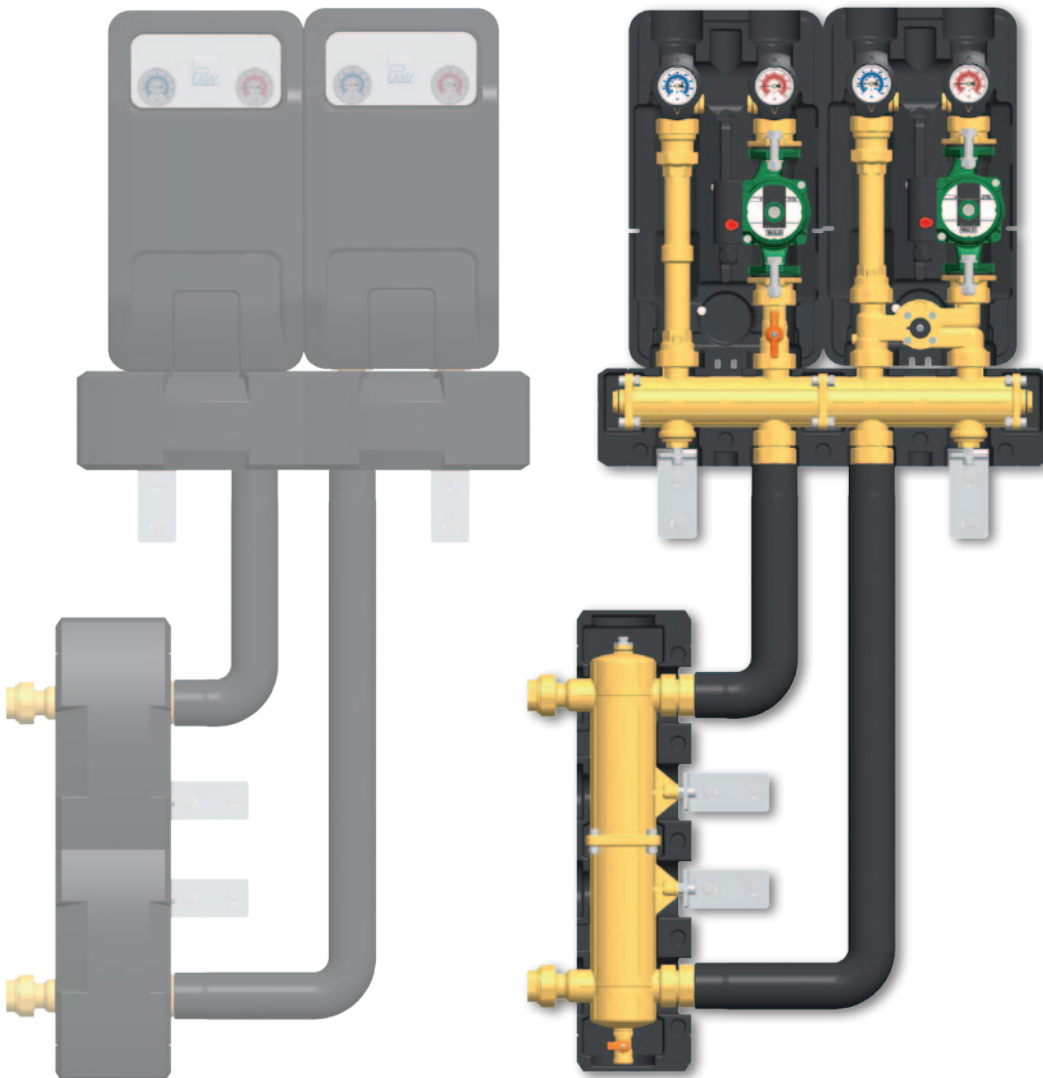




Innovative system technology:

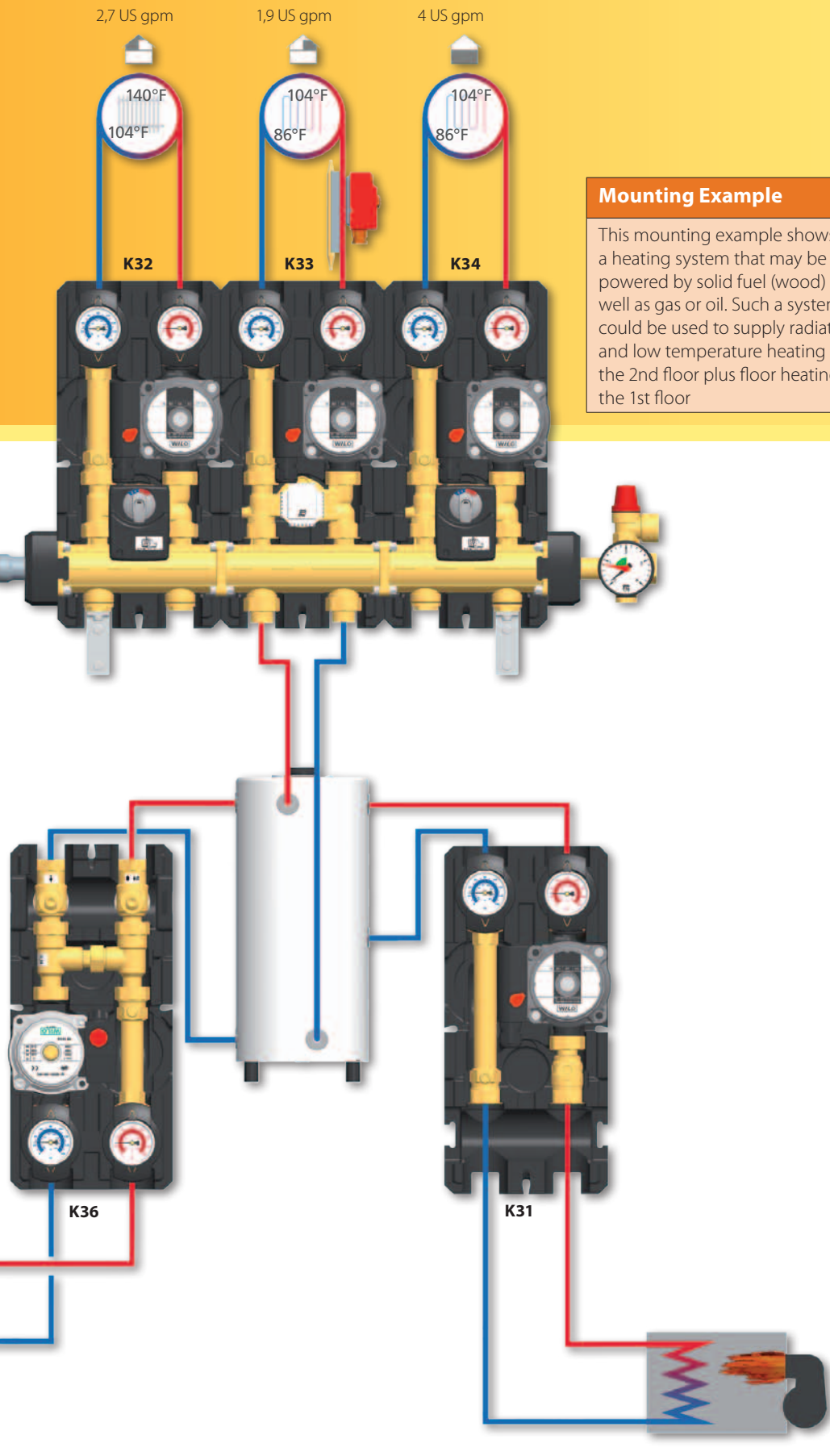
The path to integrated hydronic heating

Multifunctional systems in sizes of 3/4", 1" & 1 1/4" NPT



Modular system 3/4"

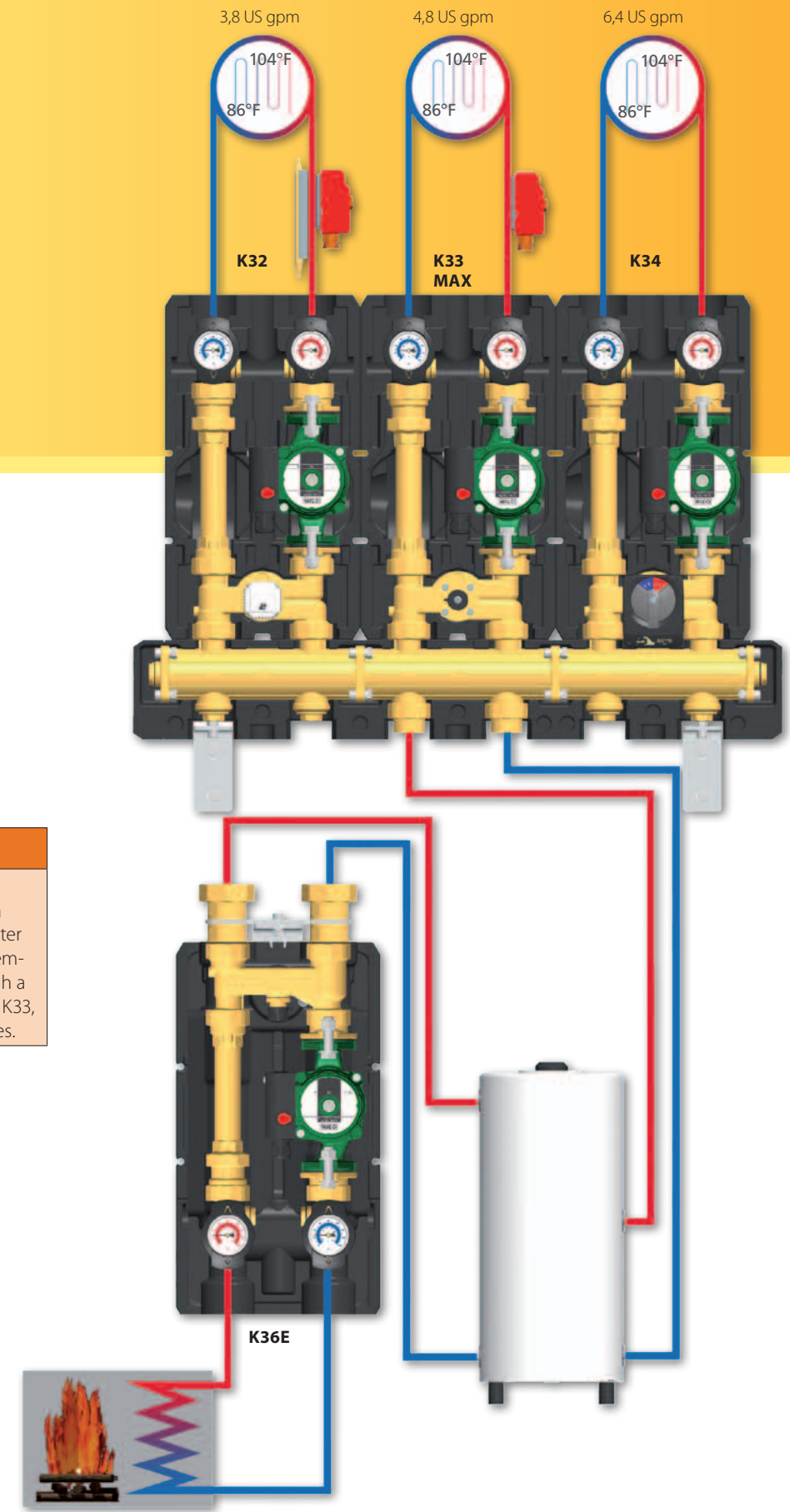
- K31 - 3/4"**
oil/gas fired boiler
- K32 - 3/4"**
radiator circuit
- K33 - 3/4"**
low temperature heating
- K34 - 3/4"**
radiant floor heating
- K36 - 3/4"**
wood fired boiler



Mounting Example
This mounting example shows a heating system that may be powered by solid fuel (wood) as well as gas or oil. Such a system could be used to supply radiators and low temperature heating on the 2nd floor plus floor heating on the 1st floor

Modular system 1"

- K33 - 1"**
small radiant floor heating
- K33MAX - 1"**
low temperature heating
- K34 - 1"**
radiant floor heating
- K36E - 1"**
wood fired boiler



Mounting Example
This mounting example shows a heating system powered by a solid fuel (wood) boiler. Hot water is distributed to different low temperature and RFH zones through a 3-fold manifold equipped with K33, K33 MAX and K34 zone modules.



The multizone system

An all-round solution

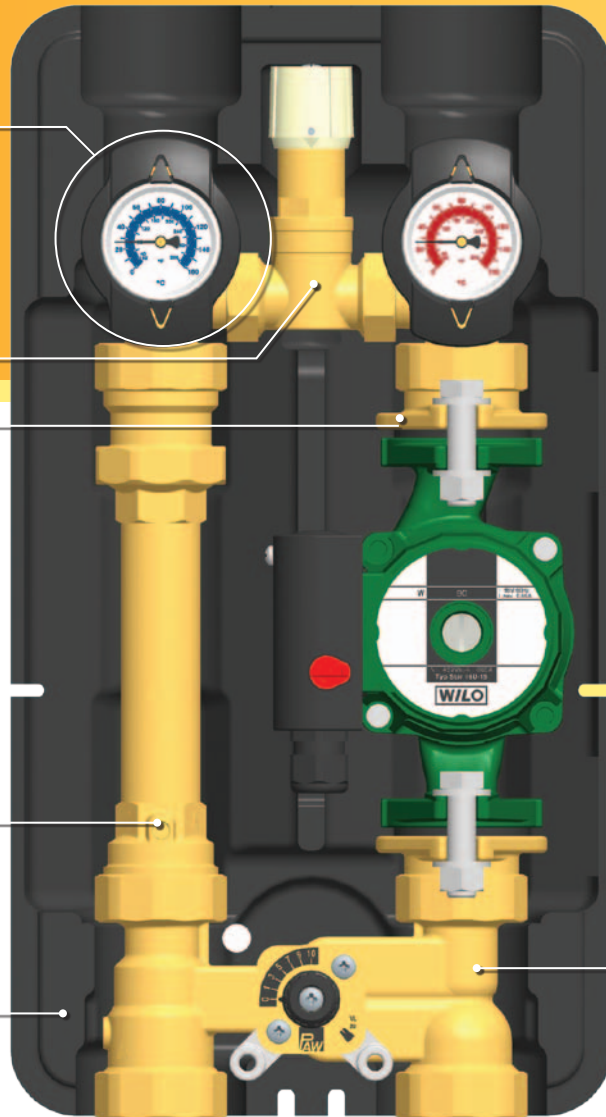
isolation valves with integrated temperature gauges

pressure bypass valve (optional)

swivel flanges

integrated check valve

insulation shell



Different mixing strategies:

Type 31



- no mixing valve for high temperature zones or primary boiler loop

Type 32



- 3-way motorized mixing valve for e.g. radiator

Type 34



- 3-way motorized mixing valve with internal bypass e.g. for RFH

Type 38



- 4-way motorized mixing valve for constant flow rate in boiler loop

Type 33



- 3-way thermostatic mixing valve

Type 36 E



- automatic thermally operated tempering valve for solid-fuel (wood) boilers



Unit with insulation cover

Performance chart for $\Delta T = 36^{\circ}\text{F} / 20^{\circ}\text{C}$

	3/4" NPT	1" NPT	1 1/4" NPT
Type 31	up to 100 MBH 30 kW	up to 170 MBH 50 kW	up to 222 MBH 65 kW
Type 32	up to 72 MBH 21 kW	up to 111 MBH 33 kW	up to 174 MBH 51 kW
Type 34	up to 72 MBH 21 kW	up to 154 MBH 45 kW	up to 218 MBH 64 kW
Type 38		up to 111 MBH 33 kW	up to 177 MBH 52 kW
Type 33	up to 35 MBH 10 kW	up to 68 MBH 20 kW	
Type 36 E		up to 136,5 MBH 40 kW	up to 205 MBH 60 kW
Manifold	up to 170 MBH 50 kW	up to 273 MBH 80 kW	up to 512 MBH 150 kW



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