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Note: Product design and specification subject to change without prior notice.

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Hisense

HISENSE EU LCAC

CATALOG 2023



Hisense

GLOBAL LCAC

Hisense LCAC is committed to providing customers with more reliable and more efficient products, and adheres to uniform high-quality standards for products to different countries and regions around the world.



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HISENSE CLUB

Better Training and Service

Hisense HVAC Italian Training Center, located in Milan, Italy, Europe, is an AAAAA Hisense training center all over the world, where showing and training products include RAC, FM, LCAC, VRF, ATW, DHW, etc. The training center conducts online and face-to-face training for customers all over Europe. The exhibition area of the training center will display Hisense's latest HVAC products and technologies.



Tools

Hi-Checker 1.0

Kit Checker naming Service Window is small and easy to carry. It can help us diagnose and resolve common problems at low cost and quickly.



Hi-Checker 2.0

PC Checker can check the air conditioners professionally and comprehensively, and all parameters of the machine can be monitored in real time. Relevant data can be recorded, stored and reproduced.



Hi-Checker 3.0

APP Checker Combines the advantages of Kit Checker and PC Checker. We can check and troubleshoot the operation of the machine through the APP installed on the mobile phone. This solution is easy for users to carry, record and communicate with each other.



REFERENCE PROJECT LIST

Hisense LCAC products are sold in Italy, Spain, Portugal, Germany, France, Netherlands, Belgium, Austria, Serbia, Poland, Czech Republic, Bulgaria, Greece, Ukraine, Romania and many other countries. We have won more and more customers with LCAC reliable operation.



Firenze, Italy.

Light Commercial duct and cassette in the restaurant and living areas, RAC in the dressing rooms.



Rimini, Italy.

RAC installation mixed with Light Commercial duct and cassette.



Córdoba, Spain.

130 flats developed by Kronos Homes and called "Tribeka".



Málaga, Spain.

80 flats developed by Voltiam.



Belgrade, Serbia.

The Plot 21a of the Belgrade Waterfront.



Kolasin, Montenegro.

Hotel Bianca Resort & Spa.



Warsaw, Poland.

Delicatessen downtown.



Bucharest, Romania.

In cooperation with mit clima.



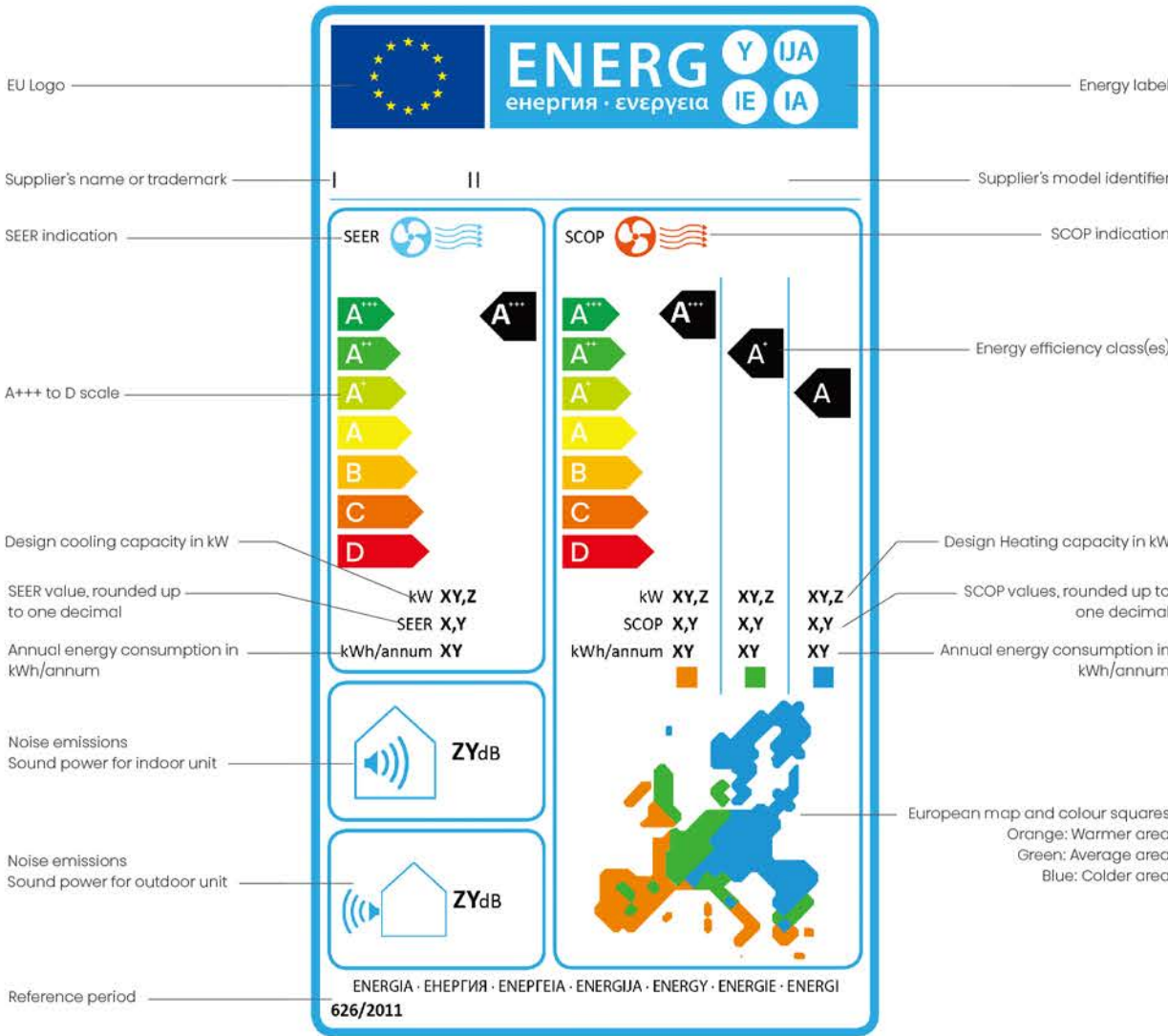
Solingen, Germany.

Machine hall with historic steam engine.

ENERGY LABEL

To enable consumers to compare and make purchasing decisions based on uniform labelling criteria, Europe has introduced energy labels. The previous European energy label for air conditioners, introduced in 1992, did its job for the time. In 2013, Europe introduced a seasonal energy label. This label allows end users to make even more informed choices, since seasonal efficiency reflects air conditioner efficiency over an entire season.

The energy label includes multiple classifications from A+++ to D, reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the label not only includes the seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and noise levels.



CONDITIONS & CONVERSION

Cooling

EER test:
Indoor temperature 27°CDB, 19°CWB
Outdoor temperature 35°CDB.

SEER Test:

Condition	Part Load Ratio	Outdoor Air Dry Bulb Temperature °C	Indoor Air Dry Bulb (Wet Bulb) Temperature °C
A	100%	35	27 (19)
B	74	30	27 (19)
C	47	25	27 (19)
D	21	20	27 (19)

Heating

COP test:
Indoor temperature 20°CDB Outdoor temperature 7°CDB, 6°CWB.

SCOP Test:

Condition	Part Load Ratio In %			Outdoor Heat Exchanger Inlet dry (wet) bulb temperature °C	Indoor Heat Exchanger Indoor air dry bulb temperature °C
	A	W	C		
A	88	NA	61	-7(-8)	20
B	54	100	37	2(1)	20
C	35	64	24	7(6)	20
D	15	29	11	12(11)	20
E	(TOL - 16) / (Tdesignh - 16)			TOL	20
F	(Tbiv - 16) / (Tdesignh - 16)			Tbiv	20
G	NA	NA	82	-15	20

Sound Level

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks). The sound power level is an absolute value indicating the "power" which a sound source generates. For more detailed information please consult our technical databooks.



Conversion Data

- kW x 3412 = btu/h
- °C x 1.8 + 32 = °F
- bar x 14.51 = psi
- m2 x 10.76 = ft2
- l/s x 3.6 = m3/h

Pipe Size

- 1/4in = 6.35mm
- 3/8in = 9.52mm
- 1/2in = 12.70mm
- 5/8in = 15.88mm
- 3/4in = 19.05mm
- 7/8in = 22.22mm
- 1 1/8in = 28.58mm
- 1 3/8in = 34.93mm



6 REASONS FOR HISENSE LCAC

1 Full Outdoor Line Up

System	Type	Model	Product Name	9K	12K	14K	18K	21K	24K	36K	42K	48K	60K	75K	85K
				26	35	40	52	60	71	105	125	140	160	200	250
Air To Air		Turbo Inverter R32 *High Efficiency SEER up to 7.5, SCOP up to 4.6 *Deep Cool *Pair, twin, triple, quadruple *Max piping 100m in T1 climate *Service Window *Average and Warmer SCOP available	AUW##8												
		Super Inverter R32 *Very compact outdoor units for easy installation *Balance of efficiency and cost *Max piping 50m *Service Window *Average and Warmer SCOP available	AUW##7												

2 Full Indoor Line Up

Hisense can offer many kinds of indoor unit, including 600*600 Compact Cassette, 900*900 Round Flow Cassette, Console Standing, Ceiling Suspended, H190mm Slim Duct, 150Pa MSP Duct, 200Pa HSP Duct, 250Pa HSP Duct, Floor Standing.



600*600
Compact Cassette



H190mm Slim Duct



900*900
Round Flow Cassette



150Pa MSP Duct



Console Standing



200Pa HSP Duct



Ceiling Suspended



250Pa HSP Duct



Floor Standing

* Hisense 1-way Cassette is on pre-developing.

3 Higher Efficiency

- SEER up to 7.50, A++ level for cooling
- Average SCOP up to 4.60, A++ level for heating
- Warmer SCOP up to 5.35, A+++ level for heating
- EER up to 4.41 W/W in full load
- COP up to 4.50W/W in full load

Indoor	Outdoor	SEER	SCOP-a	SCOP-w
ACT-14UR4RCC8	AUW-14U4RJ8	A++	A+	A+++
ACT-18UR4RCC8	AUW-18U4RJ8	A++	A+	A+++
AUC-14UR4RJC8	AUW-14U4RJ8	A++	A++	A+++
AUC-18UR4RJC8	AUW-18U4RJ8	A++	A++	A+++
ACT-21UR4RJC8	AUW-21U4RK8	A++	A++	A+++
ACT-24UR4RJC8	AUW-24U4RK8	A++	A++	A+++
AUC-36UR4RKC8	AUW-36U6RN8	A++	A+	A+++
AUC-42UR4RKC8	AUW-42U6RN8	245%	173%	209%
AUC-48UR4RKC8	AUW-48U6RN8	240%	173%	209%
ADT-14UX4RCL8	AUW-14U4RJ8	A++	A++	A+++
ADT-18UX4RCL8	AUW-18U4RJ8	A++	A++	A+++
AUD-75UX4RPH8	AUW-75U6RZ8	237%	153%	193%
AUD-85UX4RPH8	AUW-85U6RZ8	230%	153%	193%
AUV-42UR4RC8	AUW-42U6RN8	237%	169%	209%
AUV-48UR4RC8	AUW-48U6RN8	225%	169%	209%

5 Faster and Flexible Installation

- Easy Cardboard for Compact Cassette, Cassette, Ceiling Suspended, and Console units, can help install the indoor unit fast.
- The double 3-way stop valves, not matter built inside or outside, can help to vacuum fast.
- Compact design of the indoor units and outdoor units can help to carry and install easily. The compact cassette is only 15.5kg and 215mm height to be NO. 1 in class.
- The suction grille can be adjusted in any direction. And the appearance looks just the same.
- Rear suction and bottom suction of duct unit can be adjusted in the project site.

6 Smart and More Comfort

- 888 hidden display gives the precision of control is 0.5℃ and the precision of display is 0.1℃.
- Individual airflow can be controlled by the wired controller or the remote controller.
- The display panel will flash in the direction of individual control airflow.
- Connect Life WiFi Control.
- It has On/Off models 1 to 7 to meet different kinds of input control demand.
- Smart eye can detect the people in each of the 4 areas. When there are no people in a room, the system automatically change to energy saving mode.
- Round Flow can get better air supply and outlet temperatures

4 Top Stability

- Ensure voltage fluctuation stability down to 176V.
- Ensure reliability in ultra-low temperature and long piping by testing compressor oil viscosity.
- Ensure PCB heat transfer reliability by the PCB refrigerant cooling design. Outdoor temperature can reach up to 52℃.
- Ensure drainage reliability by standard float switch for Slim Duct, MSP Duct, HSP Duct, Compact Cassette and Cassette.
- Ensure drainage smooth by standard built-in pump for Slim Duct, MSP Duct, HSP Duct, Compact Cassette and Cassette.
- Ensure the system not exceed the design pressure by high pressure protector and low pressure protector.
- Ensure no dripping in high humidity conditions by anti-condensation smart control.
- Ensure no overflow from the drain pan by the big drain pan design, when the water from the drain pipe is returned in suddenly power off.
- Ensure the stability in extra-low heating by compressor E-heater and bottom e-heater.

SLIM DUCT

Slim Design

Slim duct unit, from 2.5kW to 7.0kW, have the height of only 190mm.

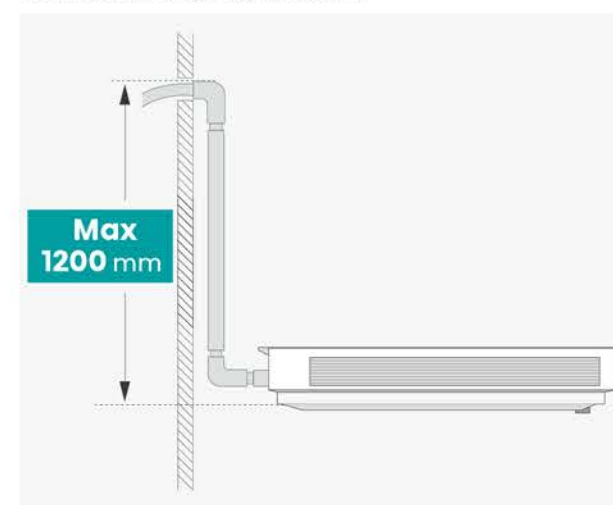


MODEL	W*H*D (mm)
9K	910*190*447
12K	910*190*447
14K	1180*190*447
18K	1180*190*447

Inner High Lift Pump

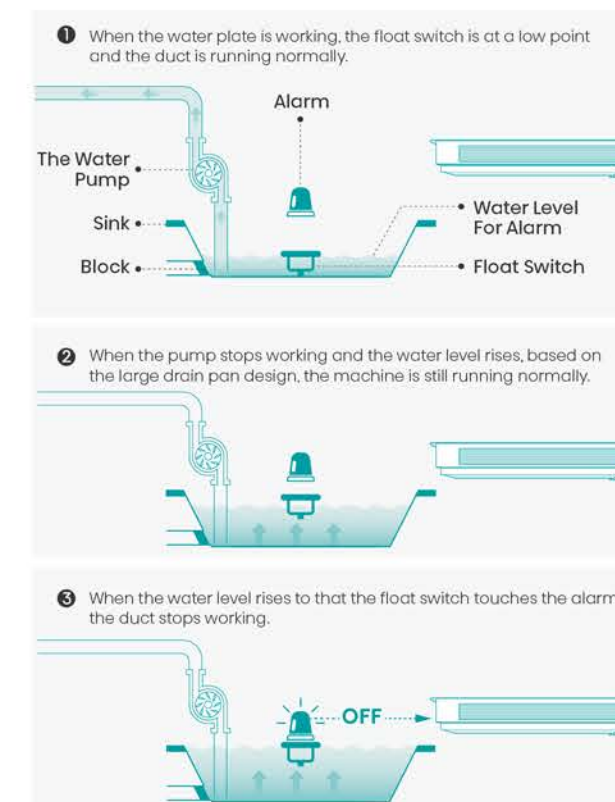
The maximum lift of Hisense high lift pump components can be as high as 1200mm.

* In order to ensure smooth drainage in long-term operation, the recommended drainage height is ≤800mm.



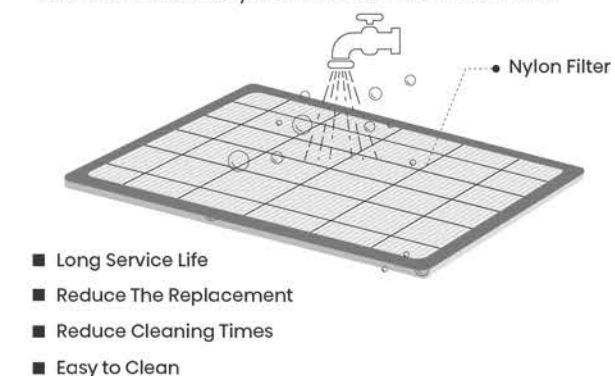
Float Switch

The float switch can ensure the water always under the safety level, even if the pump failed or the drain is blocked. This is double insurance of no water leakage disaster. Hisense duct units are all standard with float switch. The drain pan of Hisense is big enough for containing all the water returned from the drain pipe in suddenly power off.



Filter

Hisense Duct units are all standard with nylon filter. The long-life filter can reduce the replacement and cleaning times. The filter is washable so that the dust can be easily washed off from the filter.

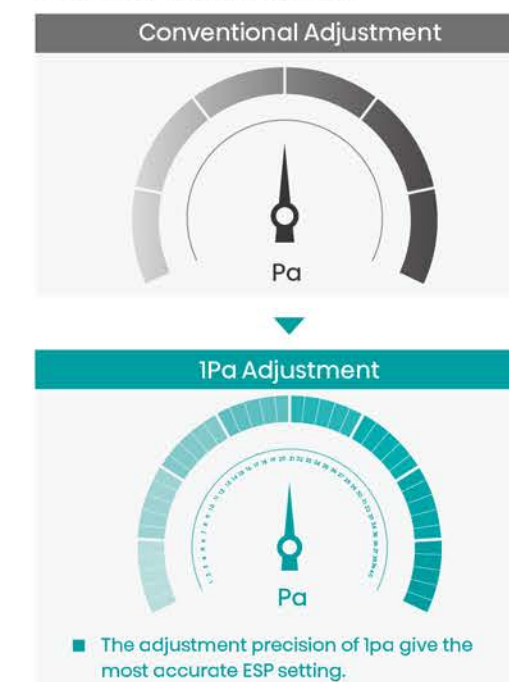


- Long Service Life
- Reduce The Replacement
- Reduce Cleaning Times
- Easy to Clean

1Pa Adjustment

It is possible to adjust the ESP setting via wired controller. And the precision of 1 Pa can give the most accurate ESP setting in class.

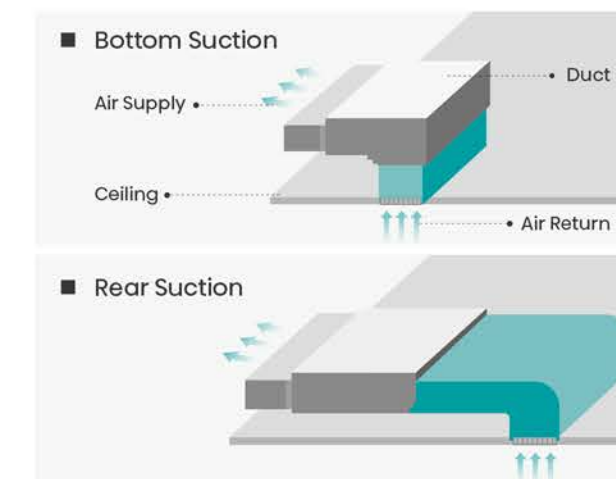
* YXE-C01U1(E) is recommended to set the ESP parameter.(Parameter setting 17→10→from 1 to 250)
Warning: The slim duct with the capacity of 7.0kW(24K Btu/h) has the max ESP 40Pa. If we have to install the duct unit with a long duct, we have to choose the MSP duct of 7.0kW(24K Btu/h).



Easy Installation

Air suction direction can be altered from rear suction to bottom suction. We can install it for free use or for connecting to suction grilles.

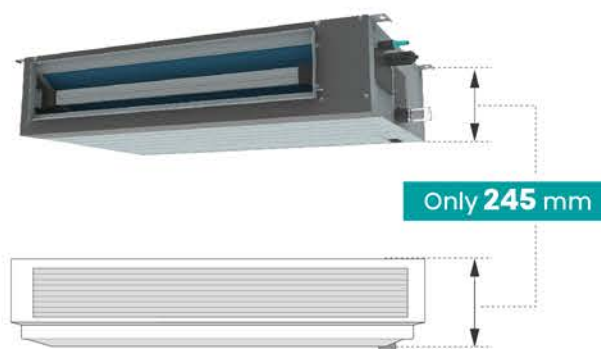
* It is recommended to choose the rear suction because the noise from the rear suction is about 5 dB(A) lower than the bottom suction.



MSP DUCT

Slim Design

It is one of the most compact bodies in the MSP range. Installation is possible even in buildings with narrow ceiling and small spaces.

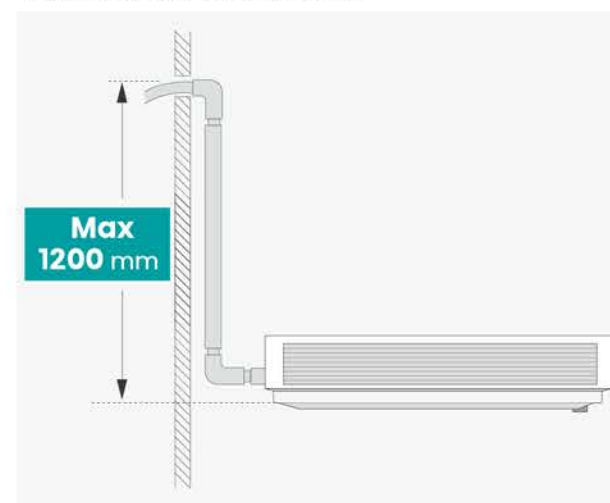


MODEL	W*H*D (mm)
21K	1100*245*700
24K	1100*245*700

Inner High Lift Pump

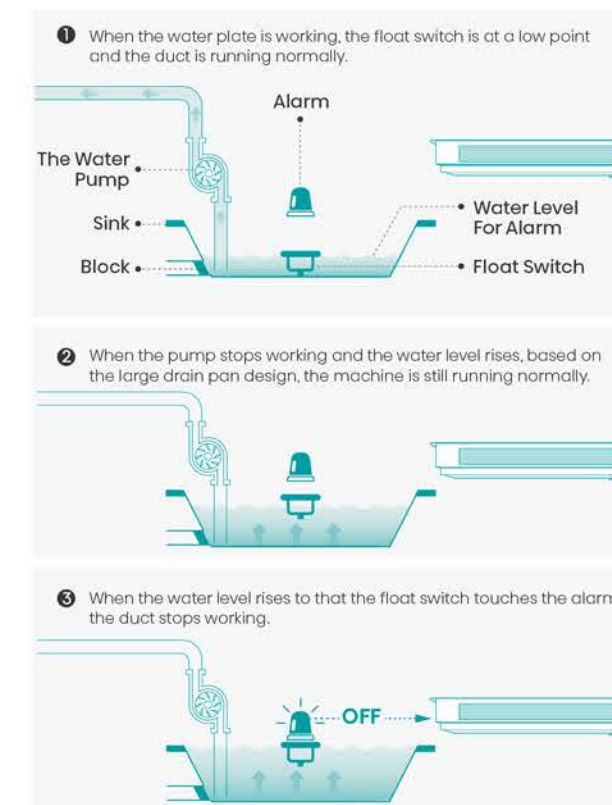
The maximum lift of Hisense high lift pump components can be as high as 1200mm.

* In order to ensure smooth drainage in long-term operation, the recommended drainage height is ≤800mm.



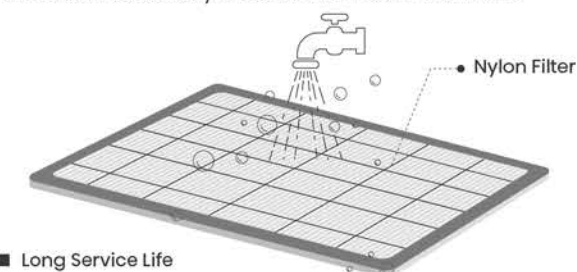
Float Switch

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Filter

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- Long Service Life
- Reduce The Replacement
- Reduce Cleaning Times
- Easy to Clean

1Pa Adjustment

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* YXE-C01U1(E) is recommended to set the ESP parameter.(Parameter setting 17→10→from 1 to 250)
Warning: The slim duct with the capacity of 7.0kW(24K Btu/h) has the max ESP 40Pa. If we have to install the duct unit with a long duct, we have to choose the MSP duct of 7.0kW(24K Btu/h).

Conventional Adjustment



1Pa Adjustment



- The adjustment precision of 1pa give the most accurate ESP setting.

ESP Up to 150Pa

The external static pressure of ESP Duct unit up to a maximum of 150Pa makes it applicable for a wide range of building types.

150 Pa

Set to high static pressure for advanced needs such as when using dampers and long ducts.

HSP DUCT

Slim Design

It is one of the most compact bodies in the HSP range. Installation is possible even in buildings with narrow ceiling and small spaces.

■ 36K 42K 48K



■ 75K 85K

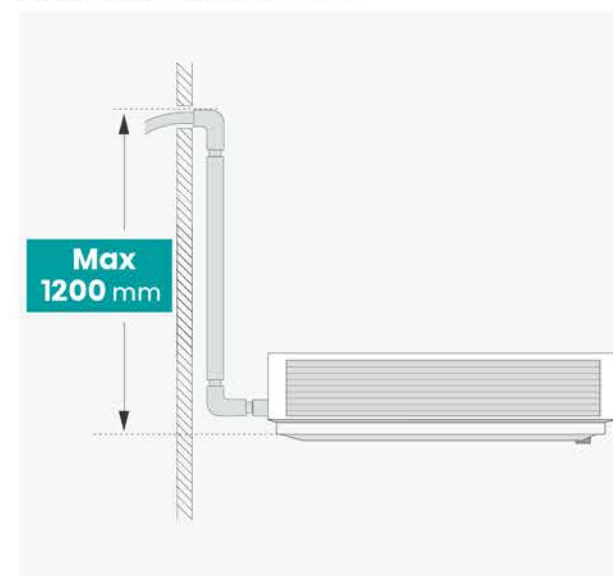


MODEL	W*H*D (mm)
36K	1400*300*800
42K	1400*300*800
48K	1400*300*800
75K	1400*420*858
85K	1400*420*858

Inner High Lift Pump

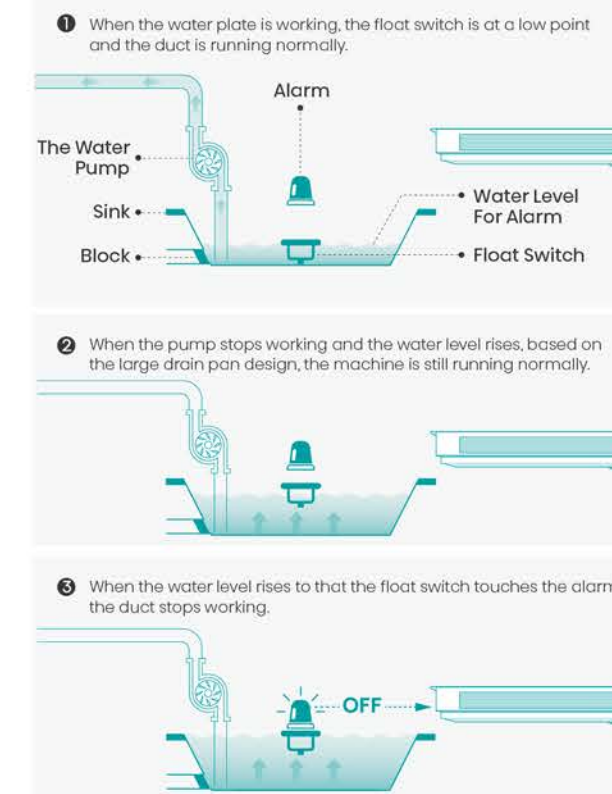
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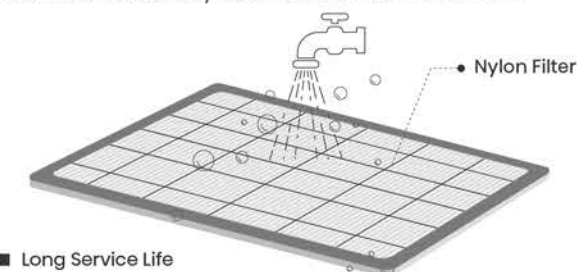
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Filter

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- Long Service Life
- Reduce The Replacement
- Reduce Cleaning Times
- Easy to Clean

1Pa Adjustment

It is possible to adjust the ESP setting via wired controller. And the precision of 1 Pa can give the most accurate ESP setting in class.

* YXE-C01UI(E) is recommended to set the ESP parameter.(Parameter setting 17→10→from 1 to 250)
Warning: The slim duct with the capacity of 70kW(24K Btu/h) has the max ESP 40Pa. If we have to install the duct unit with a long duct, we have to choose the MSP duct of 70kW(24K Btu/h).



ESP Up to 250Pa

It can meet different duct requirement and high efficiency and high wind resistance filter requirement.



Set to high static pressure for advanced needs such as when using dampers and long ducts.

MODEL	Max Static Pressure (Pa)
300mm	200
420mm	250