



Low temperature zone module K34; residential series with 3-way mixing valve with bypass 0 - 50%

3/4" / DN 20

For high flow heating zones controlled by motorized mixing with reset control

USE in closed loop design. Low Temperature Zone Modules K34 is replacing conventional injection mixing system. In conjunction with electronic reset control and direct drive actuator, modulates a 3-way valve, diverts and mixes radiant return water with hot water from the boiler. The constant speed system circulator delivers the required water temperature to the radiant loop manifolds. Adjustable bypass diverts up to 50% of additional return water to the system supply and lowers supply temperature to ensure a specific

low supply water temperature is maintained and no thermal shock will occur in the radiant slab. Sizing and Piping: The K34 can handle radiant load demands of up to 71,000 BTU's. Your current method of zoning the radiant loops (manifolds, zone valves, etc.) does not change with the installation of the K32. Multiple K34 modules can be used to separate the distinctive temperature requirements between manifolds. No special piping, just 2 connections and your installation is complete.

Your advantages:

Full port ball valve.

Connection 3/4" female.

Large ball valve handles

for easy grip and visible closing position.

Function-optimized insulation design

made of durable elastic EPP, **100% insulation of the fittings**, and air duct to cool the pumps.

Free access to the pump head by simply pulling off the cover.

Flow Check valve in return pipe is noise free,

low pressure drop, manual opener for faster line drain service, spring-actuated - suited for horizontal, vertical or flow-down assembly.

Supply on the right = standard

If required, the supply and return connections can be simply changed on site.



All components (except the circulator) are manufactured from brass.

Full metal temperature gauges

can be pulled off, brass thermowell is integrated in the ball valve.

Pump can be replaced or serviced

without draining the system.

3-way mixing valve with integrated adjustable bypass

fully brass, ideal linear characteristic (prevents swinging of the regulation). The supply line can be isolated, no draining necessary during pump service.

Fully assembled with flat sealing union

connections at most joints, including 1" connection nut for the installation on PAW-distribution manifold.

For **stand alone** assembly, use the conversion kit with wall bracket from the PAW-assembly accessories.

The insulation of distribution manifold

is integrated in the insulation of zone module.

TECHNICAL DATA Zone Module K34

Dimension	DN 20 - 3/4"	
Materials	Fittings	Brass
	Gaskets	EPDM / NBR
	Insulation	EPP
Technical data	Max. pressure	8 bar / 116 psi
	Max. temperature	110 °C / 230 °F
	CV value	3.5
Dimensions	Supply / Return line to manifold (flat sealing)	1" male
	Supply / Return line to heating zone	3/4" female
	Pipe-centre distance	3 1/2" / 90 mm
	Length	255 mm / 10"
	Width insulation	180 mm / 7 1/16"
	Height insulation	385 mm / 15 1/8"
	Recommended application	Floating action temperature control up to 71 MBH / 21 kW at ΔT = 36 °F / 20°K

Pressure drop K34 / pump characteristics
flow rate [USgpm]

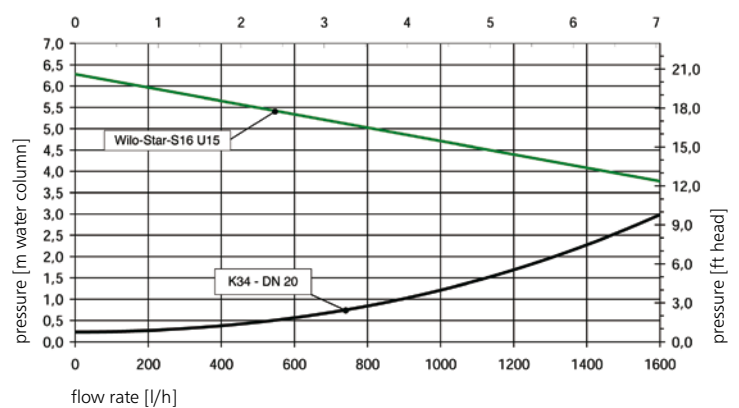


Illustration	Type	Information	PAW pump	Item #
	K34 3/4" DN 20	Advantages PAW pump: <ul style="list-style-type: none"> completely preassembled precisely integrated in the insulation pressure tested serial number 3-speed pump 	Wilo Star S 16 U-15 - 130	32062 WI16 NA

Assembly accessories for K31 - K 34; zone modules

3/4" / DN 20

Pressure bypass valve

with counter-T-pieces and elbow gland, differential settings range: 0.1 up to 0.6 bar (1.4 - 8.7 psi).

Item # 31301

Wall bracket set for zone modules DN 20

With the wall bracket and the mounting plate there can be installed distances of = 55 mm up to 115 mm (15 mm pitch) from the wall.

Consisting of: mounting plate, wall bracket and fastening material.

Item # 3122 SET

Adaptor nipple

3/4" - connection self-sealing with O-ring, 3/4" NPT-thread.

Item # 548 310

Compression adaptor for copper pipe

3/4" male self-sealing, with O-Ring, additionally with support sleeve, **suited for soft and hard copper pipes!** Useable up to 300 °F / 150 °C!

Item # 561 212 ø 1/2" copper pipe

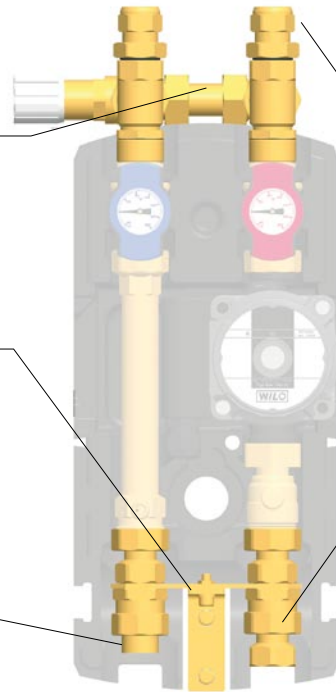
Item # 561 222 ø 3/4" copper pipe

Connecting set DN 20 - 3/4" female

- not necessary for mounting in connection with a PAW-manifold
- to connect pipes with male thread under the modular heating circuits

Consists of: 2 flanges socket 3/4" female with nut G 1"

Item # 3131



Distribution manifold MV DN 20

with patented thermal separation, up to 170 MBH, fully made of brass. Complete specification see page 10.

Item # 3112 NA MV 2-fold

Item # 3113 NA MV 3-fold

Item # 3114 NA MV 4-fold

Item # 3115 NA MV 5-fold

Item # 3116 NA MV 6-fold

Wall bracket set for distribution manifold

set consisting of 2 brackets, steel, yellow galvanized, for centre distances of 70, 85 or 100 mm, incl. fastening material. From MV 5-fold onwards 2 sets of wall brackets recommended.

Item # 3121

Soldering adaptor 3/4" male

for copper pipe.

Item # 206 216 ø 1/2" copper pipe

Item # 206 234 ø 3/4" copper pipe

Coupling for flow down assembly DN 20

for the installation of a heating zone module under a distribution manifold. **Please note:** If you want to use wall brackets, you will need an additional mounting plate for the installation of a 2-fold distribution manifold MV2 (Item # 3125).

Item # 31241

Mounting plate

flat sealing under a modular manifold, for fixing a wall bracket, one side 1" female (nut), other side 1" male.

Item # 3125

