

Immersion Pumps

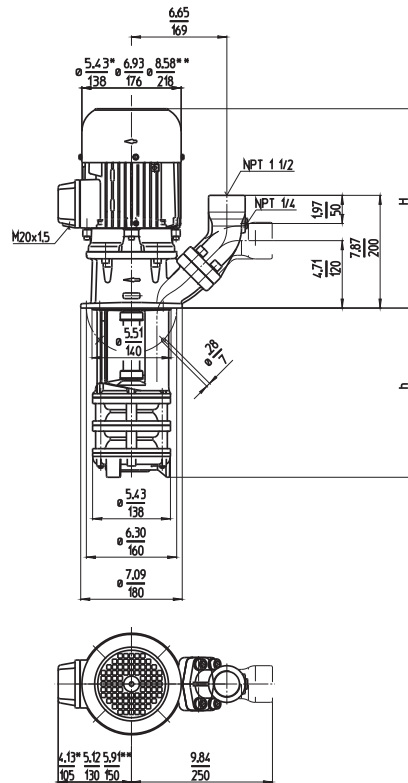
STA401...407

Semi-open impellers



60 Hz

STA401...407



Dimensions in Inches / mm

*) Dimensions STA401

**) Dimensions STA405, 406, 407

Type	Flow at head GPM /Feet	Height H inch	Depth of im- mersion h inch h mm	Weight Lbs kg	Power HP kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current AMPS	Speed RPM
STA401S120	60/24	13.1	4.72 120	47.4 21.5	1.3	230	60	4	3450
200			7.87 200	49.6 22.5	0.98	460	60	2	3450
270			10.63 270	51.8 23.5					
350			13.78 350	54.0 24.5					
440			17.32 440	56.2 25.5					
550			21.65 550	60.6 27.5					
750			29.53 750	75.0 34.0					
900			35.43 900	79.4 36.0					
STA402S170	60/45	15.0	6.69 170	68.4 31.0	2	230	60	5.4	3500
250			9.84 250	71.7 32.5	1.49	460	60	2.7	3500
320			12.60 320	73.9 33.5					
400			15.75 400	76.1 34.5					
490			19.29 490	78.3 35.5					
600			23.62 600	81.6 37.0					
800			31.50 800	97.0 44.0					
950			37.40 950	101.4 46.0					
STA403S220	60/70	17.3	8.66 220	88.2 40	2.9	230	60	7.8	3500
300			11.81 300	90.4 41	2.18	460	60	3.9	3500
370			14.57 370	92.6 42					
450			17.72 450	94.8 43					
540			21.26 540	97.0 44					
650			25.59 650	101.4 46					
850			33.46 850	114.7 52					
1000			39.37 1000	121.3 55					
STA404S270	60/92	17.3	10.63 270	97.0 44	3.9	230	60	10.2	3480
350			13.78 350	99.2 45	2.94	460	60	5.1	3480
420			16.54 420	101.4 46					
500			19.69 500	105.8 48					
590			23.23 590	108.0 49					
700			27.56 700	112.5 51					
900			35.43 900	125.7 57					
1050			41.34 1050	130.1 59					
STA405S320	60/120	18.8	12.60 320	125.7 57	5.1	230	60	12.8	3520
400			15.75 400	127.9 58	3.8	460	60	6.4	3520
470			18.50 470	130.1 59					
550			21.65 550	132.3 60					
640			25.20 640	134.5 61					
750			29.53 750	141.1 64					
950			37.40 950	154.4 70					
1100			43.31 1100	158.8 72					
STA406S370	60/145	18.8	14.57 370	130.1 59	6.1	230	60	15.8	3520
450			17.72 450	134.5 61	4.55	460	60	7.9	3520
520			20.47 520	136.7 62					
600			23.62 600	138.9 63					
690			27.17 690	141.1 64					
800			31.50 800	145.5 66					
1000			39.37 1000	161.0 73					
STA407S420	60/170	20.0	16.54 420	156.6 71	7.7	230	60	19.0	3520
500			19.69 500	158.8 72	5.75	460	60	9.5	3520
570			22.44 570	161.0 73					
650			25.59 650	165 75					
740			29.13 740	168 76					
850			33.46 850	172 78					



Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.

The maximum coolant level must stay a few inches below the mounting flange.

The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).

For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.

The STA pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.



All types are also available as quick-suctioning immersion pumps equipped with "BRINKMANN's Suction De-aeration System". See series SAL.



All types are also available as suction immersion pumps with a connection to a vacuum filter on the suction side. See series STS.



Applications

Types of fluid

coolants
cooling/cutting oils

Kinematic viscosity

...200 SSU (...45 mm²/s)

Pumping temperature

30...175 °F (0...80 °C)

higher temperatures upon request

Construction

Pump body

cast iron

Cover

cast iron

Impellers

brass

Shaft

steel

Optional:

Suction cover

with threaded inlet

Impellers

cast steel

Noise level

STA401

65 dBA

STA402...STA404

69 dBA

STA405...STA407

73 dBA

