

Output capacity of the FriwaMini E8AS

PAW item no. 64014xx, 64015xx



| Temperature storage tank | Hot water temperature set on the controller | maximum output capacity* of the Friwa | Transfer capacity | Tank volume required for one litre of warm water | for a secondary inlet temperature of 10 °C (cold water temperature) - maximum withdrawal quantity** on the mixing valve with | | | | Return temperature to the buffer tank |
|--------------------------|---|---------------------------------------|-------------------|--|--|-----------------|----------|-----------------|---------------------------------------|
| | | | | | 40 °C | 45 °C | 50 °C | 55 °C | |
| 45 °C | 40 °C | 17 l/min | 36 kW | 1,5 l | / | / | / | / | 28 °C |
| | 50 °C | 24 l/min | 51 kW | 1,1 l | / | / | / | / | 27 °C |
| 50 °C | 45 °C | 16 l/min | 40 kW | 1,6 l | 19 l/min | / | / | / | 31 °C |
| | 55 °C | 30 l/min | 64 kW | 0,9 l | / | / | / | / | 26 °C |
| 55 °C | 45 °C | 23 l/min | 56 kW | 1,2 l | 26 l/min | / | / | / | 29 °C |
| | 50 °C | 16 l/min | 44 kW | 1,6 l | 21 l/min | 18 l/min | / | / | 35 °C |
| 60 °C | 40 °C | 36 l/min | 76 kW | 0,7 l | / | / | / | / | 25 °C |
| | 45 °C | 28 l/min | 69 kW | 0,9 l | 32 l/min | / | / | / | 28 °C |
| 60 °C | 50 °C | 22 l/min | 60 kW | 1,2 l | 28 l/min | 24 l/min | / | / | 32 °C |
| | 55 °C | 15 l/min | 48 kW | 1,7 l | 22 l/min | 19 l/min | 17 l/min | / | 38 °C |
| 65 °C | 40 °C | 42 l/min*** | 88 kW | 0,6 l | / | / | / | / | 24 °C |
| | 45 °C | 33 l/min | 81 kW | 0,8 l | 38 l/min | / | / | / | 27 °C |
| 65 °C | 50 °C | 27 l/min | 74 kW | 1,0 l | 35 l/min | 30 l/min | / | / | 31 °C |
| | 55 °C | 21 l/min | 65 kW | 1,3 l | 30 l/min | 26 l/min | 23 l/min | / | 35 °C |
| 65 °C | 60 °C | 15 l/min | 52 kW | 1,7 l | 24 l/min | 21 l/min | 18 l/min | 16 l/min | 41 °C |
| | 70 °C | 42 l/min*** | 88 kW | 0,6 l | / | / | / | / | 24 °C |
| 70 °C | 45 °C | 38 l/min | 93 kW | 0,7 l | 44 l/min | / | / | / | 27 °C |
| | 50 °C | 31 l/min | 87 kW | 0,9 l | 41 l/min | 35 l/min | / | / | 30 °C |
| 70 °C | 55 °C | 25 l/min | 79 kW | 1,1 l | 37 l/min | 32 l/min | 28 l/min | / | 33 °C |
| | 60 °C | 20 l/min | 69 kW | 1,3 l | 33 l/min | 28 l/min | 24 l/min | 22 l/min | 38 °C |
| 75 °C | 40 °C | 42 l/min*** | 88 kW | 0,5 l | / | / | / | / | 24 °C |
| | 45 °C | 42 l/min*** | 102 kW | 0,6 l | 49 l/min | / | / | / | 26 °C |
| 75 °C | 50 °C | 36 l/min | 99 kW | 0,8 l | 47 l/min | 40 l/min | / | / | 29 °C |
| | 55 °C | 29 l/min | 92 kW | 0,9 l | 44 l/min | 37 l/min | 32 l/min | / | 32 °C |
| 75 °C | 60 °C | 24 l/min | 84 kW | 1,1 l | 40 l/min | 34 l/min | 30 l/min | 26 l/min | 36 °C |
| | 80 °C | 40 °C | 42 l/min*** | 88 kW | 0,5 l | / | / | / | / |
| 45 °C | | 42 l/min*** | 102 kW | 0,6 l | 49 l/min | / | / | / | 26 °C |
| 80 °C | 50 °C | 40 l/min | 111 kW | 0,7 l | 52 l/min | 45 l/min | / | / | 28 °C |
| | 55 °C | 33 l/min | 105 kW | 0,8 l | 50 l/min | 42 l/min | 37 l/min | / | 31 °C |
| 80 °C | 60 °C | 28 l/min | 98 kW | 1,0 l | 46 l/min | 39 l/min | 34 l/min | 31 l/min | 34 °C |
| | 85 °C | 40 °C | 42 l/min*** | 88 kW | 0,4 l | / | / | / | / |
| 45 °C | | 42 l/min*** | 102 kW | 0,5 l | 49 l/min | / | / | / | 25 °C |
| 85 °C | 50 °C | 42 l/min*** | 117 kW | 0,6 l | 56 l/min | 47 l/min | / | / | 28 °C |
| | 55 °C | 37 l/min | 117 kW | 0,7 l | 55 l/min | 47 l/min | 41 l/min | / | 30 °C |
| 85 °C | 60 °C | 32 l/min | 110 kW | 0,9 l | 52 l/min | 45 l/min | 39 l/min | 35 l/min | 33 °C |
| | 90 °C | 40 °C | 42 l/min*** | 88 kW | 0,4 l | / | / | / | / |
| 45 °C | | 42 l/min*** | 102 kW | 0,5 l | 49 l/min | / | / | / | 25 °C |
| 90 °C | 50 °C | 42 l/min*** | 117 kW | 0,6 l | 56 l/min | 47 l/min | / | / | 27 °C |
| | 55 °C | 41 l/min | 128 kW | 0,7 l | 61 l/min | 52 l/min | 45 l/min | / | 30 °C |
| 90 °C | 60 °C | 35 l/min | 122 kW | 0,8 l | 58 l/min | 50 l/min | 43 l/min | 38 l/min | 32 °C |
| | 95 °C | 40 °C | 42 l/min*** | 88 kW | 0,4 l | / | / | / | / |
| 45 °C | | 42 l/min*** | 102 kW | 0,5 l | 49 l/min | / | / | / | 25 °C |
| 95 °C | 50 °C | 42 l/min*** | 117 kW | 0,5 l | 56 l/min | 47 l/min | / | / | 27 °C |
| | 55 °C | 42 l/min*** | 132 kW | 0,6 l | 63 l/min | 53 l/min | 47 l/min | / | 29 °C |
| 95 °C | 60 °C | 38 l/min | 134 kW | 0,7 l | 64 l/min | 54 l/min | 47 l/min | 42 l/min | 32 °C |

* the maximum output capacity depends on the pressure drop on the primary side

** the maximum withdrawal quantity at the mixing valve depends on the length and the insulation of the pipes

*** max. flow rate: 42 l/min, pressure drop of Friwa module is at 1000 mbar (higher values are hydraulically limited, measuring limit of flow rate sensor ~ 42 l/min)

Example: the temperature in the storage tank (primary) is 65 °C and the hot water temperature set on the controller is 50 °C (secondary):

- with 65 °C in the storage tank a maximum of 27 litres of domestic water/minute can be heated to 50 °C
- this withdrawal corresponds to a performance of 74 kW
- to produce 1 litre (100 litres) of warm water there must be 1,2 litre (120 litres) with 65 °C in the buffer tank
- 27 litres of warm water/minute with 50 °C can be mixed with cold water (10 °C) to obtain 30 litres/minute with 45 °C
- the primary return temperature for a withdrawal of 27 litres of warm water/minute is about 31 °C