



## CENTRIFUGAL PUMPS FOR LOW AND MEDIUM PRESSURE

### TYPE IL, IL-N

#### Applications

For circulating clean, non-corrosive fluids.  
Heating and air-conditioning.  
Water supply.  
Circulating installations.

#### Hydraulic Data

Capacity up to 500 m<sup>3</sup>/h.  
Total head up to 90 m.  
Temperature up to 140° C.  
Pressure up to 10 bar.

#### Design Features

Single stage centrifugal pump of IN LINE type in compact design.

Motor and pump are close coupled.

IL type. Motor with special shaft-end and flange to fit the pump. Mounting V1.

IL-N type. Standard motor with mounting V1.

Suction and discharge flanges being of the same diameter and arranged opposite to each other can be directly mounted in the pipe line.

Flanges according to DIN 2532.

Back pull out design allows easy access to rotating elements for routine maintenance without disturbing pipework.

Simple installation.

No alignment problems.

All pumps fitted with self - adjusting mechanical seals, of design proven to eliminate gland leakages.

Capability of horizontal and vertical installation ( see also page 5). Vertical installation only possible with motor above pump.

The pump is usually supported by the piping but it can also be supported by a special bracket on request.

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**DP** DRAKOS-POLEMIS INC  
Pump Manufacturers

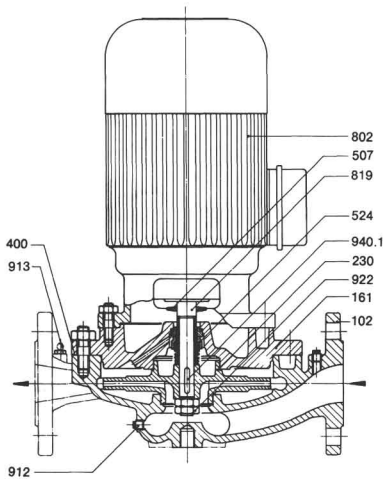
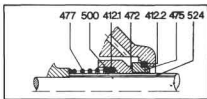
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## Sectional View

### Type IL



### Part's list

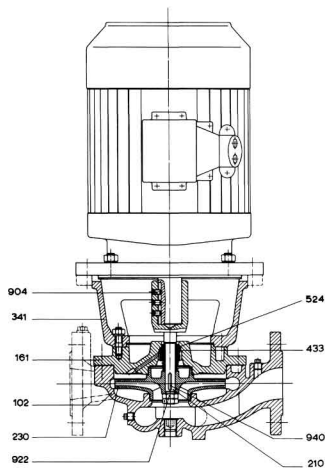
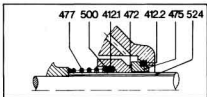
VDMA Number	Part Name	Material of construction	
		Standard	
102	Pump casing	GG 20	
161	Seal housing	GG 20	
230	Impeller	GG 20	
400	Casing gasket	Reinzolit	
412.1	O-ring	Viton	
412.2	O-ring	Viton	
472	Rotating seal ring	Carbon	
475	Stationary seal ring	Ceramic	
477	Spring	V4A	
500	Seal ring	V4A	
507	Deflector	Rubber	
524	Protective sleeve	1.4021	
819	Extended motor shaft	st 70 or 1.4021	
912	Drain plug	GT	
913	Vent	GT	
922	Impeller nut	MS	
940.1	Impeller key	1.4571	

When the shaft material is 1.4021 protective sleeve is only provided on request at extra charge.

### Electric motor

Three phase squirrel cage with extended shaft.  
Enclosure IP44, Voltage  $\Delta$ 380V. Frequency 50 Hz. Insulation class B:  
Mounting V1.

### Type IL-N



### Part's list

VDMA Number	Part Name	Materials of construction	
		Standard	Special
102	Pump casing	GG 20	Gbz 10
161	Seal housing	GG 20	Gbz 10
210	Shaft	st 70 or 1.4021	1.4401
230	Impeller	GG 20	Gbz 10
341	Motor stool	GG 20	GG 20
412.1	O-ring	Viton	Butyl
412.2	O-ring	Viton	Butyl
433	Mechanical seal		
472	Rotating seal ring	Carbon	Hard metal
475	Stationary seal ring	Ceramic	Hard metal
477	Spring	V4A	V4A
500	Seal ring	V4A	V4A
524	Protective sleeve	1.4021	1.4401
904	Grab screw	4A	4A
922	Impeller nut	MS	MS
940	Impeller key	1.4571	1.4571

When the shaft material is 1.4021 or 1.4401 protective sleeve is only provided on request at extra charge.  
Furthermore in the special all-bronze pump design, bronze wearing rings are provided.

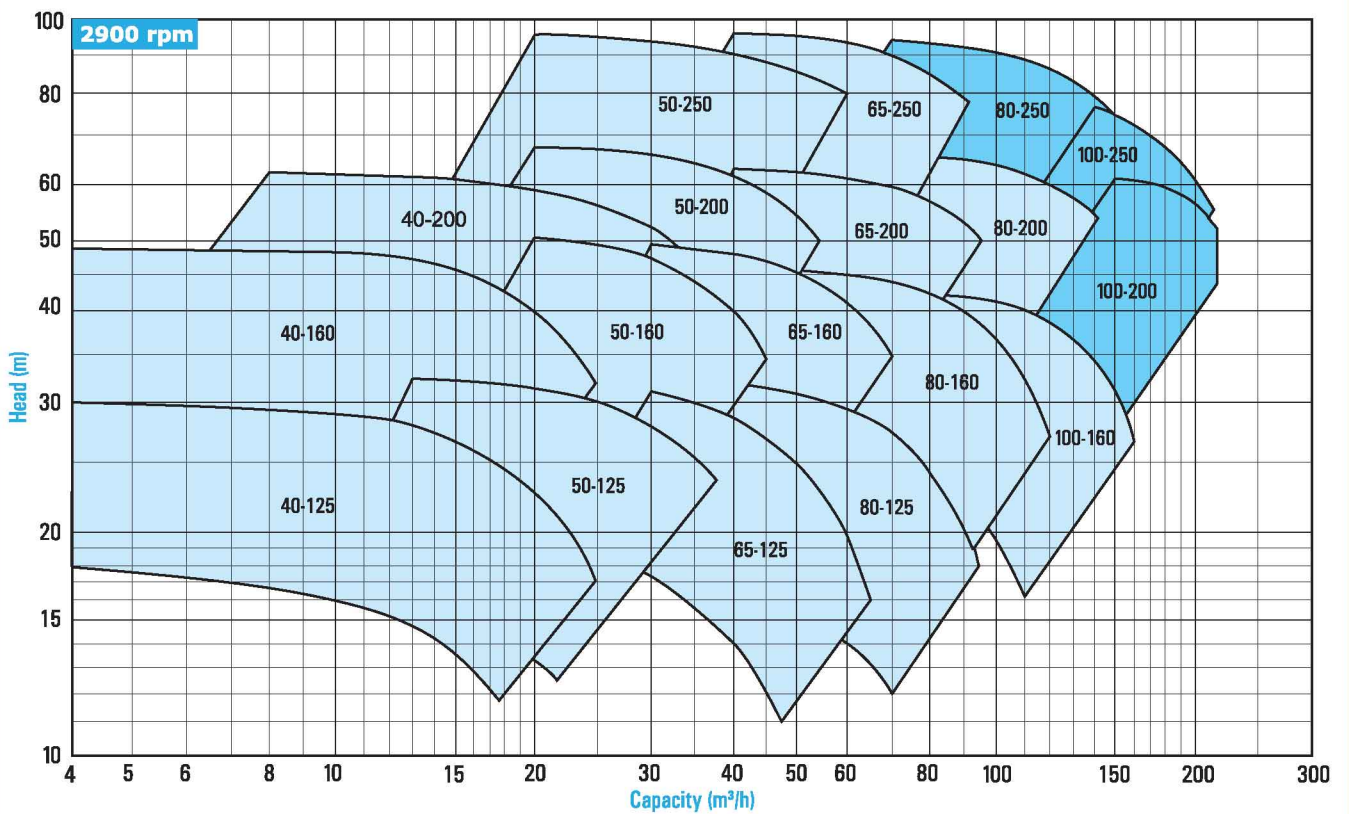
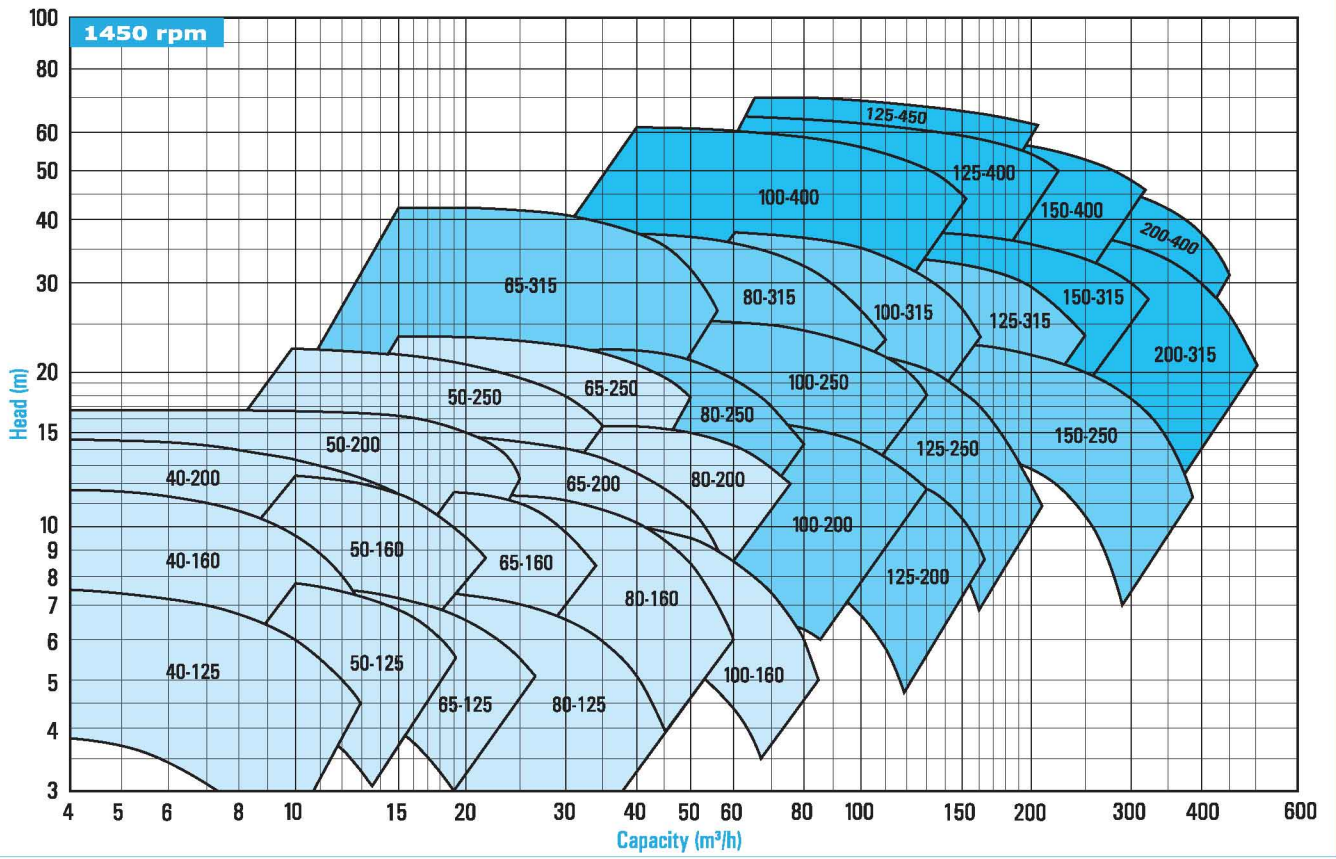
### Electric motor

Standard motor. Three phase squirrel cage with extended shaft.  
Enclosure IP44, Voltage  $\Delta$ 380V. Frequency 50 Hz. Insulation class B. Mounting V1.

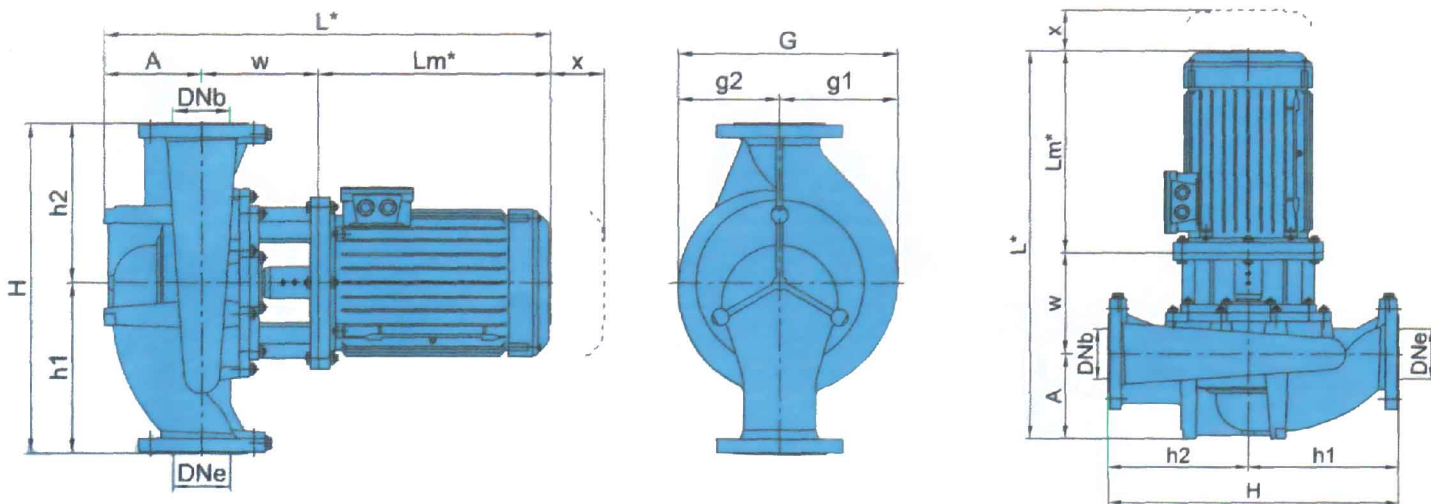
### Direction of rotation

Clockwise as seen from the drive end.

# Performance range



# Technical data



## 2900 rpm (2 pole Motor)

PUMP TYPE	Design No	MOTOR		DNe/DNb mm	DIMENSIONS (mm)										Base **	Weight* (kg)	
		kW	IEC		A	W	Lm*	L*	H	h1	h2	X	G	g1			g2
40-125	D1	1.1	80M	40	75	165	244	484	300	160	140	100	208	108	100	T1	45
		1.5	90S				267	507									49
		2.2	90L				267	507									51
		3	100L				292	532									59
40-160	D1	3	100L	40	75	165	292	532	340	180	160	100	236	122	114	T1	65
		4	112M				336	576									73
		5.5	132S				195	396									666
40-200	D1	4	112M	40	75	165	336	576	380	200	180	100	275	140	135	T1	78
		5.5	132S				396	666									87
	7.5	132S	396				666	94									
	11	160M	239				476	790									133
50-125	D1	1.5	90S	50	90	165	267	522	300	160	140	100	212	110	102	T1	52
		2.2	90L				292	547									61
		3	100L				336	591									69
		4	112M				292	547									64
50-160	D1	3	100L	50	90	165	292	547	340	180	160	100	238	124	114	T1	72
		4	112M				336	591									82
		5.5	132S			396	681	89									
		7.5	132S			195	396	681									98
50-200	D2	7.5	132S	50	90	195	396	681	425	225	200	100	280	145	135	T1	137
		11	160M				476	805									144
		15	160M			476	805	152									
		11	160M			476	805	160									
50-250	D2	15	160M	50	90	239	476	805	475	250	225	100	342	175	167	T2	174
		18.5	160L				476	805									174
		22	180M				519	848									198
		11	160M				476	805									152
65-125	D1	3	100L	65	110	165	292	567	340	180	160	100	222	120	102	T1	69
		4	112M				336	611									76
		5.5	132S			195	396	701									85
		5.5	132S			396	701	89									
65-160	D1	7.5	132S	65	110	195	396	701	380	200	180	100	252	136	116	T1	96
		11	160M				476	825									129
		11	160M			476	825	147									
		15	160M			476	825	153									
65-200	D2	18.5	160L	65	110	239	476	825	475	250	225	100	315	162	153	T2	168
		22	180M				519	868									182
		18.5	160L				476	825									180
		22	180M				519	868									204
65-250	D2	30	200L	65	110	239	555	904	475	250	225	125	343	177	166	T2	246
		37	200L				555	904									265
		4	112M				336	631									83
		5.5	132S				396	721									92
80-125	D1	7.5	132S	80	130	165	396	721	380	200	180	125	252	138	114	T1	99
		7.5	132S				195	396									721
		11	160M			476	845	142									
		15	160M			476	845	149									
80-160	D1	18.5	160L	80	130	239	476	845	425	225	200	125	280	152	128	T1	164
		15	160M				476	845									158
		15	160M			476	845	173									
		18.5	160L			476	845	197									
80-200	D2	22	180M	80	130	239	519	888	475	250	225	125	315	170	145	T2	242
		30	200L				555	924									197
		15	160M				476	845									158
		18.5	160L				476	845									173

# Technical data

## 2900 rpm (2 pole Motor)

PUMP TYPE	Design No	MOTOR		DNe/DNb mm	DIMENSIONS (mm)											Base ** Plate	Weight* (kg)	
		kW	IEC		A	W	Lm*	L*	H*	h1	h2	X	G	g1	g2			
80-250	D2	15	160M	80	140	247	476	863	560	280	280	125	379	197	182	T3	200	
		18.5	160L				476	863									205	
		22	180M				519	906									229	
		30	200L				555	948									287	
100-160	D1	11	160M	100	150	239	476	865	475	250	225	140	292	162	130	T2	154	
		15	160M				476	865									161	
		18.5	160L				476	865									176	
		22	180M				519	936									240	
100-200	D2	30	200L	100	170	253	555	978	525	275	250	140	362	192	170	T2	300	
		37	200L				555	978									319	
		45	225M				625	1048									358	
		37	200L				555	978									300	
100-250	D2	45	225M	100	170	253	625	1048	580	300	280	140	384	206	178	T3	363	
		55	250M				283	644									1097	402

## 1450 rpm (4 pole Motor)

PUMP TYPE	Design No	MOTOR		DNe/DNb mm	DIMENSIONS (mm)											Base ** Plate	Weight* (kg)	
		kW	IEC		A	W	Lm*	L*	H*	h1	h2	X	G	g1	g2			
40-125	D1	0.25	71M	40	75	165	223	463	300	160	140	100	208	108	100	T1	42	
		0.37	71M				223	463									42	
40-160	D1	0.37	71M	40	75	165	223	463	340	180	160	100	236	122	114	T1	48	
		0.55	80M				244	484									52	
		0.75	80M				244	484									53	
40-200	D1	0.55	80M	40	75	165	244	484	380	200	180	100	275	140	135	T1	56	
		0.75	80M				244	484									57	
		1.1	90S				267	507									60	
50-125	D1	0.25	71M	50	90	165	223	478	300	160	140	100	212	110	102	T1	43	
		0.37	71M				223	478									44	
		0.55	80M				244	499									47	
50-160	D1	0.37	71M	50	90	165	223	478	340	180	160	100	238	124	114	T1	47	
		0.55	80M				244	499									51	
		0.75	80M				244	499									52	
50-200	D1	1.1	90S	50	90	165	267	522	425	225	200	100	280	145	135	T1	55	
		0.75	80M				244	499									61	
		1.5	90L				267	522									63	
50-250	D1	1.5	90L	50	90	165	267	522	475	250	225	100	342	175	167	T2	65	
		2.2	100L				292	547									81	
		3	100L				292	547									90	
65-125	D1	0.37	71M	65	110	165	223	498	340	180	160	100	222	120	102	T1	93	
		0.55	80M				244	519									50	
		0.75	80M				244	519									54	
65-160	D1	0.55	80M	65	110	165	244	519	380	200	180	100	252	136	116	T1	55	
		0.75	80M				244	519									59	
		1.1	90S				267	542									60	
65-200	D1	1.1	90S	65	110	165	267	542	475	250	225	100	315	162	153	T2	62	
		1.5	90L				267	542									77	
		2.2	100L				292	567									82	
65-250	D1	1.5	90L	65	110	165	267	542	475	250	225	125	343	177	166	T2	88	
		2.2	100L				292	567									90	
		3	100L				292	567									96	
		4	112M				336	611									99	
65-315	D2	3	100L	65	130	187	292	609	560	280	280	125	418	216	202	T4	105	
		4	112M				187	292									609	132
		5.5	132S				202	396									728	139
		7.5	132M				202	396									728	152
		11	160M				246	476									852	173
80-125	D1	0.37	71M	80	130	165	223	518	380	200	180	125	252	138	114	T1	197	
		0.55	80M				244	539									58	
		0.75	80M				244	539									61	
		1.1	90S				267	562									62	
80-160	D1	0.75	80M	80	130	165	244	539	425	225	200	125	280	152	128	T1	65	
		1.1	90S				267	562									68	
		1.5	90L				267	562									70	
		2.2	100L				292	587									72	
80-200	D1	1.5	90L	80	130	165	267	562	475	250	225	125	315	170	145	T2	79	
		2.2	100L				292	587									81	
		3	100L				292	587									92	
		4	112M				336	631									95	

## 1450 rpm (4 pole Motor)

PUMP TYPE	Design No	MOTOR		DN <sub>e</sub> /DN <sub>b</sub> mm	DIMENSIONS (mm)										Base ** Plate	Weight * (kg)		
		kW	IEC		A	W	Lm*	L*	H	h1	h2	X	G	g1			g2	
80-250	D1	2.2	100L	80	140	188	292	620	560	280	280	125	379	197	182	T3	116	
		3	100L				292	620									116	
		4	112M				336	664									126	
	D2	5.5	132S			203	396	739									138	
80-315	D2	5.5	132S	80	150	230	396	749	595	315	280	140	425	220	205	T4	167	
		7.5	132M				396	749									188	
		11	160M			476	873	213										
		15	160L			476	873	227										
100-160	D1	1.5	90L	100	150	165	267	582	475	250	225	140	292	162	130	T2	84	
		2.2	100L				292	607									91	
		3	100L				292	607									94	
100-200	D1	2.2	100L	100	170	188	292	650	525	275	250	140	362	192	170	T2	90	
		3	100L				292	650									93	
		4	112M				336	694									119	
	D2	5.5	132S			203	396	769									132	
100-250	D1	4	112M	100	170	188	336	694	580	300	280	140	384	206	178	T3	139	
		5.5	132S				396	771									151	
		7.5	132M				396	771									172	
		11	160M			248	476	894									197	
100-315	D2	7.5	132M	100	160	205	396	771	580	300	280	140	384	206	178	T3	211	
		11	160M				248	476									894	236
		15	160L				205	396									761	250
		18.5	180M			476	886	280										
100-400	D3	15	160L	100	150	225	476	881	800	400	400	160	558	288	270	T5	346	
		18.5	180M				519	924									375	
		22	180L				519	924									383	
		30	200L			555	960	434										
100-400	D3	37	225S	100	150	300	625	1075	800	400	400	160	558	288	270	T5	503	
		3	100L				292	685									148	
		4	112M				336	729									155	
		D2	5.5			132S	228	396									804	167
125-200	D2	7.5	132M	125	180	228	396	804	560	280	280	140	390	208	182	T4	188	
		5.5	132S				396	804									175	
		11	160M				476	928									196	
		15	160L			476	928	221										
125-250	D2	11	160M	125	180	272	476	928	630	315	315	140	413	218	195	T4	235	
		15	160L				476	928									259	
		18.5	180M				476	916									273	
		22	180L			476	916	303										
125-315	D2	18.5	180M	125	160	280	519	959	710	355	355	140	488	258	230	T4	311	
		22	180L				519	959									311	
		30	200L				555	935									395	
		D3	37			225S	280	555									935	446
125-400	D3	45	225M	125	100	325	625	1050	800	400	400	160	562	292	270	T5	515	
		37	225S				625	1050									552	
		45	225M				625	1050									577	
		D3	55			250M	644	1129									597	
125-450	D3	11	160M	125	160	325	476	960	850	425	425	160	613	316	297	T4	271	
		15	160L				476	960									285	
		18.5	180M				519	1003									314	
		22	180L			519	1003	322										
150-250	D2	15	160L	150	180	304	476	971	710	355	355	140	474	254	220	T4	365	
		18.5	180M				519	1014									394	
		22	180L				519	1014									402	
		D3	30			200L	555	1050									453	
150-315	D3	37	255S	150	180	360	625	1165	710	355	355	160	548	290	258	T5	523	
		45	225M				625	1165									574	
		55	250M				644	1184									611	
		D3	18.5			180M	519	1074									444	
150-400	D3	22	180L	150	180	355	519	1074	800	400	400	160	604	314	290	T5	452	
		30	200L				555	1110									503	
		37	255S				625	1225									573	
		45	225M			625	1225	610										
200-315	D3	37	255S	200	200	400	625	1225	800	450	350	160	547	295	252	T5	610	
		45	225M				625	1225									610	
		55	250M				644	1244									610	
		D3	18.5			180M	519	1074									444	
200-400	D3	22	180L	200	200	400	519	1074	900	500	400	160	618	328	290	T5	452	
		30	200L				555	1110									503	
		37	255S				625	1225									573	
		45	225M			625	1225	610										
200-400	D3	55	250M	200	200	400	644	1244	900	500	400	160	618	328	290	T5	610	
		37	255S				625	1225									610	
		45	225M				625	1225									610	
		55	250M			644	1244	610										

1. (\*) These dimensions and weights change according to motor mark.

2. (\*\*) Optional

3. Right reserved to change without notice.

The technical data of this brochure are subject to change without notice.

Συγχρηματοδότηση από το Π.Ε.Π. Αττικής



**DRAKOS - POLEMIS INC**  
Pump Manufacturers