

Domestic Split Heat Pump

This series heat pump is designed for domestic hot water. It is simple and fashionable



SPECIFICATION

Model		LWH-3.6C	LWH-5.3C	LWH-8.0C	LWH-10.5C	LWH-11.4C
Heating capacity	kw	3.6	5.3	8.0	10.5	11.4
	BTU/h	12200	18000	27300	35800	38900
Rated heated water output	L/h	75	115	175	225	245
Rated outlet water temp.	°C	55				
ax outlet water temp.	°C	60				
Power		220V/1N/50Hz				
Rated input power	kW	0.9	1.3	2.0	2.5	2.7
Rated input current	A	4.1	5.9	9	11.4	12.3
Compressor type		Rotaryx1				
Compressor brand		Panasonic/GMCC	Panasonic/GMCC	Panasonic/GMCC	Panasonic/GMCC	Copeland
Throttle type		Capillary/ Electronic expansion valve (EEV)				
Fan type		Low noise high efficiency axial type				
Fan direction		Horizontal				
Fan No.		1				
Fan input power	W	28	28	28	40	90
Fan Speed	RPMM	850	850	850	850	850
Evaporator fin type		Hydrophilic aluminium				
Evaporator tube type		Innergroove tube				
Controller type		Intelligent & LCD				
Ambient temperature	°C	-10~45				
Refrigerant type		R22/R417A/R410A/R134A/R407C				
Low pressure protection		Yes				
High pressure protection		Yes				
Automatic defrosting system		Yes				
Overload protection		Yes				
Noise in 1 meter	dB(A)	<54dB(A)			<56dB(A)	
Connect copper pipe	mm	Ø6.35/Ø9.52	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø9.52/Ø12.7	Ø9.52/Ø15.88
Suggested water tank	L	100-260	260-400	400-600	600-800	600-1000
Cabinet		Powder coated steel				
Unit size(L*W*H)	mm	780*260*540			845*315*665	1010*315*715
Packing size(L*W*H)	mm	930*360*630			1050*480*760	1200*480*800
N.W	kg	32	36	43	50	55
20'/40'/40"HQ	Set	111/231/308			66/144/144	26/54/81

Testing condition : Heating: Ambient temp.(DB/WB): 20°C/15°C, water temp. (input/output): 15°C/55°C



Domestic Monobloc Heat Pump

This series heat pump use Tube in Shell heat exchanger and circulating pump inside. It is very easy for installation and maintenance, It is widely applied for domestic hot water and heating.



SPECIFICATION

Model		LWH-3.6B	LWH-5.3B	LWH-8.0B	LWH-11.4B	LWH-19.3B
Heating capacity	kw	3.6	5.3	8.0	11.4	19.3
	BTU/h	12200	18000	27300	38900	65800
Rated heated water output	L/h	75	115	175	245	415
Rated outlet water temp.	°C	55				
Max outlet water temp.	°C	60				
Power		220V/1N/50Hz			380V/3N/50Hz	
Rated input power	KW	0.9	1.3	2.0	2.7	4.5
Rated input current	A	4.1	5.9	9	12.3	9.0
Compressor type		Rotary *1			Scroll *1	
Compressor brand		Panasonic/GMCC	Panasonic/GMCC	Panasonic/GMCC	Copeland	
Throttle type		Capillary/ Electronic expansion valve (EEV)				
Fan type		Low noise high efficiency axial type				
Fan direction		Horizontal				
Fan No.		1			2	
Fan input power	W	28	28	28	90	90
Fan speed	RPMM	850	850	850	850	850
Evaporator fin type		Hydrophilic aluminium				
Evaporator tube type		Innergroove tube				
Heat exchanger type		High efficiency tube in shell heat exchanger				
Heat exchanger No.	°C	1				
Controller type		Intelligent & LCD				
Ambient temperature		-10~45				
Refrigerant type		R22/R417A/R410A/R134A/R407C				
Low pressure protection		Yes				
High pressure protection		Yes				
Automatic defroting system		Yes				
Overload protection		Yes				
Noise in 1 meter	dB(A)	≤54dB(A)			≤55dB(A)	≤55dB(A)
Water pipe size	mm	Rc3/4(DN20)			Rc1(DN25)	Rc1(DN25)
Head of water outlet	m	1.2			6.0	8.0
Cycle water flow	L/min	10	16.0	22	41.6	66.6
Cabinet		Stainless steel /Powder coated steel				
Unit Size	mm	1000*365*560			1115*480*720	1205*656*1265
Packing Size	mm	1080*410*700			1200*540*900	1290*640*1430
N.W	kg	45	52	60	105	155
20'/40'/40"HQ	Set	84/168/1688			36/80/80	13/27/27

Testing condition : Heating: Ambient temp.(DB/WB) : 20°C/15°C, water temp. (input/output): 15°C/55°C



Domestic All-in-one Heat Pump

This series heat pump is designed with external or internal coils heat exchanger. it has better anti-corrosion function and widely applied for family and hotel.



SPECIFICATION

Model		LWH18-150L	LWH18-200L	LWH30-250L	LWH30-300L
Heating capacity	kW	1.8	1.8	2.42	2.42
COP	WW	3.82	3.82	3.72	3.72
Water tank Volume	L	150	200	250	300
Hot water production	L/h	39	39	52	52
Power supply	V/Hz/Ph	220~240V/50/1	220~240V/50/1	220~240V/50/1	220~240V/50/1
Rated outlet water temp	°C	55	55	55	55
Max outlet water temperature (without using E-heater)	°C	70	70	70	70
Max outlet water temperature	°C	75	75	75	75
Rated input power	W	470	470	623	623
Auxiliary electric heating	W	2000	2000	2000	2000
Refrigerant		R134a	R134a	R134a	R134a
Number of compressors		1	1	1	1
Compressor		Rotary	Rotary	Rotary	Rotary
Four-way valve		SHF-4	SHF-4	SHF-4	SHF-4
Motor		YDK32	YDK32	YDK32	YDK25
Centrifugal fan		φ190	φ190	φ190	φ190
High pressure switch	Mpa	3.0~2.4	3.0~2.4	3.0~2.4	3.0~2.4
low pressure switch	MPa	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Ambient temperature	°C	-7~45	-7~45	-7~45	-7~45
Waterproof protection level		IPX4	IPX4	IPX4	IPX4
Product cabinet		Galvanized steel			
Material of water tank		Enamel tank			
Heat exchanger type		Copper External coil			
Evaporator		Hydrophilic aluminum foil			
Throttling device		Electrical expansion valve			
Wire controller		Digital screen, touch buttons			
Pipe diameter	inch	G1/2"	G1/2"	G3/4"	G3/4"
Built-in pressure protection	MPa	0.8MPa	0.8MPa	0.8MPa	0.8MPa
Product Dimensions	mm	φ570x1515	φ570x1800	φ640x1800	φ640x2020
Packing Dimensions	mm	645x645x1700	645x645x1990	740x740x1980	740x740x2200
Net Weight	Kg	82	98	117	132
Noise	dB(A)	≤52	≤52	≤53	≤53

Capacities and power inputs based on the following conditions: - Heating: Ambient temperature 20°C/15°C, Water temperature from 15°C to 55°C.

- High Temperature
- Anti-corrosion Water Tank
- Convenient installation



Commercial Heat Pump

This series heat pump is designed for supply hot water and floor heating of hotel, office building, factory, school, mining, hospital etc.



SPECIFICATION

Model		LWH-030C	LWH-050C	LWH-070C	LWH-100C	LWH-120C	LWH-150C	LWH-200CN	LWH-250CN
Heating capacity	kw	11.4	19.3	25.6	39.5	46.3	57.8	75.6	95.5
	BTU/h	38900	65800	87300	134800	158000	197200	258000	325900
Rated heated water output	L	245	415	550	850	990	1240	1620	2050
Rated outlet water temp.	°C	55							
Max outlet water temp.	°C	60							
Power		380V/3N/50Hz							
Rated input power	KW	2.70	4.50	6.00	9.20	10.80	13.50	17.70	22.40
Rated input current	A	5.4	9	12	18	21	26.3	34.5	43.6
Compressor type		Scroll*1	Scroll1*1	Scroll*1	Scroll*2	Scroll*2	Scroll*2	Scroll*2	Scroll*2
Compressor brand		Copeland							
Throttle type		Electronic expansion valve(EEV)							
Fan type		Low noise high efficiency axial type							
Fan direction		Vertical							
Fan No.		1	1	2	2	2	2	2	2
Fan Input power	W	90	250	250	250	250	550	750	940
Fan Speed	RPM	850	880	880	880	880	910	940	750
Evaporator fin type		Hydrophilic aluminium							
Evaporator tube type		Innergroove tube							
Heat exchanger type		High efficiency tube in tube/tub in shell heat exchanger							
Heat exchanger No.		1	1	1	2	2	2	2	2
Controller type		Intelligent & LCD							
Ambient Temperature	°C	-10~45							
Refrigerant type		R22/R417A/R410A/R134A/R407C							
Low pressure protection		Yes							
High pressure protection		Yes							
Automatic defroting system		Yes							
Overload protection		Yes							
Noise in 1 meter	dB(A)	55	58	60	63	66	66	68	68
Water pipe size	mm	Rc1(DN25)			Rc1-1/2(DN40)			Rc2(DN50)	
Water flow volume	m³/h	2.5	4.0	5.0	8.0	9.5	12.0	15.5	19.5
Cabinet		Stainless steel/ Powder coated steel							
Unit Size	mm	710*810*840	855*775*1095	855*775*1095	1540*770*1180	1550*845*1180	1550*845*1180	2000*1005*1665	2010*1165*2025
Packing Size	mm	840*840*1010	910*910*1260	910*910*1260	1600*830*1280	1610*905*1280	1610*905*1280	2100*1050*2040	2100*1200*2130
N.W	kg	105	140	170	300	350	400	650	750
20/40/140/HQ	Set	24/24/56	12/24/48	12/24/48	7/14/28	6/14/28	6/14/28	5/11/11	4/9/9

Testing condition : Heating: Ambient temp.(DB/WB) : 20°C/15°C, water temp. (input/output): 15°C/55°C

Low Temperature EVI Heat Pump

This series heat pump is designed with the most advanced low temperature enhanced vapors injection (EVI) technology for hot water and floor heating in cold areas. The R417A refrigerant is standard for this series, which also is helpful to get better performance in low ambient temperature.



SPECIFICATION

Model		LWH-030LCZ	LWH-030CZ	LWH-050CZ	LWH-100CZ	LWH-200CZ
Heating capacity	kw	10.5	11.4	19.3	39.5	75.6
	BTU/h	35900	38900	65800	134800	258000
Rated heated water output	L/h	225	240	415	850	1620
Heating capacity	kW	8.8	9.5	16.1	32.9	63
	Btu/h	30000	32400	54900	112200	215000
Rated outlet water temp	°C	55				
Max outlet water temp.	°C	60				
Power		220V/1N/50Hz		380V/3N/ 50Hz		
Rated input power	kW	2.5	2.7	4.5	9.0	17.5
Rated input current	A	11.4	5.4	9.0	18.0	34.5
Input power	kW	2.2	2.4	4.0	8.2	15.7
Input current	A	10.2	4.3	7.2	14.7	28.2
Compressor type		Scroll*1	Scroll*1	Scroll*1	Scroll*2	Scroll*2
Compressor brand		Copeland				
Throttle type		Electronic expansion valve(EEV)				
Fan type		Low noise high efficiency axial type				
Fan direction		Vertical				
Fan No.		1	1	1	2	2
Fan input power	W	90	90	550	550	750
Fan speed	RPM	850	850	910	910	940
Evaporator fin type		Hydrophilic aluminum				
Heat exchanger type		High efficiency tube in tube and plate heat exchanger				
Heat exchanger quantity		1	1	1	2	2
Ambient Temperature	°C	-25~45				
Refrigerant type		R22/R417A/R410A/R407C				
Low pressure protection		Yes				
High pressure protection		Yes				
Automatic defrosting system		Yes				
Overload protection		Yes				
Noise in 1 meter	dB(A)	55	55	58	63	68
Water pipe size	mm	Rc1(DN25)			Rc1-1/2(DN40)	Rc2 (Dn50)
Water flow volume	m³/h	2.5	2.5	4.0	8.0	15.5
Cabinet		Stainless steel /Powder coated steel				
Unit Size	mm	710*810*990	710*810*990	980*860*1525	1585*850*1525	2000*1005*1865
Packing Size	mm	840*840*1160	840*840*1160	1070*950*1730	1690*940*1750	2100*1050*2040
N. W	kg	115	125	220	450	700
20'/40'/40HQ	Set	24/24/56	24/24/56	10/24/24	6/13/13	5/11/11

Testing condition : Heating: Ambient temp.(DB/WB) : 20°C/15°C, water temp. (input/output): 15°C/55°C

High Temperature Heat Pump

This series heat pump is designed with R134a refrigerant and own patented technology to make sure high temperature (up to 80°C). It is widely used in Industry and Agriculture.



SPECIFICATION

Model		LWH-050BC	LWH-070BC	LWH-100BC	LWH-150BC	LWH-200BC	LWH-250BC
Heating capacity	kw	12.7	17.8	25.5	38.3	51.0	63.8
	BTU/h	43300	60700	87000	130700	174000	217700
Rated heated water output	L/h	185	260	370	555	740	925
Rated outlet water temp.	°C	75					
Max outlet water temp	°C	80					
Power		380V/3N/50Hz					
Rated input power	kW	4.1	5.8	8.3	12.4	16.5	20.6
Rated input current	A	7.4	10.4	14.8	22.2	29.5	36.8
Compressor type		Scroll*1	Scroll*1	Scroll*2	Scroll*2	Scroll*2	Scroll*2
Compressor brand		Copeland					
Throttle type		Electronic expansion valve (EEV)					
Fan type		Low noise high efficiency axial type					
Fan direction		Vertical					
Fan No.		1	1	2	2	2	2
Fan input power	W	250	250	250	550	750	750
Fan speed	RPM	880	880	880	910	940	940
Evaporator fin type		Hydrophilic aluminium					
Heat exchanger type		High efficiency tube in tube heat exchanger					
Heat exchanger No.		1	2	2	2	2	2
Controller type		Intelligent & LCD					
Ambient Temperature	°C	-10~+45					
Refrigerant		R134A					
Low pressure protection		Yes					
High pressure protection		Yes					
Automatic defroting system		Yes					
Overload protection		Yes					
Noise in 1 meter	dB(A)	58	60	63	66	68	68
Water pipe size	mm	R1(DN25)	R1(DN25)	Rc1-1/2(DN40)	Rc1-1/2(DN40)	Rc2 (DN50)	Rc2(DN50)19.5
Water flow volume	m³/h	4.0	5.0	8.0	12.0	15.5	
Cabinet		Stainless steel/ Powder coated steel					
Unit Size	mm	855*775*1095	855*775*1095	1550*845*1180	1585*850*1525	2000*1005*1865	2010*1165*2025
Packing Size	mm	910*910*1260	910*910*1260	1610*905*1280	1690*940*1750	2100*1050*2040	2100*1200*2130
N.W	kg	160	200	400	480	650	750
20'/40'/40HQ	Set	12/24/48	12/24/48	6/14/28	6/13/13	5/11/11	4/9/9

Testing condition : Heating: Ambient temp.(DB/WB) : 20°C/15°C, water temp. (input/output): 15°C/75°C

Water Source Heat Pump

The Water to Water heat pump applies reverse principle to transfer free energy from water in river, lake, sea etc. to heat water. It is suitable in cold area.



SPECIFICATION

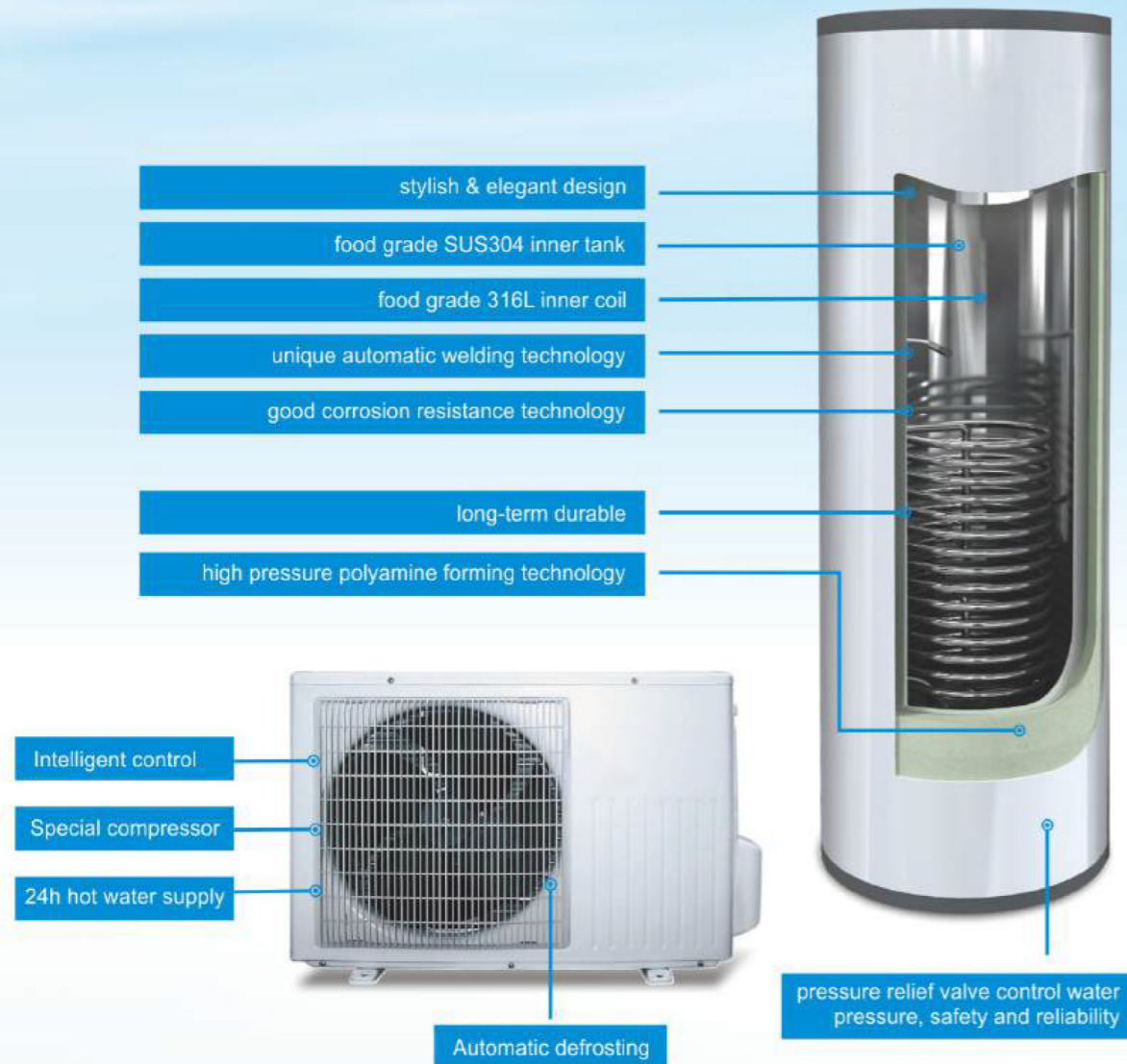
Model		LWH-03QLWC	LWH-050WC	LWH-070WC	LWH-100WC	LWH-120WC	LWH-150WC	LWH-200WC	LWH-250WC	
Heating capacity	kw	12.5	20.9	27.6	41.5	51.8	62.8	83.5	105.5	
Rated heated water output	BTU/h L/h	42600 268	71300 449	94200 590	141600 892	176800 1110	214300 1350	285000 1795	360100 2265	
Rated outlet water temp.	°C	55								
Max outlet water temp.	°C	60								
Power supply		220N/1N/50Hz			380V/3N/50Hz					
Rated input power	kW	2.7	4.5	6.0	9.2	10.6	13.5	17.7	22.4	
Rated input current	A	12.3	9.0	12.0	18.0	21.0	26.3	34.5	43.6	
Compressor		scroll*1			Scroll*2					
Refrigerant		R22/R417A/R410A/R134A/R407C								
Compressor brand		Copeland								
Throttle type		Electronic expansion valve (EEV)								
Heat exchanger (hot source side)		tube in tube/square heat exchanger								
Heat exchanger (hot water side)		Tube in tube heat exchanger								
Noise in 1 meter	dB(A)	50	55	55	60	60	62	65	66	
Water pipe size	mm	Rc1(DN25)			Rc1-1/2(DN40)					
Water flow (hot source side)	m³/h	2.0	3.5	4.6	7.2	9.0	11.5	14.5	18.5	
Water flow (hot water side)	m³/h	2.7	4.5	6.0	9.0	11.2	14.3	18.2	23.2	
Cabinet		Powder coated steel								
Unit Size	mm	1100*500*1145			940*500*1300			1560*750*1350		
Packing Size	mm	1160*560*1250			1000*560*1400			1560*810*1450		
N.W	kg	101	130	165	290	335	635	730	730	
20'40'HQ	Set	20/42/84			22/46/46			7/15/15		

Testing condition : Heating: Ambient temp.(DB/WB) : 15°C/10°C, water temp. (input/output): 15°C/55°C



Pressurized Water Tank with or without coil

This series water tank adopts High quality SUS304 & 316L food grade stainless steel can be used electric water heater, gas water heater, solar water heater and heat pump water heater.



SPECIFICATION

Model		LWH-100LB	LWH-100LB	LWH-200LB	LWH-260LB	LWH-320LB	LWH-400LB	LWH-500LB	LWH-1000LB	
Material of inner tank		Stainless Steel SUS304-2B								
Thickness of inner tank	mm	1.00	1.00	1.20	1.35		1.50	1.50	2.00	
Diameter of inner tank	mm	Ø370	Ø370	Ø420	Ø470		Ø600	Ø600	Ø800	
Insulation Layer	mm	High density polyurethane $\rho = 50$								
Material of Coil		Stainless Steel 316L								
Thickness of Coil	mm	0.7								
Diameter of Coil	mm	Ø9.52					Ø12.7	Ø12.7	/	
Length of Coil	m	23			33			/		
Outer Shell	mm	Color Steel Shell / Stainless Steel								
Magnesium rod		Yes								
Diameter of inlet pipe		1/2(DN15)				G1"(DN25)				
Diameter of outlet pipe		3/4(DN20)				G1"(DN25)				
Diameter of circulating pipe		3/4(DN20)				G1"(DN25)				
Relief Valve		1/2(DN15)		3/4(DN20)		3/4(DN20)		G1"(DN25)		
Operating pressure	Mpa	0.6Mpa								
Max. running pressure	Mpa	1.2Mpa								
Unit Size	mm	Ø470*1080	Ø470*1070	Ø520*1550	560*1550	Ø560*1830	Ø700*1550	Ø700*1830	900*2000	
Packing Size (L*W*H)	mm	550*550*1150	550*550*1150	600*600*1630	650*650*1650	650*650*1930	800*800*1650	800*800*1930	930*930*2150	
N. W	kg	35	40	50	55	60	70	90	120	
20'/40'/40'HQ	Set	80/168/168	53/117/142	39/83/104	35/79/100	24/54/72	14/28/42	14/28/42	12/24/24	