MEGA POOL

HEAT PUMP

STANDARD ON/OFF
HEAT PUMP

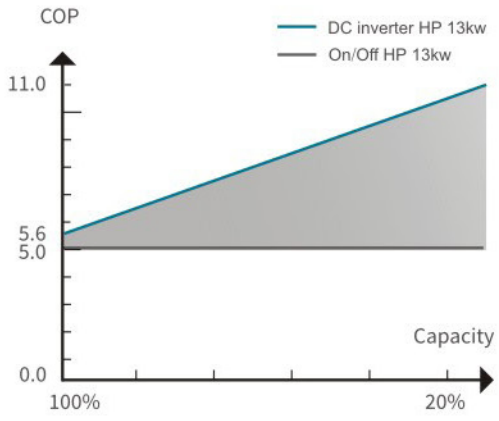
DC INVERTER

HEAT PUMP

Inverter technology makes swimming pool heat pump achieve an extremely high COP. With variable running speed basing on actual heating or cooling requirements, when pool temperature is getting close to setpoint, it heats up the pools at lower speed which offers higher COP and quieter operation. Laswim DC inverter heat pump helps to save big running cost and provides a comfortable swimming environment.

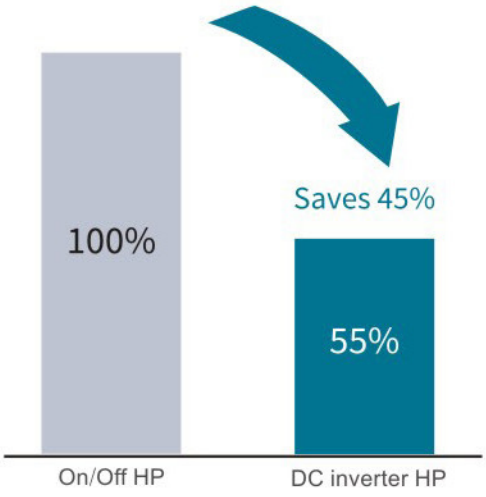
COP up to 11

- (Air 27℃/Water 27℃/Humidity 80%)
- No matter it's cold or warm, it will adjust the heating capacity according to the pool water. When running at 20%-25% speed, it reaches the highest COP 11.



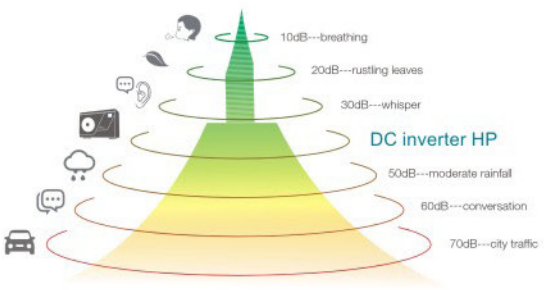
Super energy saving

- With low-speed running, DC inverter heat pump is double energy saving than traditional on/off heat pump.



Silent operation

- Thanks to the stable DC inverter control system, DC inverter compressor and variable speed ventilator, Laswim DC inverter heat pump runs very silently and provides you a comfortable swimming environment.



Smart WIFI control (Optional)

- With smart APP control, you can check and control your heat pump anytime and anywhere, all information is at your fingertips.

Other features

EEV technology

10 times flexibility to adjust the gas flow and increase COP by up to 20%.

R32 refrigerant

ECO-Friendly R32 refrigerant

Wide voltage

Self-adjustment to fit in unstable power supply, therefore voltage range can be 180—260V.

Twisted titanium heat exchanger

10% higher effciency than normal titanium heat exchanger.

Hot gas defrosting

With Saginomiya 4-way valve for quick & efficient deforesting.

Soft starter

Start from 0 Amps to rated Amps steadily. No rush to house electricity system.

0℃ ~ 43℃

Designed for down to Air 0℃ operation.

ABS casing

Anti-corrosion, anti-UV

MEGA POOL

DC INVERTER

HEAT PUMP

DC inverter heat pump technical parameters

Model	LAS07-KP-DI	LAS09-KP-DI	LAS13-KP-DI	LAS16-KP-DI	LAS20-KP-DI	LAS24-KP-DI
Preformance condition: Air 27℃/ Water 27℃/Humid.80%						
Heating capacity (kw)	7.0	9.0	13.0	16.0	20.2	24.2
COP Range	10.1~6	10.4~6.2	10.8~6.3	10.6~6.2	10.8~6.1	10.8~6.2
Average COP at 50% Speed	8.9	9.1	9.2	9.1	9.1	9.2
Performance condition: Air 15℃/ Water 26℃/Humid.70%						
Heating capacity (kw)	5.0	6.4	9.1	11.1	14.0	16.2
COP Range	6.2~4.3	6.5~4.2	6.2~4.5	6.6~4.3	6.5~4.2	6.6~4.5
Average COP at 50% Speed	5.9	6.1	6.0	6.1	6.1	6.2
Technical specifications						
Advised pool volume (m^3)	15~30	20~45	35~65	40~75	50~90	60~110
Operating air temperature (℃)	0℃~43℃					
Casing	ABS material					
Heat exchanger	Twisted Titanium Heat Exchanger					
Refrigerant	R32					
Power supply	230V/1N/50Hz					
Rated input power (kw)	0.24~1.18	0.28~1.56	0.41~2.02	0.50~2.55	0.60~3.25	0.72~3.82
Input power at 50% Speed (kw)	0.42	0.54	0.75	0.9	1.15	1.3
Rated input current (A)	1.0~5.06	1.21~6.73	1.76~8.7	2.17~11.12	2.61~14.16	3.13~16.56
Maximum input current (A)	6.5	9.5	12.5	17	19.5	20
Power cord (mm^2)	3x1.5	3x2.5	3x2.5	3x4	3x6	3x6
Sound level at 1m dB (A)	40~51.2	41.6~53.5	44~54	46.2~57.4	46.3~58.2	46.9~58.8
Sound level by 50% speed at 1m dB (A)	43.8	46.8	49.5	49.8	50.6	51.2
Sound level at 10m dB (A)	19.8~31.2	21.6~33.6	23.9~34.2	26.3~37.3	26.3~38.2	27~38.8
Advised water flux (m^3/h)	2~4	3~5	4~6	6~8	7~10	10~12
Water connection (mm)	50					
Net weight (kg)	42.8	46.8	48.9	59.9	67.8	68
Net dimension-LxWxH (mm)	872x349x654	872x349x654	872x349x654	962x349x654	962x349x754	961x420x758
Qty per 20'FT / 40'HQ (sets)	102/216	102/216	102/216	90/198	60/198	52/165

Remarks:

* The data above is only for reference. For specific data, please refer to the nameplate on the unit.

* Advised pool volume applies to a private pool with isothermal cover, from April to Spetember.

STANDARD ON/OFF

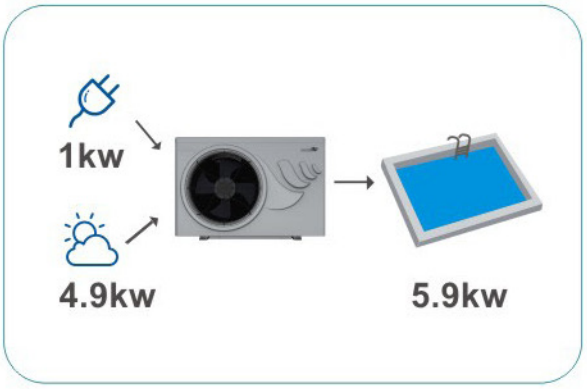
HEAT PUMP

residential standard on/off heat pump is specially designed for energy efficient pool heating, it extracts the talent heat in the air and transfers into the pool water, which helps to extend the swimming season with minimum cost. With a COP as high as 5.9, this standard on/off heat pump offers over 5 times heat power than electrical power input.

COP up to 5.9, over 5 times saving

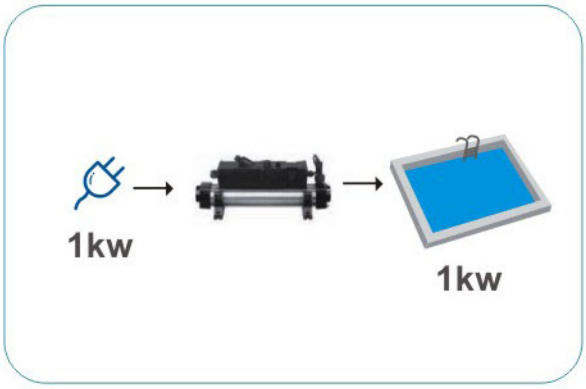
- With a COP as high as 5.9, standard on/off heat pump offers over 5 times heat power than electrical power input. Giving you exceptional performance at the minimum running cost.

Standard on/off heat pump
COP 5.9



VS

Electrical heater
COP 1



Hot gas defrosting

- With Saginomiya 4-way valve, standard on/off heat pump ca automatically and efficiently deforst by hot gas.

STANDARD ON/OFF

HEAT PUMP

Plug & Play for easy installation(Optional)

- Standard on/off heat pump can be fitted with plug and play which makes installation easy and less expensive.

Titanium heat exchanger

- Standard on/off heat pump adopts 100% titanium heat exchanger, it is excellent for all common pool chemical systems including chlorine and salt water.

Other features

- Down to 0°C running
- ECO-Friendly R32 refrigerant
- Quiet operation
- Simple LED digital controller
- Silver welding for reliable refrigerant system
- ABS casing

Standard on/off heat pump technical parameters

Model	LAS06-KP-FC	LAS08-KP-FC	LAS10-KP-FC	LAS12-KP-FC	LAS14-KP-FC	LAS17-KP-FC
Performance condition: Air 27℃/ Water 27℃/Humid.80%						
Heating capacity (kw)	6.0	8.0	9.5	12.2	14.2	16.4
C.O.P	5.9	5.5	5.8	5.6	5.6	5.5
Performance condition: Air 15℃/ Water 26℃/Humid.70%						
Heating capacity (kw)	4.0	5.5	6.4	8.0	10.0	11.5
C.O.P	4.4	4.0	4.4	4.2	4.3	4.2
Technical specifications						
Advised pool volume (m^3)	0~30	20~30	30~45	35~55	40~65	45~75
Rated input power (kw)	0.9	1.4	1.6	1.9	2.3	2.7
Rated input current (A)	4.2	6.3	7.4	8.7	10.8	12.2
Max input current (A)	6.5	7.5	9.5	12.0	14.0	15.0
Breaker (A)	8.0	9.0	12.0	15.0	17.0	18.0
Power cord (mm^2)	3x1.5	3x2.5	3x2.5	3x2.5	3x2.5	3x4
Operating air temperature (℃)	0℃~43℃					
Power supply	230V/1N/50Hz					
Heat exchanger	Titanium in PVC					
Refrigerant	R32					
Casing	ABS material					
Advised water flux (m^3/h)	2.5~3.5	3~4	4~6	4~6	5~7	6.5~8.5
Sound pressure 1m dB (A)	43.6	48.5	48.6	50.2	52.2	54.3
Sound pressure 10m dB (A)	28.4	28.5	28.6	30.2	32.2	34.2
Water connection (mm)	50	50	50	50	50	50
Net weight/Gross weight (Kg)	40/47	42/49	55/63	60/68	70/80	72/82
Net dimension - LxWxH (mm)	800x312x558	800x312x558	961x312x658	961x312x658	961x392x658	961x392x658
Qty per 20' FT/40'HQ (stes)	108/304	108/304	90/198	90/198	78/165	78/165

Remarks:

* The values indicated are valid under ideal conditions: Pool covered with an isothermal cover at night, filtration system running at least 15 hours a day.
* Above data is subject to modification without notice.

DETAILS OF HIGH QUALITY COMPONENTS

STANDARD CLIMATE RANGE AND COLD CLIMATE RANGE HEAT PUMP

Evaporator:

- With large surface for big air flow and good heat absorption.
- With great corrosion and heat resistance, COP is stable.

Intelligent electronic control system:

- Big screen controller, automatic and intelligent operation.
- Applies advanced SMT technology and ST microcomputer chip, with stable and reliable performance and powerful functions.

Dual coil Titanium heat exchanger:

- Enlarges the heat exchanging surface that increases efficiency by providing an sufficient action area.
- Effectively resists the corrosion of chloride in water.

International standard compressor:

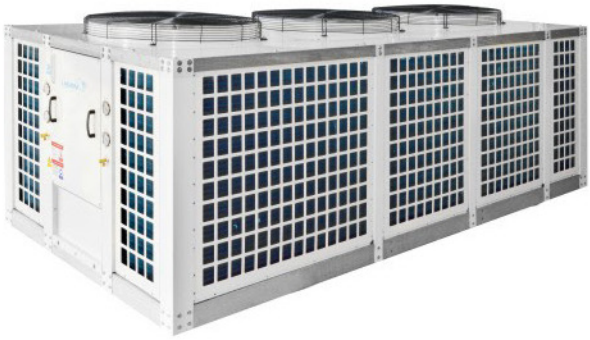
- International famous brand compressor with precise energy stage settings ensures the working unit to achieve the desired energy saving effect.

Electric expansion valve:

- The units automatically adjust the refrigerant flow rate, ensuring the units operate with high efficiency in all weather conditions.

STANDARD CLIMATE RANGE

HEAT PUMP



LAS140-KP - LAS210-KP

This series heat pump is designed with Titanium heat exchanger and is full resistance against corrosion to ensure a long life time. It is an ideal choice for swimming pool and SPA with excellent performance and energy efficiency.

Features:

- International brand components
- Water and electricity are separate for safe operation
- Super energy-saving and eco-friendly
- Various electrical protections guarantee safe operation
- Anti-rust galvanized powder coated steel housing
- Titanium in PVC heat exchanger for durable use
- Intelligent and precise control for easy operation
- Automatic defrosting

LAS18-KP - LAS26-KP

LAS35-KP - LAS52-KP

LAS70-KP - LAS100-KP

MEGA POOL

STANDARD CLIMATE RANGE

HEAT PUMP

Standard climate range heat pump tenchnical parameters

Model		LAS18-KP	LAS21-KP	LAS26-KP	LAS35-KP	LAS42-KP	LAS52-KP
Standard heating condition	Heating capacity (KW)	20.06	23.62	26.21	40.18	47.19	52.37
	COP	4.80	4.90	4.80	4.80	4.90	4.80
Low temperature heating condition	Heating capacity (KW)	13.54	16.05	17.69	27.87	32.07	35.35
	COP	3.60	3.70	3.60	3.70	3.70	3.60
Cooling condition	Cooling capacity (KW)	13.38	15.42	16.93	26.78	30.82	33.82
	EER	3.20	3.20	3.10	3.20	3.20	3.10
Power supply (V/ph/Hz)		380V/3N/50Hz					
Rated input power (KW)		4.18	4.82	5.46	8.37	9.63	10.91
Rated input current (A)		7.47	8.62	9.76	14.96	17.21	19.50
Maximum input power (KW)		5.43	6.27	7.10	10.88	12.52	14.18
Maximum input current (A)		9.71	11.20	12.69	19.45	22.38	25.35
Maximum outlet water temperature (℃)		40					
Operating air temperature (℃)		-5℃ ~ 43℃					
Heat exchanger		Titanium in PVC (The material in contact with water is titanium)					
Maximum pressure (MPa)		2.8/3.8					
Refrigerant		R22/R407C/R410A					
Air volume (30Pa) m^3/h		6500	6500	6500	13000	13000	13000
Noise Level dB(A)		≤65	≤65	≤67	≤68	≤68	≤68
Water inlet/outlet size (mm)		40	40	40	50	50	50
Circulating water flow rate (m^3/h)		5	6	7	10	12	15
Water pressure drop (kPa)		40	45	47	48	50	50
Net weight (Kg)		110	120	150	280	320	420
Dimensions (mm)		745/745/1045			1425/745/1045		

Remark :

1. Standard heating condition: 20℃ DB, 15℃ CWB, inlet water temperature 26℃ ;
2. Low temperature heating condition: 7℃ DB, 6℃ CWB, inlet water temperature 26℃;
3. Cooling condition: 35℃ DB, 27℃ CWB, inlet water temperature 32℃ ;
4. Heating capacity above 140KW is module combination ;
5. Due to the continuous improvement of products, the actual data will be subject to change, please refer to the nameplate, without prior notice.

Standard climate range heat pump tenchnical parameters

Model		LAS70-KP	LAS85-KP	LAS100-KP	LAS140-KP	LAS180-KP	LAS210-KP
Standard heating condition	Heating capacity (KW)	80.46	93.69	104.16	157.44	189.36	234.24
	COP	4.90	4.90	4.80	4.80	4.80	4.80
Low temperature heating condition	Heating capacity (KW)	54.68	63.67	70.31	106.27	127.82	158.11
	COP	3.70	3.70	3.60	3.60	3.60	3.60
Cooling condition	Cooling capacity (KW)	52.54	59.27	69.44	104.96	126.24	156.16
	EER	3.20	3.10	3.20	3.20	3.20	3.20
Power supply (V/ph/Hz)		380V/3N/50Hz					
Rated input power (KW)		16.42	19.12	21.70	32.80	39.45	48.80
Rated input current (A)		29.35	34.18	38.79	58.63	70.52	87.23
Maximum input power (KW)		21.35	24.86	28.21	42.64	51.29	63.44
Maximum input current (A)		38.16	44.43	50.43	76.22	91.67	113.40
Maximum outlet water temperature (℃)		40					
Operating air temperature (℃)		-5℃~43℃					
Heat exchanger		Titanium in PVC (The material in contact with water is titanium)					
Maximum pressure (MPa)		2.8/3.8					
Refrigerant		R22/R407C/R410A					
Air volume (30Pa) m^3/h		19500	19500	19500	60000	60000	60000
Noise Level dB(A)		≤70	≤70	≤70	≤75	≤75	≤75
Water inlet/outlet size (mm)		63	63	63	90	90	110
Circulating water flow rate (m^3/h)		20	25	30	40	50	60
Water pressure drop (kPa)		51	53	55	56	58	60
Net weight (Kg)		560	650	750	1140	1170	1250
Dimensions (mm)		2250/1035/1200			3514/1804/1350		

Remark :

1. Standard heating condition: 20℃ DB, 15℃ CWB, inlet water temperature 26℃ ;
2. Low temperature heating condition: 7℃ DB, 6℃ CWB, inlet water temperature 26℃;
3. Cooling condition: 35℃ DB, 27℃ CWB, inlet water temperature 32℃ ;
4. Heating capacity above 140KW is module combination ;
5. Due to the continuous improvement of products, the actual data will be subject to change, please refer to the nameplate, without prior notice.

COLD CLIMATE RANGE

HEAT PUMP

This series heat pump is designed for cold area, it can work with high efficiency even under -15℃ (-25℃ EVI heat pump is available on request). It is the best choice for swimming pool, SPA, sanitary hot water, house heating, etc. in cold area.

Features:

- Good adaptability, normal working temperature range: -15℃ to 43℃ working temperature range -25℃ to 43℃ is available on request
- With V shape design high efficiency evaporator
- Super energy-saving and eco-friendly
- Small footprint, flexible combination and easy installation
- Various electrical protections guarantee safe operation
- Intelligent and precise control for easy operation
- Automatic defrosting
- Anti-rust galvanized powder coated steel housing
- Titanium in PVC heat exchanger for durable use

Cold climate range heat pump technical parameters

Model		LAS35-KP-V	LAS42-KP-V	LAS52-KP-V	LAS70-KP-V	LAS85-KP-V
Standard condition	Heating capacity (KW)	38.2	43.6	53.9	76.4	91.6
	COP	4.9	4.9	4.9	4.9	4.9
Low temperature heating condition 1	Heating capacity (KW)	28.2	32.1	39.7	56.3	67.5
	COP	3.8	3.8	3.8	3.8	3.8
Low temperature heating condition 2	Heating capacity (KW)	21.8	24.8	30.7	43.5	52.2
	COP	3.0	3.0	3.0	3.0	3.0
Low temperature heating condition 3	Heating capacity (KW)	16.1	18.4	22.8	32.3	38.7
	COP	2.3	2.3	2.3	2.3	2.3
Cooling condition	Cooling capacity (KW)	20.4	23.2	28.7	40.7	48.8
	COP	2.9	2.9	2.9	2.9	2.9
Power supply (V/ph/Hz)		380V/3N/50Hz				
Rated input power (KW)		7.8	8.9	11.0	15.6	18.7
Rated input current (A)		13.5	15.4	20.4	27.2	32.7
Maximum input power (KW)		11.3	12.9	16.0	22.6	27.1
Maximum input current (A)		19.5	22.3	29.6	39.5	47.4
Maximum outlet water temperature (℃)		40				
Operating air temperature (℃)		-15℃~43℃				
Heat exchanger		Titanium in PVC heat exchanger				
Maximum pressure (MPa)		2.8				
Refrigerant		R22/R407C/R410A				
Air volume (30Pa) m^3/h		13000	13000	13000	16000	24000
Noise Level dB(A)		≤63	≤63	≤63	≤65	≤68
Water inlet/outlet size (mm)		50	50	50	63	63
Circulating water flow rate (m^3/h)		10	12	15	20	25
Water pressure drop (kPa)		40	40	40	45	45
Net weight (Kg)		350	380	420	580	650
Dimensions	Length (mm)	1510	1510	1510	1700	1860
	Width (mm)	910	910	910	960	1060
	Height (mm)	1780	1780	1780	1980	2170

Remark :

1. Standard heating condition: 20℃ DB, 15℃ CWB, inlet water temperature 26℃;
2. Low temperature heating condition 1: 2℃ DB, 0℃ CWB;
3. Low temperature heating condition 2: -6℃ DB, -7℃ CWB;
4. Low temperature heating condition 3: -12℃ DB, -14℃ CWB, inlet water temperature 26℃;
5. Cooling condition: 35℃ DB, 24℃ CWB, inlet water temperature 32℃;
6. Heating capacity above 140KW is module combination.
7. Due to the continuous improvement of products, the actual data will be subject to change, please refer to the nameplate, without prior notice.

MEGA POOL

COLD CLIMATE RANGE

HEAT PUMP

Cold climate range heat pump technical parameters

		LAS5105-KP-V	LAS140-KP-V	LAS180-KP-V	LAS260-KP-V	LAS340-KP-V	LAS430-KP-V
Standard condition	Heating capacity (KW)	106.8	150.9	183.3	274.9	366.5	458.2
	COP	4.9	4.9	4.9	4.9	4.9	4.9
Low temperature heating condition 1	Heating capacity (KW)	78.7	111.2	135.0	202.5	270.0	337.5
	COP	3.8	3.8	3.8	3.8	3.8	3.8
Low temperature heating condition 2	Heating capacity (KW)	60.8	85.9	104.3	156.5	208.7	260.9
	COP	3.0	3.0	3.0	3.0	3.0	3.0
Low temperature heating condition 3	Heating capacity (KW)	45.1	63.8	77.4	116.1	154.8	193.5
	COP	2.3	2.3	2.3	2.3	2.3	2.3
Cooling condition	Cooling capacity (KW)	56.9	80.4	97.6	146.4	195.2	244.0
	COP	2.9	2.9	2.9	2.9	2.9	2.9
Power supply (V/ph/Hz)		380V/3N/50Hz					
Rated input power (KW)		21.8	30.8	37.4	56.1	74.8	93.5
Rated input current (A)		38.1	58.5	65.3	98.0	130.6	163.3
Maximum input power (KW)		31.6	44.7	54.2	81.3	108.5	135.6
Maximum input current (A)		55.2	84.8	94.7	142.1	189.4	236.8
Maximum outlet water temperature (℃)		40					
Operating air temperature (℃)		-15℃~43℃					
Heat exchanger		Titanium in PVC heat exchanger					
Maximum pressure (MPa)		2.8					
Refrigerant		R22/R407C/R410A					
Air volume (30Pa) m^3/h		31000	35000	48000	72000	96000	120000
Noise Level dB(A)		≤71	≤75	≤76	≤79	≤82	≤85
Water inlet/outlet size (mm)		63	63	75	90	90	110
Circulating water flow rate (m^3/h)		30	40	50	75	100	125
Water pressure drop (kPa)		45	48	50	50	50	50
Net weight (Kg)		720	790	1300	1950	2600	3250
Dimensions	Length (mm)	1860	2280	1860	1860	1860	1860
	Width (mm)	1180	1180	2120	3180	4240	5300
	Height (mm)	2350	2350	2170	2170	2170	2170

Remark :

1. Standard heating condition: 20℃ DB, 15℃ CWB, inlet water temperature 26℃;
2. Low temperature heating condition 1: 2℃ DB, 0℃ CWB;
3. Low temperature heating condition 2: -6℃ DB, -7℃ CWB;
4. Low temperature heating condition 3: -12℃ DB, -14℃ CWB, inlet water temperature 26℃;
5. Cooling condition: 35℃ DB, 24℃ CWB, inlet water temperature 32℃;
6. Heating capacity above 140KW is module combination.
7. Due to the continuous improvement of products, the actual data will be subject to change, please refer to the nameplate, without prior notice.

DETAILS OF HIGH QUALITY COMPONENTS

MULTIFUNCTION DEHUMIDIFIER

High quality compressor

- International famous brand, with precise energy stage settings, ensures the working unit to achieve the desirable energy saving effect, high efficiency, durable and quiet operation.

Titanium in PVC heat exchanger

- With excellent corrosion resistance and good heat exchange effect.

Refrigerant

- Environmental friendly refrigerant R407C or R410A, no greenhouse effect and ozone destruction.

Hydrophilic aluminum foil evaporator

- Applies ripple high-efficiency fin with excellent heat exchanging effect, corrosion resistance and long life time.

DETAILS OF HIGH QUALITY COMPONENTS

MULTIFUNCTION DEHUMIDIFIER

Colorful touch screen

- IP 65 colorful touch screen, can be remotely control via the internet, easy to operate and manage.

Outdoor condenser

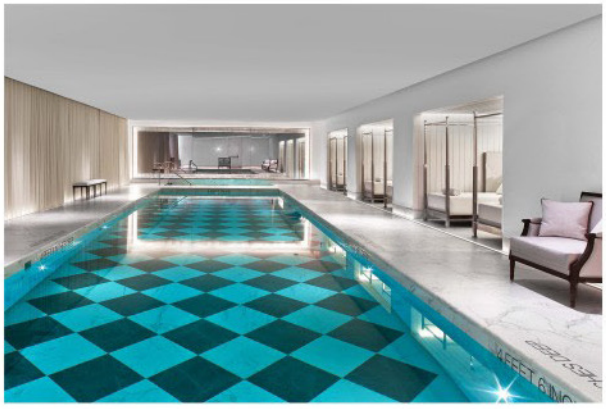
- The standard outdoor condenser is air cooled condenser, water cooled condenser is available according to the project requirement.

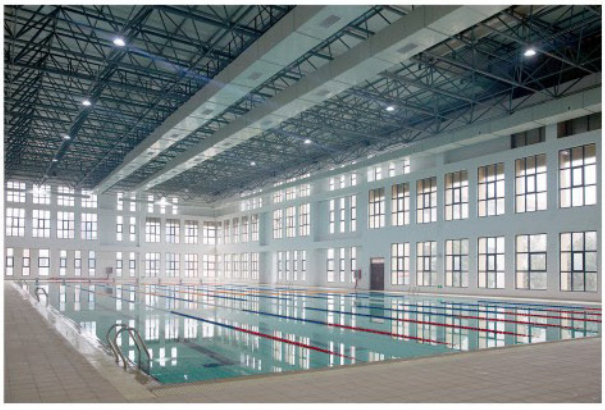
Detachable modular integrated design

- The panel is made of galvanized steel, embedded with fire-proof, sound-proof and insulatiom materials, and with anti-corrosion treatment (epoxy coating). The base adopts channel steel and the frame adopts anti-cold bridge aluminum alloy, which is aesthetic and convenient to disassemble and maintain.

Removable and washable aluminum alloy air filter

- Return air and fresh air system is equipped with detachable, non-toxic, non-allergic and bacteria-resistant aluminum alloy mesh filter, with high filtering precision and efficiency.





MULTIFUNCTION DEHUMIDIFIER

multifunction dehumidifier heat pump combines dehumidification, heat recovery, pool water heating, intelligent ventilation, pool room cooling & heating in one unit by precise integration control. It can sufficiently control indoor relative humidity, air temperature and water temperature in a desirable range. Advanced intelligent ventilation control is also designed to maintain high quality and comfortable indoor environment.

Construction Features:

- Applies both supply & return fans and adjustable air valves for precise control.
- Compressor, pool water heater and control system are isolated from corrosive air.
- Water and electricity are completely separate.
- Modular structure and aesthetic appearance.
- Low charge refrigerant system fully factory tested and sealed.
- Strong corrosion resistance design and components.
- Optional: applies plasma sterilization and AOT(Advanced Oxygenation Technology) to remove the DBPs (disinfection byproducts) and VOCs (Volatile Organic Compounds).

Operational features:

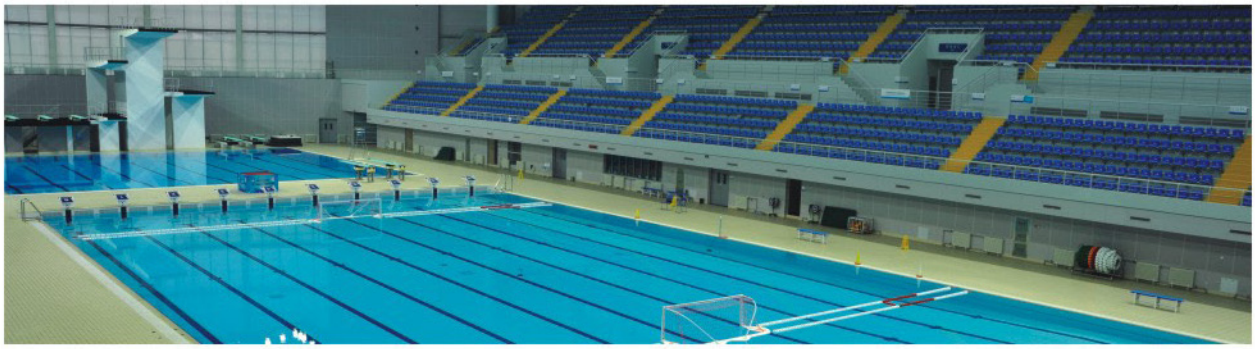
- Active airflow monitor and control.
- Recycles heat energy from return air and supplies to room air and pool water.
- Modulating reheat for steady, precise control of both full and part-load conditions.
- Wall condensate prevention.
- Active refrigerant system performance monitoring and control.
- Multiple protection system, safe and reliable.
- Dehumidification capacity: 16-262kg/h.

MEGA POOL

MULTIFUNCTION DEHUMIDIFIER

Multifunction dehumidifier technical parameters

Model		LAS15-D	LAS20-D	LAS25-D	LAS30-D	LAS40-D	LAS50-D
Dehumidification capacity (kg/h)		16	22	26	32	41	51
Total heat capacity (kw)		28	38	48	54	76	95
Evaporator cooling capacity (kw)		24	32	41	45	64	81
Standard air volume (m³/h)		4500	5500	7000	9000	10500	12000
Standard static pressure (Pa)		300	300	300	350	350	350
Power supply (V/P/Hz)		380V/3N/50Hz					
Rated input power (kw)		8.7	10.8	13.4	16.1	20.1	25
Rated input current(A)		25	31	38	46	57	71
Weight(Kg)		600	900	900	1300	1600	1750
Dimension	L(mm)	4250	4450	4450	4650	5070	5070
	W(mm)	1135	1135	1335	1335	1535	1735
	H(mm)	1170	1370	1370	1370	1370	1370
Fan system							
Fan quantity		2	2	2	2	2	2
Fan type		Centrifugal					
Full pressure (Pa)		100~750 is customizable					
Fan motor input power (kw)		2.2	2.2	3.0	4.0	4.0	5.5
Compressor							
Compressor type		1	1	1	1	2	2
Compressor quantity		Scroll					
Compressor input power (kw)		5.3	7.2	9	10.1	14.3	18
Surface air cooler (optional)							
Surface air cooler input power (kw)		20	25	30	50	60	60
Water flow volume(m³/h)		3.4	4.3	5.2	8.6	10.3	10.3
Surface air cooler pressure drop (kPa)		30	33	34	38	40	40
Inlet/Outlet pipe dimension (mm)		DN25	DN40	DN40	DN40	DN40	DN40
Pool water condenser							
Pool water heat exchanger type		Titanium shell and tube type					
Standard work pressure resistance (MPa)		0.4	0.4	0.4	0.4	0.4	0.4
Water pressure drop (kPa)		28	30	33	35	37	38
Max water temperature (℃)		40	40	40	40	40	40
Water flow volume (m³/h)		6	8	10	12	18	20
PVC water inlet/outlet size (mm)		40	50	50	50	63	63
Outdoor condenser quantity		1	1	1	1	2	2
Outdoor condenser		LAS6P	LAS8P	LAS10P	LAS12P	LAS6P+LAS10P	LAS10Px2



Multifunction dehumidifier technical parameters

Model		LAS60-D	LAS80-D	LAS100-D	LAS125-D	LAS140-D	LAS160-D
Dehumidification capacity (Kg/h)		62	84	102	126	143	163
Total heat capacity (KW)		107	147	188	267	317	335
Evaporator cooling capacity (KW)		91	125	159	227	269	284
Standard air volume (m³/h)		14800	18000	23000	29000	31000	34000
Standard static pressure (Pa)		350	400	400	450	450	450
Power supply (V/P/Hz)		380V/3N/50Hz					
Rated power input (KW)		30.2	39.8	57.8	75.2	80.8	87.2
Rated current (A)		86	113	149	203	230	248
Weight (Kg)		1950	2300	2600	2800	3100	3400
Dimension	L (mm)	5370	5870	6400	6835	6935	7435
	W (mm)	1735	1735	2070	2070	2150	2270
	H (mm)	1670	1990	1990	2320	2320	2520
Fan system							
Fan quantity		2	2	2	2	2	2
Fan type		Centrifugal					
Full pressure (Pa)		100~750 is customizable					
Fan motor input power (KW)		7.5	7.5	11	15	15	15
Compressor							
Compressor type		2	2	2	2	2	2
Compressor quantity		Scroll					
Compressor input power (KW)		20.2	27.8	40.8	54.2	59.8	63.2
Surface air cooler (optional)							
Surface air cooler input power (KW)		80	120	120	160	180	200
Water flow volume (m³/h)		13.8	20.7	20.7	27.6	31.0	34.4
Surface air cooler pressure drop (kPa)		42	45	45	48	49	49
Inlet/Outlet pipe dimension (mm)		DN50	DN65	DN65	DN65	DN65	DN80
Pool water condenser							
Pool water heat exchanger type		Titanium shell and tube type					
Standard work pressure resistance (MPa)		0.4	0.4	0.4	0.4	0.4	0.4
Water pressure drop (kPa)		41	44	45	47	48	50
Max water temperature (℃)		40	40	40	40	40	40
Water flow volume (m³/h)		24	32	45	50	55	65
PVC water inlet/outlet size (mm)		63	90	110	110	110	110
Outdoor condenser quantity		2	2	2	2	2	2
Outdoor condenser		LAS12Px2	LAS12P+LAS20P	LAS15P+LAS25P	LAS25Px2	LAS25P+LAS30P	LAS25P+LAS40P

Outdoor condenser technical parameter

Model		LAS6P	LAS10P	LAS12P	LAS15P	LAS20P	LAS25P	LAS30P
Standard cooling capacity (KW)		30	45	52	65	86	108	129
Refrigerant inlet/outlet copper tube external diameter (mm)		Φ22/Φ19.05	Φ22/Φ19.05	Φ22/Φ19.05	Φ28/Φ22	Φ35/Φ28	Φ35/Φ28	Φ35/Φ28
Standard air volume (m³)		6500	13000	13000	19000	21000	27000	40500
Standard fan quantity		1	2	2	2	2	2	3
Power supply (V/P/Hz)		380V/3N/50Hz						
Motor rated power (KW)		0.42	0.32×2	0.32×2	0.55×2	0.85×2	1.05×2	0.85×2
Weight (Kg)		80	170	198	225	245	260	335
Outdoor condenser dimension	L (mm)	745	1680	1680	1740	2000	2300	2440
	W (mm)	745	910	910	990	1070	1070	1070
	H (mm)	1045	880	980	1060	1200	1280	1380

MULTIFUNCTION DEHUMIDIFIER

Multifunction dehumidifier technical parameters

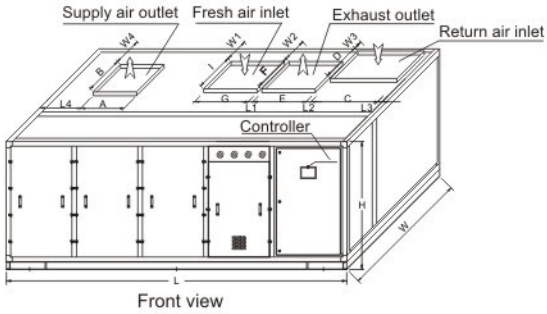
Model		LAS180-D	LAS200-D	LAS230-D	LAS260-D	LAS300-D
Dehumidification capacity (Kg/h)		182	202	243	262	303
Total heat capacity (KW)		431	383	436	526	574
Evaporator cooling capacity (KW)		366	325	370	447	487
Standard air volume (m³/h)		39000	42000	48000	54000	62000
Standard static pressure (Pa)		450	500	500	500	600
Power supply (V/P/Hz)		380V/3N/50Hz				
Rated power input (KW)		106.1	103	118.7	139.1	161.3
Rated current (A)		302	293	338	396	460
Weight (Kg)		3600	3750	3900	4100	4500
Dimension	L (mm)	7735	7735	8035	8535	9170
	W (mm)	2570	2670	2670	2870	2870
	H (mm)	2520	2520	2820	2820	2820
Fan system						
Fan quantity		2	2	2	2	2
Fan type		Centrifugal				
Full pressure (Pa)		100~750 is customizable				
Fan motor input power (KW)		15	18.5	22	22	30
Compressor						
Compressor type		3	2	3	3	3
Compressor quantity		Scroll				
Compressor input power (KW)		81.3	72.2	82.3	99.3	108.3
Surface air cooler (optional)						
Surface air cooler input power (KW)		240	300	330	360	380
Water flow volume (m³/h)		41.3	51.6	56.8	61.9	65.3
Surface air cooler pressure drop (kPa)		51	52	54	56	56
Inlet/Outlet pipe dimension (mm)		DN80	DN100	DN100	DN100	DN80
Pool water condenser						
Pool water heat exchanger type		Titanium shell and tube type				
Standard work pressure resistance (MPa)		0.4	0.4	0.4	0.4	0.4
Water pressure drop (kPa)		51	52	53	55	57
Max water temperature (℃)		40	40	40	40	40
Water flow volume (m³/h)		75	80	92	105	120
PVC water inlet/outlet size (mm)		110	110	160	160	160
Outdoor condenser quantity		3	2	3	3	3
Outdoor condenser		LAS25P×3	LAS40P×2	LAS12P+LAS40P×2	LAS25P+LAS40P×2	LAS40P×3

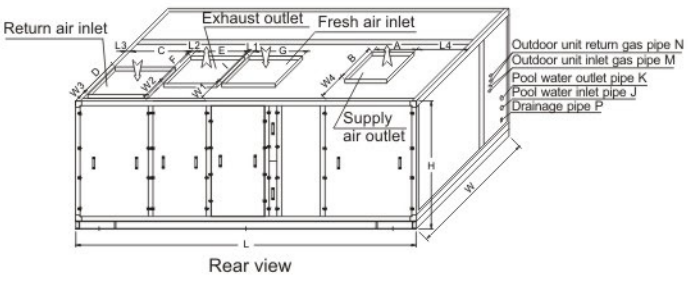
Remark:

- Testing condition: ambient air temperature in the swimming pool 29℃, relative humidity 60%~70%, water temperatureof the swimming pool 27 ℃. Pool water condenser inlet water temperature 27℃, outlet water temperature 29℃.
- If cooling or heating capacity is insufficient, surface air cooler auxiliary cooling or heating equipment can be selected and designed according to calculation.
- Static pressure can be adjusted as needed.
- Water-cooled condenser is available as outdoor condenser according to user's requirements.
- The unit structure can be split structure according to user's requirements.
- Dehumidification capacity of 200kg/h is modular structure.
- Due to continuous development, the right to alter specifications without notices is reserved.

Multifunction dehumidifier dimension chart

LAS15-D~LAS100-D





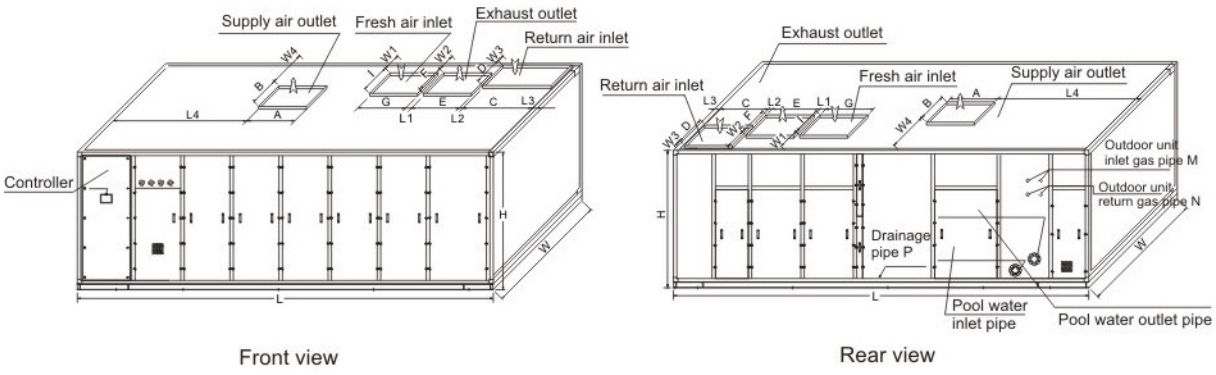
Model	L (mm)	W (mm)	H (mm)	Supply air outlet AxB(mm)	Return air inlet CxD(mm)	Exhaust outlet ExF(mm)	Fresh air inlet GxI(mm)
LAS15-D	4250	1135	1170	280×280	500×400	300×200	300×200
LAS20-D	4450	1135	1370	320×320	500×500	300×200	300×200
LAS25-D	4450	1335	1370	360×360	650×500	300×300	300×300
LAS30-D	4650	1335	1370	400×400	850×500	300×300	300×300
LAS40-D	5070	1535	1370	450×450	800×600	500×300	500×300
LAS50-D	5070	1735	1370	500×500	930×600	500×300	500×300
LAS60-D	5370	1735	1670	560×560	850×800	700×300	700×300
LAS80-D	5870	1735	1990	560×560	1050×800	500×500	500×500
LAS100-D	6400	2070	1990	630×630	1350×800	700×500	700×500
LAS125-D	6835	2070	2320	710×710	1400×950	800×500	800×500
LAS140-D	6935	2150	2320	710×710	1400×950	800×500	800×500
LAS160-D	7435	2270	2520	800×800	1650×950	800×600	800×600
LAS180-D	7735	2570	2520	900×900	1900×950	800×600	800×600
LAS200-D	7735	2670	2520	900×900	1850×1050	800×800	800×800
LAS230-D	8035	2670	2820	900×900	1850×1200	800×800	800×800
LAS260-D	8535	2870	2820	1000×1000	2100×1200	1000×800	1000×800
LAS300-D	9170	2870	2820	1000×1000	1950×1500	1000×900	1000×900

Above dimensions are subject to the final layout.

MULTIFUNCTION DEHUMIDIFIER

Multifunction dehumidifier dimension chart

LAS120-D~LAS300-D



Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W4 (mm)	Pool circulating water outlet size K.J(mm)	Refrigerant outlet size N(mm)	Refriegrant inlet size M(mm)	Condensate drainage outlet P(mm)
LAS15-D	100	100	50	140	250	250	50	280	50	Φ22	Φ19.05	DN25
LAS20-D	100	100	50	465	250	250	50	355	50	Φ22	Φ19.05	DN25
LAS25-D	100	100	50	500	250	250	50	360	50	Φ22	Φ19.05	DN25
LAS30-D	100	100	50	460	250	250	50	390	50	Φ28	Φ22	DN25
LAS40-D	100	100	50	490	250	250	50	360	63	Φ22×2	Φ19.05×2	DN25
LAS50-D	100	100	50	480	250	250	50	460	63	Φ22×2	Φ19.05×2	DN25
LAS60-D	100	100	50	570	250	250	50	540	63	Φ22+Φ28	Φ19.05+Φ22	DN25
LAS80-D	100	100	50	600	250	250	50	500	90	Φ28+Φ35	Φ22+Φ28	DN25
LAS100-D	100	100	50	660	250	250	50	450	110	Φ35×2	Φ28×2	DN40
LAS125-D	100	100	50	670	300	300	50	670	110	Φ35×2	Φ28×2	DN40
LAS140-D	100	100	50	670	300	300	50	670	110	Φ35×2	Φ28×2	DN40
LAS160-D	100	100	50	810	300	300	50	620	110	Φ35×3	Φ28×3	DN40
LAS180-D	100	100	50	810	300	300	50	620	110	Φ35×3	Φ28×3	DN40
LAS200-D	100	100	50	810	300	300	50	620	110	Φ35×3	Φ28×3	DN40
LAS230-D	100	100	50	810	300	300	50	620	160	Φ35×4	Φ28×4	DN40
LAS260-D	100	100	50	810	300	300	50	620	160	Φ35×4	Φ28×4	DN40
LAS300-D	100	100	50	1100	350	350	50	700	160	Φ35×4	Φ28×4	DN40

Above dimensions are subject to the final layout.

WALL-MOUNTED DEHUMIDIFIER

Features:

- Ultra-low noise fan combined with advanced air-guide for low noise operation.
- Classic design appearance in white color is elegant and generous.
- With a newly designed controller the operation is simple and humanized.
- High moisture extraction but low power consumption.
- Many options for flexible installation.
- International brand compressor, stable performance, durable and strong dehumidification effect.

Wall-mounted dehumidifier technical parameters

Model		LAS5-DW	LAS6-DW	LAS8-DW	LAS12-DW
Dehumidification capacity (kg/h)		5.2	6.3	8.4	12.2
Applicable area (m²)		130-180	150-190	190-240	350-500
Power supply (V/P/Hz)		220V/1N/50Hz, 380V/3N/50Hz			380V/3N~/50Hz
Rated input power (W)		2100	2600	3400	4900
Applicable temperature (℃)		5~38			
Air flow (m³/h)		1600	1900	2400	3600
Drainage method		Use hose connection, continuous drainage			
Condensate drainage outlet (mm)		DN20	DN20	DN20	DN20
Dimension	L (mm)	1100	1100	1260	1580
	W (mm)	345	345	345	345
	H (mm)	950	950	950	950
Weight (kg)		45	48	66	78

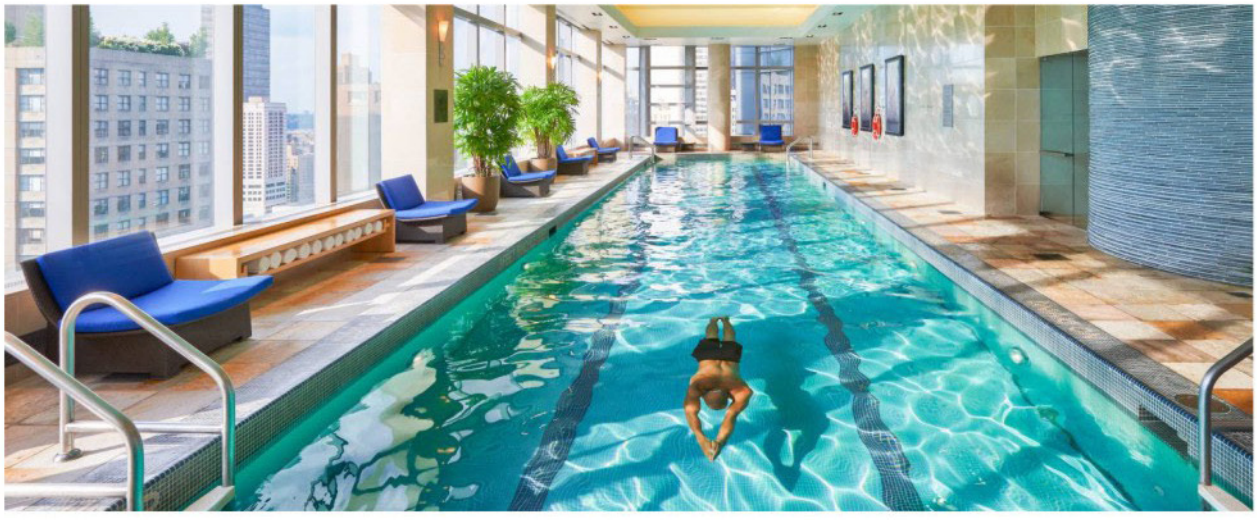
MOVEABLE DEHUMIDIFIER

Features:

- Micro-computer fully automatic control.
- Nice design with plastic-steel shell, strong and reliable quality.
- Ultra-low noise fan combined with advanced air-guide technology for low noise operation.
- Unique humidity adjustment function, humidity can be set to a certain range.
- The operational cost is very low due to its good performance.
- International brand compressor, stable performance, durable and strong dehumidification effect.

Movable dehumidifier technical parameters

Model		LAS7-DG	LAS8-DG	LAS10-DG	LAS12-DG	LAS15-DG	LAS20-DG	LAS25-DG	LAS30-DG	LAS35-DG
Dehumidification capacity (kg/h)		7.1	8.3	10.2	12.4	15.6	20.3	25.2	30.7	35.6
Applicable area (m^2)		170-200	190-240	260-350	350-500	400-600	500-700	550-750	650-800	700-850
Power supply (V/P/Hz)		380V/3N/50Hz								
Rated input power (W)		2800	3100	4000	4900	6200	8100	9500	12300	14000
Applicable temperature (℃)		5~38								
Air flow (m^3/h)		2100	2400	3000	3600	4500	6000	7500	9000	9900
Drainage method		Use hose connection, continuous drainage								
Condensate drainage outlet (mm)		DN20	DN20	DN20	DN20	DN20	DN25	DN25	DN25	DN25
Dimension	L(mm)	620	790	790	790	1210	1210	1210	1450	1450
	W (mm)	420	480	480	480	480	480	480	480	480
	H (mm)	1830	1930	1930	1930	1980	1980	2180	2180	2180
Weight (kg)		105	130	160	190	280	310	335	450	480




MEGA POOL


MEGA POOL

NOVEMBRE 2019