

WALL HUNG SPLIT SYSTEM



1 Phase
1 Stage
8.00 kW

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-080AS	
INDOOR UNIT MODEL	WRE-080AS	
	NETT	
⁽¹⁾⁽²⁾ COOLING CAPACITY (kW) - NOMINAL (MIN - MAX)	8.00 (4.00 - 8.80)	
⁽¹⁾⁽³⁾ HEATING CAPACITY (kW) - NOMINAL (MIN - MAX)	8.15 (2.85 - 8.97)	
⁽¹⁾⁽⁴⁾ COOLING INPUT POWER (kW)	2.30	
⁽¹⁾⁽⁴⁾ HEATING INPUT POWER (kW)	2.37	
⁽¹⁾⁽²⁾ EER	3.48	
⁽¹⁾⁽³⁾ COP	3.44	
⁽⁵⁾ INDOOR AIRFLOW (l/s) - LOW/MED/HIGH	242/356/386	
MOISTURE REMOVAL (l/hr)	3.0	
INDOOR SOUND PRESS. LEVEL dB(A) - LOW/MED/HIGH	38/44/47	
OUTDOOR SOUND PRESS. LEVEL @ 1M dB(A)	62	
⁽⁶⁾ OUTDOOR SOUND POWER LEVEL dB(A)	70	
POWER SUPPLY	220 - 240V / 1Ph+N / 50 Hz	
INDOOR UNIT WIRING METHOD	Hard wire to Outdoor	
⁽¹⁾ RATED LOAD AMPS - COOLING / HEATING	10.2 / 10.4	
⁽⁷⁾ FULL LOAD AMPS	13.5	
⁽⁸⁾ CIRCUIT BREAKER AND CABLE AMPS	16.0	
WEIGHT (kg) - INDOOR / OUTDOOR	13.6 / 62.7	
OUTDOOR OPERATING RANGE (°C)	COOLING	-15 to 50
	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 cable size and circuit breaker size details.

Note: Use input power to estimate running cost.



8.00 kW
1 Phase 1 Stage

COOLING PERFORMANCE

INDOOR CONDITIONS		OUTDOOR TEMPERATURE (°C - DB)						
		21	25	30	35	40	45	50
21°C - DB 15°C - WB	Nett Capacity, kW	7.79	7.64	7.52	7.14	6.82	5.00	3.57
	Sensible Heat Capacity, kW	5.91	5.80	5.70	5.42	5.18	3.79	2.71
	Power Input, kW	0.88	1.45	1.77	2.16	2.42	2.44	2.47
24°C - DB 17°C - WB	Nett Capacity, kW	8.28	8.13	8.00	7.60	7.26	5.32	3.80
	Sensible Heat Capacity, kW	6.29	6.17	6.07	5.77	5.51	4.04	2.88
	Power Input, kW	0.91	1.50	1.83	2.23	2.50	2.52	2.55
27°C - DB 19°C - WB	Nett Capacity, kW	8.72	8.56	8.42	8.00	7.64	5.60	4.00
	Sensible Heat Capacity, kW	6.62	6.49	6.39	6.07	5.80	4.25	3.04
	Power Input, kW	0.94	1.55	1.88	2.30	2.58	2.60	2.63
32°C - DB 23°C - WB	Nett Capacity, kW	9.77	9.59	9.43	8.96	8.56	6.27	4.48
	Sensible Heat Capacity, kW	7.41	7.27	7.15	6.80	6.49	4.76	3.40
	Power Input, kW	1.03	1.71	2.08	2.54	2.84	2.87	2.90

HEATING PERFORMANCE

INDOOR CONDITIONS		OUTDOOR TEMPERATURE							
		-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	3.19	5.80	6.39	7.07	7.53	9.13	10.04	8.42
	Power Input, kW	1.33	2.17	1.91	2.34	2.63	2.60	2.86	2.39
18°C - DB	Nett Capacity, kW	3.05	5.54	6.10	6.76	7.19	8.72	9.59	8.04
	Power Input, kW	1.29	2.09	1.84	2.26	2.53	2.51	2.76	2.31
20°C - DB	Nett Capacity, kW	2.85	5.18	5.71	6.32	6.72	8.15	8.97	7.52
	Power Input, kW	1.22	1.97	1.74	2.13	2.39	2.37	2.61	2.18
22°C - DB	Nett Capacity, kW	2.77	5.02	5.53	6.13	6.52	7.91	8.70	7.29
	Power Input, kW	1.24	2.02	1.77	2.18	2.44	2.42	2.66	2.23
27°C - DB	Nett Capacity, kW	2.48	4.50	4.96	5.49	5.85	7.09	7.80	6.54
	Power Input, kW	1.24	2.02	1.78	2.18	2.45	2.43	2.67	2.23

PIPE LENGTH CORRECTION MULTIPLIER

	5m	10m	20m	30m	40m	50m
COOLING	1.000	0.985	0.954	0.915	0.890	0.865
HEATING	1.000	0.990	0.971	0.948	0.934	0.921

NOTES:

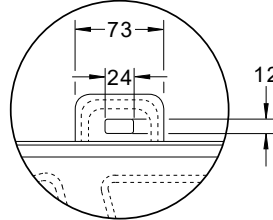
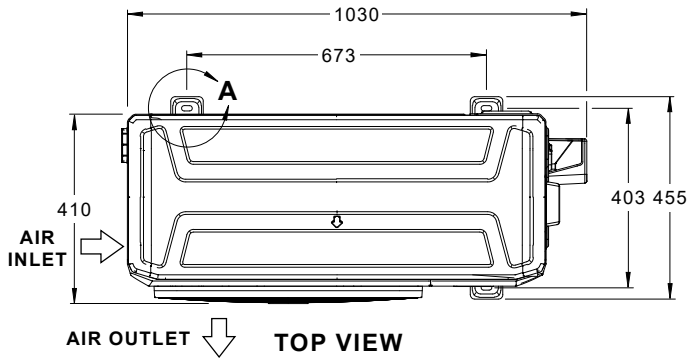
- No allowance has been made for the effect of indoor fan motor.
- Selection tables are based on nominal airflows.
Correction factors must be applied for selection away from these conditions.
- Pipe length correction multipliers are based on horizontal pipe runs.

UNIT DIMENSIONS

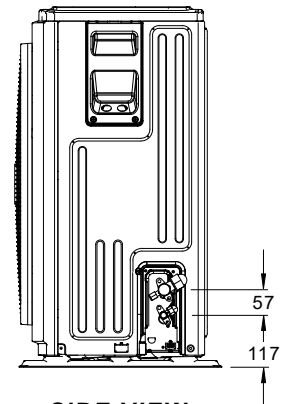
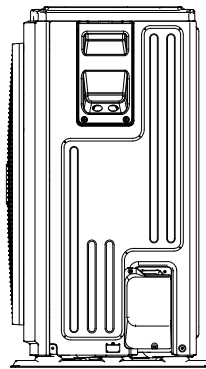
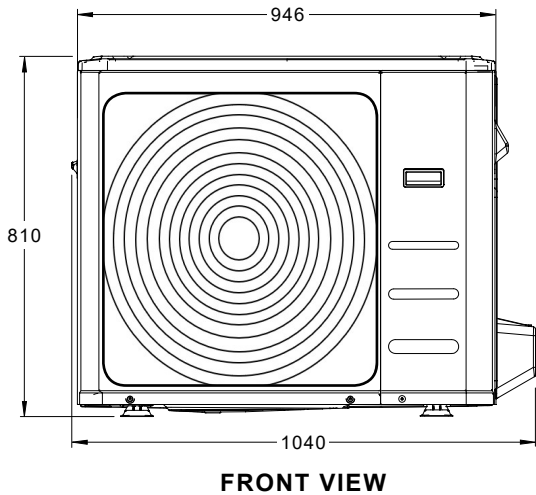
WRC-080AS / WRE-080AS

C OUTDOOR UNIT: WRC-080AS

NOMINAL DIMENSION (H x W x D)
= 810 x 946 x 410
USE M10 BOLT FOR FEET MOUNTING



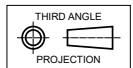
1 Phase
1 Stage
8.00 kW



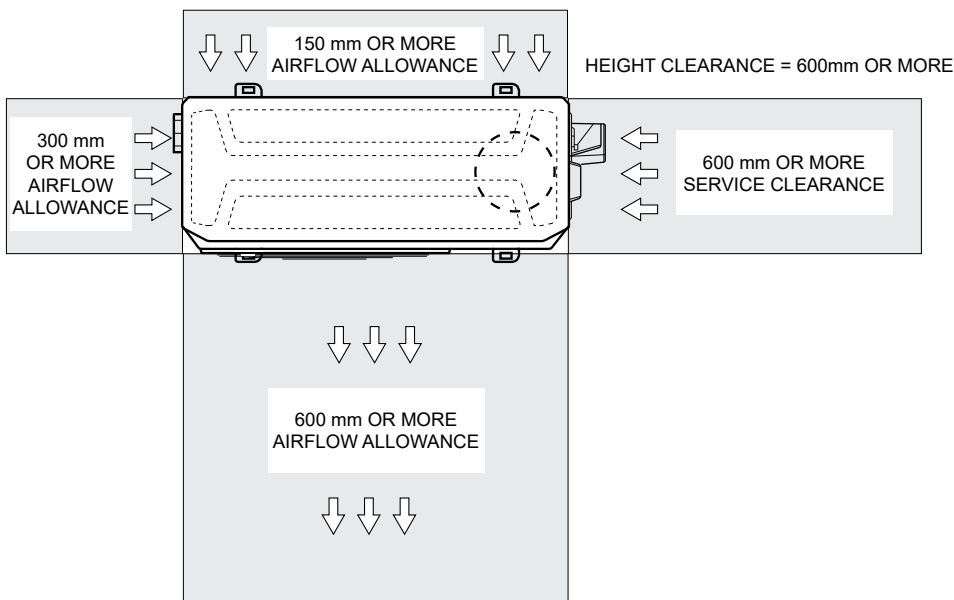
PLEASE NOTE THAT UNDER ALL CIRCUMSTANCES, CONDENSER AIR MUST NOT RECIRCULATE BACK ONTO CONDENSER COIL.

NOTES:

1. All dimensions are in mm unless specified.
2. Do not scale drawing.
3. Refer Pipe Connection Details on Specifications Sheet.
4. Suggested Service Clearances are based on conditions that the spaces are free from obstructions and walkway passage of 1000mm is available.
5. Minimum service access areas are responsibilities of the installer.



SERVICE ACCESS AREAS & AIRFLOW ALLOWANCES



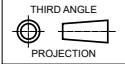
UNIT DIMENSIONS

WRC-080AS / WRE-080AS

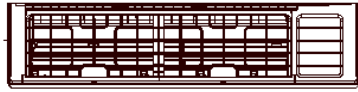
E INDOOR UNIT: WRE-080AS

NOTES:

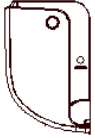
1. All dimensions are in mm unless specified.
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4. Minimum service access areas are responsibilities of the installer.



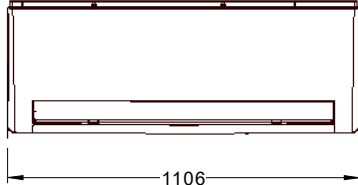
NOMINAL DIMENSION (H x W x D)
= 342 x 1106 x 232



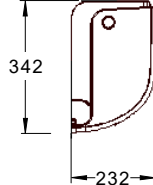
TOP VIEW



LHS VIEW



FRONT VIEW

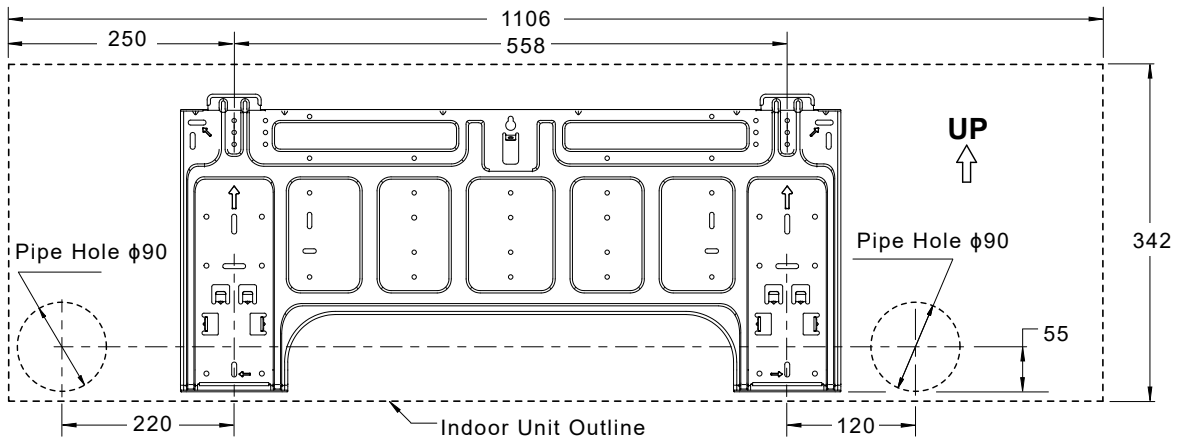


RHS VIEW

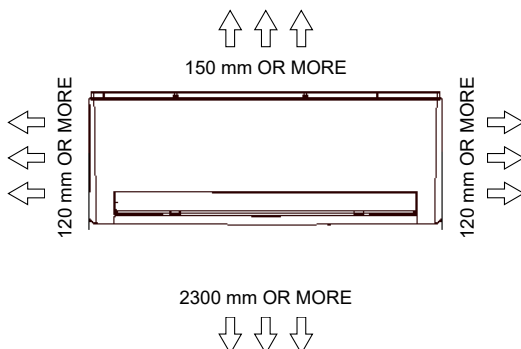


BOTTOM VIEW

MOUNTING DETAILS



MOUNTING CLEARANCES



8.00 kW
1 Phase 1 Stage

SPECIFICATIONS

WRC-080AS / WRE-080AS

UNIT DIMENSIONS

OUTDOOR DIMENSIONS	Depth	410 mm
	Height	810 mm
	Width	946 mm
INDOOR DIMENSIONS	Depth	232 mm
	Height	342 mm
	Width	1106 mm

ELECTRICAL

POWER SUPPLY	220 - 240 Volts / 1 Ph + N / 50Hz	
WIRING METHOD	Hard wire to outdoor	
FULL LOAD AMPS*	Total	13.5
FULL LOAD AMPS	Indoor	0.40
RATED LOAD AMPS**	Cooling	10.2
	Heating	10.4
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)	2.5 mm ² (SUGGESTED MINIMUM)
Cable Size (Indoor to Outdoor Wire)	1.0 mm ² (3 Core + Earth)
Circuit Breaker Size	16.0Amps

OUTDOOR COIL

TUBE TYPE	Copper Ø7mm, inner groove tube
FIN TYPE	Hydrophylic Aluminium
FACE AREA	1.21 m ²
FIN SPACING	1.4 mm
ROWS	2.6

OUTDOOR FAN

NUMBER OF FANS x TYPE	1 x Axial
INPUT (W)	380
FAN SPEED (rpm) - Hi / Med / Lo	850 / 700 / 450
AIRFLOW (l/s)	1167

INDOOR COIL

TUBE TYPE	Copper Ø7mm, inner groove tube
FIN TYPE	Hydrophylic Aluminium
FACE AREA	0.26 m ²
FIN SPACING	1.3 mm
ROWS	2

INDOOR FAN

NUMBER OF FANS x TYPE	1 x Centrifugal
INPUT (W)	80
AIRFLOW - Hi / Med / Lo	386 / 356 / 242 (l/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)	1970
REFRIGERANT OIL (TYPE / CHARGE)	ESTER OIL VG74 / 670ml
PROTECTION	External Thermal Cut-Out

REFRIGERATION SYSTEM

REFRIGERANT TYPE	R-410A
FACTORY CHARGE	2300 g
PRE-CHARGE LENGTH	10 m
ADD'L. REFRIGERANT CHARGE	30 g / m
DESIGN PRESSURE (High / Low)	4.2 / 1.5 MPa

INTERCONNECTING PIPE RUN

MAX PIPE LENGTH	50 m
MIN PIPE LENGTH	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

CONNECTION TYPE	Flare Nut
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ELECTRIC CONTROLS

DEFROST METHOD	Reverse Cycle
WALL CONTROLLER CABLE (INCLUDED WITH WALL CONTROLLER)	4 Core (0.75mm ²) 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	50°C DB
	Min.	17°C DB	-15°C DB
HEATING	Max.	30°C DB	30°C DB
	Min.	0°C DB	-25°C DB

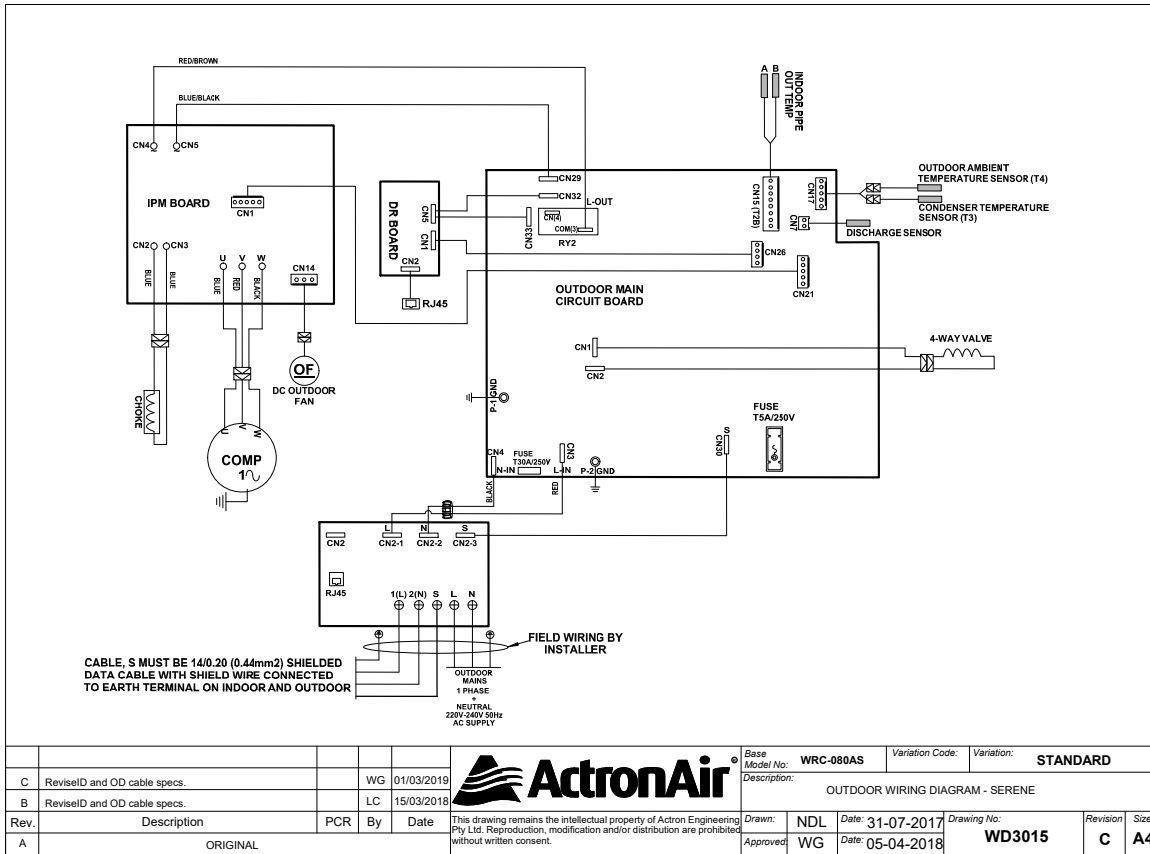
1 Phase
1 Stage

8.00 kW



WRC-080AS (OUTDOOR)

8.00 kW
1 Phase 1 Stage



WRE-080AS (INDOOR)

