SOLEOTECH
The source for renewable energy

26 rue des Rigoles
75020 Paris - FRANCE
Tel: +33 (0)6 83 64 62 78
Email: soleotech@soleotech.fr

SOLEOTECH HEAT PUMP CATALOG

Air Source Swimming Pool Heat Pump (Titanium Heat Exchanger)

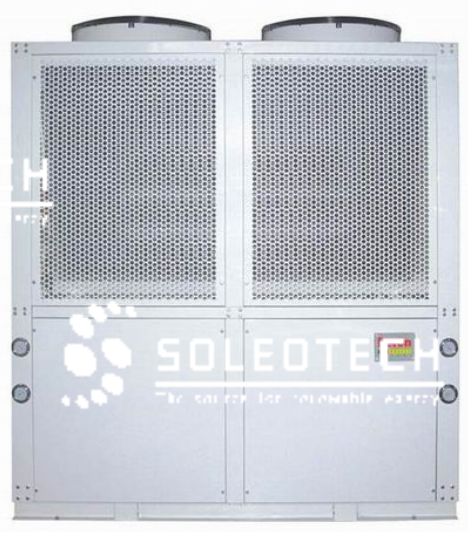
- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- Suitable for -10℃~+45℃ ambient temperature.
- Max. outlet water temperature is 60℃.
- We usually adjust outlet water temperature at the range of 28℃~30℃(normal) for swimming pool use, also according to user's requirement.

DE-46W/DY

DE-46W/CY

DE-92W/DY

DE-92W/CY



DE-180W/DY, DE-270W/DY, DE-360W/DY

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Technical data:

Type	DE-46W/DY	DE-46W/CY	DE-92W/DY	DE-92W/CY	DE-180W/DY	DE-270W/DY	DE-360W/DY
Voltage	380/50	380/50	380/50	380/50	380/50	380/50	380/50
Rated current(A)	8.6	8.6	17.2	17.2	31	50	63
Rated power(kw)	4.6	4.6	9.2	9.2	18	27	36
Rated heating quantity(kw)	20.7	20.7	42	42	81	121.5	162
Rated temperature(℃)	55	55	55	55	55	55	55
Maximum temperature(℃)	60	60	60	60	60	60	60
Machine weight(kg)	140	140	250	250	622	893	1500
Machine size(mm)	800*780*1000	674*608*1046	1200*950*1225	1200*674*1955	2100*1080*2010	2100*1080*2010	4100*1080*2100
Refrigerant	R417	R417	R417	R417	R417	R417	R417
Ambient temperature(℃)	-10-45	-10-45	-10-45	-10-45	-10-45	-10-45	-10-45
Noise	64	64	65	65	65	65	66

- Heating capacity: 20.7KW-162.0KW
- Energy saving efficiency 75%
- COPELAND flexible scroll compressor.
- Emerson ALCO expansion valve.
- CIE blower, excellent efficiency, steady capability, lower noise, longer life
- 100% Titanium shell and tube heat exchanger.
- The data above are tested on the ambient temperature 20℃,input water 15℃,output water 55℃.
- The meaning of the letters: C stands for the lateral blowing direction. D stands for the up blowing direction. W stands for the mainframe. Y stands for swimming pool use.

Air Source Heat Pump Heating And Cooling

- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- Suitable for -10℃~+45℃ ambient temperature.
- Provide hot water and also cooling or heating the room.

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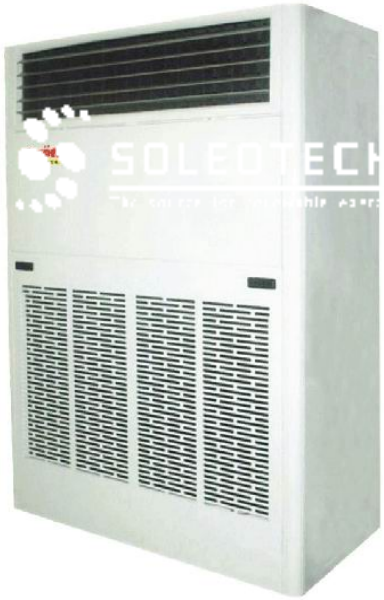
Technical data:

Type	DE-23W/D	DE-46W/D	DE-92W/D	DE-180W/D	DE-270W/D	DE-360W/D
Voltage	380/50	380/50	380/50	380/50	380/50	380/50
Rated current(A)	4.3	8.6	17.2	31	50	63
Rated power(kw)	2.3	4.6	9.2	17.9	27.2	34.8
Rated heating quantity(kw)	9.2	18.4	37	72	108	140
Rated cooling quantity(kw)	6.9	13.8	27.8	54.1	80.8	105.2
Rated heating temperature(℃)	55	55	55	55	55	55
Rated cooling temperature(℃)	7	7	7	7	7	7
Maximum heating temperature(℃)	60	60	60	60	60	60
Machine weight(kg)	120	140	250	622	893	1500
Machine size(mm)	700×690 ×850	800×780 ×1000	1200×950 ×1225	2100×1080 ×2010	2100×1080 ×2010	4100×1080 ×2100
Refrigerant	R417	R417	R417	R417	R417	R417
Ambient temperature(℃)	-10-45	-10-45	-10-45	-10-45	-10-45	-10-45
Noise	60	64	65	64	66	68

- Heating capacity: 9.2KW-140.0KW
- Cooling capacity: 6.9KW-105.2KW
- COPELAND flexible scroll compressor.
- Emerson ALCO expansion valve.
- CIE blower, excellent efficiency, steady capability, lower noise, longer life
- Shell and tube heat exchanger.
- The data above are tested on the ambient temperature 20℃,input water 15℃,output water 55℃.
- The meaning of the letters: D stands for the up blowing direction. W stands for the mainframe.

Air Source Heat Pump - Lateral Blowing

- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- Suitable for -10℃~+45℃ ambient temperature.
- Lateral blowing, special designed for special spaces.



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Technical data:

Type	DE-15W/C	DE-23W/C	DE-46W/C	DE-92W/C
Voltage	220/50	220/50	380/50	380/50
Rated current(A)	7	8	8.6	17.2
Rated power(kw)	1.5	2.3	4.6	9.2
Rated heating quantity(kw)	6.0	10.3	20.7	42
Rated temperature(℃)	55	55	55	55
Maximum temperature(℃)	60	60	60	60
Machine weight(kg)	100	120	140	250
Machine size(mm)	674*608*1046	674*608*1046	674*608*1046	1200*674*1955
Refrigerant	R417	R417	R417	R417
Ambient temperature(℃)	-10-45	-10-45	-10-45	-10-45
Noise	55	60	64	65

- Heating capacity: 6.0KW-42.0KW
- COPELAND/HITACHI(HIGHLY) flexible scroll compressor.
- Emerson ALCO expansion valve.
- Shell and tube heat exchanger.
- The data above are tested on the ambient temperature 20℃,input water 15℃,output water 55℃.
- The meaning of the letters: C stands for the lateral blowing direction. W stands for the mainframe.

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Air Source Heat Pump - Up Blowing

- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- Suitable for -10℃~+45℃ ambient temperature.
- Up blowing designed with high efficiency for general use.

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Technical data:

Type	DE-23W/D	DE-46W/D	DE-92W/D	DE-180W/D	DE-270W/D	DE-360W/D	DE-550W/D
Voltage	380/50	380/50	380/50	380/50	380/50	380/50	380/50
Rated current(A)	8	8.6	17.2	31	50	63	100
Rated power(kw)	2.3	4.6	9.2	18	27	36	55
Rated heating quantity(kw)	10.3	20.7	42	81	121.5	162	247.5
Rated temperature(℃)	55	55	55	55	55	55	55
Maximum temperature(℃)	60	60	60	60	60	60	60
Machine weight(kg)	120	140	250	622	893	1500	3300
Machine size(mm)	800*780*1000	800*780*1000	1200*950*1225	2100*1080*2010	2100*1080*2010	4100*1080*2100	3000*2400*2200
Refrigerant	R417	R417	R417	R417	R417	R417	R417
Ambient temperature(℃)	-10-45	-10-45	-10-45	-10-45	-10-45	-10-45	-10-45
Noise	60	64	65	65	65	66	66

- Heating capacity: 10.3KW-247.5KW
- COPELAND flexible scroll compressor.
- Emerson ALCO expansion valve.
- CIE blower, excellent efficiency, steady capability, lower noise, longer life
- Shell and tube heat exchanger.
- The data above are tested on the ambient temperature 20℃,input water 15℃,output water 55℃.
- The meaning of the letters: D stands for the up blowing direction. W stands for the mainframe.

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Scroll Type Water Source Heat Pump

- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- The working fluid transfers the heat energy from water(ground or lake or river water) into water to where it is needed.

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Technical data:

Type	DE-23W/S	DE-46W/S	DE-92W/S	DE-180W/S
Voltage	220/50	380/50	380/50	380/50
Rated current(A)	8.0	8.6	17.2	31
Rated power(kw)	2.3	4.6	9.2	18
Rated heating quantity(kw)	10.3	20.7	42	90
Rated temperature(℃)	55	55	55	55
Maximum temperature(℃)	60	60	60	60
Machine weight(kg)	110	140	290	890
Machine size(mm)	600*360*760	680*450*950	750*600*1200	2000*1200*2200
Refrigerant	R417	R417	R417	R417
Noise	60	60	60	60

- Heating capacity: 10.3KW-90.0KW
- COPELAND flexible scroll compressor.
- Emerson ALCO expansion valve.
- Shell and tube heat exchanger.
- The data above are tested on the input water 15℃,output water 55℃.
- The meaning of the letters: S stands for the water-to-water heat pump. W stands for the mainframe.

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Screw Type(High Efficiency) Water Source

Heat Pump For Heating And Cooling

- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- The working fluid transfers the heat energy from water(ground or lake or river water) into water to where it is needed.

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Technical data:

Type		DE-240LS	DE-400LS	DE-445LS	DE-680LS	DE-855LS	DE-1085LS
Voltage		380/50	380/50	380/50	380/50	380/50	380/50
Heating quantity(kw)		288.4	486	535.4	810	1038.8	1306.0
Power input(kw)		54.4	90	101	150	194	246.4
Cooling quantity(kw)		237.6	396.8	445.4	682.0	855.5	1085.8
Power input(kw)		39.6	64	73	110	139	178
Refrigerant		R417	R417	R417	R417	R417	R417
Compressor		HANBELL					
Cooling water	Inlet/Outlet Water temperature	12℃/7℃					
	Flow volume(m^3/h)	40.9	68.2	76.6	117.3	147.1	186.8
Ground water	Inlet/Outlet Water temperature	18℃/29℃					
	Flow volume(m^3/h)	21.7	36.0	40.5	61.9	77.8	98.8
Machine weight(kg)		1580	2100	2300	3120	3720	4280
Running weight(kg)		2000	2700	3000	4100	4850	5500

- Heating capacity: 288.4KW-1306.0KW
- Cooling capacity: 237.6KW-1085.8KW
- HANBELL screw compressor.
- Shell and tube heat exchanger.

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Household heat pump water heater(split type)

- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- Suitable for -10℃~+45℃ ambient temperature.

Color Armor Plate water tank

Stainless Steel water tank

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Technical data:

Type	DE-80L/3.4KW DE-100L/3.4KW DE-150L/3.4KW	DE-100L/5.0KW DE-150L/5.0KW DE-200L/5.0KW DE-300L/5.0KW	DE-300L/7.2KW DE-400L/7.2KW	DE-400L/10.8KW DE-500L/10.8KW
Voltage(V)	220	220	220	220
Heating power(KW)	3.4	5.0	7.2	10.8
Rated power(KW)	0.85	1.25	1.8	2.7
Rated temperature(℃)	55	55	55	55
Maximum temperature(℃)	60	60	60	60
Machine weight(kg)	25	30	48	65
Machine size(mm)	798×260×528	798×260×528	798×260×528	885×380×710
Refrigerant	R417	R417	R417	R417
Water tank weight(kg)	20/25/35	25/35/47/65	65/90	90/120
Water tank size(mm)	470*808 470*1010 470*1470	470*1010 470*1470 560*1250 560*1780	560*1780 700*1517	700*1517 700*1870
Ambient temperature(℃)	-10—45	-10—45	-10—45	-10—45
Noise	45	48	50	52

- Heating capacity: 3.4KW-10.8KW
- HITACHI(HIGHLY) flexible scroll compressor.
- Emerson ALCO expansion valve.
- The data above are tested on the ambient temperature 20℃,input water 15℃,output water 55℃.
- The meaning of the letters: L stands for the liter.

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Household heat pump water heater(Integrative Type)

- Environment protection: No pollution and waste needs to discharge in entire working cycle.
- Safety: Eliminated the problems of traditional normal water generator.
- Reliable: Service life can reach up to 15 years. Low maintenance cost.
- Economy: The running costs of a heat pump can be less than those of a traditional gas boiler heating system.
- Simple installation: It can be placed on the roof top, balcony, yard, or basement, and it doesn't need special room.
- All weather operation: Running without being effected by weather, even snow or rain.
- Modular design: We can add on more units according to user's requirement.
- Suitable for -10℃~+45℃ ambient temperature.

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Technical data:

Type	DE-100LY	DE-150LY	DE-200LY
Voltage(V)	220	220	220
Heating power(KW)	5.0	5.0	5.0
Rated power(KW)	1.25	1.25	1.25
Rated temperature(℃)	55	55	55
Maximum temperature(℃)	60	60	60
Machine weight(kg)	71	77	82
Machine size(mm)	Φ500×1570	Φ560×1630	Φ560×1770
Refrigerant	R417	R417	R417
Ambient temperature(℃)	-10—45	-10—45	-10—45
Noise	45	48	50

- Heating capacity: 5.0KW
- HITACHI(HIGHLY) flexible scroll compressor.
- Emerson ALCO expansion valve.
- The data above are tested on the ambient temperature 20℃,input water 15℃,output water 55℃.
- The meaning of the letters: L stands for the liter. Y stands for the integrative.