



Heat pump for buildings and sanitary water heating

air/water



COOLWEX »HPA« AIR/WATER heat pump is the easiest and very useful source for heating and cooling

Heat pumps Coolwex "HPA" are all in "SPLIT" version with outdoor unit in "V" shape. Operation limits regarding outdoor air temperature is -20 °C, max. outlet water for heating is 55 °C. Sanitary water heating is also possible throughout all year.

All HPA models have a built-in state-of-the-art "Scroll Copeland" compressor, SWEP plate heat exchangers and Siemens regulations. All the other refrigerant and water components are also made by leading international companies such as Alco Controls, Emerson, FAR, Ziehl-Abegg and others.

All models use environmental friendly refrigerant R407 C as medium.

All HPA models have a built-in circulation pump for heating, a 3-way switching valve and a two stage (2x3kW) electrical heater for additional heating if required.

All the models are also available in EVI design – enabling heating up to 65°C. For larger buildings, models with more power are also available - HPAT 22, 28, 35 and 42kW.



Air/water system

Heat pumps lodwex "HPA EVI" ave also in "SPLIT" version with outdoor unit in "V" shape. Operation limits regarding outdoor air temperature is -20 °C, max. outlet water temperature for heating is 65 °C. Sanitary water heating is also possible throughout all year.



Why do the costumers choose Coolwex Heat pumps?

- Because the heat pump lowers the heating costs up to 75%,
- because beside heating it also provide economical cooling,
- because you're just one step away from glorious comfort,
- because the heat pump assures safety and reliability,
- because you don't need boiler room and additional room for the tank,
- because you don't need any gas connection and chimney,
- because it's environmentally friendly.



Room unit regulator



Panel regulator

COOLWEX air/water heat pump is very rational and functional solution in places where you are limited with space, such as new buildings and adaptation of existant buildings.

This heat pump is the perfect choice in places where's no groundwater or with to smaller ground surfaces. All air/water heating systems offer very wide range of heating and cooling, together with sanitary water heating.

Air/water heat pump transfer heat from the external air. Outdoor unit (evaporator) in combination with fan transmits air throuhgt the heat exchanger, where the air is cooled. Indoor unit in combination with compressor and condenser prepares water temperature corresponding to the heating system. Both units are connected with copper pipes and electrical cabel



Air/water heat pump

Most important think in installation process at air/water heat pumps "HPA" and "HPA EVI" is to choose the optimal location for outdoor unit and to pay attention on max. allowed dinstance between indoor and outdoor unit. By selection the outdoor unit location the rain and wind protection must be observed. It is also important to make good condens water drainage for outdoor unit.



External unit for HPA05, 07, 08 and 10.



Copeland ZH EVI Scroll Compressor



External unit for HPA130 and HPA20.

Air/water heat pumps »HPA« (55°C)

Model	HPA 05	HPA 07	HPA 08	HPA 10	HPA 13	HPA 16	HPA 20
Heating capacity (kW)	5,2 / 4,9	7,2 / 6,7	8,35 / 7,8	10,4 / 9,7	12,5 / 11,6	16,1 / 15,0	19,6 / 18,2
Electrical power (kW)	1,4 / 1,9	1,95 / 2,6	2,3 / 3,0	2,8 / 3,9	3,3 / 4,5	4,2 / 5,4	5,2 / 6,5
Cooling capacity (kW)	3,8 / 2,95	5,2 / 4,1	6,1 / 4,8	7,6 / 5,8	9,2 / 7,1	11,9 / 9,6	14,4 / 11,7
Coiff. of performance (COP)	3,7 / 2,5	3,7 / 2,6	3,7 / 2,6	3,7 / 2,5	3,8 / 2,6	3,8 / 2,8	3,7 / 2,8
Power supply (V / Hz)	380 / 50	380 / 50	380 / 50	380 / 50	380 / 50	380 / 50	380 / 50
Water flow – secondary side (m³/h)	0,70	1,00	1,20	1,60	1,80	2,10	2,40
Sound level (db)	50 / 43	50 / 44	50 / 45	50 / 45	50 / 45	54 / 45	54 / 45
Total weight (kg)	95 + 38	98 + 38	107 + 38	120 + 40	128 + 40	142 + 56	149 + 56

Data is given with accordance to standard **EN 255** under conditions **A2/W35/W55** (outdoor air temperature is **+2 °C**; heating water outlet temperature is **35 and 55 °C**).

Housing dimensions for all models in the upper table are **WxDxH: 600x580x1135 mm**.

Maximal heating water outlet temperature is **55 °C**.

For installing the heat pumps in existant radiators systems we can supply also the hight temperature version of air/water heat pump named HPA EVI. Heating capacities are from 9 to 47 kW.

Air/water heat pumps »HPA EVI« (65°C)

Model	HPA EVI 09	HPA EVI 13	HPA EVI 18	HPA EVI 23	HPA EVI 30	HPA EVI 40	HPA EVI 47
Heating power (kW)	8,8 / 8,37	12,8 / 12,2	18,12 / 17,32	23,2 / 22,1	30,0 / 28,67	39,8 / 38,0	47,2 / 45,1
Electrical power (kW)	2,57 / 2,91	3,72 / 4,34	5,13 / 6,03	6,52 / 7,62	8,82 / 9,89	11,21 / 12,88	13,64 / 15,82
Cooling capacity (kW)	6,23 / 5,46	9,08 / 7,89	13,0 / 11,3	16,68 / 14,48	21,2 / 18,78	28,6 / 25,12	33,56 / 29,3
Coiff. of performance (COP)	3,43 / 2,88	3,44 / 2,82	3,53 / 2,87	3,56 / 2,9	3,4 / 2,9	3,55 / 2,95	3,46 / 2,85
Power supply (V / Hz)	380 / 50	380 / 50	380 / 50	380 / 50	380 / 50	380 / 50	380 / 50
Water flow – secondary side (m³/h)	1,4	2	2,7	3,5	4	4,7	5,6
Sound level (db)	49 / 37	49 / 40	56 / 40	59 / 44	60 / 40	61 / 44	63 / 44
Total weight (kg)	87 + 37	94 + 49	107 + 64	111 + 79	120 + 79	135 + 81	173 + 92

Data is given with accordance to standard **EN 255** under conditions **A2/W35/W60** (outdoor air temperature is **+2 °C**; heating water outlet temperature is **35 and 60 °C**).

Housing dimensions for all models in the upper table are **WxDxH: 600x580x1135 mm**.

Maximal heating water outlet temperature is **65 °C** and permitted flow deviation is **-15%**. Operation limit for outdoor air is **-20°C**.



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Dealer: