

# Performance

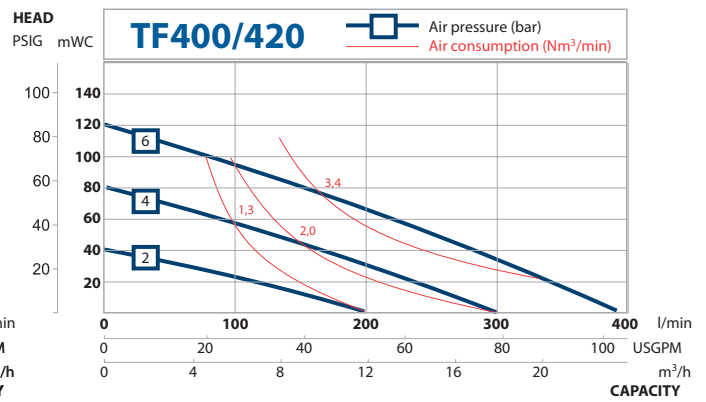
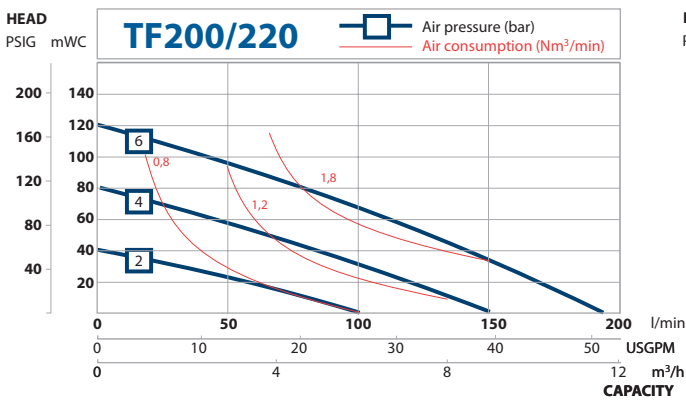
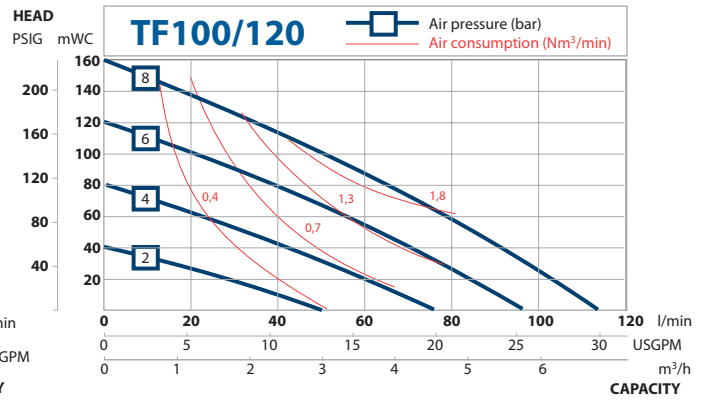
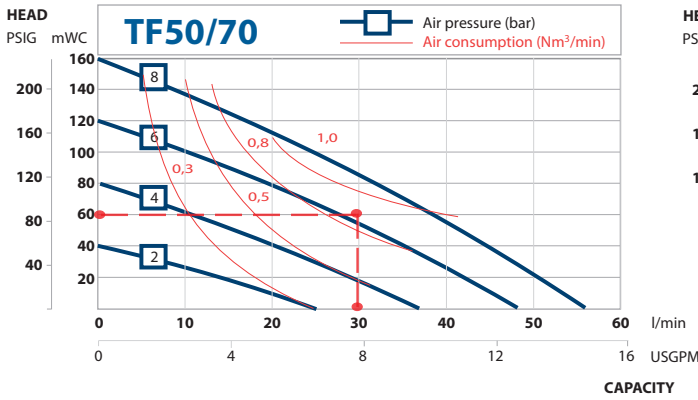
The performance curves are based on water at 20 °C. Other circumstances might change the performance.

## Example:

A flow of 30 liters/minute is desired. The discharge pressure is calculated to 60 mWC.

We choose a TF50 pump.

It requires air pressure of 6 bar and will consume approximately 0.80 Nm<sup>3</sup> of air per minute.



Technical data	Pump size			
	TF50	TF100	TF200	TF400
Max capacity* [l/min] / [US GPM]	60 / 15.8	125 / 33	330 / 87	570 / 150
Volume per stroke** [ml] / [cu in]	87.5 / 5.34	280 / 17.1	933 / 56.9	2300 / 140.3
Max discharge pressure [bar] / [psi]	16 / 232	16 / 232	12 / 174	12 / 174
Max air pressure [bar] / [psi]	8 / 116	8 / 116	6 / 87	6 / 87
Max suction lift dry*** [m] / [Ft]	2.5 / 8	3.5 / 11	4 / 13	4 / 13
Max suction lift wet [m] / [Ft]	8 / 26	8 / 26	8 / 26	8 / 26
Max size of solids ø in [mm] / [in]	4 / 0.16	6 / 0.24	10 / 0.39	15 / 0.59
Max temp. pump in PE [°C] / [°F]	70 / 158	70 / 158	70 / 158	70 / 158
Max temp. pump in PTFE [°C] / [°F]	100 / 212	100 / 212	100 / 212	100 / 212
Weight of pump in PE [kg] / [lb]	6 / 16.08	12 / 32.15	27 / 72.34	49 / 131.28
Weight of pump in PTFE [kg] / [lb]	9 / 19.84	19 / 50.91	47 / 103.62	95 / 254.53

Technical data	Pump size			
	TF70	TF120	TF220	TF420
Max capacity* [l/min] / [US GPM]	78 / 20	158 / 41	330 / 87	570 / 150
Volume per stroke** [ml] / [cu in]	87.5 / 5.34	280 / 17.1	933 / 56.9	2300 / 140.3
Max discharge pressure [bar] / [psi]	16 / 232	16 / 232	12 / 174	12 / 174
Max air pressure [bar] / [psi]	8 / 116	8 / 116	6 / 87	6 / 87
Max suction lift dry*** [m] / [Ft]	3 / 9.8	4 / 13	4 / 13	4 / 13
Max suction lift wet [m] / [Ft]	8 / 26	8 / 26	8 / 26	8 / 26
Max size of solids ø in [mm] / [in]	4 / 0.16	6 / 0.24	10 / 0.39	15 / 0.59
Max temperature with EPDM/NBR [°C] / [°F]	80 / 176	80 / 176	80 / 176	80 / 176
Max temperature with PTFE [°C] / [°F]	110 / 230	110 / 230	110 / 230	110 / 230
Weight in aluminium [kg] / [lb]	6 / 16	9 / 24	20 / 54	35 / 94
Weight in cast iron [kg] / [lb]	11 / 30	18 / 48	45 / 121	81 / 217
Weight in AISI 316 [kg] / [lb]	8 / 21	17 / 46	39 / 105	69 / 185

\* = Recommended flow is half of the max flow, i.e. recommended flow for a T50 is 30 l/min (7.9 US GPM)  
 \*\* = Based on pumps with EPDM diaphragms. Pumps with PTFE diaphragms have about 15% less volume.  
 \*\*\* = With stainless steel valve balls, other materials may reduce suction. Please consult us in this matter.