

Gapsal IKS-E

Modernized effective heat pumps range for larger homes, apartment house and production workshops.

Gapsal IKS E models are used in a novel configuration of a liquid gas injection compressor ensure greater efficiency and productivity. Liquefied gas injection system allows to reduce the condensing temperature, resulting in increased efficiency of the device. A new type of compressor is optimized for the production of heat, quieter operation sounds, extended performances. The compressor allows the production of heating water to + 67°C, and also work well at low evaporator temperature efficiently. Condenser waste heat from the condenser is drawn directly from the compressor to high temperatures.



Gapsal 

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User-friendly, multilingual user interface allows the optimization of the heat pump at different heat pump solutions. Optimal placement of components allows easy access to all important for the maintenance of the node. Gapsal IKS E heat pumps may be used to heat any heat sources - the ground of soil or spiraalkollektoritega, open groundwater system, ventilation or use residual heat technology. The heat pump system can work in the heat, cooling or hot water production. Heat pumps in the use of electronic expansionventil that monitor the saturation vapor in the evaporator and condensing temperature ensuring maximum system efficiency. Also features a soft start system, and face lose exchange and over- and under-voltage breakers. Gapsal IKS E heat pump using R410A refrigerant. The heat pump has an integrated brine 0-10V controlled circulation pump. Controlled circulation pump for heat is an external device, do not belong to the set of equipment, and is selected depending on the specific needs of the system. Gapsal IKS E is suitable for use in larger houses, apartment buildings, hotels, schools, churches, business and production companies and sports buildings. The user interface has a built-in modem to a heat pump system to monitor and control the Internet.

Gapsal IKS E series product has two different power capacities of 35, and the of 45KW. Lower power solutions are used Gapsal OKS and higher-power systems Gapsal IKS T models. The heat pump system can be used for up to 8 heat pump module, if necessary, integrated oil, gas, electric boilers or solid fuel boilers whit acumulators tanks heating solutions 40-400kW.

Gapsal	IKS35E	IKS45E
Refrigerant type	R410A	
Refrigerant volume	4,5 kg	
Test pressure	4,5 MPa	
Compressor type	Scroll liquid gas injection compressor	
Electrical connection	3x400 V	
Nominal outputs EN14511	36,0 kW	46,0 kW
Coefficient of performance EN14511*	4,42	4,38
Energy rating (system)***	A++ →	
Energy rating (heat pump)***	A++ →	
Nominal flow rates****		
Brine	2,2 l/s	2,5 l/s
Heating	0,8 l/s	1,1 l/s
Internal system pressure loss		
Brine	120 kPa	115 kPa
Heating	48 kPa	42 kPa
Maximum system pressure		
Brine	6 Bar	
Heating	6 Bar	
Heat transfer fluid	Ethanol / ethylene glycol 30%	
Low pressure protection	0,35 MPa	
High pressure protection	4,45 MPa	
Weight	320 kg	340 kg

* EN14511 with circulation pumps. Compressor 3200 rpm. EN14511 0/35C with external circulation pumps.

** (1500-6000 rpm)

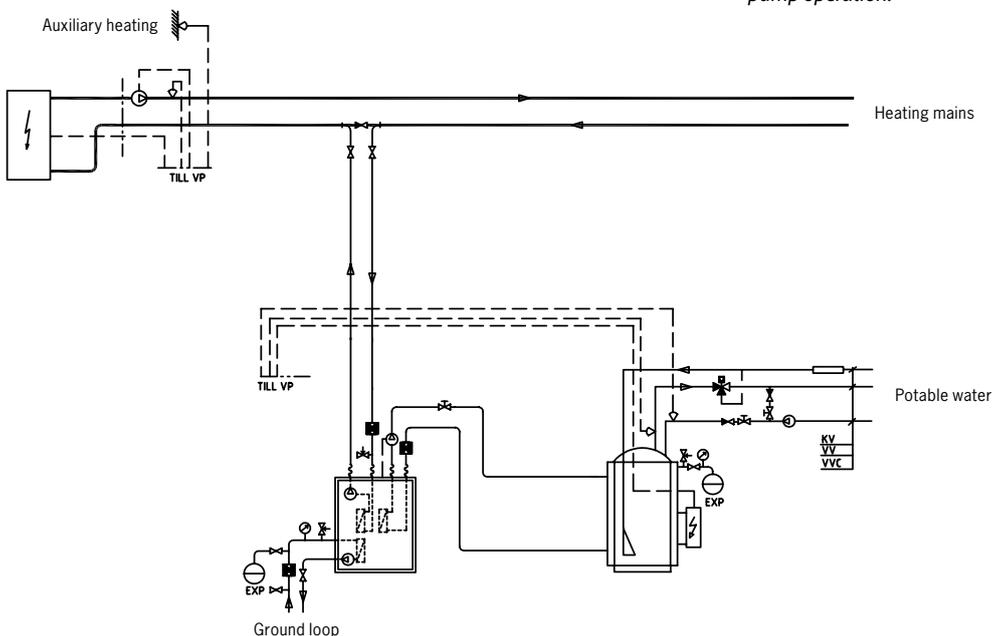
*** Floor heating +35 °C, Radiators +55 °C

**** d10K heating, d3K brine 3200 rpm

Eco desing Directive 811/2013



All Gapsal models have an electronic expansion valve which enables precise control of heat pump operation.



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