

Output capacity of the FriwaMidi

PAW item no. 64054xx, 64055xx



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	34 l/min	71 kW	1,2 l	/	/	/	/	20 °C
	50 °C	44 l/min	93 kW	0,9 l	/	/	/	/	18 °C
50 °C	45 °C	32 l/min	79 kW	1,3 l	37 l/min	/	/	/	22 °C
	55 °C	53 l/min	111 kW	0,8 l	/	/	/	/	16 °C
55 °C	45 °C	42 l/min	102 kW	1,0 l	48 l/min	/	/	/	19 °C
	50 °C	31 l/min	87 kW	1,3 l	41 l/min	35 l/min	/	/	24 °C
60 °C	40 °C	61 l/min	128 kW	0,7 l	/	/	/	/	15 °C
	45 °C	50 l/min	121 kW	0,8 l	57 l/min	/	/	/	17 °C
60 °C	50 °C	40 l/min	111 kW	1,0 l	53 l/min	45 l/min	/	/	21 °C
	55 °C	30 l/min	95 kW	1,4 l	45 l/min	38 l/min	34 l/min	/	27 °C
65 °C	40 °C	65 l/min***	136 kW	0,6 l	/	/	/	/	14 °C
	45 °C	57 l/min	139 kW	0,7 l	66 l/min	/	/	/	16 °C
65 °C	50 °C	47 l/min	131 kW	0,9 l	62 l/min	53 l/min	/	/	19 °C
	55 °C	38 l/min	120 kW	1,1 l	57 l/min	49 l/min	43 l/min	/	23 °C
65 °C	60 °C	30 l/min	103 kW	1,4 l	49 l/min	42 l/min	36 l/min	32 l/min	29 °C
	70 °C	40 °C	65 l/min***	136 kW	0,5 l	/	/	/	14 °C
70 °C	45 °C	63 l/min	155 kW	0,7 l	74 l/min	/	/	/	15 °C
	50 °C	53 l/min	149 kW	0,8 l	71 l/min	60 l/min	/	/	17 °C
70 °C	55 °C	45 l/min	141 kW	0,9 l	67 l/min	57 l/min	50 l/min	/	20 °C
	60 °C	37 l/min	130 kW	1,1 l	61 l/min	52 l/min	46 l/min	41 l/min	24 °C
75 °C	40 °C	65 l/min***	136 kW	0,5 l	/	/	/	/	13 °C
	45 °C	65 l/min***	159 kW	0,6 l	75 l/min	/	/	/	15 °C
75 °C	50 °C	59 l/min	166 kW	0,7 l	79 l/min	67 l/min	/	/	16 °C
	55 °C	51 l/min	159 kW	0,8 l	76 l/min	65 l/min	56 l/min	/	19 °C
75 °C	60 °C	43 l/min	151 kW	1,0 l	72 l/min	61 l/min	53 l/min	47 l/min	22 °C
	80 °C	40 °C	65 l/min***	136 kW	0,4 l	/	/	/	13 °C
80 °C	45 °C	65 l/min***	159 kW	0,5 l	75 l/min	/	/	/	14 °C
	50 °C	65 l/min	181 kW	0,6 l	86 l/min	74 l/min	/	/	15 °C
80 °C	55 °C	56 l/min	176 kW	0,7 l	84 l/min	72 l/min	63 l/min	/	17 °C
	60 °C	49 l/min	170 kW	0,9 l	81 l/min	69 l/min	60 l/min	53 l/min	20 °C
85 °C	40 °C	65 l/min***	136 kW	0,4 l	/	/	/	/	13 °C
	45 °C	65 l/min***	159 kW	0,5 l	75 l/min	/	/	/	13 °C
85 °C	50 °C	65 l/min***	181 kW	0,6 l	86 l/min	74 l/min	/	/	15 °C
	55 °C	61 l/min	193 kW	0,7 l	92 l/min	78 l/min	68 l/min	/	16 °C
85 °C	60 °C	54 l/min	187 kW	0,8 l	89 l/min	76 l/min	66 l/min	59 l/min	18 °C
	90 °C	40 °C	65 l/min***	136 kW	0,4 l	/	/	/	12 °C
90 °C	45 °C	65 l/min***	159 kW	0,5 l	75 l/min	/	/	/	13 °C
	50 °C	65 l/min***	181 kW	0,5 l	86 l/min	74 l/min	/	/	14 °C
90 °C	55 °C	65 l/min***	204 kW	0,6 l	97 l/min	83 l/min	72 l/min	/	16 °C
	60 °C	58 l/min	203 kW	0,7 l	97 l/min	83 l/min	72 l/min	64 l/min	17 °C
95 °C	40 °C	65 l/min***	136 kW	0,4 l	/	/	/	/	12 °C
	45 °C	65 l/min***	159 kW	0,4 l	75 l/min	/	/	/	13 °C
95 °C	50 °C	65 l/min***	181 kW	0,5 l	86 l/min	74 l/min	/	/	14 °C
	55 °C	65 l/min***	204 kW	0,6 l	97 l/min	83 l/min	72 l/min	/	15 °C
95 °C	60 °C	63 l/min	219 kW	0,7 l	104 l/min	89 l/min	78 l/min	69 l/min	16 °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: 65 l/min, pressure drop of Friwa module is at 1000 mbars (higher values are hydraulically limited, measuring limit of flow rate sensor ~ 133 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 47 litres of domestic water/minute can be heated to 50 °C
- this withdrawal corresponds to a performance of 131 kW
- to produce 1 litre (100 litres) of warm water there must be 0,9 litres (90 litres) with 65 °C in the buffer tank
- 47 litres of warm water/minute with 50 °C can be mixed with cold water (10 °C) to obtain 53 litres/minute with 45 °C
- the primary return temperature for a withdrawal of 47 litres of warm water/minute is about 19 °C