

HEAT PUMP & CONTROLLER V1.1 SPECIFICATIONS



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HEAT PUMP		MODEL EHPE-4550P-A
Heat output at 32.6°C ambient / 21.1°C cold water inlet	kW	5.24
Electric input at 32.6°C ambient / 21.1°C cold water inlet	kW	0.87
COP at 32.6°C ambient / 21.1°C cold water inlet	-	6.02
Power input (MAX)	kW	2.5
Current input (MAX)	A	11
Circuit breaker size	A	20
Standby power consumption	kW	0.0019
Power supply	V/Hz	230-240V/50Hz [single phase]
Heat pump refrigerant	-	CO2 (R744)
Heat pump hot water delivery temperature	°C	63
Range of operating Ambient temperature	°C	-10 to 43
Heat pump unit weight	kg	48
Heat pump location	-	outdoor
Noise level	dB	37
Dimension (H x W x D)	mm	675 x 825 x 300
Rain resistance	-	IPX4
Water port connections (Inlet / Outlet)	Inch/mm	1/2" BSP, 12.7mm
Built-in freeze and frost control	°C	Variable. Depends on the relative humidity, water, & ambient temperature (i.e. about 2°C water temperature & 5°C ambient temperature)

SMART CONTROLLER V1.1

Controller power supply voltage and frequency	V/Hz	240/50 (single phase)
Signal from the controller to heat pump	V/Hz	12/50
Controller location	-	Mounted on wall or tank
Heat pump on / off temperature (based on the thermistor on the tank)	°C	37/59
Daily Self-Legionella control	-	60°C at 45% level on tank
IP Rating	-	IP54
UV Rating	-	UL508
Operational mode (selectable by the end user)		6 available options
Option 1: 24hours – continuous		<p>* One shot boost is activated by a dry contact signal from home management or PV inverters or dry contact smart switches</p> <p>NOTE One shot boost: this activates the heat pump if temperature is less than 59°C, heating up until 59°C is sensor level is achieved.</p>
Option 2: 9hours (off-peak mode 1: 10pm – 7am)		
Option 3: 6hours (off-peak mode 2: 12am – 6am)		
Option 4: 6 hours (10am – 4pm)		
Option 5: Timer (two-zones)		
Option 6: Remote (one shot boost)*		



CERTIFICATIONS: The product has been certified/tested successfully under the following Australian standards: • AS 5125.1, AS 4020 • AS 3498 • AS 2712 • AS 60335.1 • AS 60335.2.40

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Note: Images of heat pump and controller are not to scale and are for illustrative purposes only.



TANK SPECIFICATIONS

AIR-SOURCE CO2 HEAT PUMP HOT WATER SYSTEM

160L
250L
315L
400L



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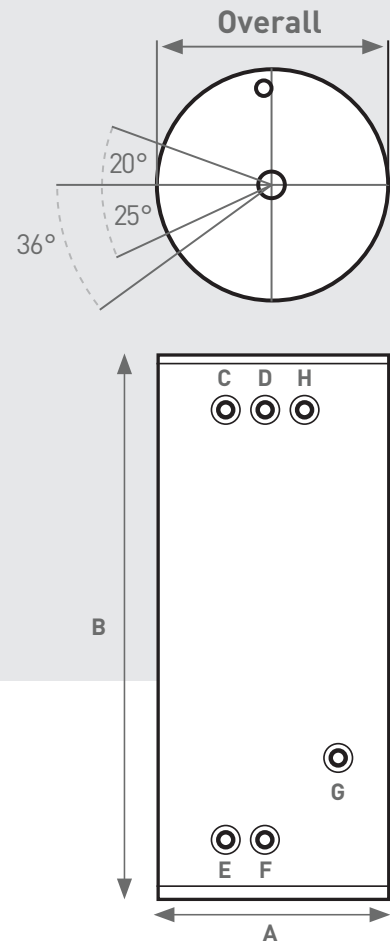
THE RECLAIM ENERGY HEAT PUMP, DESIGNED, MANUFACTURED AND SUPPLIED BY AUSTRALIA'S LEADING, AND ONLY, DEDICATED RENEWABLE ENERGY HOT WATER SUPPLIER – SERVICING AUSTRALIA FOR OVER 15 YEARS.

The following table provides descriptive definitions of common terminology used throughout this manual and other documents and materials relating to your Air-Source CO2 Hot Water System.

		GLASS LINED			
SYSTEM MODEL ID	UNIT	REHP-CO2-160GL	REHP-CO2-250GL	REHP-CO2-315GL	REHP-CO2-400GL
TANK ID		RE160AGLH	RE250AGLH	AP315AGLH* & RE315AGLH	RE400AGLH
PTRV Rating	kPa	850	850	850	850
Glass Lined (GL) or Stainless Steel (SS)		GL	GL	GL	GL
Total physical volume	L	163	259	323	420
Diameter (A)	mm	528	613	617	701
Height (B)	mm	1317	1439	1765	1699
Hot water outlet (D)	mm	1099	1212	1531	1447
PTRV port (H)/heat pump return (C)	mm	1099	1212	1531	1447
Sensor (G)	mm	439	458	560	556
Cold Water inlet/HP Flow (E/F)	mm	189	196	197	221

* This tank model ID shares heat pump return and PTRV port via a tee valve connection

PARAMETER	UNIT	VALUE
Tank unit weight (empty)	Kg	160 > 58 250 > 72 315 > 92 400L > 106
PTRV pressure	kPa	850
Thermistor level on tank (depending on tank model ID)	%	55 to 69
Tank location	-	Indoor/Outdoor
Maximum distance between tank and the heat pump unit	m	10m Horizontal 5m Vertical



STAINLESS STEEL


REHP-C02-160SST	REHP-C02-250SST	REHP-C02-315SST	REHP-C02-315SSQ	REHP-C02-400SST	REHP-C02-250SS-WIL	REHP-C02-315SS-WIL	REHP-C02-250SSEW	REHP-C02-315SSEW
APS160TH	APS250TH	APS315TH	APS315SH	APS400TH	RE250WIL	RE315WIL	EWA-250HPT	EWA-315HPT
700	700	700	700	700	850	850	700	700
SS-Tall	SS-Tall	SS-Tall	SS-Squat	SS-Tall	SS	SS	SS	SS
180	280	330	333	420	268	327	250	315
565	565	565	685	680	620	620	620	620
1200	1800	2090	1490	1850	1680	2007	1620	1990
940	1588	1850	1205	1588	1455	1783	1184	1538
940	1588	1850	1205	1588	1455	1783	1437	1739
343	608	730	470	608	548	633	574	762
196	196	210	210	196	233	233	163	163



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