



美國 AquaCal 熱泵

空氣對水熱泵系列



恆信環保(能源)工程有限公司  
Ener-con Engineering Ltd.



# BRIEF INTRODUCTION

美國AquaCal熱泵，已有近四十年歷史，在不斷變革更新中令產品品質達到具高度可靠性，外型堅實美觀，效益盡善盡美，用途廣泛，為泳池及養殖業水池恆溫設備中最佳之選。

恒信環保(能源)工程有限公司(Ener-con Eng.ltd)為美國AquaCal熱泵授權經銷商，我們具有多年熱泵熱水系統之設計、施工經驗，並具有優秀的售後服務技術團隊，口碑甚佳。

熱泵是一種安全環保，高效節能的設備，用在游泳池其節能效益(COP)可高達4-6，換言之花一元錢電力可收到6元錢的熱力，真不愧為21世紀的熱水革命。



## INTERNATIONAL WARRANTY

AquaCal heat pumps are warranted to the owner to be free of material or workmanship failures for a period of two (2) years, parts only. The compressor is warranted for a full five (5) years, parts only. The titanium tube portion of the condenser carries a Lifetime warranty against failure due to chemical corrosion. All other components parts of the titanium condenser are covered for a period of two (2) years.

The above coverage, starts from the date of purchase, and applies only if the installation and operating instructions, applicable to the model purchased, are expressly and completely followed. These instructions are furnished with the unit, and are also available by writing to, or faxing AquaCal Inc. (See information below)

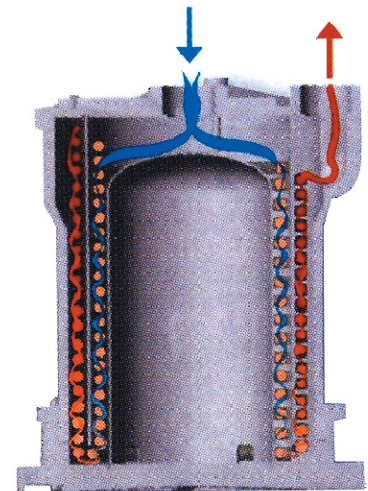
The liability of AquaCal Inc. shall not exceed the repair or the replacement of the defective parts, under the two (2) year limited warranty, and shall not include transportation to or from the factory, consequential, or incidental damages, or labor.

This warranty does not include the repair of damage, due to excessive chemicals in the pool or spa water, damage to any internal piping, or components in freezing conditions, negligence, abuse, or Force Majeure. There are no implied warranties of merchantability or fitness for a particular purpose that apply to this product.

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[www.teamhorner.com](http://www.teamhorner.com) / e-mail: [AquaCal@teamhorner.com](mailto:AquaCal@teamhorner.com)

03/06

- Manufacturing since 1981
- Patented thermolink®
- Titanium heat exchanger
- Scroll compressor
- Whisper quiet fan
- Dual thermostats
- Offset plumbing



thermoLINK®



## 史丹福泳校指定使用熱泵品牌



## 裘錦秋中學 (葵涌) 泳池 & 熱泵設備



史丹福會

景嶺書院

培僑中學

韓國國際學校

## 恆溫養殖池案例



石崗魚苗場熱泵設備 & 養殖缸

In addition to all standard HeatWave SuperQuiet™ features, the IceBreaker can also cool your pool


**ICEBREAKER FEATURES**



- Extends swimming season longer than any other heat pump
- Continues to heat in freezing temperatures to minimize heat loss
- Shortens heat recovery time
- Cools water if needed in the hot summer months
- Set to heat, cool or autotemp

**熱泵特點**

- 此熱泵可以全天候運作，較其他熱泵更優勝
- 當溫度降到冰點以下，仍保持發熱狀態
- 夏季可冷卻過熱池水
- 可設定冷、熱及自動恆溫

	SQ121R	SQ121R	SQ156R
Efficiency			
KW Output	27.0	27.0	32.2
BTU Output	92,000	92,000	110,000
Coefficient of Performance	6.3	6.3	6.4
KW input	4.3	4.3	5.3
Electrical			
Voltage/Hz/Phase	200-240/50/1	380-420/60/3	380-420/50/3
Maximum Fuse Size	60	20	25
Minimum Circuit Ampacity	37.9	13.8	15.8
Refrigerant	R410A	R410A	R410A
Water Flow			
Minimum/Maximum (m3h)	4.5/15.9	4.5/15.9	4.5/15.9
Minimum/Maximum (gpm)	20/70	20/70	20/70
Physical			
Shipping Weight ( kg)	177	177	188
Shipping Weighty (lbs)	390	390	415
Size			
Length x Width x Height (cm)	86 x 107 x 99	86 x 107 x 99	86 x 109 x 109
Length x Width x Height (in)	34" x 42" x 39"	34" x 42" x 39"	34" x 42" x 43"
Sound Level Decibels of 10 ft.	55db	55db	55db
	50 Hz units		

- use no fossll fuels
- Environmentally friendly
- Eliminate noxious gas emissions
- Programmable thermostats for stable temperature control
- Save energy by transferring heat from the air rather than creating heat



# HEAT ONLY UNITS

HEATWAVE  SUPERQUIET®

A heat pump uses nature's, "free heat" from the air to heat your pool water. It applies the same principle used in refrigerators and air conditioners with technology adapted for pools and spas.

## FEATURES:


- **thermoAIR** Heat Exchanger
- Microprocessor controlled with digital display
- Scroll compressor
- Corrosion proof cabinet
- Advanced SUPERQUIET technology

## 熱泵特點

- 鈦合金熱交換器，可更耐用
- 微型控制及數字顯示
- 高效益渦旋壓縮機
- 外殼耐腐蝕質料，保持亮麗
- 先進超靜音技術
- **use no fossil fuels**
- **Reduce noise pollution**
- **Environmentally friendly**
- **Minimize your carbon footprint**
- **Eliminate noxious gas emissions**
- **Meet all ARI efficiency standards**
- **Programmable thermostats for stable temperature control**
- **Save energy by transferring heat from the air rather than creating heat**

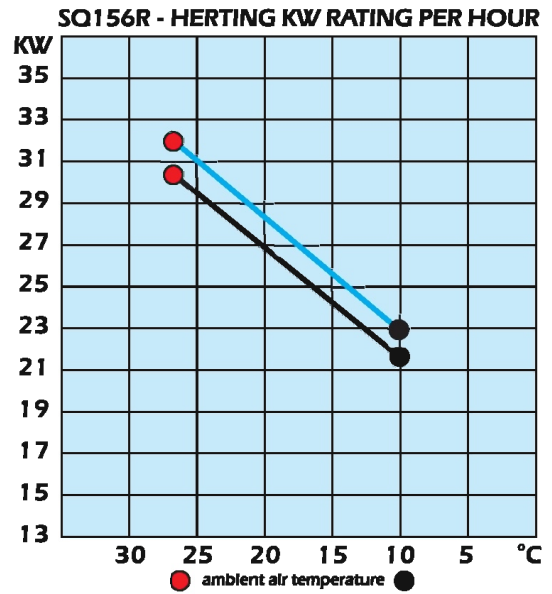
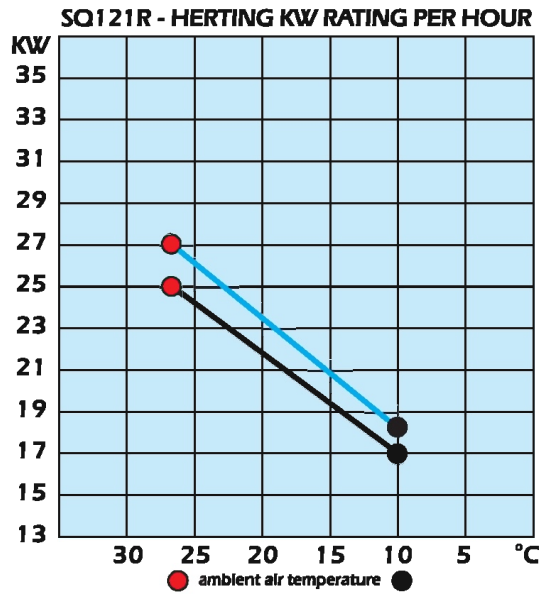


SQ110  
SQ120  
SQ135  
SQ155

	SQ120	SQ120	SQ155
Efficiency			
KW Output	30.2	30.2	33.1
BTU Output	103,000	103,000	113,000
Coefficient of Performance	5.8	5.8	6.4
KW input	5.2	5.2	5.2
Electrical			
Voltage/Hz/Phase	220/50/1	380-420/50/3	380-420/50/3
Maximum Fuse Size	60	20	25
Minimum Circuit Ampacity	37.9	13.8	15.8
Refrigerant	R410A	R410A	R410A
Water Flow			
Minimum/Maximum (m3h)	6.8/15.9	6.8/15.9	6.8/15.9
Minimum/Maximum (gpm)	30/70	30/70	30/70
Physical			
Shipping Weight (kg)	152	152	159
Shipping Weight (lbs)	335	335	350
Size			
Length x Width x Height (cm)	90 x 85.5 x 104.1	90 x 85.5 x 104.1	90 x 85.5 x 114.3
Length x Width x Height (in)	37" x 33.8" x 41"	37" x 33.8" x 41"	37" x 33.8" x 45"
Sound Level Decibels of 10 ft.	55db	55db	57db
	50 Hz units		

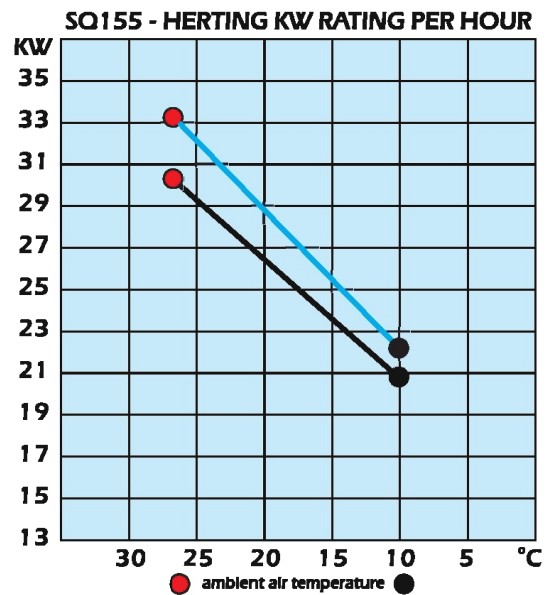
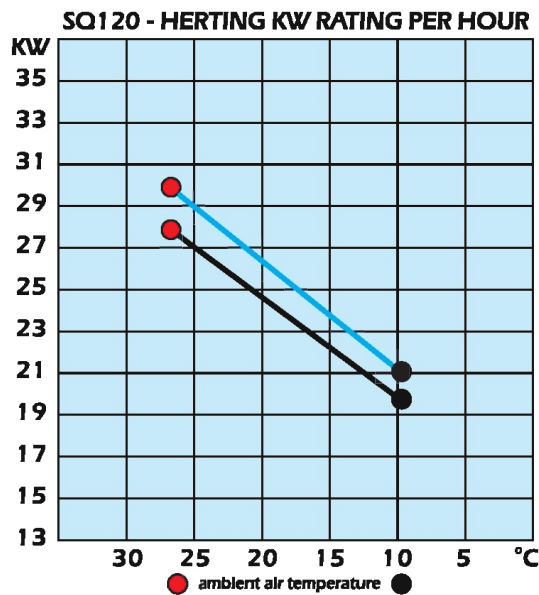
Heat & Cool Unit

IceBreaker - 50Hz



Heat Only Unit

Heat Only - 50Hz



63% RELATIVE HUMIDITY / 26.7°C WATER TEMPERATURE-  
RATED IN ACCORDANCE WITH ARI STADARD 1160

80% RELATIVE HUMIDITY / 26.7°C WATER TEMPERATURE-  
RATINGS OUTSIDE THE SCOPE OF ARI STADARD 1160

● HIGH TEST PIONT TEMPERATURE

● LOW TEST PIONT TEMPERATURE

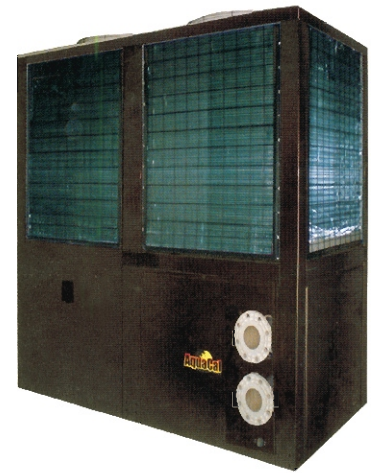
Our Commercial units bring the warmth of the Tropics or the cool of the Mountains to satisfy larger swimming pool demands by utilizing the natural warmth from the air.

## FEATURES:

- Whisper- Quiet fan motor
- Cools pool water in summer
- Super efficient SCROLL compressor
- Electronic control & monitoring system
- Extends heating season in any climate
- Electrostatic painted cabinet
- Continues to heat when temperatures drop below freezing
- Easy installation
- Titanium heat exchanger

## 熱泵特點

- 超低音風扇馬達
- 夏季可冷卻過熱池水
- 超高效渦旋壓縮機
- 壓縮機電子控制與監測
- 此熱泵可全天候運作，較其他熱泵更優勝
- 機殼靜電塗層
- 當溫度下降到冰點以下仍保持發熱狀態
- 鈦合金熱交換器



	WBR90	WBR135	WBR158
Efficiency			
KW Output	90	135	158
BTU Output	306,000	459,000	540,000
Coefficient of Performance	5.1	5	5
KW input	17.5	26.8	32.9
Electrical			
Voltage/Hz/Phase	380-415/50/3	380-415/50/3	380-415/50/3
Maximum Fuse Size	150	220	300
Refrigerant	R407C	R407C	R407C
Water Flow			
Minimum/Maximum (m3h)	7.7/12.2	12.2/14.4	13.3/15.5
Minimum/Maximum (gpm)	35/55	55/65	60/70
Physical			
Shipping Weight ( kg)	570	920	1358
Shipping Weight (lbs)	1255	2028	2994
Size			
Length x Width x Height (mm)	760 x 2150 x 1330	900 x 2000 x 1920	1200 x 2200 x 2050
Length x Width x Height (in)	30" x 84.5" x 52.3"	35.5" x 78.8" x 75.6"	47.3" x 87.6" x 80.7"
Sound Level Decibels of 10 ft.	62db	62db	65db
	50 Hz units		



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**Ener-con Engineering Ltd.**

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