°C DB	-25°C DB			

It is essential that the unit is correctly sized for the application and operates within its

UNIT DIMENSIONS					
OUTDOOR DIMENSIONS	Depth	363 mm			
	Height	702 mm			
	Width	845 mm			
INDOOR DIMENSIONS	Depth	222 mm			
	Height	325 mm			
	Width	964 mm			

ELECTRICAL		
POWER SUPPLY		220 - 240 Volts / 1 Ph + N / 50Hz
WIRING METHOD		Hard wire to outdoor
FULL LOAD AMPS*	Total	8.5
FULL LOAD AMPS	Indoor	0.275
RATED LOAD AMPS**	Cooling	5.9
RATED LOAD AIVIPS	Heating	5.9
IP RATING	Outdoor	IP24
	Indoor	IP20

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 current.

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

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)	1.5 mm ² (SUGGESTED MINIMUM)
Cable Size (Indoor to Outdoor Wire)	1.0 mm² (3 Core + Earth)
Circuit Breaker Size	10.0Amps

OUTDOOR COIL	
TUBE TYPE	Copper Ø7mm, inner groove tube
FIN TYPE	Hydrophylic Aluminium
FACE AREA	0.49 m ²
FIN SPACING	1.4 mm
ROWS	2

OUTDOOR FAN	
NUMBER OF FANS x TYPE	1 x Axial
INPUT (W)	180
FAN SPEED (rpm) - Hi/Med/Lo	850/700/500
AIRFLOW (I/s)	639

INDOOR COIL	
TUBE TYPE	Copper Ø7mm, inner groove tube
FIN TYPE	Hydrophylic Aluminium
FACE AREA	0.22 m ²
FIN SPACING	1.2 mm
ROWS	2

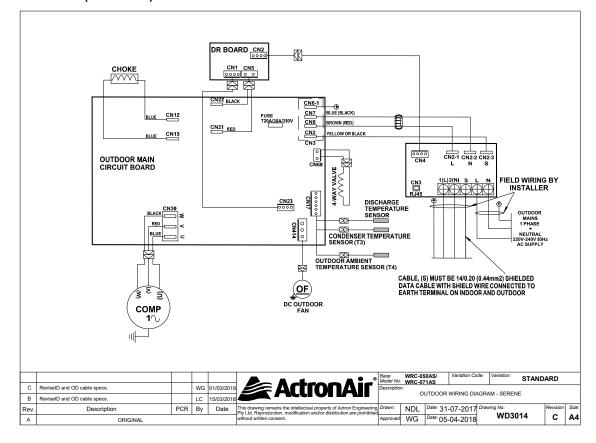
INDOOR FAN	
NUMBER OF FANS x TYPE	1 x Centrifugal
INPUT (W)	110
AIRFLOW - Hi/Med/Lo	306/264/211(I/s)

AIR FILTERS

Air filters are supplied standard and pre-fitted.



WRC-050AS (OUTDOOR)



WRE-050AS (INDOOR)

