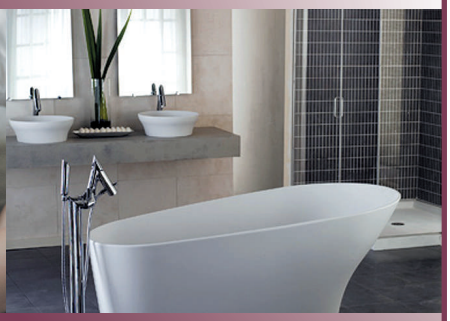
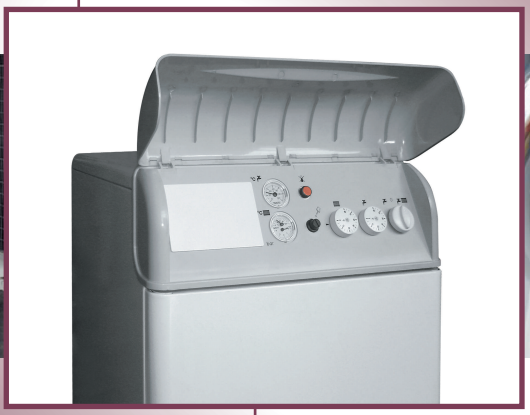
M.I.3





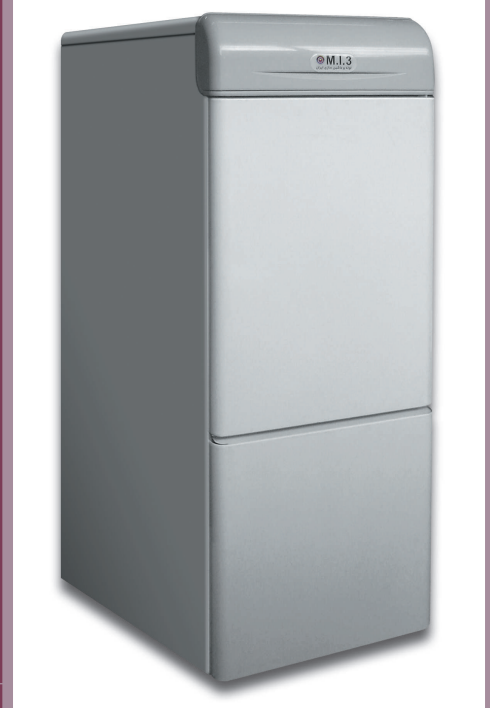
M.I.3

Cast-iron Standing Package

Luleh va Machinsazi Iran (L.M.I) Co.

M.I.3 Cast-Iron Standing Package

- Providing sanitary hot water and heated surrounding.
- Giving independence to each housing unit.
- Economizing energy usage.
- Installable in the open air.
- Taking a space less than half square meter.
- Procuring heated water with a constant temperature in variable debies.
- Impassive to sedimentation.
- Indifferent to water pressure.
- Non-forming electrical pipe between components of the set and radiatirs.
- Possibility of adding a programmable set to control panel.
- Possibility of fixing a thermostat for the room space.
- Equialent to the modern european products.
- Ready for an easy and fast installation.
- Shapely appearance.
- Twenty mounths guarantee and constant services.
- Most suitable package for the floor heating system.



Equipments:

- Cast-iron boiler with proper sections, special design and high heating rate
- Electrical dual stage gas cock
- Electronic control panel for adjusting the gas cock, burning and sparkling control
- Fueled by natural gas and/or LNG
- Electronic automatic sparker (with no pilot light)
- Thermoelectric ionizer system
- 100 liter sanitary hot water tank
- Efficiency up to 90%
- Six sensors for heat controlling
- Two pumps with 3 variable speeds, for sanitary hot water and heated surrounding
- Automatic drain valve for air
- Ten liter expansion tank
- Safety valve
- Special silent burner with minimum air pollution
- For protection of corrosion Magnesium anode for stopping chemical erosion
- Two drain valves for sanitary water and heating system
- Mechanical/electronic control panel (upon order)

The main parts are supplied by the following companies :

- Gas cock	Honeywell or Sit
- Electronic control panel	Honeywell or Sit
- Circulation pumps	DAB, Grandfus, of Italy and Denmark
- Thermostats	Campini Corel, Imit of Italy; Takban of Iran
- Valves	Pintossi of Italy
- Expansion tank(10 liter)	Zimlet of Italy
- Position selecting switch	Gottak of Spain
- illuminating button	Everel of Spain
- Relay and stand of relay	Finder of Germany
- Main design of the burner	Italy

M.I.3

Technical Specifications

Table No 2 (Capacity)

Unit model	Range of adjustable heat capacity				Capacity of heating		Capacity of used heat		Release pressure of safety valve bar
	KW	Kcal/h	KW	Kcal/h	KW	Kcal/h	KW	Kcal/h	
PE3	11.0	9500	18.0	15500	16.2	14000	16.2	14000	3
PE4	16.0	13800	25.5	22000	23.0	19800	23.0	19800	3
PE5	20.0	17200	32.8	28200	29.5	25400	29.5	25400	3

Table No 3 (Rate of used fuel and diameter of the sprinklers)

Unit model	No of sections	No of sprinklers (nozzles)	Diameter of sprinkler (nozzles)		Rate of used gas			
			For natural gas mm	For LNG mm	natural gas		LNG	
					Min. m^3/h	Max. m^3/h	Min. Kg/h	Max. Kg/h
PE3	3	2	2.45	1.55	1.16	1.94	0.90	1.50
PE4	4	3	2.35	1.50	1.69	2.70	1.31	2.08
PE5	5	4	2.35	1.50	2.46	3.47	1.63	2.68

Table No 4 (Pressure of gas in unit, before and after the electrical

Unit model	Pressure of gas before the tap		Pressure of gas after the tap (in Summer times)		Pressure of gas after the tap (in Winter times)			
	natural gas m bar	LNG m bar	natural gas m bar	LNG m bar	natural gas		LNG	
					Min. m bar	Max. m bar	Min. m bar	Max. m bar
PE3	20	37	13.0	35	6.5	13.0	17.4	35
PE4	20	37	15.2	35	7.9	15.2	18.2	35
PE5	20	37	14.2	35	7.0	14.2	17.2	35

Table No 5 (Volume and work pressure)

Unit model	Volume of used hot water heated in time unit of $\Delta t=30^\circ$	Volume of Water		Max. work Pressure		Expansion tank		Gas cock Honeywell / Sit
		Boiler liter	Tank liter	Boiler bar	Tank bar	Valume liter	Pressure bar	
PE3	16	7.3	100	3	9	10	3	VK4105Q2010 / Sit 843
PE4	19	9.0	100	3	9	10	3	VK4105Q2010 / Sit 843
PE5	22	10.7	100	3	9	10	3	VK4105Q2010 / Sit 843

Technical Specifications

Table No 2 (Capacity)

Unit model	Range of adjustable heat capacity				Capacity of heating		Capacity of used heat		Release pressure of safety valve bar
	KW	Kcal/h	KW	Kcal/h	KW	Kcal/h	KW	Kcal/h	
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	natural gas m bar	LNG m bar	natural gas m bar	LNG m bar	natural gas		LNG	
					Min. m bar	Max. m bar	Min. m bar	Max. m bar
PE3	20	37	13.0	35	6.5	13.0	17.4	35
PE4	20	37	15.2	35	7.9	15.2	18.2	35
PE5	20	37	14.2	35	7.0	14.2	17.2	35

Table No 5 (Volume and work pressure)

Unit model	Volume of used hot water heated in time unit of $\Delta t=30^\circ$	Volume of Water		Max. work Pressure		Expansion tank		Gas cock Honeywell / Sit
		Boiler liter	Tank liter	Boiler bar	Tank bar	Valume liter	Pressure bar	
PE3	16	7.3	100	3	9	10	3	VK4105Q2010 / Sit 843
PE4	19	9.0	100	3	9	10	3	VK4105Q2010 / Sit 843
PE5	22	10.7	100	3	9	10	3	VK4105Q2010 / Sit 843

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