

● made in Japan



**ESTIA** POWERFUL

HEAT PUMP SYSTEM



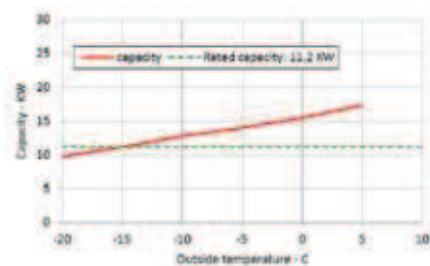
## For low ambient regions or for regions that require high water temperature.

Inverter technology and DC twin rotary compressor.

It can be used in combination with different types of emitters like: existing heat low temperature radiators, floor heating or fan coils.

The high efficient plate heat exchanger receives the optimum quantity of refrigerant to produce hot water at low or medium temperature (20°C -60°C), or cold water (7°C -25°C). A back up heater (3,6 or 9kW) further supports the operation for extreme conditions.

The Domestic Hot Water Tank is a compact stainless steel insulated tank producing domestic hot water for sanitary use. The performance of the overall system is also maximized thanks to the integrated coaxial heat exchanger which uses hot water produced by the heat pump.



Operation range down to -25°C  
Maintain the rated capacity down to -15°C  
Leaving water temperature up to 60°C



OUTDOOR UNITS



HYDRO UNITS



HOT WATER TANK



REMOTE CONTROLS

## HWS\_XWH / HWS\_H

## Performance data

Outdoor unit Hydro unit combination	HWS- HWS-	P804HR-E P804XWH**E	P1104HR-E P1104XWH**E
Heating capacity - (LWT 35°C @ OAT 7°C / -2°C / -15°C)	KW	15,23 / 12,36 / 8,43	18,05 / 14,39 / 11,23
Cooling capacity - (LWT 18°C @ OAT 35°C)	KW	9.65	12.49
Heating capacity - (LWT 45°C @ OAT 7°C / -2°C / -15°C)	KW	12,60 / 10,41 / 7,24	14,74 / 11,95 / 8,13
Cooling capacity - (LWT 7°C @ OAT 35°C)	KW	7.20	9.66
ηs/SCOP/CLASS (Average) - 30°/35°C	% / - / -	157/4,00/A++	175/4,45/A++
ηs/SCOP/CLASS (Average) - 47°/55°C	% / - / -	125/3,20/A++	131/3,35/A++
ηs/SCOP/CLASS (Warm) - 30°/35°C	% / - / -	185/4,70/A+++	158/4,03/A+++
ηs/SCOP/CLASS (Warm) - 47°/55°C	% / - / -	158/4,03/A+++	150/3,83/A+++

## HWS\_H

## Physical data outdoor

Outdoor unit	HWS-	P804HR-E	P1104HR-E
Dimensions (HxWxD)	mm	1340x900x320	1340x900x320
Weight	Kg	92	92
Sound pressure Level	dB(A)	49	49
Sound power level	dB(A)	66	66
Compressor type		Διπλός περιστροφικός DC	Διπλός περιστροφικός DC
Refrigerant		R410A	R410A
Flare connections (gas-liquid)	inch	5/8- 3/8	5/8 - 3/8
Minimum pipe length	m	5	5
Maximum pipe length	m	30	30
Maximum height difference	m	30	30
Chargeless pipe length	m	30	30
Operating range in space heating*	°C	-25~25	-25~25
Operating range Domestic hot water	°C	-25~43 **	-25~43 **
Operating range in cooling	°C	10~43	10~43
Bottom tape heater power	W	75	75
Power supply	V-ph-Hz	220/230-1-50	220/230-1-50

## HWS\_XWH

## Physical data Hydro unit

Hydro unit	HWS-	P804XWHM3-E	P804XWHT6-E	P804XWHT9-E	P1104XWHM3-E	P1104XWHT6-E	P1104XWHT9-E
To be used with size		80	80	80	110	110	110
Leaving water temperature	kW	H	20 ~ 60°C	20 ~ 60°C	20 ~ 60°C	20 ~ 60°C	20 ~ 60°C
	°C	C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C	7 ~ 25°C
Dimensions (HxWxD)	°C		925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
Weight	mm		49	49	49	52	52
Sound pressure level	Kg		27	27	27	29	29
Electric back up heater capacity	dB(A)		3	6	9	3	6
Electric back up heater supply	V-ph-Hz		220~230-1-50	380~400-3N-50	380~400-3N-50	220~230-1-50	380~400-3N-50
Maximum current	A		13	13 x 2	13 x 3	13	13 x 2

## HWS\_CSHM

## Physical data Hot water tank

Domestic hot water tank	HWS-	1501CSHM3-E	2101CSHM3-E
Water volume	litres	150	210
Max water temperature	°C	75	75
Electric heater	kW	2,7	2,7
Power supply	V-ph-Hz	220/230-1-50	220/230-1-50
Height	mm	1.090	1.474
Diameter	mm	550	550
Weight	Kg	31	41
Material		Stainless steel	Stainless steel

## ACCESSORIES

Model Name	Description	Functions
TCB-PCIN3E	Output signal PCB	Boiler operation output signal, Alarm output signal, Defrost output signal, Compressor operation output signal
TCB-PCMO3E	Input signal PCB	Room thermostat input, Emergency stop input
HWS-AMS11E	Wired RC	Wired Remote controller(sub)

C = Cooling mode H = Heating mode