In Chinese culture
the lotus symbolises perfection,
purity, long life and honour.

For Lailey and Coates,
the lotus has become synonymous
for everything
we want to achieve
in business.

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HEAT PUMPS

THE SMART CHOICE FOR
POOL AND HOME HEATING SOLUTIONS

LAILEY&COATES
WE BUILD THE BEST

CONTENTS

1 ABOUT US

INTRODUCTION & BACKGROUND

Lailey and Coates International Limited is a privately owned British company located in Gangkou, Zhongshan, one of the industrial hubs of the Chinese Economy. Derek Coates and Simon Lailey founded Lailey and Coates UK Ltd. in 2010. It began life as a business dedicated to developing first class Heat Pumps, imported from China into Britain.

Simon, a first rate engineer, spent over four years visiting China for months at a time, working closely with a number of Chinese suppliers to produce leading "next-generation"products. However as so often happens, once the designs were developed and agreed in China, subsequent deliveries didn't live up to the Quality Control standards that the company required to confidently invest and develop the business into a global brand. So after facing the frequent and difficult challenges that many importers encounter when buying from abroad, the company decided to open its own factory and overcome these challenges.

We have hand-picked our loyal team of fully qualified Engineers who are all driven by the Lailey and Coates culture. Aculture of passion, pride and determination - to achieve our vision of exceptional British quality.
"Our passionate team is fully committed to forming enduring and mutually rewarding relationships with our customers. We will achieve this by working closely with our business partners to identify and provide you complete energy saving solutions.- May I personally invite you to visit our new factory and meet the team. We assure you of a warm welcome and a confidence building experience."

Simon Lailey - CEO

THE L&C INTERNATIONAL MANAGEMENT TEAM

Simon Lailey, one of the two founding partners in Lailey and Coates, is a highly experienced British Heat Pump Engineer. Having worked with Chinese factories for over 10 years, Simon became aware of the potential quality problems that can occur when foreign buyers source low cost products from China. He is now a permanent resident in China at the new Lailey and Coates factory, leading the team in developing new products to precise customer requirements, whilst maintaining our consistent exacting British quality standards.

Derek Coates, is one of Britains most successful entrepreneurs with over 40 years experience in developing leading edge companies in health, nutrition,travel and tourism. His passion for global energy saving solutions is reflected in his personal investment and dedication to Lailey and Coates International. Derek is a frequent visitor to the factory sharing his knowledge of manufacturing, business development and quality control with the team.

THE BRAND PROMISE

To combine the highest levels of British Quality Control, engineering and ethical business practice,into producing world-class products-in our wholly owned British factory based in China. To supply leading customers worldwide,with tailor-made, bespoke solutions to their individual product and market needs at highly competitive prices that reflect our low cost China based operation. We have summarised this Brand Promise as: “Combining exacting British quality standards with efficient, low-cost Chinese production methods”

THE L&C GLOBAL VISION

To become the world's leading Total Energy Savings Solution supplier. This includes integrating and converting various energy forms into highly efficient customer focussed product solutions manufactured in China to exacting British Quality Controlled Standards.

RESEARCH AND DEVELOPMENT

Key to our R&D program is our “state of the art laboratory” specifically built to our own design parameters. TUV passed, it enables us to test all our products to EN14511:2013.

This sizeable investment means our R&D process is now totally “in house”and enables us to deliver our fully tested, exciting new products to L&C's exacting quality control standards, within the customers required time frame and to their precise specifications.

Our laboratory is fully temperature controlled to simulate any global weather conditions. We are therefore able to ensure suitability, reliability and stability of all our products for any specific requirement or climate.

All our research will be tailored to our customers needs and be product specific. All data will then be studied, collated and supplied to our customers.

KEY PRODUCTION LINE QUALITY CONTROL PROCESSES

On completion of all the above processes our units are run again and tested to maximum running temperatures and pressures. Once we are satisfied with their running performance they undergo a final leak test to ensure that the possibility of refrigerant loss is negated before shipment to our customers.

1 RAW MATERIALS

Our Purchase Control team are dedicated to sourcing only the very highest quality materials available.

2 WELDING

In our experience the importance of the welding process is often overlooked. We recognise the potential of future problems if this process is not carried out correctly. As such every weld is carried out using OFN.

3 VACUUM PROCESS

We use a 2 -stage vacuum process to ensure that all our units are prepared for refrigerant charging.

4 REFRIGERANT CHARGING

All our units are charged with refrigerant using a calibrated charging unit and leak detector. Once charged the units are leak tested again.

5 LEAK TESTING

All our units are leak tested three times during our QC process and we can detect leaks of just 1 gram/year.

6 ELECTRICAL SAFETY TESTING

Comprehensive testing includes, voltage, frequency, current and earth leakage.

PRODUCT PRESENTATION

Remarks: Due to various product model options or potential improvements, all data is subject to modification without prior notice. Please refer to the nameplate as the standard.

01

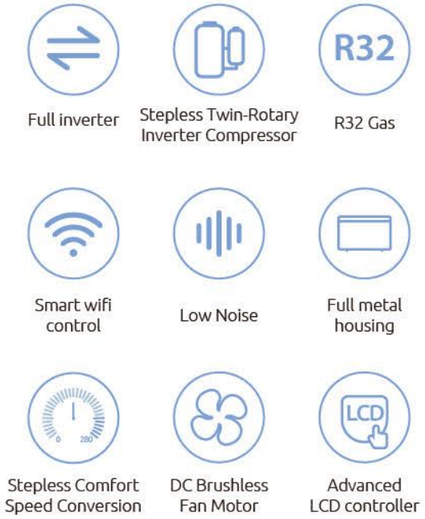
SWIMMING POOL HEAT PUMP SERIES

POOL HEAT PUMP INVERTER

SIDE DISCHARGE

KEY FEATURES

- Advanced inverter technology.
- Achieve a higher COP and maintain a comfortable pool temperature.
- Use DC fan: quieter and lower running cost.
- Use low GWP R32 refrigerant.
- Multiple mode selection to suit different applications: Boost, Smart, Silent.
- Unique innovative design with noise-absorbing structure and components.
- Spiral threaded anti-corrosive titanium heat exchanger increases the heat transfer area for improved efficiency.
- Microprocessor controlled with digital display for " Touch & Go " : No human attendance required.
- Thick galvanized and superior static coating cabinet or anti-UV ABS plastics providing stronger corrosion resistance.
- Comprehensive self-protections: safe to use.
- Self-diagnosis: displaying error code on the control panel.
- Plug and play installation and operation.
- Remote control with WIFI APP.
- Patented design.



CONTROLLER OPTIONS

COLOR OPTIONS

LOW NOISE

Average Sound Level is 45 dB(A) at 1 meter in front of the unit About 12dB(A) lower than conventional ON/OFF unit.

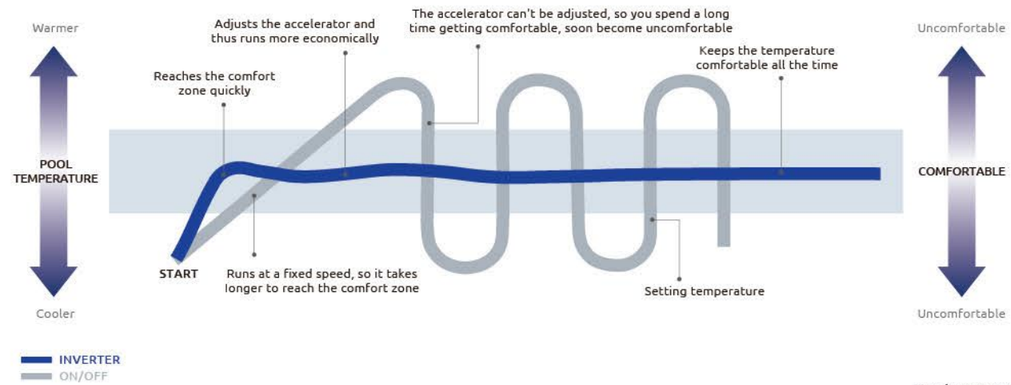
COP UP TO 18.5

R32 full inverter pool heat pump can reach a COP as high as 18.5 at Air 27°C/ Water 27°C/ Humid 80%.

TOUCH SCREEN

Unlike normal inverter pool heater, we have high-end controller with touch screen. Temperature and power consumption records makes users always be clear of the energy use situation.

INVERTER VS ON/OFF



TECHNICAL SPECIFICATIONS

Model		LCSP-BP50RC	LCSP-BP70RC	LCSP-BP90RC	LCSP-BP120RC	LCSP-BP180RC
Air 27°C / Water 27°C Humid.80%	Heating Capacity (kW)	9.03	12.02	15.25	19.34	27.28
	COP Range	6.30~17.50	6.55~18.02	7.32~18.50	7.38~18.50	7.01~16.22
Air 15°C / Water 26°C Humid.70%	Heating Capacity (kW)	5.94	7.54	10.85	14.11	19.71
	COP Range	5.10~8.20	5.17~8.2	5.20~8.50	5.27~8.55	5.02~8.01
Working Ambient Temperature	°C	-10 ~ 43				
Power supply		220~240V / 1Ph				
Max current	A	8.5	12.5	15.5	19.5	24
Refrigerant		R32				
Compressor type		Inverter				
Fan type		DC Inverter				
Remote WiFi / APP control		YES				
Unit net dimensions	L*W*H mm	760*377*544		870*418*653	1020*443*708	
Net weight	kg	36	39	48	62	65
Sound pressure dB(A) 10m		<29	<29	<29	<30	<30

FULL DC INVERTER

HIGH COP UP TO 18.5

at Air 27°C / Water 27°C / Humid 80%

TECHNICAL SPECIFICATIONS

Model		LCSP-BP250RC2	LCSP-BP330RC2	LCSP-BP250RC2S	LCSP-BP330RC2S
Air 27°C / Water 27°C Humid.80%	Heating Capacity (kW)	31.05	40.32	31.05	40.32
	COP Range	7.78~15.01	7.02~15.01	7.78~15.01	7.02~15.01
Air 15°C / Water 26°C Humid.70%	Heating Capacity (kW)	22.42	33.04	22.42	33.04
	COP Range	5.91~8.03	5.25~8.01	5.91~8.03	5.25~8.01
Working Ambient Temperature	°C	-10 ~ 43			
Power supply		220~240V / 1PH		380~415V / 3PH	
Max current	A	29.5	35	9.5	13.5
Refrigerant		R32			
Compressor type		Inverter			
Fan type		DC Inverter			
Remote WiFi / APP control		YES			
Unit net dimensions	L*W*H mm	1105*451*1262	1170*451*1389	1105*451*1262	1170*451*1389
Net weight	kg	119	138	119	131
Sound pressure dB(A) 10m		<45	<45	<45	<45

TECHNICAL SPECIFICATIONS

Model		LCSPM-BP50R	LCSPM-BP70R	LCSPM-BP90R	LCSPM-BP120R	LCSPM-BP180R
Air 27°C / Water 27°C Humid.80%	Capacity(kW)	9.03	12.02	15.25	19.21	27.28
	COP range	6.30~17.5	6.55~18.2	7.32~18.5	6.53~18.2	6.20~15.0
Air 15°C / Water 26°C Humid.70%	Capacity(kW)	5.94	7.54	10.85	13.61	19.71
	COP range	5.1~8.2	5.17~8.2	5.2~8.5	5.01~8.1	4.61~8.0
Working ambient temperature	°C	-10~43				
Power supply		220V / 1Ph				
Rated input power	kW	0.12~1.35	0.16~1.86	0.2~2.24	0.23~2.87	0.75~5.22
Rated input current	A	0.55~6.14	0.73~8.5	0.92~10.2	1.05~13.05	3.45~23.7
Maximum imput current	A	6.8	9.1	11.5	14.48	25.50
Refrigerant		R32				
Compressor type		Inverter				
Wifi connectivity		Yes				
Air flow		Horizontal				
Evaporator		Hydrophilic fin and copper tube				
Condenser		Spiral threaded Titanium in PVC				
Unit net dimensions	L*W*H mm	826*379*552		933*401*657	1125*470*707	
Net weight	kg	35	37	47	61	66
Sound pressure dB(A) 10m		< 29	< 29	< 29	< 30	< 30
Water proof level		IPX4				

POOL HEAT PUMP

TOP DISCHARGE

KEY FEATURES

- Vertical elegant patented design
- Intelligent control:No human attendance is required
- Heating&Cooling function
- Corrosion proof titanium heat exchanger-Long life span
- Strong ABS plastic cabinet
- Rotary/Scroll world brand compressor
- Waterproof display and control panel
- Flow switch protection
- High/low pressure switch protection
- Reverse cycle defrosting
- Wide working temperature range-Extend swimming seasons
- Self-diagnosis-Displaying error code on control panel
- Plug and play installation and operation
- Patented Design

heating and cooling

World brand compressor

R32 Gas

Smart wifi control

Low Noise

ABS plastic cabinet

intelligent defrosting

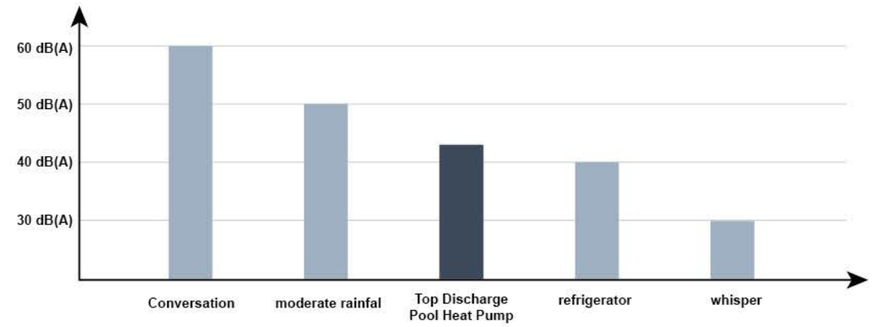
Patented Design

Operation protection

COLOR OPTIONS

LOW NOISE

A fully enclosed cabinet is specially designed for the compressor so that the running noise can be kept inside and the noise of the whole unit can maintain very low.



CUSTOMIZABLE APPEARANCE

In order to choose your most preferable appearance of the products, we provide customized appearances service . Meanwhile, 2 smart displays are available for option.

R32 FULL DC INVERTER

Model		LCSP-BP90R	LCSP-BP120R	LCSP-BP180R
Air 27°C / Water 27°C Humid.80%	Capacity(kW)	15.09	19.75	28.71
	COP range	6.70~18.2	6.83~18.5	6.2~16.7
Air 15°C / Water 26°C Humid.70%	Capacity(kW)	11.38	14.25	20.94
	COP range	4.88~8.9	5.02~9.12	4.8~8.5
Power supply			220V-240V/1Ph	
Rated input power	kW	0.2~2.24	0.23~2.87	0.75~5.22
Maximum imput current	A	11.5	14.48	25.50
Compressor type			Inverter	
Fan			DC inverter fan	
Wifi connectivity			Yes	
Water flow rate	m^3/m	5~7	7~9	10~12
Water connector size			1.5"female	
Sound pressure at 10m	dB(A)	21~35	23~35	24~36
Unit net dimensions(L*W*H)	mm	650*650*760	650*650*760	750*750*860
Net weight	kg	70	80	95

• TECHNICAL SPECIFICATIONS

Model		LCSPI-95R	LCSPI-120R	LCSPI-150R	LCSPI-170R	LCSPI-210R	LCSPI-300R
Ambient 27 °C Water 26°C in, 28 °C out	Capacity (kW)	10.5	13.8	16.9	19.7	21.5	30.3
	power input (kW)	1.48	1.69	2.05	2.46	2.78	3.65
	COP	7.1	8.17	8.24	8.01	7.73	8.3
Ambient 24 °C Water 26°C in, 28 °C out	Capacity (kW)	9.68	12.54	15.43	17.88	19.02	28.16
	power input (kW)	1.5	1.72	2.07	2.48	2.81	3.68
	COP	6.44	7.29	7.45	7.20	6.76	7.66
Ambient 15 °C Water 26°C in, 28 °C out	Capacity (kW)	7.66	10.32	11.71	14.23	14.84	22.62
	power input (kW)	1.53	1.78	2.08	2.49	2.82	3.69
	COP	5.02	5.79	5.64	5.71	5.26	6.13
Ambient 35 °C Water 29°C in, 27 °C out	Capacity (kW)	6.95	8.27	6.23	11.17	9.26	12.38
	power input (kW)	1.8	2.20	2.32	3.22	3.68	4.78
	EER	3.87	3.75	2.68	3.47	2.52	2.59
Running ambient temperature range		-10 °C ~ 43°C					
Power supply	V/Hz	220 - 240C~ / 50Hz					380 - 415C~ / 50Hz
Max power input	kW	2.7	3.01	3.50	4.60	5.82	7.30
Max current	A	10	14.40	16.60	22.10	25.30	11.20
Refrigerant		R32					
Net dimension (L*W*H)	mm	688*650*823				792*745*954	
Sound pressure (10m)	dB(A)	36				37	

ICE BATH TUBS

Chill Out or Heat Up: Discover Dual Benefits of
Our Ice Baths and Hot Tubs All in One Unit!!

LAILEY & COATES

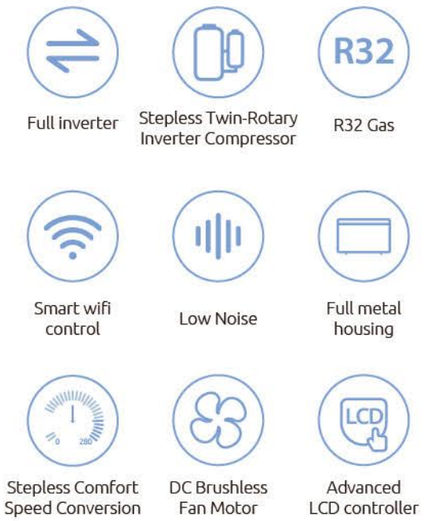
COLD PLUNGE CHILLER

Cool water temperature
down to 2°C

SPA HEAT PUMP
SPA/MINI ABOVE GROUND POOL

KEY FEATURES

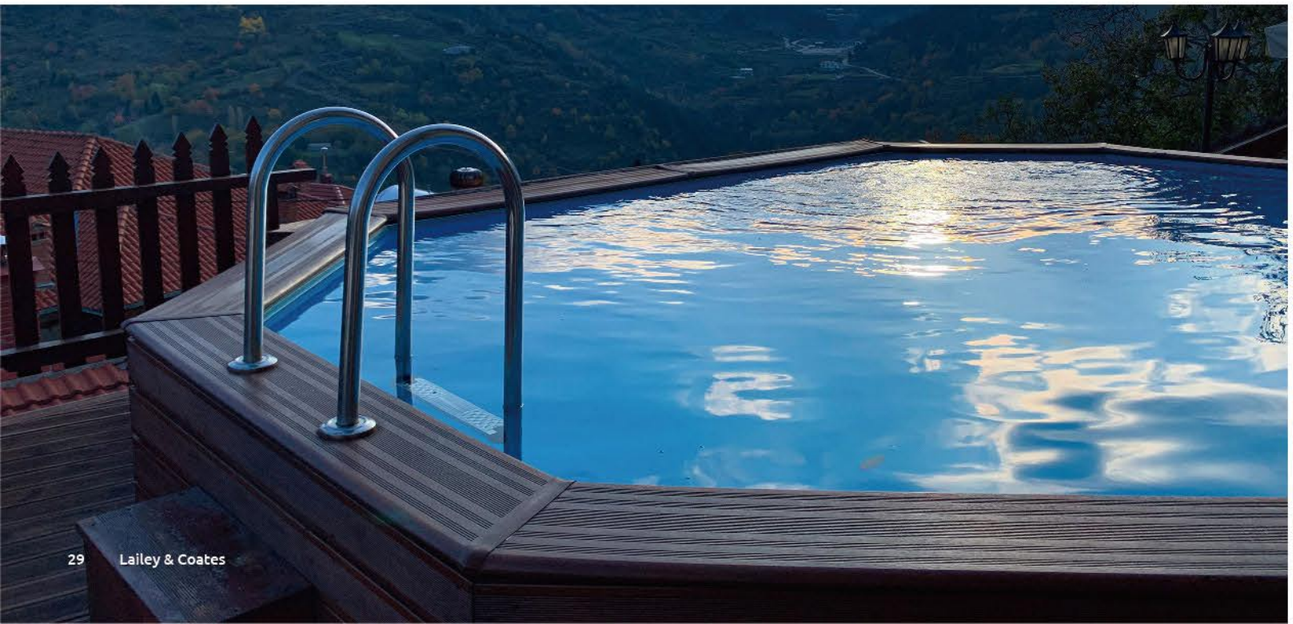
- Advanced inverter technology.
- Achieve a higher COP and maintain a comfortable pool temperature.
- Use DC fan: quieter and lower running cost.
- Use low GWP R32 refrigerant.
- Multiple mode selection to suit different applications: Boost, Smart, Silent.
- Unique innovative design with noise-absorbing structure and components.
- Spiral threaded anti-corrosive titanium heat exchanger increases the heat transfer area for improved efficiency.
- Microprocessor controlled with digital display for " Touch & Go " : No human attendance required.
- Thick galvanized and superior static coating cabinet or anti-UV ABS plastics providing stronger corrosion resistance.
- Comprehensive self-protections: safe to use.
- Self-diagnosis: displaying error code on the control panel.
- Plug and play installation and operation.
- Remote control with WIFI APP.
- Patented design.



Full inverter | Stepless Twin-Rotary Inverter Compressor | R32 Gas

Smart wifi control | Low Noise | Full metal housing

Stepless Comfort Speed Conversion | DC Brushless Fan Motor | Advanced LCD controller



SMART WIFI CONTROL

With smart APP control you can check or control anywhere.

R32 GAS

By making use of the renewable energy in the outside air, our pool heat pumps consume much less energy with low carbon emission, using environment friendly advanced refrigerant R32.

Model		LCSP-BP70RC-BT
Air 27°C/ Water 26°C/ Humid. 80%	capacity（kW)	7.95
	COP range	5.90~17.5
Air 15°C/ Water 26°C/ Humid. 70%	capacity（kW)	5.33
	COP range	5.02~8.20
Working ambient temperature	℃	-10~43
Power supply		220V / 1Ph
Maximum input current	A	8
Refrigerant		R32
Compressor type		Inverter
Wifi connectivity		Yes
Fan		DC inverter fan
Unit net dimensions	L*W*H mm	963*485*504
Net weight	kg	50
Sound pressure dB(A) 10m		30
Water temperature: 8~40 ℃		

MINI POOL HEAT PUMP

KEY FEATURES

- Perfectly suited for above ground pools
- Compact and light design
- Plug and play
- Super quiet operation
- Economical running cost
- Durable and very safe heat pump
- Recommended operation above 12℃
- Hydrophilic bluefin treatment on evaporator
- Easy to use controller with electronic display
- Power cable provided

for above-ground pools

Low Noise

R32 Gas

Intelligent Control

World brand compressor

Plug & Play

COLOR OPTIONS

PERFECT PARTNER OF ABOVE-GROUND POOL

Mini pool heat pump, specially designed for above-ground pool heating, which is the perfect partner of your above-ground pool.

TECHNICAL SPECIFICATIONS

Model		LCSP-30RC MINI	LCSP-50RC MINI	LCSP-70RC MINI
Ambient 26 °C Water 26°C in, 28 °C out	Capacity (kW)	3.21	5.37	7.83
	power input (kW)	0.59	0.67	1.08
	COP	5.44	7.99	7.26
Ambient 15 °C Water 26°C in, 28 °C out	Capacity (kW)	2.12	3.98	5.59
	power input (kW)	0.52	0.66	0.89
	COP	4.06	6.00	6.28
Power supply	V/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
Max power input	kW	0.68	1.04	1.71
Max current	A	3.09	4.82	7.85
Quantity of compressor		1		
Compressor type		Rotary		
Evaporator		Hydrophillic aluminium fin		
Water flow	m^3/h	1.30	2.31	3.36
Refrigerant		R32	R32	R32
Min pressure/Max pressure	Mpa	1.5 / 4.15	1.5 / 4.15	1.5 / 4.15
Net dimension (L*W*H)	mm	447*320*397	636*277*496	696*297*544
Sound pressure (10m)	dB(A)	< 32	< 32	< 32
Water connection	mm	32	32	32
Fan direction		Horizontal	Horizontal	Horizontal
Waterproof grade		IPX4	IPX4	IPX4

60HZ POOL HEAT PUMP SIDE DISCHARGE

KEY FEATURES

- Suitable for 60Hz market
- Higher efficient heating/cooling-Saving energy cost
- Intelligent control:No human attendance is required
- Heating&Cooling function
- Corrosion proof titanium heat exchanger-Long life span
- Stylish ABS plastic cabinet
- Rotary/Scroll world brand compressor
- Waterproof display and control panel
- High/low pressure switch protection
- Reverse cycle defrosting
- Wide working temperature range-Extend swimming seasons
- Self-diagnosis-Displaying error code on control panel
- Plug and play installation and operation
- Patented Design
  Flow switch protection

heating/cooling · Low Noise · R410A Gas · Operation protection

Intelligent Control · Plug & Play · ABS plastic cabinet · intelligent defrosting

TECHNICAL SPECIFICATIONS

Model		LCSPC-150M	LCSPC-190M	LCSPC-250M
Ambient 80°F, Inlet water 80°F ,80% Relative Humidity	Capacity (Btu/h)	50,000	65,000	85,000
	power input (kW)	2.37	2.97	4.12
	COP	6.17	6.40	6.04
Ambient 80°F, Inlet water 80°F ,63% Relative Humidity	Capacity (Btu/h)	46,500	55,500	80,000
	power input (kW)	2.31	2.71	4.04
	COP	5.93	6.01	5.8
Ambient 50°F, Inlet water 80°F, 63% Relative Humidity	Capacity (Btu/h)	30,000	35,000	56,000
	power input (kW)	2.15	2.32	4.1
	COP	4.0	4.40	4.0
Power supply	V/PH/Hz	AC 208-240/1/60Hz		
Max current	A	16.7	24.6	32.18
Compressor type		Rotary	Rotary	Scroll
Refrigerant		R410A	R410A	R410A

COMMERCIAL POOL HEAT PUMP

KEY FEATURES

- Designed and widely applied for public pools
- Fast return on investment
- Heating&Cooling function
- Corrosion proof titanium heat exchanger-Long life span
- Multiple system protections-Safe and reliable operation
- Scroll world brand compressor
- Intelligent control:No human attendance is required
- Reverse cycle defrosting
- Self-diagnosis-Displaying error code on control panel
- Galvanized powered coated steel cabinet

heating/cooling · Low Noise · for public pools · Self-diagnosis

Intelligent Control · Twisted titanium heat exchanger · steel cabinet · intelligent defrosting

TECHNICAL SPECIFICATIONS

Model		LCSP-400	LCSP-500	LCSP-600
Ambient 27 °C, Water 26°C in, 28 °C out	Capacity (kW)	45.77	56.21	64.89
	power input (kW)	8.09	10	11.23
	COP	5.66	5.62	5.78
Ambient 24 °C, Water 26°C in, 28 °C out	Capacity (kW)	42.21	52.32	60.70
	power input (kW)	8.07	9.93	11.10
	COP	5.23	5.27	5.47
Ambient 15 °C, Water 26°C in, 28 °C out	Capacity (kW)	36.03	44.93	51.54
	power input (kW)	8.01	9.91	10.64
	COP	4.50	4.53	4.84
Ambient 35 °C, Water 29°C in, 27 °C out	Capacity (kW)	32.10	34.98	37.54
	power input (kW)	10.07	12.81	13.04
	EER	3.19	2.73	2.88
Working Ambient Temerature	°C	-10~43	-10~43	-10~43
Power Supply		380-415V/3N/50Hz	380-415V/3N/50Hz	380-415V/3N/50Hz
Max Power Input	kW	11.65	14.12	16.22
Max Current	A	17.71	22.92	24.66
Compressor Type		Scroll	Scroll	Scroll
Fan Direction		Vertical	Vertical	Vertical
Water Flow Volume	m3/h	18.15	22.53	25.05
Refrigerant Type		R410A	R410A	R410A
Min Pressure/Max Pressure		1.5/4.15Mpa	1.5/4.15Mpa	1.5/4.15Mpa
Material of Casing		Galvanized steel	Galvanized steel	Galvanized steel
Unit Net Dimensions(L*W*H)	mm	1520*738*1132	1520*738*1132	1520*738*1132
Net Weight	kg	260	280	340
Gross Weight	kg	290	310	370
Sound Pressure 1m	dB(A)	61	61	61
Water proof level		IPX4	IPX4	IPX4

02

HOME HEATING

SERIES

R32 MONOBLOC | FOR HOME HEATING AND DHW
FULL INVERTER HEAT PUMP

KEY FEATURES

- High efficiency A+++ ErP energy label
- Fully KEYMARK/MCS/ErP/CE/UKCA/TUV bre approved
- Designed by British heating engineers, being user-friendly
- Wi-Fi remote control with APP
- Automatic software update via internet. (Saves time/money for engineers call outs)
- User-friendly touch screen controller
- Energy monitoring
- R32 Gas
- 7,10,15,20kW range
- Low noise fans
- Vacation mode
- Anti-legionella function
- Weather compensation
- Boost hot water heating

TOUCH SCREEN CONTROLLER

- WiFi remote control with APP, work from anywhere in the world
- Automatic software update via internet (Save time/money for engineers call outs)
- User-friendly touch screen controller
- Easy as the iPhone for use

SMART APP REMOTE CONTROL

Our R32 full inverter heat pump are equipped with highly integrated control functions, which can be operated via a remote APP. With a Wi-Fi and 4G/5G connection, you can take full control of your heat pump on your smartphone via an app. The app can be found in the App stores. The system is easy to manipulate, stable in performance, and is truly a smart operating system.

CONTROL YOUR HEAT PUMP ANYWHERE AND ANYTIME WITH

SMART LIFE

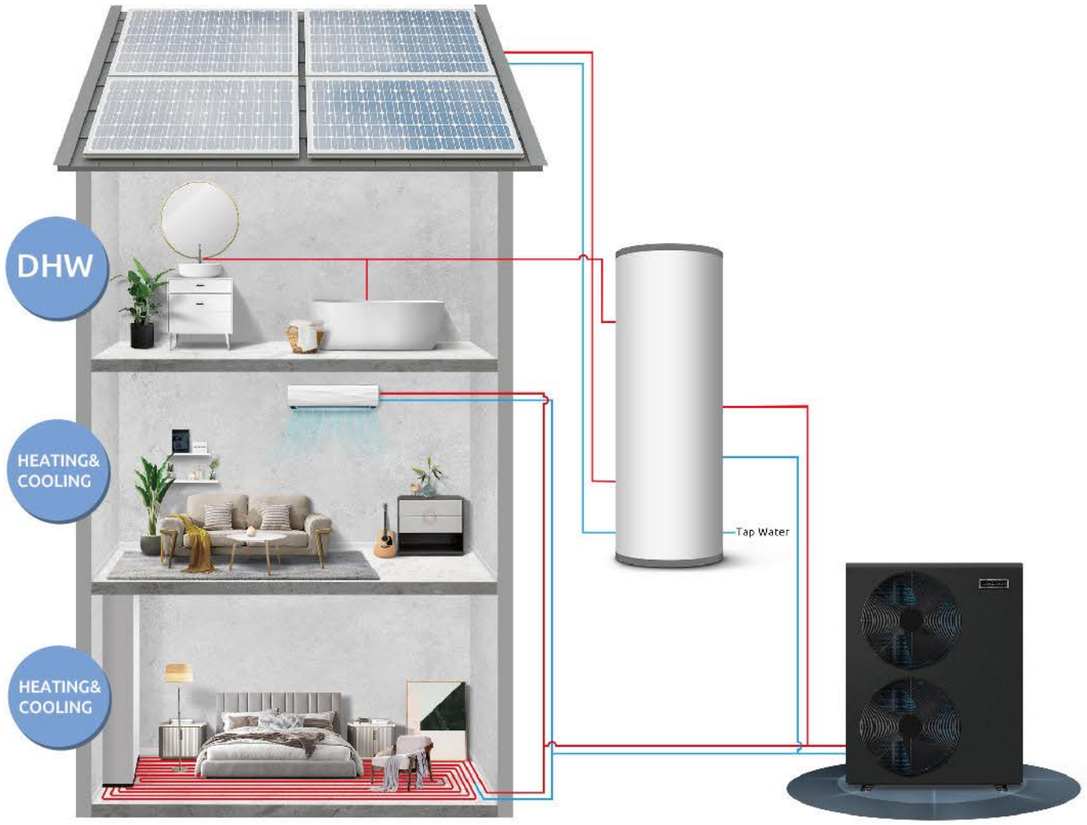
Download on the App Store

ANDROID APP ON Google play

ENERGY EFFICIENCY RATING LABEL

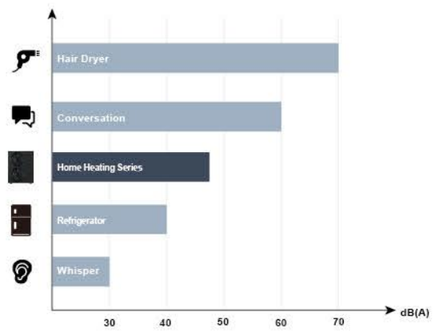
Home heating Series is specially developed with the most cutting-edge heat pump technology and modern design to meet stringent requirements for efficiency, stability and quietness. Not only does Home heating Series use R32 green gas, but also is rated with A+++ energy label. With top energy rating A+++, the unit is energy efficient and can greatly reduce energy bills for users.

THREE WORKING MODES



LOW NOISE RUNNING

Full inverter compressor and DC brushless fans enable the units to run quietly. Meanwhile, new noise reduction measures are adopted to control the sound of the units at a satisfactory level. Our Self-developed Controller Series can achieve low noise running of 47dB(A) when testing at sound pressure.



TECHNICAL SPECIFICATIONS

	Air Temp. (°C) DB/ WB	Leaving Water Temp. (°C)	LCM-60R	LCM-100R	LCM-150R	LCM-180R
* Heating						
Capacity (kW)	7/ 6	35	7.15	10.94	15.40	20.18
		55	6.29	9.19	11.23	14.97
power input (kW)	7/ 6	35	1.45	2.18	3.26	4.21
		55	2.01	2.93	4.21	5.56
COP (W/W)	7/ 6	35	4.93	5.01	4.73	4.79
		55	3.13	3.14	2.67	2.69
* Cooling						
Capacity (kW)	35/ 24	18	7.29	10.52	14.37	18.40
power input (kW)			1.59	2.50	3.56	4.90
EER (W/W)			4.60	4.20	4.04	3.75
Sound Pressure Level (at 1 m) Rated [dB (A)]			47	48	50	51
Maximum Running Current (A)			10	18	25	30
Rated Water Flow Rate (at LWT 35°C) (LPM)			21	32	46	56
Dimensions (Unit) (LxWxH) (mm)			1044*421*757	1094*421*910	1094*451*1389	1094*451*1389
Net Weight (kg)			75	86	106	128
Power Supply (V/ Phase / Hz)			220~240 / 1 / 50			
Refrigerant			R32			

EVI TECHNOLOGY

It can be installed in an environment of -25°C
and its technology with EVI is specially designed for ultra-low temperature

☑ Erp A+++ ☑ R32
☑ Wifi APP ☑ Heating/Cooling/DHW

TECHNICAL SPECIFICATIONS

	Air Temp. (℃) DB/WB	Leaving Water Temp. (℃)	LCM-60R-EX	LCM-100R-EX	LCM-150R-EX	LCM-180R-EX
* Heating						
Capacity (kW)	7/6	35	7.15	10.94	15.40	20.18
		55	6.29	9.19	11.23	14.97
power input (kW)	7/6	35	1.45	2.18	3.26	4.21
		55	2.01	2.93	4.21	5.56
COP (W/W)	7/6	35	4.93	5.01	4.73	4.79
		55	3.13	3.14	2.67	2.69
* Cooling						
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Maximum Running Current (A)			10	18	25	30
Rated Water Flow Rate (at LWT 35°C) (LPM)			21	32	46	56
Dimensions (Unit) (LxWxH) (mm)			1044*421*757	1094*421*910	1094*451*1389	1094*451*1389
Net Weight (kg)			79	90	110	132
Power Supply (V/ Phase / Hz)			220 ~ 240 / 1 / 50			
Refrigerant			R32			

SPLIT SYSTEM HEAT PUMP

Split instructure design, effective antifreeze

R290 INVERTER HEAT PUMP

Our R290 NEW Full Inverter Heat Pumps have been developed with concentration of our long term research, comprehensive testings and rigorous quality controls, in order to present superior products into the market and contribute to reduction of energy bill and global warming.

03

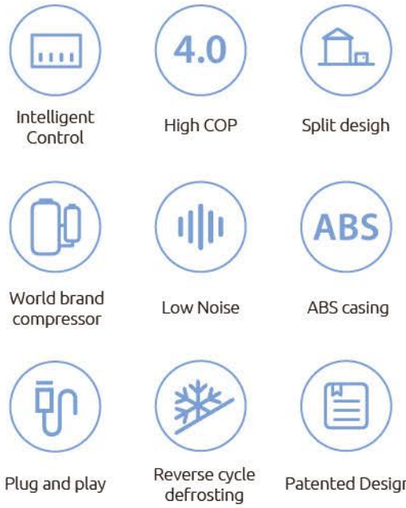
HOT WATER HEAT PUMP

SERIES

DOMESTIC
HOT WATER HEAT PUMP

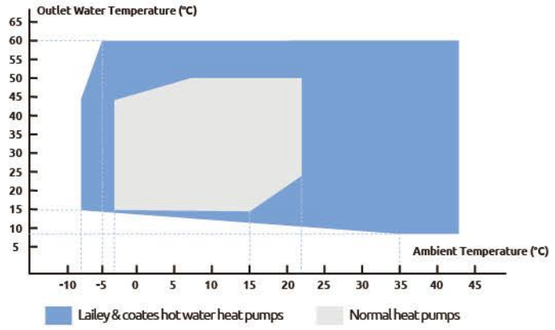
KEY FEATURES

- Intelligent control: No human attendance is required
- High COP over 4.0 - energy saving
- Water-electricity separation technology
- Strong ABS plastic casing or powered coated galvanized metal casing
- Rotary / Scroll world brand compressor
- Waterproof display and control panel
- Environmental friendly-No pollution or waste discharged in entire working cycle
- Reverse cycle defrosting
- High / low high pressure switch protection
- Self-diagnosis-Displaying error code on control panel
- Plug and play installation and operation
- Patented Design



WATER TEMPERATURE UP TO 60℃

Hot water heat pumps Series features a wide operating temperature range. It means they can reach high water temperature (55-60℃) even in cold climate ranging from -7℃ to 43℃.



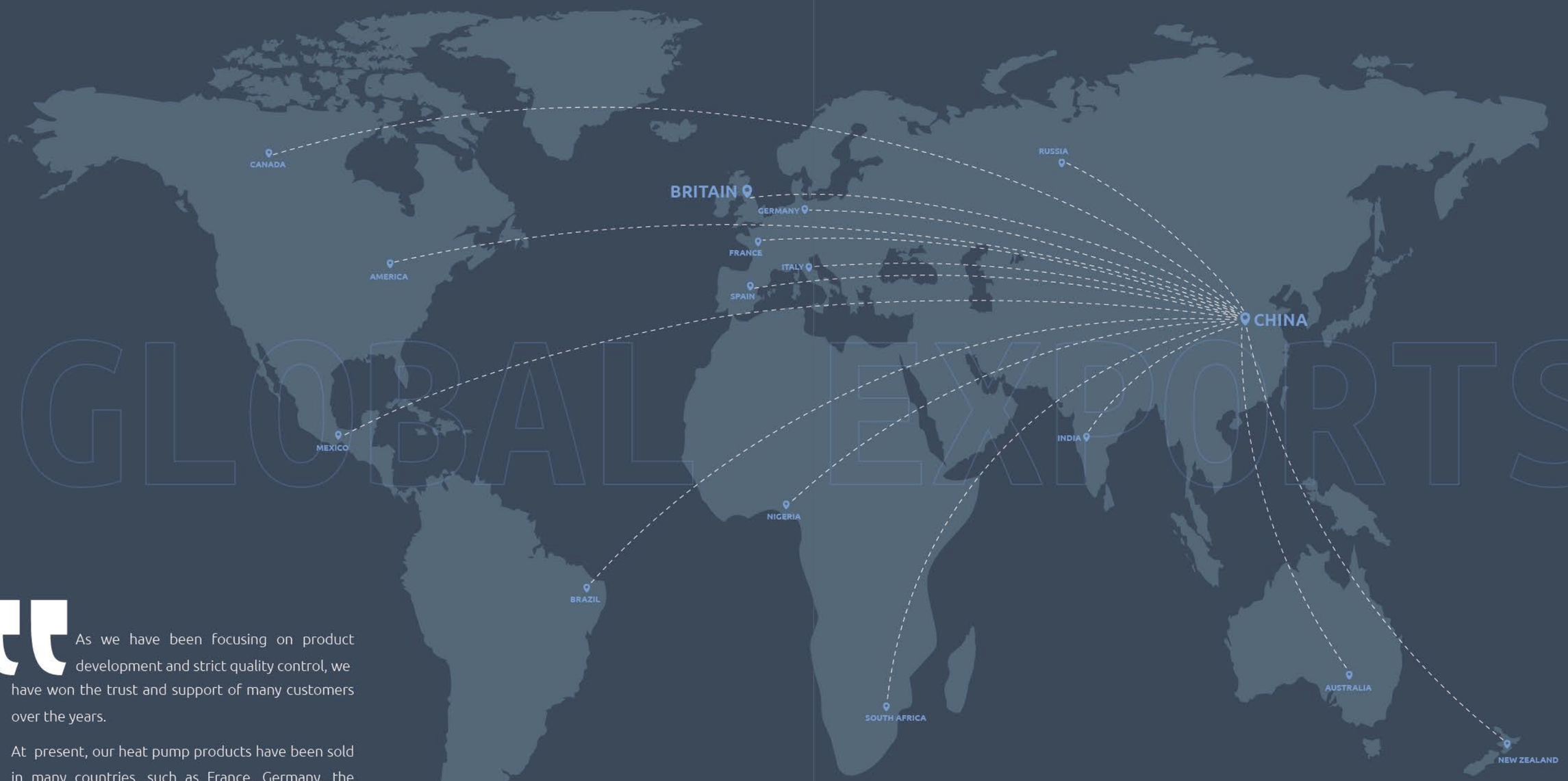
SPLIT DESIGH

split design allows you to install the outdoor unit outside, which is much quieter. The installation can be more flexible.

TECHNICAL SPECIFICATIONS

Model			LCHWC-50	LCHWC-70	LCHWH-190S
Heating (A25°C, W35°C)	Nominal capacity	kW	7.58	10.49	24.91
	Power input	kW	1.12	1.61	3.41
	COP	W/W	6.77	6.52	7.3
Heating (A25°C, W55°C)	Nominal capacity	kW	6.3	9.15	21.85
	Power input	kW	1.40	2.02	4.20
	COP	W/W	4.5	4.53	5.2
Heating (A20°C, W35°C)	Nominal capacity	kW	6.59	9.12	21.66
	Power input	kW	1.08	1.59	3.31
	COP	W/W	6.1	5.74	6.54
Heating (A20°C, W55°C)	Nominal capacity	kW	5.5	7.96	19
	Power input	kW	1.38	1.99	4.13
	COP	W/W	4.0	4.0	4.6
Power supply		V/Ph/Hz		220 ~ 240 / 1 / 50	380 ~ 415 / 3 / 50
Max outlet water temperature		°C		60	
Rated water yield		L/H	118	172	409
Running ambient temperature range		°C		-7~43	
Refrigerant type				R410A	
Compressor				Rotary	Scroll
Max current		A	7.8	13.6	12
Water circuit heat exchanger				Tube in shell heat exchanger	
Water pump				WILO pump	N/A
Net dimensions LxWxH		mm		933*401*657	730*745*967
Net weight		kg	54	60	116
Gross weight		kg	61	67	128
Noise level		dB (A)	50	52	58

GLOBAL SERVICE NETWORK



GLOBAL EXPORTS

"As we have been focusing on product development and strict quality control, we have won the trust and support of many customers over the years.

At present, our heat pump products have been sold in many countries, such as France, Germany, the United Kingdom, Spain, the Czech Republic, Canada, Australia , New Zealand, UAE, South Africa, Italy, Poland, Spain, Portugal, Netherlands, Belgium, Denmark, Australia, Hungary, etc.