



**Pool too cold to swim? TURN UP THE EVOHEAT**

**CS & CS-GEN2**  
SWIMMING POOL & SPA HEAT PUMP  
COMMERCIAL SERIES







**COMMERCIAL**

# CS & CS-GEN2

COMMERCIAL SWIMMING POOL & SPA HEATERS

**CLASS LEADING COMMERCIAL POOL HEAT PUMP**



## MOST ECONOMICAL YEAR ROUND POOL HEATING SYSTEM AVAILABLE

The EVO CS & CS-GEN2 commercial heat pump is the most efficient way to heat a commercial pool regardless of size or location. EvoHeat offers 7 different CS heaters ranging from 38kW up to 200kW so choosing the heater that best suits your needs is simple! Our commercial heat pumps are ideal for sports and leisure centres, aquaculture, agriculture, water parks, hotels, resorts, apartments and office builds – there is no job in the field too big for the EVO CS & CS-GEN2 Series!

A tried and trusted commercial pool heater that's able to save businesses tens of thousands of dollars a year, you can expect innovative and intelligent commercial pool heating designed with forward thinking technology and high-end performance. EVO C.O.P.'s are backed up by verified test reports in audited test laboratories, and we back our equipment to outperform the competition every time!

## ENGINEERED TO MEET THE DEMANDS OF THE COMMERCIAL POOL INDUSTRY



**INTELLIGENT  
CONTROLLER**



### KEY FEATURES

- » Extremely energy efficient with a C.O.P. of up to 5.79
- » Available in 7 models, 38kW to 200kW
- » Heating and cooling capability
- » Intelligent digital controller and patented microprocessor system
- » Built in operational timer
- » Exclusive tariff + Timer System - standard for CS-GEN2 series
- » 304 stainless steel chassis and cabinet
- » Dual defrost systems - reverse cycle and thermotec element
- » Dual speed fans
- » Electronic expansion valve (EEV2)
- » V shaped evaporator
- » Flow switch and high pressure cut out to ensure additional safety and protection
- » Eco-friendly and safe R410A refrigerant
- » Vertical airflow
- » Guaranteed stable performance from -7°C
- » Ideal to work with solar PV panels



**AVAILABLE IN 38kW to 200kW MODELS**

**EXCEPTIONAL PERFORMANCE & LOW OPERATING COSTS** - Evo CS & CS-GEN-2 series delivers pool heating with exceptional performance, low operating costs & a C.O.P. as high as 5.79. Our Evo commercial range has a C.O.P. that far exceed other commercial brands. Thanks to our EEV2 system, the Evo CS & CS-GEN2 series is able to provide maximum performance in varying real world temperature changes that a TX valve simply cannot match.

**PRECISION BUILT INTELLIGENT DIGITAL CONTROLLER** - Featuring an easy to use, intelligent digital controller that will allow you to maintain your pool temperature to within half a degree of the set point while maintaining optimum heater operating performance. This controller enables you to predefine different temperatures and control parameters under all conditions ensuring the lowest operation costs.

**HEATING & COOLING MODES** - the CS & CS-GEN2 series is equipped to automatically heat or cool your pool water based on your set temperature - so you can be sure your pool is always at your desired temperature!

**DUAL SPEED FANS** - the dual speed fans allow your heat pump to operate on a lower RPM with even further reduced noise levels based on the ambient temperature. The CS-GEN2 series can also operate on a timer basis.

**304 STAINLESS STEEL CABINET** - the 304 stainless steel cabinet will ensure long term corrosion resistance.

**DUAL DEFROST TECHNOLOGY** - our Thermotec Element Defrost technology and auto defrost system ensures your heat pump is defrosting less and heating more often, maximizing the heating capacity in colder weather when its needed the most.

**MONOBLOC DESIGN AND COMPACT PIPING SYSTEM** - Evo CS & CS-GEN2 series heat pumps are designed with the smallest footprint and size in mind and can be fitted to heat even the largest indoor or outdoor pools.

**DESIGNED FOR VERY HIGH FLOW RATES AND LOW PRESSURE DROPS** - designed for very high flow rates and low pressure drops, the Evo's CS & CS-GEN2 series can be directly connected to the filtration circuit and pump. This series have much lower resistance which means lower pumping costs even if connected to a pumped side stream configuration.

**V SHAPE EVAPORATOR** - the V shape evaporator is another space saving innovation which also assists with defrost performance and keeping the coil cleaner. As the fins are angled, water does not pool on the top surface as easily leading to fouling. The fin angle also provides a small efficiency boost as the air direction change is less than 90 degrees thus requiring less work from the fans to pull the air through the system.

**LATEST CORROSION PROTECTION TECHNOLOGY** - the bluetec hydrophilic coating on the condenser fins is the latest technology in corrosion protection allowing your heat pump to maintain its high efficiency for many years to come.

**TITANIUM HEAT EXCHANGER** - the titanium thread heat exchanger ensures maximum heat transfer with the ultimate corrosion resistance, improving the heat transfer efficiency by up to 30% compared to standard heat exchangers.

**ELECTRONIC EXPANSION VALVE 2 TECHNOLOGY** - Electronic Expansion Valve 2 Technology is the absolute latest and the best possible refrigeration control system available in the market today. This results in higher C.O.P. and improved efficiency of up to 20% compared to other commercial heater brands. **LOWER RUNNING TIMES = LOWER COSTS AND EXTENDED UNIT LIFE**



## AVAILABLE ON CS-GEN2 SERIES\*

### EXCLUSIVE TARIFF + TIMER SYSTEM\*

The exclusive tariff + timer system allows you to program 4 time zones, and select 2 of these time zones each day. This allows you to run the heater during off peak electricity periods or during the day when its warmer and more efficient to run.

### EXCLUSIVE THERMAL OVERLOAD RELAYS\*

Our exclusive thermal overload relays are an added layer of protection for the main circuit, they offer reliable protection for motors in the event of overload or phase failure and **EXCEEDS AUSTRALIAN ELECTRICAL STANDARDS**

MODEL	EVO CS38	EVO CS47	EVO CS57	CS95-GEN2	CS120-GEN2	CS145-GEN2	CS200-GEN2
Heat output at 24°C air/26°C water (kW)	38	47	57	95	120	145	190
Heat output at 15°C air/26°C water (kW)	31.1	39.7	48.1	72.5	103	120	160
Cooling output at 35 °C air/ 30°C water (kW)	21.6	28.2	36	64	80	97	119
<b>C.O.P. at 24° C air</b>	<b>5.3</b>	<b>5.05</b>	<b>5.14</b>	<b>5.49</b>	<b>5.7</b>	<b>5.69</b>	<b>5.79</b>
Power input at 24 deg air (kW)	7.16	9.3	11.1	17.3	21	25.5	32.8
Power supply	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
*Max running current AMPS per phase	13.8	19.12	25.1	40	46	60	80.1
Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A
PVC water connection (mm)	50	50	50	DN 110	DN 110	DN 110	DN 110
Water flow rate (L/min)	200	250	325	483	583	1033	1000
Noise dB(A) at 1M	61	61	61	61	62	63	67
Unit dimensions L/W/H (mm)	1490/735/1200	1490/735/1200	1490/735/1200	2170/1070/1920	2175/1070/2030	2175/1070/2030	2180/1070/2060
Weight packed/unpacked (kg)	270/252	300/254	300/260	679/632	694/648	709/664	940/908

\*Running current max: 43°C ambient heat /29°C in cooling mode. The data above is based on the EVO heat pump only, it does not include auxiliary devices. Product specification information provided above is correct at the date of printing, this data may change without notice. Please speak with an EvoHeat Specialist for the most current product specifications.



## EVO CS & CS-GEN2 WARRANTY

For further peace of mind the Evo CS & CS-GEN2 heat pump comes with an industry leading warranty:

- 25 years on titanium heat exchanger
- 5 years on compressor
- 2 years on parts
- 1 year on labour



WINNER OF THE



## THE SPECIALISTS IN POOL AND SPA HEATING

EvoHeat are 100% Australian owned and operated company and are the industry specialists in pool and spa heat pumps. For over a decade we've been building a solid reputation for pool and spa heating products that are renowned for reducing your energy bills and delivering reliability.

Our exclusive pool heaters are durable and utilise cutting edge components sourced from leading brand manufacturers around the world. EvoHeat only specialise in heat pump technology and are constantly developing and improving our heating applications to ensure we offer you the best in the market.

### Evo Industries Australia

Head Office  
18 Hasp St, Seventeen Mile Rocks  
QLD 4073  
Ph: 1300 859 933

### Evo Industries Singapore

11 Beach Road  
#03-01 Crasco Building  
Singapore 189675  
Ph: +65 3157 9184

[info@evoheat.com.au](mailto:info@evoheat.com.au) | [www.evoheat.com.au](http://www.evoheat.com.au)

