



## Low temperature zone module K34

### 3-way mixing valve and adjustable bypass valve 0-50 %

1 1/4" / DN 32

For low-temperature heating controlled by a mixing valve

**USE in closed loop design. Low Temperature Zone Module K34 is replacing conventional injection mixing systems. In conjunction with electronic re-set 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 164 MBH. Your current method of zoning the radiant loops (manifolds, zone valves, etc.) does not change with the installation of the K34. 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:

**Connections 1 1/4" NPT female.**

#### Large ball valve handles

Easy handling, visible closing position.

**Design insulation with optimized function** made of durable elastic EPP, **100% insulation of the fittings**, ventilation openings to cool the pumps.

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

#### Check valve in return pipe

prevents any noise when electronically controlled pumps are used, can be opened, 200 mm water column, spring-operated, thus suitable for horizontal and overhead installation.

#### Supply line on the right or on the left

Supply and return line can be changed on site, the mixing valve can be changed without difficulties.



#### Check valve

Integrated in the mixing valve, prevents unwanted circulation.

#### All water-carrying parts are made of brass

#### All-metal thermometer

can be pulled off, integrated in the ball valve with an immersion sleeve.

#### Fully assembled with flat gaskets.

#### PAW heating circulation pumps - flanged 2-bolt

already installed, integrated in the insulation, pressure tested, serial number, perfectly designed system, pump characteristics.

#### 3-way mixing valve

completely made of brass, characteristic curve prevents variation in temperature. With the bypass valve (adjustable on the front) 0 - 50% of the water from the return line can be mixed to the flow line.

#### Flat sealing 2" male connections

incl. 2" union nut for the installation on PAW modular distribution manifolds. Individual installations with wall brackets are possible by using PAW mounting equipment.

TECHNICAL DATA Zone Module K34		
<b>Dimension</b>		<b>DN 32 - 1 1/4"</b>
<b>Materials</b>	Fittings	Brass
	Gaskets	EPDM / NBR
	Insulation	EPP
<b>Technical data</b>	Max. pressure	6 bar / 87 psi
	Max. temperature	110 °C / 230 °F
	CV value	10.8
<b>Dimensions</b>	Zone module inlet	2" male
	Zone module outlet	1 1/4" NPT F
	Center distance	125 mm / 4 21/32"
	Length	435 mm / 17 1/8"
	Width insulation	250 mm / 9 27/32"
	Height insulation	462 mm / 18 3/16"
<b>Recommended application</b>	at ΔT = 15 K / 27 °F at 2760 l/h / 12.2 USgpm <b>up to 48 kW/164 MBH</b>	

Pressure drop K34 / pump characteristics  
flow rate [USgpm]

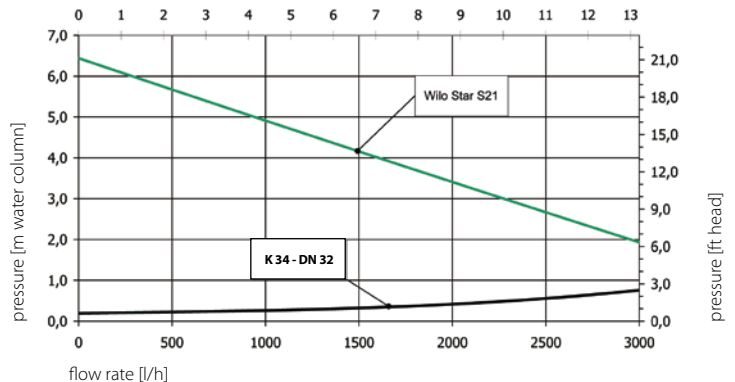


Illustration	Type	Information	PAW pump	Item #
	<b>K34 1 1/4\" DN 32</b>	<b>Advantages PAW pump:</b> <ul style="list-style-type: none"> <li>completely preassembled</li> <li>precisely integrated in the insulation</li> <li>pressure tested</li> <li>serial number</li> <li>3-speed pump</li> </ul>	<b>Wilo Star S 21 FX</b>  delivery without pump	<b>473906.WI21 NA</b>  <b>473906 NA</b>