

# Output capacity of the FriwaMaxi

PAW item no. 64064xx, 64065xx



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	52 l/min	109 kW	1,2 l	/	/	/	/	20 °C
50 °C	40 °C	68 l/min	143 kW	0,9 l	/	/	/	/	18 °C
	45 °C	<b>50 l/min</b>	<b>122 kW</b>	<b>1,3 l</b>	58 l/min	/	/	/	<b>22 °C</b>
55 °C	40 °C	82 l/min	172 kW	0,8 l	/	/	/	/	16 °C
	45 °C	<b>65 l/min</b>	<b>158 kW</b>	<b>1,0 l</b>	75 l/min	/	/	/	<b>19 °C</b>
	50 °C	<b>48 l/min</b>	<b>135 kW</b>	<b>1,3 l</b>	64 l/min	<b>55 l/min</b>	/	/	<b>24 °C</b>
60 °C	40 °C	88 l/min***	184 kW	0,7 l	/	/	/	/	15 °C
	45 °C	<b>77 l/min</b>	<b>187 kW</b>	<b>0,8 l</b>	89 l/min	/	/	/	<b>17 °C</b>
	50 °C	<b>62 l/min</b>	<b>172 kW</b>	<b>1,0 l</b>	82 l/min	<b>70 l/min</b>	/	/	<b>21 °C</b>
	55 °C	<b>47 l/min</b>	<b>148 kW</b>	<b>1,4 l</b>	70 l/min	<b>60 l/min</b>	52 l/min	/	<b>26 °C</b>
65 °C	40 °C	88 l/min***	184 kW	0,6 l	/	/	/	/	14 °C
	45 °C	<b>88 l/min</b>	<b>214 kW</b>	<b>0,7 l</b>	102 l/min	/	/	/	<b>16 °C</b>
	50 °C	<b>73 l/min</b>	<b>203 kW</b>	<b>0,9 l</b>	96 l/min	<b>82 l/min</b>	/	/	<b>19 °C</b>
	55 °C	<b>59 l/min</b>	<b>187 kW</b>	<b>1,1 l</b>	88 l/min	<b>76 l/min</b>	66 l/min	/	<b>22 °C</b>
	60 °C	46 l/min	160 kW	1,4 l	76 l/min	<b>65 l/min</b>	57 l/min	<b>50 l/min</b>	28 °C
70 °C	40 °C	88 l/min***	184 kW	0,5 l	/	/	/	/	14 °C
	45 °C	<b>88 l/min***</b>	<b>215 kW</b>	<b>0,6 l</b>	102 l/min	/	/	/	<b>15 °C</b>
	50 °C	<b>83 l/min</b>	<b>230 kW</b>	<b>0,8 l</b>	109 l/min	<b>94 l/min</b>	/	/	<b>17 °C</b>
	55 °C	<b>70 l/min</b>	<b>218 kW</b>	<b>0,9 l</b>	103 l/min	<b>89 l/min</b>	78 l/min	/	<b>20 °C</b>
	60 °C	58 l/min	201 kW	1,1 l	95 l/min	<b>81 l/min</b>	71 l/min	<b>63 l/min</b>	24 °C
75 °C	40 °C	88 l/min***	184 kW	0,5 l	/	/	/	/	13 °C
	45 °C	<b>88 l/min***</b>	<b>215 kW</b>	<b>0,6 l</b>	102 l/min	/	/	/	<b>14 °C</b>
	50 °C	<b>88 l/min***</b>	<b>245 kW</b>	<b>0,7 l</b>	116 l/min	<b>100 l/min</b>	/	/	<b>16 °C</b>
	55 °C	<b>79 l/min</b>	<b>246 kW</b>	<b>0,8 l</b>	117 l/min	<b>100 l/min</b>	88 l/min	/	<b>18 °C</b>
	60 °C	67 l/min	233 kW	1,0 l	111 l/min	<b>95 l/min</b>	83 l/min	<b>74 l/min</b>	21 °C
80 °C	40 °C	88 l/min***	184 kW	0,4 l	/	/	/	/	13 °C
	45 °C	<b>88 l/min***</b>	<b>215 kW</b>	<b>0,5 l</b>	102 l/min	/	/	/	<b>14 °C</b>
	50 °C	<b>88 l/min***</b>	<b>245 kW</b>	<b>0,6 l</b>	116 l/min	<b>100 l/min</b>	/	/	<b>15 °C</b>
	55 °C	<b>87 l/min</b>	<b>273 kW</b>	<b>0,7 l</b>	129 l/min	<b>111 l/min</b>	97 l/min	/	<b>17 °C</b>
	60 °C	75 l/min	262 kW	0,9 l	124 l/min	<b>107 l/min</b>	93 l/min	<b>83 l/min</b>	20 °C
85 °C	40 °C	88 l/min***	184 kW	0,4 l	/	/	/	/	12 °C
	45 °C	<b>88 l/min***</b>	<b>215 kW</b>	<b>0,5 l</b>	102 l/min	/	/	/	<b>13 °C</b>
	50 °C	<b>88 l/min***</b>	<b>245 kW</b>	<b>0,6 l</b>	116 l/min	<b>100 l/min</b>	/	/	<b>15 °C</b>
	55 °C	<b>88 l/min***</b>	<b>276 kW</b>	<b>0,7 l</b>	131 l/min	<b>112 l/min</b>	98 l/min	/	<b>16 °C</b>
	60 °C	83 l/min	289 kW	0,8 l	137 l/min	<b>118 l/min</b>	103 l/min	<b>91 l/min</b>	18 °C
90 °C	40 °C	88 l/min***	184 kW	0,4 l	/	/	/	/	12 °C
	45 °C	<b>88 l/min***</b>	<b>215 kW</b>	<b>0,5 l</b>	102 l/min	/	/	/	<b>13 °C</b>
	50 °C	<b>88 l/min***</b>	<b>245 kW</b>	<b>0,5 l</b>	116 l/min	<b>100 l/min</b>	/	/	<b>14 °C</b>
	55 °C	<b>88 l/min***</b>	<b>276 kW</b>	<b>0,6 l</b>	131 l/min	<b>112 l/min</b>	98 l/min	/	<b>15 °C</b>
	60 °C	88 l/min	307 kW	0,7 l	146 l/min	<b>125 l/min</b>	109 l/min	<b>97 l/min</b>	17 °C
95 °C	40 °C	88 l/min***	184 kW	0,4 l	/	/	/	/	12 °C
	45 °C	<b>88 l/min***</b>	<b>215 kW</b>	<b>0,4 l</b>	102 l/min	/	/	/	<b>13 °C</b>
	50 °C	<b>88 l/min***</b>	<b>245 kW</b>	<b>0,5 l</b>	116 l/min	<b>100 l/min</b>	/	/	<b>14 °C</b>
	55 °C	<b>88 l/min***</b>	<b>276 kW</b>	<b>0,6 l</b>	131 l/min	<b>112 l/min</b>	98 l/min	/	<b>15 °C</b>
	60 °C	88 l/min***	307 kW	0,6 l	146 l/min	<b>125 l/min</b>	109 l/min	<b>97 l/min</b>	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: 88 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 73 litres of domestic water/minute can be heated to 50 °C
- this withdrawal corresponds to a performance of 203 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
- 73 litres of warm water/minute with 50 °C can be mixed with cold water (10 °C) to obtain 83 litres/minute with 45 °C
- the primary return temperature for a withdrawal of 73 litres of warm water/minute is about 19 °C