



For Sanitary water Air source hot water heat pump - all in one series



We have the solution to help you make your home more energy efficient and environmentally friendly, while saving you up to 70% per year on your energy bill.

Whether you are replacing an existing Water heater or looking for the best model for a new house you are building, it pays to choose carefully. Let us help you make your home more comfortable for your family.



R410a



R407c

R-22

Multi-functional units for water heating

Showers and baths become a pleasure! LUXURY units from ESE are the Most efficient and most economical hot water

Heaters - with a range 200 to 300L tank and multiple additional benefits.

High technology provides for optimal energy supply from the exhaust air (or fresh air) - energy which we normally waste.

The built-in high performance heat pump is what makes it possible.

The unit provides reliable and almost noiseless operation. Air ducts up

to 10 m can be attached as the high performance

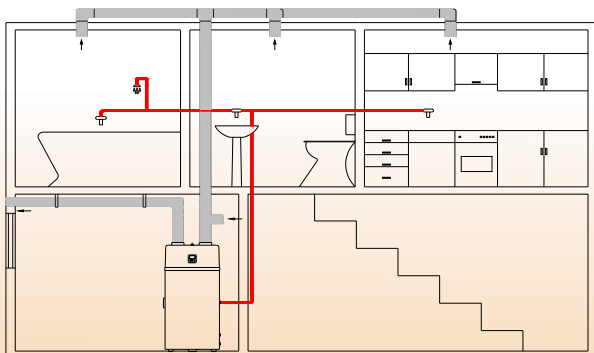
radial fan located in an optimized volute provides for enough flow and pressure rate.

So the multi-functional units LUXURY from ESE provides ventilation, or cools a near by storage room, or dries the air of the utility room, cellar or the laundry room. Using one of these benefits you can consider your hot water heating being free of charge. The units can be installed at any location inside the house: For example in the heating room, Where in winter-time preheated air is sucked in. Or in any household area.



HOT WATER & DWELLING VENTILATION

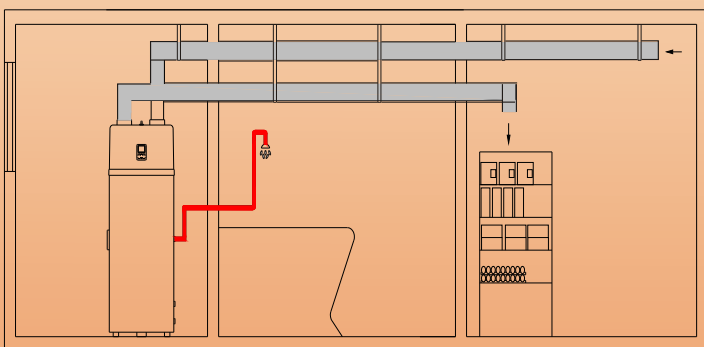
You need fresh air for breathing: Modern buildings are built air tight and with good thermal insulation. That saves energy on one hand but prevents the natural air exchange on the other hand. Therefore it is crucial for your health to provide for controlled dwelling ventilation to ensure sufficient oxygen-rich fresh air in your home. And for taking the used, and polluted and CO₂ rich-exhaust air away. The LUXURY series from ESE is the solution for this task.



- Type: EH-4CC-30L
- List in the heating room
- Water heating from room air
- Additional use: Supply cooling, wine cellar cooling, at the location of your choice

REMAIN FRESH FOR YOUR FOOD

ESE multi-functional unit offers additionally or optionally the cost-free cooling function. So you can transform a food storage room in the summer into a fresh holding location, or cool the wine-cellar. During wintertime the cool air can be led into the room.



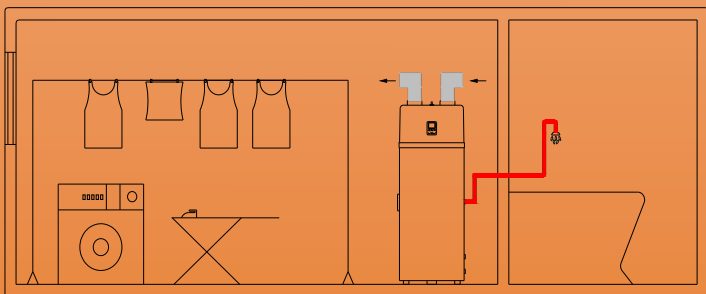
Example:

- Type: EH-4CC-30L
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DRY YOUR CLOTHES

Auxiliary use as laundry drying: A dehumidified room or cellar can offer advantages during the laundry drying process. It helps you with your housework. By the way, the lime-free condensate water of the heat pump can be used for moisture ironing or air moisturizers. Most cellars tend to become humid: New buildings are too air tight which means condensate forms, old buildings let moisture in through the walls. Mould, rust, damage of the building structure and the stored articles are the result.

The LUXURY units from ESE maintain the value of your house and the cleanliness of your supplies. If you want to use the auxiliary functions of the Heat Pump such as cellar dehumidifying, then you simply lead an air duct air into the required room.



Example:

- Type: EH-CC-30L
- List in the washing room
- Water heating from room air
- Auxiliary use: Laundry drying, decalcified water for ironing with moisture

Why not heat sanitary water with the heating circuit?

There was once good reasons to combine water-heating with the central heating furnace: In the sixties when oil-fired central heating became standard, it was understandable to use it for hot sanitary water production as well.

From today's view however it is a fatal false conclusion that water heating is to be considered as a "cheap" by-product of the central heating. This applies in particular to oil and gas-fired boilers and outside of the heating seasons. The devices are appropriate for room heating and therefore oversized for just water heating! In addition water heating with an average oil boiler in the summer period achieves approx. only 20 % efficiency and therefore use of the assigned primary energy. Furthermore, a heating Heat Pump is properly sized for room heating capacity and therefore also oversized for just hot water production while the LUXURY is specially designed for this purpose.

SPECIFICATION

Model		EH-3BC-20L	EH-4BC-20L	EH-4CC-20L	EH-4CC-26L	EH-4CC-30L	EH-5.3CC-30L	
Rated Heating Capacity	W	3000	4000	4000	4000	4000	5300	
	BTU/h	10500	13700	13700	13700	13700	18000	
Electric Auxiliary heating	W	Optional						
Power Supply	V/PH/Hz	220V/1PH/50Hz						
Input Power	KW	0.68	0.91	0.91	0.91	0.91	1.28	
Running Current	A	3.2	4.3	4.3	4.3	4.3	6.1	
Hot Water Produced Volume	L/h	70	90	90	90	90	110	
Water Tank Volume	L	200	200	200	260	300	300	
Thermostat Factory Setting	°C	50°C ~ 55°C						
Thermostat Maximum Setting	°C	65°C						
Compressor Quantity		Rotary						
Fan Motor Quantity		AC centrifugal blower single inlet						
Air filter		NO	NO	YES	YES	YES	YES	
Defrosting function*		Optional						
Working temperature (with defrosting function) :	°C	-15-43 °C						
Working temperature (without defrosting function) :	°C	5-43 °C						
Fan Motor Input	W	50	60	60	60	60	80	
Noise	dB(A)	48	50	50	50	50	51	
Unit Dimension	H	mm	1760	1760	1410	1670	1810	1810
	W		570	570	650	650	650	650
	D		570	570	650	650	650	650
Packing Dimension	H	mm	1840	1840	1490	1750	1890	1890
	W		640	640	690	690	690	690
	D		640	640	690	690	690	690
Weight	Net weight	Kg	73	73	79	86	91	99
	Gross weight		79	84	86	92	97	105
Loading QTY (20/40)	Sets	27/54			24/51			

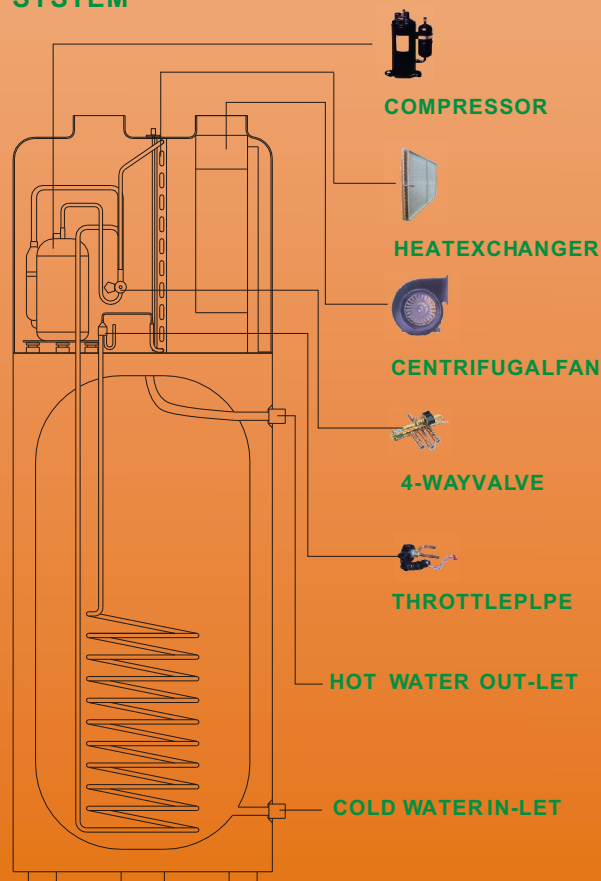
The testing ambient temperature
Dry ambient Temp. : 20°C

Wet ambient Temp. : 15°C

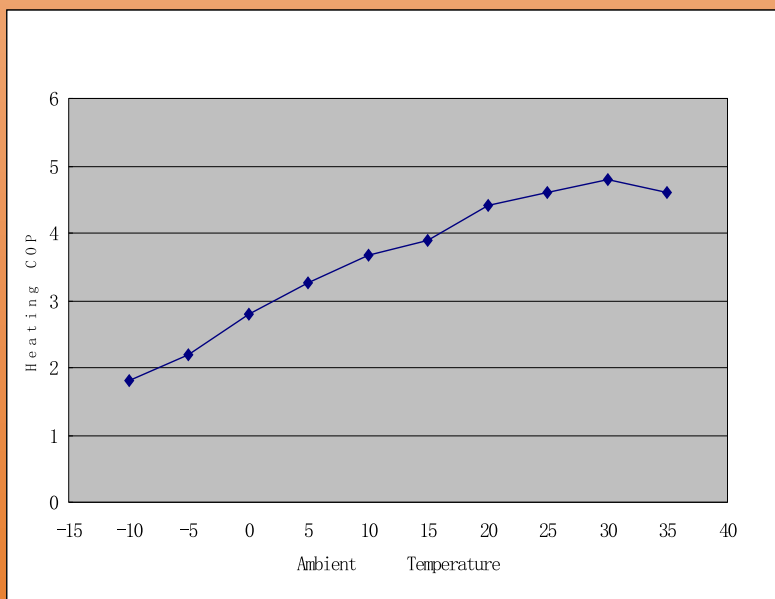
Water inlet Temp. : 15°C

Water outlet Temp. : 55°C

SYSTEM



Heating COP Curve



E.S.E ELECTRIC APPLIANCES CO.,LTD.

ADD: No.1 Nantou Avenue, Nantou Town,
Zhongshan City, Guangdong Province,
China

TEL: 0086-0760-3833192
FAX: 0086-0760-3833191
[http:// www.e-s-e.cn](http://www.e-s-e.cn)

