THERMOTECHNOLOGY

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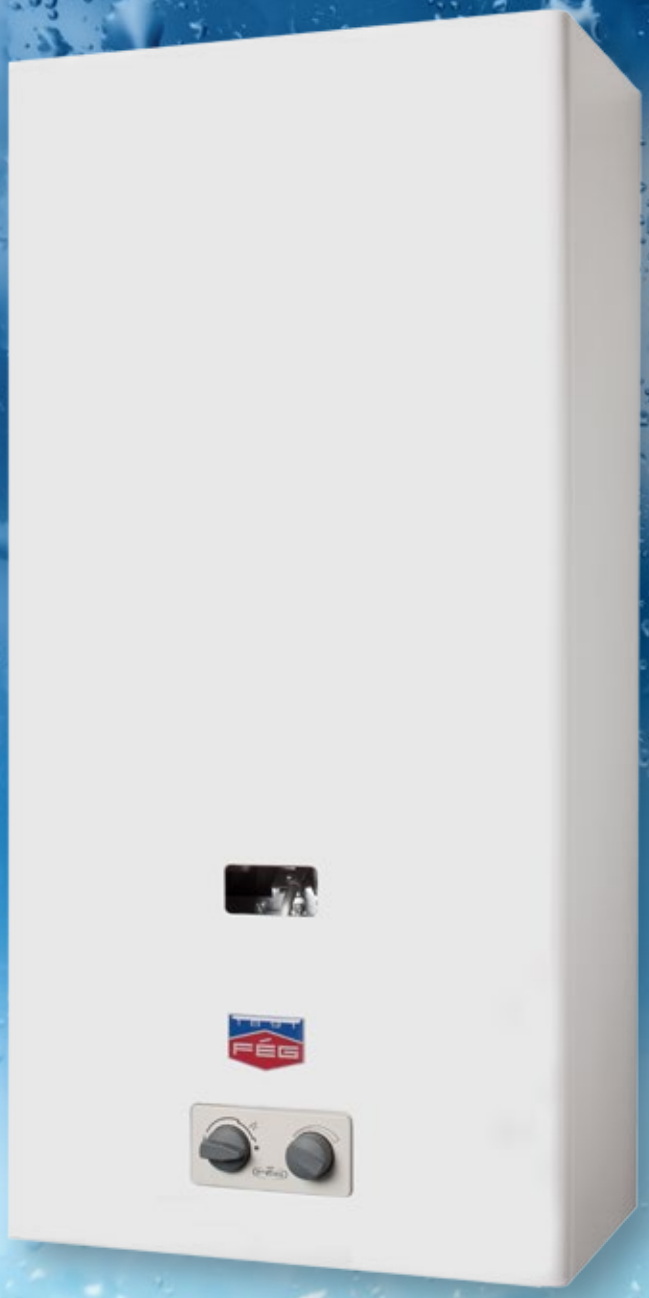
MV GAS TANKLESS WATER HEATERS



E.On Energy Saving Award 2013

FÉG MV 19.1E

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MV GAS TANKLESS WATER HEATERS

A popular method of hot water generation is by using instantaneous or tankless water heater systems. These tankless water heaters are suitable of supplying hot water for bathtubs, basins, sinks and showers directly. Due to its compact size it can be installed close to the outlet slap.

FÉG MV gas water heaters are equipped with a regulator, which keeps the hot water temperature at a constant level independently of the circuit water pressure fluctuation. A pressure difference flow sensor adjusts the burner flame automaticaly-ly (flame modulation), if the circuit water pressure changes or if the tap is opened.

The heating of water is done during use, so there is no storage heat loss. The required water temperature can be generated at any time. The flame height is adjusted in line with the load or water used (flame modulation), thus the required amount of gas automatically fits the needed quantity of hot water.

FÉG MV water heaters are durable even in case of lime water, as the design of the heat exchanger makes multiple chemical cleanings possible.

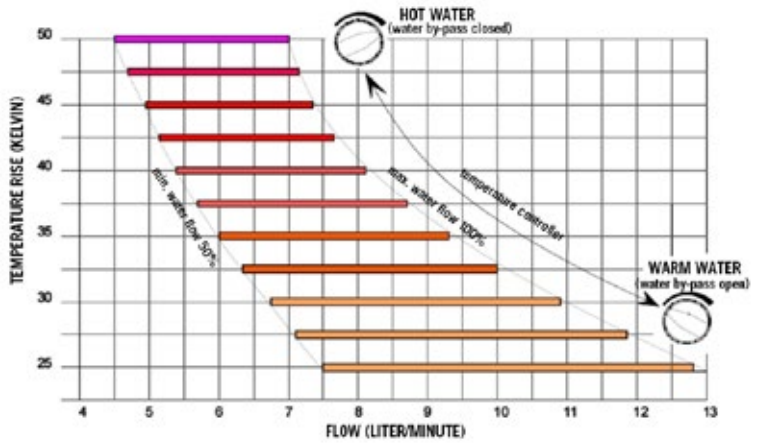
The value keeping temperature regulation ensures that the heated water temperature stays within the range of ±1Co, even when the amount of water flow changes during use (within operational range - see diagram).

The heat exchanger exposed to high flue temperature is engineered for long term. The weight of the heat exchanger is 3,8 kilograms, which is 1½x more than the usual weight of other heat exchangers, due to the thickness and firmness of the materials used.

By proper maintenance and operation the water heaters are designed to run 15-20 years, with low service and fixture costs.

TECHNICAL DATA:

- Mertik-Maxitrol combined water-gas valve
- emission back-flow sensing
- over heating protection
- low water pressure latch
- constant flame modulation
- value keeping hot water temperature regulation
- MV-19.1, MV-21 pilot flame types:
  - piezo electric igniton
  - thermo- electric combustion
  - built in burner pressure stabilizer
- MV-19.1 E, MV-21 E battery ignition (no pilot flame) tpyes:
  - main burner flame ignition start
  - ionization flame guard
- MZV-18 sealed chamber, without chimney, with parapets
- LPG type optionally available



FÉG water heaters		Unit	MV-19.1 MV-19.1E	MV-21 MV-21E	MZV-18-S
Nominal heat load		kW	19,00	25,90	19,40
Nominal heat performance		kW	16,90	22,70	17,50
Efficiency		%	89,00	89,00	90,00
Minimal heat performance		kW	8,45	11,35	8,75
Nominal gas consumption	natural gas	m3/h	2,01	2,70	2,05
	LPG	kg/h	1,49	2,00	1,52
Nominal gaspressure	natural gas	mbar	25	25	25
	LPG	mbar	30	30	30
Hot water output		l/min	2,5-10,0	3,0-13,0	2,4-10,0
Outlet water temperature maximum		°C	65	65	65
Maximum operational water pressure		bar	10,0	10,0	10,0
Ignition			piezo battery	piezo battery	piezo
Chimney connection					
Diameter		mm	Ø110	n.a.	Parapet
Connection					
Cold water		inch	1/2”	1/2”	1/2”
Hot water		inch	1/2”	1/2”	1/2”
Gas		inch	1/2”	1/2”	1/2”
Size, weight					
Height		mm	640	750	910
Depth		mm	210	240	260
Width		mm	360	370	410
Weight		kg	16,5	16,5	24,5

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