SPECIFICATIONS OF ESP AQUA-INVERTER®

R32

MODEL	ESPAIR06	ESPAIR08	ESPAIR10	ESPAIR13	ESPAIR15	ESPAIR17	ESPAIR21	ESPAIR28	ESPAIR28T	ESPAIR35T
Advised pool volume (m^3)	15~30	20~40	25~45	30~55	35~65	40~75	50~95	65~120	65~120	90~160
Operating air temperature (°C)	-7~43									
Performance Condition: Air 26°C / Water 26°C / Humidity 80%										
Heating capacity (kW)	6.5	8.4	10.3	12.8	15.0	17.3	20.4	27.3	27.0	35.6
COP	14.0~5.7	14.1~7.0	14.5~6.9	15.0~7.4	15.5~6.7	14.8~5.9	14.5~5.7	14.6~6.2	14.5~6.2	14.6~5.5
COP at 50% capacity	10.0	10.3	10.4	11.0	10.9	10.5	10.2	10.8	10.8	10.3
Performance Condition: Air 15°C / Water 26°C / Humidity 70%										
Heating capacity (kW)	4.8	6.1	7.1	8.3	10.5	11.4	14.0	18.0	18.0	24.0
COP	7.1~4.3	7.0~4.8	7.3~4.6	7.7~4.8	7.8~4.6	7.5~4.3	7.4~4.2	7.8~4.6	7.6~4.5	7.7~4.5
COP at 50% capacity	6	6.3	6.4	6.8	6.6	6.1	6.1	6.5	6.5	6.8
Sound pressure at 1m dB(A)	37.8~47.2	38.8~48.2	38.6~49.9	42.1~50.7	41.3~54.0	43.1~53.8	40.9~54.2	43.5~54.9	43.5~54.9	42.6~54.7
Sound pressure of 50% capacity at 1m dB(A)	40.1	41.4	43.3	45.7	46.0	46.5	46.4	48.4	48.4	45.8
Sound pressure at 10m dB(A)	17.8~27.2	18.8~28.2	18.6~29.9	22.1~30.7	21.3~34.0	23.1~33.8	20.9~34.2	23.5~34.9	23.5~34.9	22.6~34.7
Compressor	Twin-rotary Mitsubishi DC inverter									
Heat exchanger	Spiral titanium tube in PVC									
Casing	ABS Casing									
Power supply	230V/1 Ph/50Hz								400V/3 Ph/50Hz	
Rated input power at air 15°C (kW)	0.13~1.1	0.17~1.2	0.19~1.5	0.22~1.73	0.27~2.2	0.3~2.6	0.38~3.3	0.57~3.8	0.53~3.9	0.62~5.2
Rated input current at air 15°C (A)	0.56~4.78	0.74~5.2	0.83~6.5	0.96~7.52	1.17~9.6	1.3~11.3	1.65~14.3	2.48~16.5	0.76~5.6	0.89~7.4
Max input current (A)	6.5	8.0	9.0	10.0	11.0	13.5	17.5	21.0	7.0	9.5
Circuit breaker (A)	8.0	10.5	11.0	12.0	13.5	16.0	21.0	25.0	9.0	12.0
Power cord (mm^2)	3×1.5	3×1.5	3×2.5	3×2.5	3×2.5	3×2.5	3×4	3×6	5x2.5	5x2.5
Advised water flux (m^3/h)	2~4	2~4	3~4	4~6	5~7	6.5~8.5	8~10	10~12	10~12	12~18
Water pipe in-out size (mm)	50									
Net dimension LxWxH (mm)	961×340×658	961×340×658	961×340×658	961×340×658	961×340×658	961×420×658	961×420×758	1092×420×958	1092×420×958	1161×530×958
Net Weight (kg)	42	45	49	50	52	63	68	90	93	120
Qty per 20'FT / 40'HQ (sets)	90/198	90/198	90/198	90/198	90/198	78/165	52/165	44/100	44/100	34/72

* The values indicated are valid under ideal conditions: Pool is well covered, filtration system running at least 15 hours a day.
* Above data is subject to modification without notice.

CE

R410A

MODEL	ESPAI06	ESPAI08	ESPAI10	ESPAI13	ESPAI15	ESPAI17	ESPAI21	ESPAI28	ESPAI28T	ESPAI35T
Advised pool volume (m^3)	15~30	20~40	25~45	30~55	35~65	40~75	50~95	65~120	65~120	90~160
Operating air temperature (°C)	-7~43									
Performance Condition: Air 26°C / Water 26°C / Humidity 80%										
Heating capacity (kW)	6.5	8.0	9.8	12.0	13.3	17.3	21.0	27.3	27.0	35.2
COP	15.8~7.4	14.7~7.0	15.3~6.9	14.8~5.7	15.4~6.4	15.5~5.9	15.2~5.7	15.3~6.2	15.2~6.2	15.5~5.5
COP at 50% capacity	11.3	10.6	10.7	10.3	10.6	10.8	10.5	11.0	11.0	10.6
Performance Condition: Air 15°C / Water 26°C / Humidity 70%										
Heating capacity (kW)	4.8	5.8	6.8	8.0	9.4	11.4	14.3	18.0	18.0	24.0
COP	8.1~4.8	7.3~4.8	7.7~4.6	7.4~4.3	7.8~4.4	7.8~4.3	7.7~4.2	8.1~4.6	7.9~4.5	8.0~4.5
COP at 50% capacity	7.0	6.5	6.6	6.2	6.5	6.3	6.2	6.7	6.7	7.0
Sound pressure at 1m dB(A)	37.8~47.2	38.8~48.2	38.6~49.9	42.1~50.7	41.3~54.0	43.1~53.8	40.9~54.2			
Sound pressure of 50% capacity at 1m dB(A)	40.1	41.4	43.3	45.7	46	46.5	46.4	43.5~54.9	43.5~54.9	42.6~54.7
Sound pressure at 10m dB(A)	17.8~27.2	18.8~28.2	18.6~29.9	22.1~30.7	21.3~34.0	23.1~33.8	20.9~34.2	48.4	48.4	45.8
Compressor	Twin-rotary Mitsubishi DC inverter							23.5~34.9	23.5~34.9	22.6~34.7
Heat exchanger	Spiral titanium tube in PVC									
Casing	ABS Casing									
Power supply	230V/1 Ph/50Hz								400V/3 Ph/50Hz	
Rated input power at air 15°C (kW)	0.12~0.94	0.16~1.2	0.21~1.4	0.24~1.8	0.27~2.1	0.3~2.6	0.36~3.3	0.53~3.8	0.53~3.9	0.63~5.15
Rated input current at air 15°C (A)	0.52~4.1	0.7~5.2	0.91~6.1	1.04~7.8	1.17~9.1	1.3~11.3	1.57~14.3	2.3~16.5	0.76~5.6	0.91~7.4
Max input current (A)	6.5	8.0	9.0	10.0	11.0	13.5	17.5	21.0	7.0	9.5
Circuit breaker (A)	8	10.5	11.0	12.0	13.0	16.0	21.0	25.0	9.0	12.0
Power cord (mm^2)	3×1.5	3×1.5	3×2.5	3×2.5	3×2.5	3×2.5	3×4	3×6	5×2.5	5×2.5
Advised water flux (m^3/h)	2~4	2~4	3~4	4~6	5~7	6.5~8.5	8~10	10~12	10~12	12~18
Water pipe in-out size (mm)	50									
Net dimension LxWxH (mm)	961×340×658	961×340×658	961×340×658	961×340×658	961×340×658	961×420×658	961×420×758	1092×420×958	1092×420×958	1161×530×958
Net Weight (kg)	43	45	49	50	52	63	68	90	93	117
Qty per 20'FT / 40'HQ (sets)	90/198	90/198	90/198	90/198	90/198	78/165	52/165	44/100	44/100	34/72

* The values indicated are valid under ideal conditions: Pool is well covered, filtration system running at least 15 hours a day.
* Above data is subject to modification without notice.

CE

EarthSaveProducts
Renewable Energy Solutions

ESP Aqua-inverter®

10 TIMES QUIETER AVERAGE 46 dB(A) at 1m

DOUBLE ENERGY SAVING AVERAGE COP 11

(Air 26°C/ Water 26°C/ Humidity 80%)

R32 ECO

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EarthSaveProducts
Renewable Energy Solutions

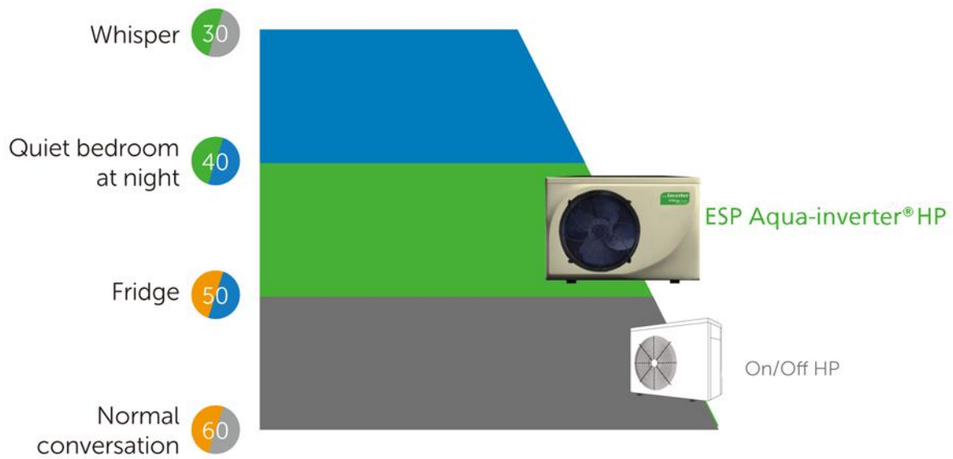
UNIQUE FULL-INVERTER® TECHNOLOGY

ESP Aqua-inverter® HP is powered by Full-inverter® Technology. It adopts variable speed compressor & fan motor which adjusts the compressor speed hertz by hertz and fan speed round by round. The low-speed running philosophy of ESP Aqua-inverter® can benefit the customers with higher COP and lower sound pressure.

1 10 Times Quieter

-AVERAGE sound pressure 46 dB(A) at 1 m

When maintaining the desired pool temperature at 50% capacity, the AVERAGE sound pressure of an ESP Aqua-inverter® HP is 46 dB(A) at 1m, compared with sound pressure 56-60 dB(A) of an On/Off HP. It brings you 10 times quieter swimming environment.

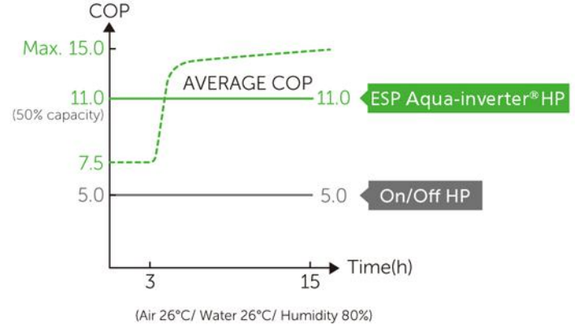


2 Double Energy Saving

-AVERAGE COP 11 at 50% capacity, Max. COP 15

When maintaining the desired pool temperature at 50% capacity, the AVERAGE COP of an ESP Aqua-inverter® is 11, whilst the COP of an On/Off HP is around 5, so it is doubly energy saving.

◆ COP in 15 hours' heating per day
(when maintaining pool temperature)



(Air 26°C/ Water 26°C/ Humidity 80%)

◆ Power consumption in 15 hours' heating per day
(eg: 17.3kW at Air 26°C/Water 26°C/Humidity 80%)