

# Another Dimension Ltd

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Pool heaters, **heat pumps** can be widely installed in any kind of places, swimming pool, sauna, hot water for homes...

- **Long operating life**  
Advanced stainless steel/titanium metal water heat exchanger
- **Economical and high-efficiency**  
Using water heat pump technology compared with other ordinary hot water equipment (for example, oil, gas, electric and so on), reduces operating costs by 65-80%.
- **Bright design, easy installation and replacement**  
Unit design separated for main model and water unit model, with water unit indoor, avoiding freezing in winter. It especially suits for cold climate. The unit is remarkable compact, with pump and flow switch inside.
- **Compressors**  
Compressor brand names are: HITACHI, SANYO or Copeland. Low sound rotary or scroll compressor, low noise fan, high quality pump, making quiet operation.
- **Advanced controlling**  
Smart computer control and LCD display controller make
- **Multi protection**  
Multi protections to protect from water temperature compressor exhaust pressure, compressor temperature, evaporator temperature and so on.

MODEL		VADM200	VADM300	VADM400	VADM500	VADM600 VADT600	VADM700 VADT700	VADM800 VADT800	VADT900
HEATING CAPACITY	BTU/H	13,000	22,000	29,000	34,000	47,000	64,000	85,000	102,000
	W	4,200	6,500	8,500	10,000	14,000	19,000	25,000	30,000
POWER INPUT	W	925	1300	1700	1900	2800	4000	5100	5900
EFFICIENCY	COP	4.2	5.08	5	5.17	5.08	5	5	5
STATED CURRENCY	A	4	6.8	10.5	11.7	14/5.8	18.9/7.7	22/10.7	14.7
POWER INPUT	V/Ph/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 QUANTITY		1	1	1	1	1	1	1	1
COMPRESSOR TYPE		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY/SCROLL	SCROLL	SCROLL	SCROLL
HEAT EXCHANGER	PVC HERMETIC WATER BARREL WITH SPIRAL SOFT TITANIUM PIPES INSIDE								
REFRIGERANT	R407C R410A								
BLOWER QUANTITY		1	1	1	1	1	1	1	1
FAN POWER INPUT	W	25	35	45	60	80	80	120	120
FAN ROTATE SPEED	RPM	850	1050	850	850	1050	850	850	850
BLOWER STYLE	UP-BLOW WITH INSTALLED HORIZONTAL								
NOISE LEVEL	dB (A)	43	45	47	47	47	51	56	58
WATER CONNECTION	mm	32	32	50	50	50	50	50	50
WATER FLOW	m <sup>3</sup> /h	=4.5	=4.5	=4.5	=7.5	=7.5	=10	=10	=10
WATER PRESSURE LOSS	kPa	10	10	10	12	12	12	12	12
PACKING DIMENSION	mm	530*570*760	530*570*810	580*620*860	625*665*860	625*665*910	670*710*1010	720*760*1110	720*760*1210
WEIGHT NET/ GROSS	Kg	45/60	55/70	61/81	71/91	72.5/93	106.5/125	108/135	113.5/140

If the above size changes, please take the objects as reference without further notice.

<b>Data based on:</b> Ambient temperature: 24c/19c Water temperature: 27 degrees Celcius COP: 4.5-5.2	<b>European condition:</b> Ambient temperature: 15c/11c Water temperature: 27 degrees Celcius COP: 3.5-4.0
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## How to Choose a Pool Heater pump Size

The chart below is an easy way to size a swimming pool heater. Simply determine the surface area square footage and the desired temperature. Then refer to the chart for the amount of BTUs required to heat up your swimming pool. For example: A 400 sf pool with a temperature of 20 degrees. The heater output per hour needs to be at least 223,700 BTUs to heat your swimming pool in 24-hours.

### POOL HEATER SIZING CHART: 24-hour Period

Pool Size (sf)	10 Degrees	15 Degrees	20 Degrees	25 Degrees	30 Degrees
200	55,900	83,800	111,840	139,800	167,760
300	83,880	125,820	127,700	209,700	251,640
400	111,650	167,775	223,700	279,625	335,550
500	139,810	209,715	279,620	349,525	419,430
600	167,770	251,655	335,540	419,435	503,310
700	195,720	293,595	391,460	489,325	587,190
800	223,690	335,535	447,380	559,225	671,070
900	251,650	377,475	503,300	629,125	754,950
1,000	279,610	419,415	559,220	699,025	838,830

To calculate the heat up time, use this formula: Pool Gallons X 8.33 (the weight of 1 gallon of water) X Temperature Rise = Output BTUs needed to achieve desired water temperature in 48-hours.

**POOL MAINTENANCE HEATER SIZING CHART: Outdoors, 3.5 mph wind**

Use this chart to maintain heat in normal conditions.

Pool Size (sf)	10 Degrees	15 Degrees	20 Degrees	25 Degrees	30 Degrees
200	21,000	31,500	42,000	52,500	63,000
300	31,500	47,300	73,000	78,800	94,500
400	42,000	63,000	84,000	105,000	126,000
500	52,500	78,800	105,000	131,000	157,000
600	63,000	94,500	126,000	157,000	189,000
700	73,400	110,000	147,000	184,000	220,000
800	84,000	126,000	168,000	210,000	252,000
900	94,500	142,000	189,000	236,000	284,000
1,000	105,000	157,000	210,000	263,000	315,000

Swimming pool heaters are available in Split or Monobloc with R407 or R410A gas



24 hours digital swimming pool heat pump control panel