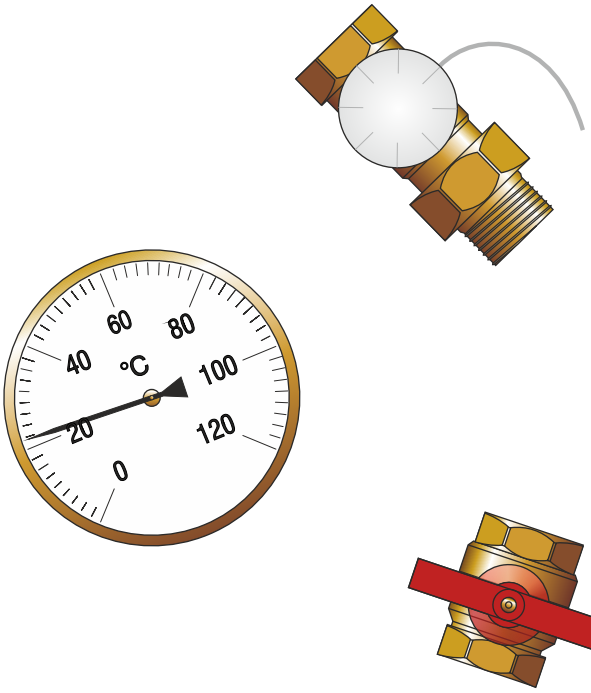
Well supplied:
Distributors from BEKA

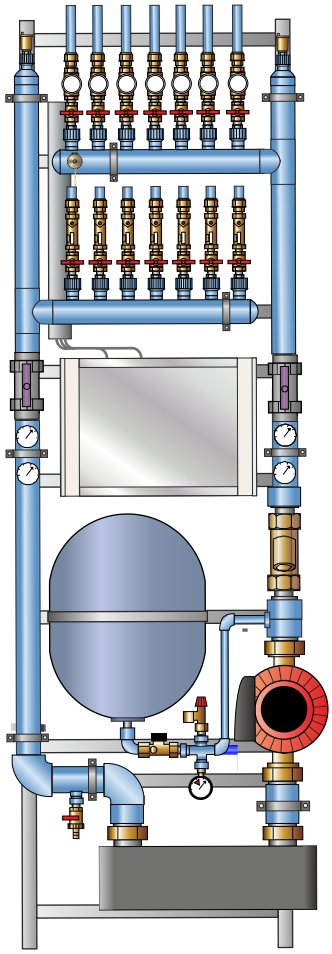
BEKA storey distributors and base units are used as energy transfer and system separation between the primary circuit and the secondary circuit with the BEKA capillary tube mats.

The base unit feeds the supply lines of the cooling ceiling. The individual zones are supplied with the cooling water via connecting points or distributors.

The materials used for the assembled units are Polypropylene Random Copolymer Type 3, DIN 8078 as well as brass and brass nickel plated.

Regular incoming and outgoing goods inspections as well as a 15 year warranty on all BEKA products ensure the constant high quality.



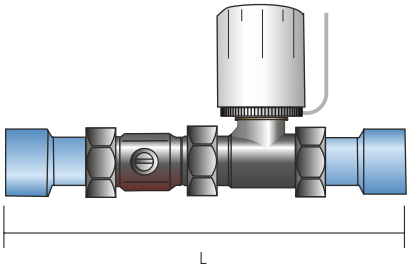


15 years warranty

Deviations from the illustrations are possible. | April 2021

E.SAR15.1 | Connecting Point Return Pipe

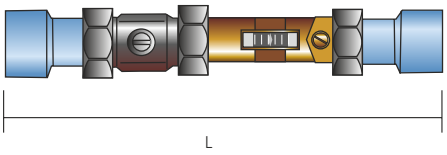
Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA20, ball faucet, regulating valve and thermo-drive 24V AC/DC electroless closed
Versions	Dimension: DN 15 Length (L): 185 mm Kvs-value: 1,7
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.



Ordering example:
Connection Point Return Pipe: E.SAR15.1

E.SAV15.1 | Connecting Point Flow Pipe

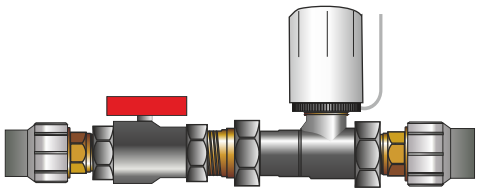
Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA20, ball faucet and tacosetter
Versions	Dimension: DN 15 Length (L): 185 mm Kvs-Value: 1,8 l/min: 2 - 8
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.



Ordering example:
Connection Point Flow Pipe: E.SAV15.1

E.SAR20.1 | Connecting Point Return Pipe

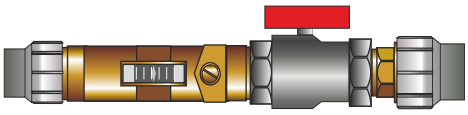
Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA25, ball faucet, regulating valve and thermo-drive 24V AC/DC electroless closed
Versions	Dimension: DN20 Length (L): 245 mm Kvs-value: 2,5
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.



Ordering example:
Connection Point Return Pipe: E.SAR20.1

E.SAV20.1 | Connecting Point Flow Pipe

Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA25, ball faucet and tacosetter
Versions	Dimension: DN20 Length (L): 295 mm Kvs-Value: 5,0 l/min: 4 - 15; 8 - 30
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.

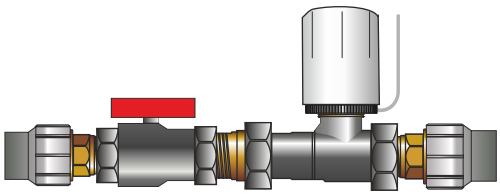


Ordering example:
Connection Point Flow Pipe: E.SAV20.1

Deviations from the illustrations are possible. | April 2021

E.SAR25.1 | Connecting Point Return Pipe

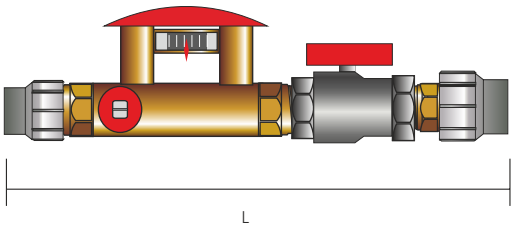
Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA32, ball faucet, regulating valve and thermo-drive 24V AC/DC electroless closed
Versions	Dimension: DN25 Length (L): 340 mm Kvs-valuet: 5,7
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.



Ordering example:
Connection Point Return Pipe: E.SAR25.1

E.SAV25.1 | Connecting Point Flow Pipe

Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA32, ball faucet and tacosetter
Versions	Dimension: DN25 Length (L): 380 mm Kvs-Value: 8,1 l/min: 10 - 40
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.

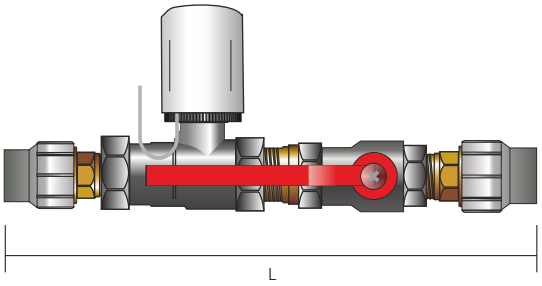


Ordering example:
Connection Point Flow Pipe: E.SAV25.1

Deviations from the illustrations are possible. | April 2021

E.SAR32.1 | Connecting Point Return Pipe

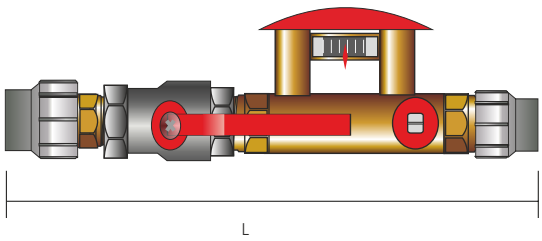
Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA40, ball faucet, regulating valve and thermo-drive 24V AC/DC electroless closed
Versions	Dimension: DN32 Length (L): 345 mm Kvs-Value: 6,7
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.



Ordering example:
Connection Point Return Pipe: E.SAR32.1

E.SAV32.1 | Connecting Point Flow Pipe

Material	PP Random Copolymer, Type 3, DIN 8078, Brass and brass nickel plated
Arrangement	Transition connector PP both side DA40, ball faucet and tacosetter
Versions	Dimension: DN32 Length (L): 385 mm Kvs-Value: 17,0 l/min: 20 - 70
Description	The connection is screwed completely tight and pressure checked. The picture shows the standard version. Changed versions, for example with KFE-faucet, are available on request.



Ordering example:
Connection Point Flow Pipe: E.SAV32.1

E | Storey Distributor

The storey distributor E from BEKA is utilised as energy transfer and for the splitting between the primary circulation with the refrigerating generation and the secondary circulation with the supply lines and the BEKA capillary tube mats.

The storey distributor has a distributor in the feed- and return lines with which the particular zones of the cooling ceiling are supplied with cooling liquid. The zones of the cooling ceiling can be dimensioned differently.

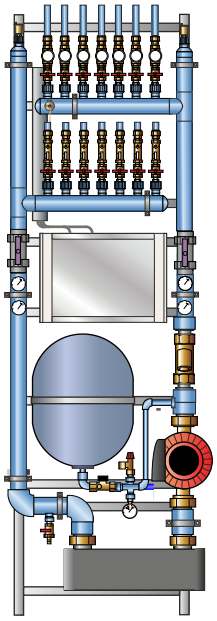
The storey distributor can be supplied either with a pressure regulated or with a non-regulated pump.

The dimensions will be fitted to the project.

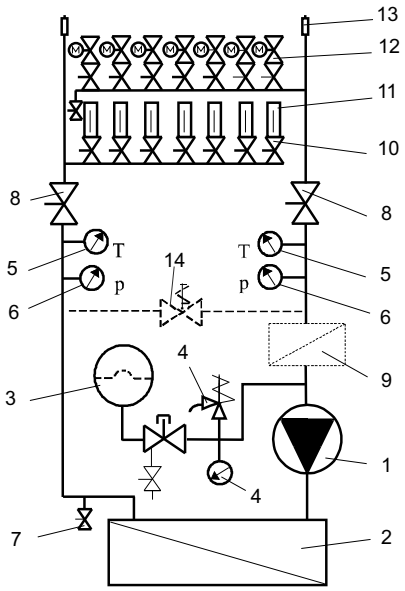
The storey distributor is fixed on a galvernised steel frame and will be pressure checked, before delivery, with 10 bar for about 3 hours

For the arrangement of the distributor the following specifications are required:
- performance in kW
- cooling liquid (partly glycol)
- primary/secondary temperatures
- possible dimensions
- quantity of zones and dimensions
- external p
- possible size of pressure expansion tank

(the nominal width will be laid out, so that a flow speed of 1,2 m/sec. will not be exceeded).



Material	Polypropylene Random Copolymerisat Type 3, DIN 8078, PVC. Brass, brass nickel plated or stainless
Composition	1 Pump pressure regulated alternative: non-regulated, with overflow valve (14) 2 Heat exchanger 3 Pressure expansion tank with cap valve 4 Safety device, consisting of: safety valve and pressure gauge 5 Thermometer 0-60°C alternative: 0-40°C 6 Pressure gauge 0-6 bar 7 Fill- and drainage faucet 8 Ball faucet 9 alternative: Dirt collector 10 Ball faucet 11 Taco setter 12 Valve with setting drive 13 automatic bleeder
Height (H) Width(B) Depth (T) Cooling capacity Operating pressure	Approx.1400 to 2000 mm * approx. 600 to 800 mm * approx. 400 mm * to 150 kW max. 5 bar



* the dimensions can be fitted for the project

E | *Base Unit*

The base unit E.G. from BEKA is utilised as energy transfer and for the splitting between the primary circulation with the refrigeration generation and the secondary circulation with the BEKA heating- and cooling mats.

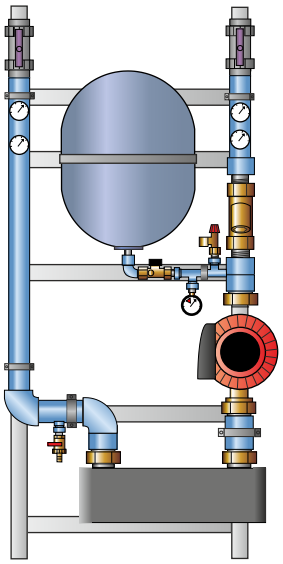
The base unit feeds the supply lines for the cooling ceiling. Via connections (M.AR and M.AV) or the distributor station (E.V) the particular zones of the cooling ceiling are provided with the cooling liquid.
The base unit is supplied with a regulated or a non-regulated pump.

The dimensions can be fitted to the requirements of the project. The base unit is fixed on a galvernised steel frame and will be pressure checked before delivery with 10 bar for about 3 hours.

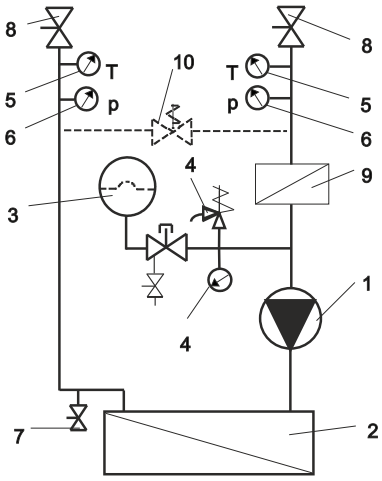
For the arrangement of the station the following specifications are required:

- performance (in kW)
- cooling liquid (parts per unit of glycol)
- primary/secondary temperatures
- possible dimensions
- external p
- possible size of pressure expansion tank

(The nominal width is laid out such, that the flow speed of 1,2 m/sec. will not be exceeded)



Material	Polypropylene Random Copolymere, Typ 3, DIN 8078, PVC. Brass, brass nickel plated or stainless
Composition	1 Pump, pressure regulated alternative: non regulated, with overflow valve (10) 2 Heat exchanger 3 Pressure expansion tank with cap valve 4 Safety device, consisting of: Safety valve and pressure gauge 5 Thermometer 0-60°C alternative: 0-40°C 6 Pressure gauge 0-6 bar 7 Filling- and drainage valve 8 Ball faucet 9 alternative: Dirt collector
Height (H) Bidth (B) Depth (T) Cooling capacity Operating pressure	approx. 1400 to 2000 mm * approx. 600 to 800 mm * approx. 400 mm * to 150 kW max. 5 bar



* The dimensions can be fitted to the requirement of the project.

Deviations from the illustrations are possible. | April 2021

E | Required data for design of base unit

In order to be able to optimally design the base unit, some information is required.
Please complete the following fields and send it back to us either by fax: +49 30 474 114 35 or by E-Mail: info@beka-klima.de

heat exchanger	
capacity (kW)	
temperature primary side **in** [°C]	
temperature primary side **out** [°C]	
Medium primary side [water, glycol content] %	
temperature secondary side **in** [°C]	
temperature secondary side **out** [°C]	

Pump	
delivery height / fluid quantity [m³/h]	
or	
pressure loss pipework (including max. heatingcircuit) [kPa]	

Alternative:

Max. pressure loss of the heating-cooling circuits [kPa]	
and	
sizes heating/cooling circuits [m²] / Max. distance station[m]	

expansion tank (membrane-expansion tank)	
water content of the entire plant [L]	
Hydrostatic pressure (max. 13 m)	

degasification line (if needed)	

Max. available space for the storey distributor [height, width, deep in cm]	