

AIR-SOURCE CO2 HEAT PUMP HOT WATER SYSTEM



The Reclaim Energy CO2 Heat Pump Hot Water System uses a heat pump and storage tank (stainless steel or glass-lined) to efficiently heat water. By extracting heat from the air, it generates over five units of heat for every unit of electricity used, drastically cutting energy costs. Its superior cold weather performance eliminates the need for backup heating.



**7 YEAR*
WARRANTY**



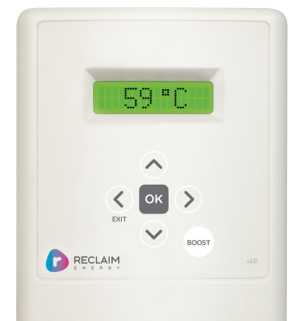
RECLAIM HEAT PUMP

- Energy efficient and money saving
- High coefficient of performance (COP) creating high energy from low energy input
- Quietest system on the market with an average noise level of 37dB
- One shot boost function for continuous hot water
- Smart Controller allows control over energy costs and consumption
- Glass Lined Enamel and Stainless-Steel tank options
- STC & VEEC approved

SMART CONTROLLER V1.1



SMART WIFI CONTROLLER V2.0



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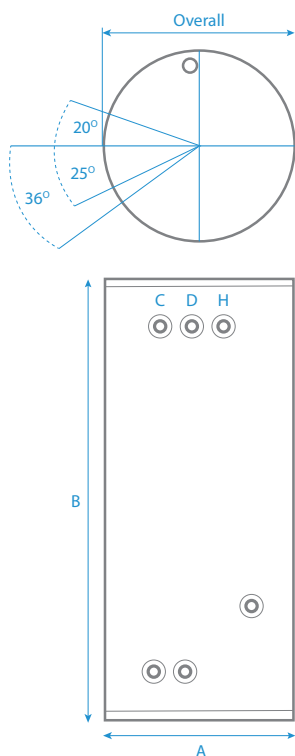
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PARAMETER		VALUE
Tank unit weight (empty)	Kg	160 > 58 250 > 72 315 > 92 400L > 106
PTRV pressure	kPa	850
Thermistor level on tank (depending on tank model ID)	%	55 to 69
Tank location	-	Indoor/Outdoor
Maximum distance between tank and the heat pump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

SYSTEM MODEL ID GLASS LINED TANK		REHP-C02-160GL	REHP-C02-250GL	REHP-C02-315L	REHP-C02-400GL
Tank ID		RE160AGLH	RE250AGLH	AP315AGLH* & RE315AGLH	RE400AGLH
PTRV Rating	kPa	850	850	850	850
Type: Glass Lined (GL)		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	196	196	197	221

SYSTEM MODEL ID STAINLESS STEEL TANK		REHP-C02-160SST	REHP-C02-250SST	REHP-C02-315SST	REHP-C02-315SSQ	REHP-C02-400SST	REHP-C02-250SSEW	REHP-C02-315SSEW
Tank ID		APS160TH	APS250TH	APS315TH	APS315SH	APS400TH	EWA-250HPT	EWA-315HPT
PTRV Rating	kPa	700	700	700	700	700	700	700
Type: Stainless Steel (SS)		SS-Tall	SS-Tall	SS-Tall	SS-Squat	SS-Tall	SS	SS
Total Physical Volume	L	180	280	330	333	420	250	315
Diameter (A)	mm	565	565	565	685	680	620	620
Height (B)	mm	1200	1800	2090	1490	1850	1620	1990
Hot Water Outlet (D)	mm	940	1588	1850	1205	1588	1184	1538
PTRV Port (H)/Heat Pump Return (C)	mm	940	1588	1850	1205	1588	1437	1739
Sensor (G)	mm	343	608	730	470	608	574	762
Cold Water Inlet / HP Flow (E/F)	mm	196	196	210	210	196	163	163

HEAT PUMP		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
Dimensions (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)		

