

Crystalclear Enterprises
****Heat Pump** Price list and Spec's**

Prices are: - **Inc. VAT @ Prevailing rate and shipping for England Mainland ONLY. Shipping (one fee per order not per unit) Extra shipping for Scotland, Scottish Islands & Highlands.**

****Please supply contact telephone number so delivery can be arranged with courier otherwise shipment cannot commence****

Unit Model	Unit	35HS-A	50HS-A	85HS-A	100HS-A	130HS-A	160HS-A	210HS-A? Single Phase?	210HS-A	250HS-A	420HS-B	520HS-B
	Btu	13000	18800	29000	36000	46000	58000	73700	73700	90000	140000	175000
*Heating Capacity (air 24°C, water 27°C)	kW	3.6	5.5	8.5	10.5	13	17.5	21	21.5	25.5	42	52
*COP (air 24°C, water 27°C)	W/W	5.2	5.4	5	5.3	5	5.2	5	5	5	4.8	4.8
*Heating Capacity (air 15°C, water 27°C)	kW	2.8	4.3	6.8	8.5	10.2	14.2	17	17.3	21	34	43
*COP (air 15°C, water 27°C)	W/W	4.6	4.6	4.5	4.6	4.5	4.6	4.5	4.6	4.6	4.3	4.3
*Heating Capacity (air 8°C, water 27°C)	kW	2.2	3.4	5.8	7	8.3	12	14	14.2	17.2	27	35
*COP (air 8°C, water 27°C)	W/W	3.8	3.7	3.6	3.7	3.5	3.6	3.5	3.6	3.6	3.2	3.2
*COP (air 0°C, water 27°C)	W/W	Approx 2	Approx 2	Approx 2	Approx 2	Approx 2	Approx 2	Approx 2	Approx 2	Approx 2	Approx 2	Approx 2
*Cooling Capacity	kW	2.8	4.1	6.8	8.2	10	14	16	17	20	34	42
EER (refrigeration energy efficiency ratio)	W/W	4	3.9	4	4	4	4	4	4	4	3.8	3.8
Power Input	kW	0.7	1	1.7	2	2.5	3.4	4.2	4.2	5.1	9	11
Current	A	3.8	5.2	7.9	9.5	11	18	23	7	9	16*3	19*3
Power Supply	V/P/Hz	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50
Compressor Qty		1	1	1	1	1	1	1	1	1	2	2
Compressor Style		Rotary	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor brand		Panasonic	Panasonic	Panasonic	Panasonic	Toshiba	SANYO	SANYO	SANYO	SANYO	SANYO	SANYO
Heating Exchanger		Titanium in PVC										
Water Flow Volume	m3/h	2.8	3	3.5	4	4.5	6.5	8	8	9	16	18
Water Connection	mm	50	50	50	50	50	50	50mm/1.5"	50	50	63	63
Fan Quantity		1	1	1	1	1	1	1	2	2	2	2
Fan Input	W	70	70	85	100	120	200	200	200	250	200*2	250*2
Fan Rotate Speed	RPM	830	830	900	850	850	850	850	850	850	850	850
Fan Direction		Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Vertical	Vertical
Refrigerant		R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Refrigerant filling quantities	Grams	700	800	1400	1700	2100	2800	3800				
Noise	dB(A)	50	51	53	54	55	57	60	60	61	65	67
Net Unit Size (L/W/H)	mm	760x270x470	955x305x575	955x305x575	1005x305x610	1005x305x710	1180x430x800	1200x430x1000	1200x430x1000	1110x470x1250	1450x760x1080	1450x760x1280
Carton Size (L/W/H)	mm	895x360x580	1055x405x575	1055x405x575	1140x405x640	1140x405x740	1280x500x850	1315x500x1030	1315x500x1030	1200x500x1300	1580x840x1210	1580x840x1410
Net/Gross Weight	kg	34/38	51/54	54/57	63/67	74/78	90/98	125/135	125/135	130/140	250/275	260/290
cabinet		galvanized metal painting										
Water flow switch		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Lowpressure protection system:		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Highpressure protection system:		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Automatic defrost system:		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Advised pool volume Based on ambient air Temp of @24 (with insulated pool cover)	m3	0-20	20-30	30-50	40-60	50-70	70-90	80-110	80-110	100-130	140-180	180-230
*Advised Maximum pool volume @15 (with insulated pool cover)	m3	15	25	40	50	60	80	100	100	120	180	220
*heating time (Air 15)	h	75	81	82	82	82	79	81	81	80	74	71
R.R.P.	£	550	655	865	1075	1285	1915	2230	2230	2545	4150	4875

- 1) Ambient Air Temp:- 24 degree; Water Inlet Temp:- 27 degree; COP: 5.4
 - 2) Ambient Air Temp:- 15 degree; Water Inlet Temp:- 27 degree; COP: 4.6
 - 3) Ambient Air Temp:- 8 degree; Water Inlet Temp:- 27 degree; COP: 3.8
- The heating capacity also correspondingly reduces .

PARTS ONLY WARRANTY - TWO years warranty for the Titanium heat exchanger and ONE year for rest of machine.
 * Variable ratings and for indication purposes only. Can be altered by a number of variables such as environment and covers etc.



**** 3.5, 5.5 and 8.5Kw Heat Pumps now supplied ready for the European market with Euro 2 pin plug with U.K 3 pin adaptor**



Other accessories available

- Anti-Vibration Feet
- 5m ext for remote siting of "LCD"
- 50m ext for remote siting of "LCD"
- Spares