

# Output capacity of the FriwaMega

PAW item no. 64075x, 64076x



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	85 l/min	178 kW	1,2 l	/	/	/	/	19 °C
	50 °C	110 l/min	230 kW	0,9 l	/	/	/	/	17 °C
50 °C	45 °C	<b>82 l/min</b>	<b>199 kW</b>	<b>1,2 l</b>	95 l/min	/	/	/	<b>21 °C</b>
	55 °C	130 l/min***	272 kW	0,8 l	/	/	/	/	15 °C
55 °C	45 °C	<b>104 l/min</b>	<b>254 kW</b>	<b>1,0 l</b>	121 l/min	/	/	/	<b>18 °C</b>
	50 °C	<b>79 l/min</b>	<b>220 kW</b>	<b>1,3 l</b>	105 l/min	<b>89 l/min</b>	/	/	<b>23 °C</b>
60 °C	40 °C	130 l/min***	272 kW	0,7 l	/	/	/	/	14 °C
	45 °C	<b>123 l/min</b>	<b>300 kW</b>	<b>0,8 l</b>	143 l/min	/	/	/	<b>16 °C</b>
	50 °C	<b>100 l/min</b>	<b>278 kW</b>	<b>1,0 l</b>	132 l/min	<b>113 l/min</b>	/	/	<b>19 °C</b>
	55 °C	<b>77 l/min</b>	<b>241 kW</b>	<b>1,3 l</b>	115 l/min	<b>98 l/min</b>	86 l/min	/	<b>25 °C</b>
65 °C	40 °C	130 l/min***	272 kW	0,6 l	/	/	/	/	13 °C
	45 °C	<b>130 l/min***</b>	<b>317 kW</b>	<b>0,7 l</b>	151 l/min	/	/	/	<b>15 °C</b>
	50 °C	<b>117 l/min</b>	<b>325 kW</b>	<b>0,9 l</b>	155 l/min	<b>132 l/min</b>	/	/	<b>17 °C</b>
	55 °C	<b>96 l/min</b>	<b>301 kW</b>	<b>1,0 l</b>	143 l/min	<b>123 l/min</b>	107 l/min	/	<b>21 °C</b>
70 °C	60 °C	75 l/min	261 kW	1,3 l	124 l/min	<b>106 l/min</b>	93 l/min	<b>83 l/min</b>	27 °C
	40 °C	130 l/min***	272 kW	0,5 l	/	/	/	/	13 °C
	45 °C	<b>130 l/min***</b>	<b>317 kW</b>	<b>0,6 l</b>	151 l/min	/	/	/	<b>14 °C</b>
	50 °C	<b>130 l/min***</b>	<b>363 kW</b>	<b>0,7 l</b>	173 l/min	<b>148 l/min</b>	/	/	<b>16 °C</b>
	55 °C	<b>112 l/min</b>	<b>350 kW</b>	<b>0,9 l</b>	167 l/min	<b>143 l/min</b>	125 l/min	/	<b>19 °C</b>
	60 °C	93 l/min	324 kW	1,1 l	154 l/min	<b>132 l/min</b>	115 l/min	<b>103 l/min</b>	22 °C
75 °C	40 °C	130 l/min***	272 kW	0,5 l	/	/	/	/	12 °C
	45 °C	<b>130 l/min***</b>	<b>317 kW</b>	<b>0,6 l</b>	151 l/min	/	/	/	<b>14 °C</b>
	50 °C	<b>130 l/min***</b>	<b>363 kW</b>	<b>0,7 l</b>	173 l/min	<b>148 l/min</b>	/	/	<b>15 °C</b>
	55 °C	<b>125 l/min</b>	<b>394 kW</b>	<b>0,8 l</b>	188 l/min	<b>160 l/min</b>	140 l/min	/	<b>17 °C</b>
	60 °C	107 l/min	375 kW	0,9 l	179 l/min	<b>153 l/min</b>	133 l/min	<b>119 l/min</b>	20 °C
80 °C	40 °C	130 l/min***	272 kW	0,4 l	/	/	/	/	12 °C
	45 °C	<b>130 l/min***</b>	<b>317 kW</b>	<b>0,5 l</b>	151 l/min	/	/	/	<b>13 °C</b>
	50 °C	<b>130 l/min***</b>	<b>363 kW</b>	<b>0,6 l</b>	173 l/min	<b>148 l/min</b>	/	/	<b>14 °C</b>
	55 °C	<b>130 l/min***</b>	<b>408 kW</b>	<b>0,7 l</b>	195 l/min	<b>166 l/min</b>	145 l/min	/	<b>16 °C</b>
	60 °C	120 l/min	419 kW	0,8 l	200 l/min	<b>171 l/min</b>	149 l/min	<b>133 l/min</b>	18 °C
85 °C	40 °C	130 l/min***	272 kW	0,4 l	/	/	/	/	12 °C
	45 °C	<b>130 l/min***</b>	<b>317 kW</b>	<b>0,5 l</b>	151 l/min	/	/	/	<b>13 °C</b>
	50 °C	<b>130 l/min***</b>	<b>363 kW</b>	<b>0,6 l</b>	173 l/min	<b>148 l/min</b>	/	/	<b>14 °C</b>
	55 °C	<b>130 l/min***</b>	<b>408 kW</b>	<b>0,6 l</b>	195 l/min	<b>166 l/min</b>	145 l/min	/	<b>15 °C</b>
	60 °C	130 l/min***	453 kW	0,7 l	216 l/min	<b>185 l/min</b>	162 l/min	<b>144 l/min</b>	17 °C
90 °C	40 °C	130 l/min***	272 kW	0,4 l	/	/	/	/	12 °C
	45 °C	<b>130 l/min***</b>	<b>317 kW</b>	<b>0,4 l</b>	151 l/min	/	/	/	<b>12 °C</b>
	50 °C	<b>130 l/min***</b>	<b>363 kW</b>	<b>0,5 l</b>	173 l/min	<b>148 l/min</b>	/	/	<b>13 °C</b>
	55 °C	<b>130 l/min***</b>	<b>408 kW</b>	<b>0,6 l</b>	195 l/min	<b>166 l/min</b>	145 l/min	/	<b>14 °C</b>
95 °C	60 °C	130 l/min***	453 kW	0,7 l	216 l/min	<b>185 l/min</b>	162 l/min	<b>144 l/min</b>	16 °C
	40 °C	130 l/min***	272 kW	0,4 l	/	/	/	/	11 °C
	45 °C	<b>130 l/min***</b>	<b>317 kW</b>	<b>0,4 l</b>	151 l/min	/	/	/	<b>12 °C</b>
	50 °C	<b>130 l/min***</b>	<b>363 kW</b>	<b>0,5 l</b>	173 l/min	<b>148 l/min</b>	/	/	<b>13 °C</b>
	55 °C	<b>130 l/min***</b>	<b>408 kW</b>	<b>0,6 l</b>	195 l/min	<b>166 l/min</b>	145 l/min	/	<b>14 °C</b>
60 °C	130 l/min***	453 kW	0,6 l	216 l/min	<b>185 l/min</b>	162 l/min	<b>144 l/min</b>	15 °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: 130 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 117 litres of domestic water/minute can be heated to 50 °C
- this withdrawal corresponds to a performance of 325 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
- 117 litres of warm water/minute with 50 °C can be mixed with cold water (10 °C) to obtain 132 litres/minute with 45 °C
- the primary return temperature for a withdrawal of 117 litres of warm water/minute is about 17 °C