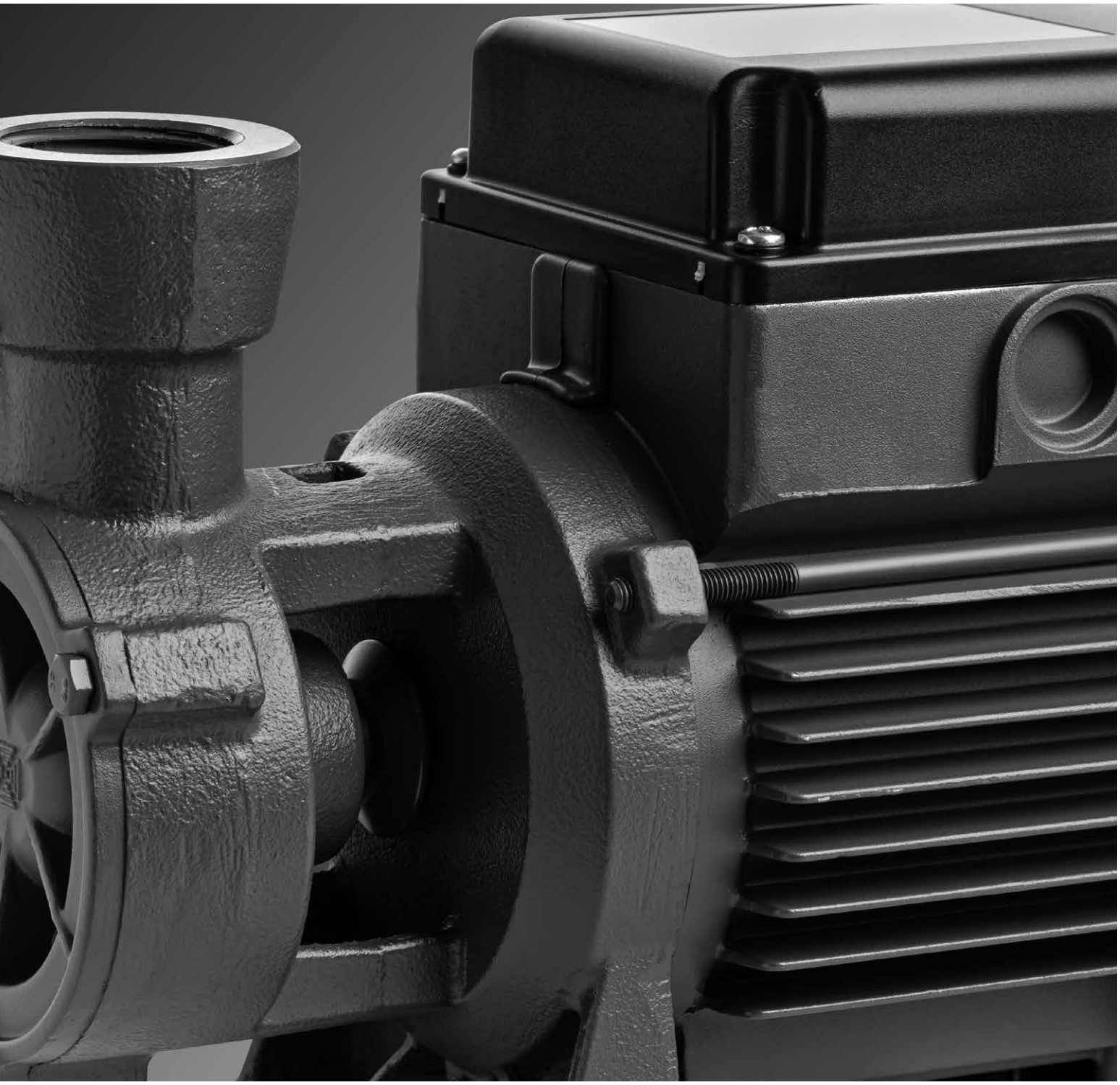
DAB
WATER•TECHNOLOGY

KPS-KPF

PERIPHERAL PUMPS





KPS



KPF

TECHNICAL DATA

Minimum and maximum flow rate: from 0.3 m³/h to 3 m³/h
Maximum head: 84 m

Type of pumped liquid: clean, free of solids and abrasives, non-viscous, non-aggressive, non-crystallised and chemically neutral
Min. and max. supported liquid temperature:
from +0 °C to +35 °C for domestic use
from -10 °C to +50 °C for other uses
Maximum ambient temperature: +40 °C
Maximum operating pressure bar / kPa:
6 bar / 600 kPa for KPS 30/16, KPF 30/16 and KPS 38/18
8 bar / 800 kPa for other models
Motor protection class: IP 44
Motor insulation class: F
Impeller/s material: brass
Single phase power input: 230 V 50 Hz
Three phase power input: 3x230 V 50 Hz / 3x400 V 50 Hz
Power cable (m) and plug: not supplied
Possible type of installation: fixed, horizontal position
Special versions on request: special seals

Peripheral centrifugal pumps for use in domestic and residential applications for pressure boosting, reuse of rainwater, gardening and irrigation.

CONSTRUCTION FEATURES OF THE PUMP

KPS has threaded lateral suction and cast iron body which has undergone cataphoresis treatment. KPF has threaded front suction. Cast iron support with brass adjustment ring for KPS 30/16 and KPS 38/18 models. Carbon-ceramic mechanical seal. Brass impeller.

CONSTRUCTION FEATURES OF THE MOTOR

Air-cooled asynchronous motor. AISI 416 stainless steel motor shaft. Single-phase version with built-in thermal and current protection, and permanent split capacitor as standard. Protection to be provided by the user for the three-phase versions.

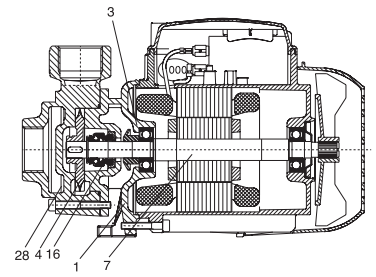
MATERIALS

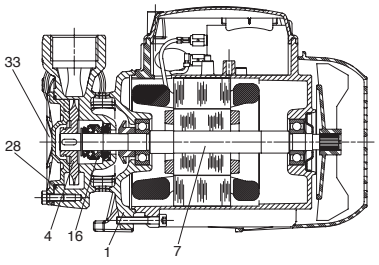
N.	PARTS* KPF	MATERIALS
1	PUMP BODY	CAST IRON G20/GJL-200 UNI EN 1561
3	MOT. PUMP SUPP.	CAST IRON G20/GJL-200 UNI EN 1561
4	IMPELLER	BRASS PCU ZN 40 PB2 UNI 5705/65
7	SHAFT WITH ROTOR	AISI 416 STAINLESS STEEL X12 CRS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON / CERAMIC
28	OR RING	NBR

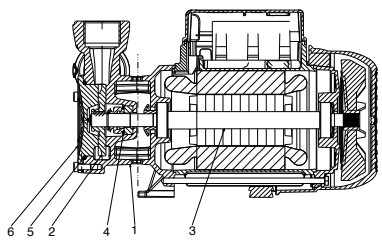
N.	PARTS* KPS	MATERIALS
1	PUMP BODY	CAST IRON G20/GJL-200 UNI EN 1561
4	IMPELLER	BRASS PCU ZN 40 PB2 UNI 5705/65
7	SHAFT WITH ROTOR	AISI 416 STAINLESS STEEL X12 CRS 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON / CERAMIC
28	OR RING	NBR
33	COVER	BRASS PCU ZN 40 PB2 UNI 5705/65

N.	PARTS* KPS 38/18	MATERIALS
1	PUMP BODY	CAST IRON G20/GJL-200 UNI EN 1561
2	IMPELLER	BRASS P-CU ZN40 PB2 UNI 5705/75
3	SHAFT WITH ROTOR	AISI 416 X12CRS13 UNI6900/71
4	MECHANICAL SEAL	CARBON / CERAMIC
5	OR RING	NBR
6	COVER	BRASS P-CU ZN40 PB2 UNI 5705/75

* In contact with the liquid



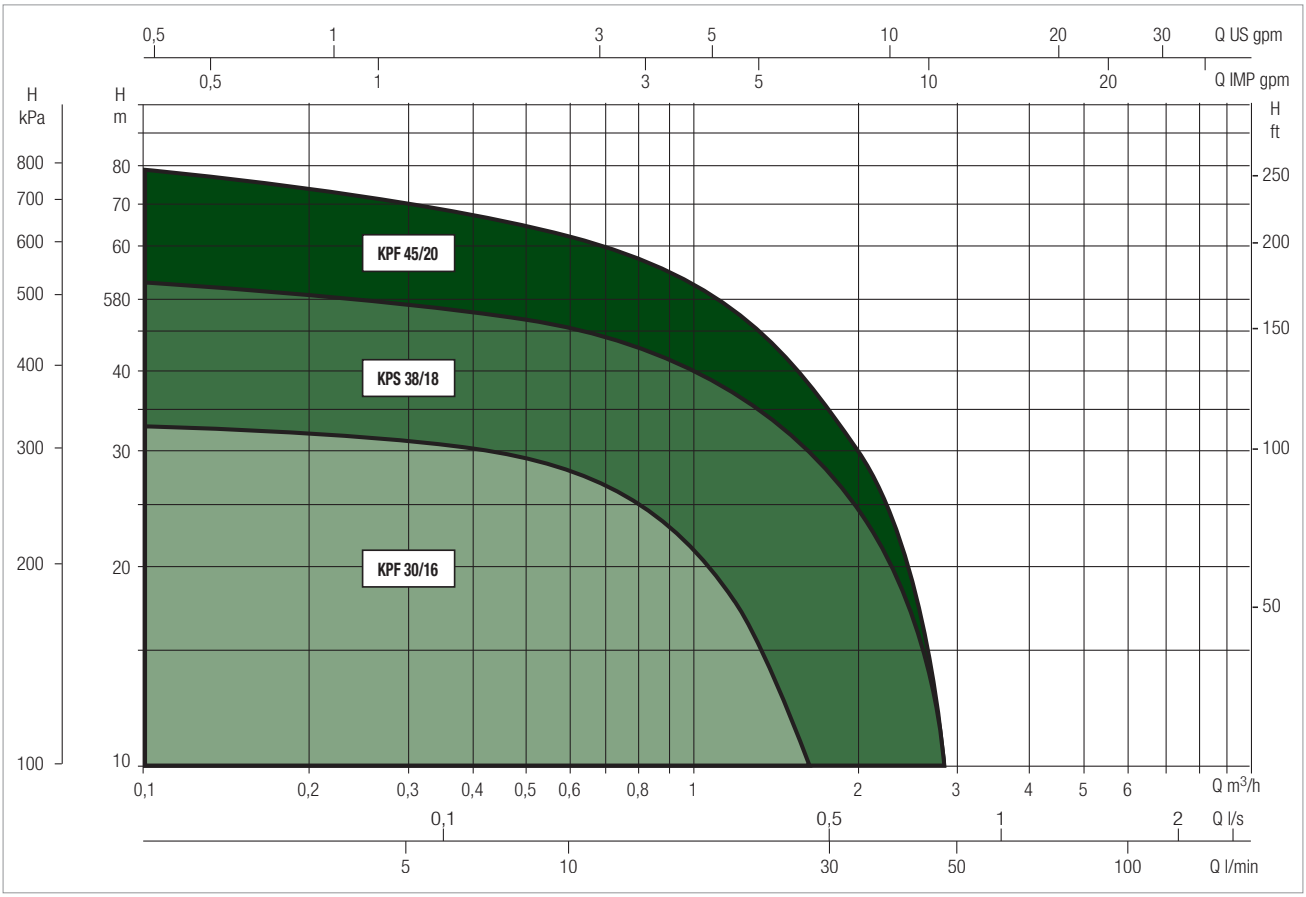




PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

GRAPHIC SELECTION TABLE



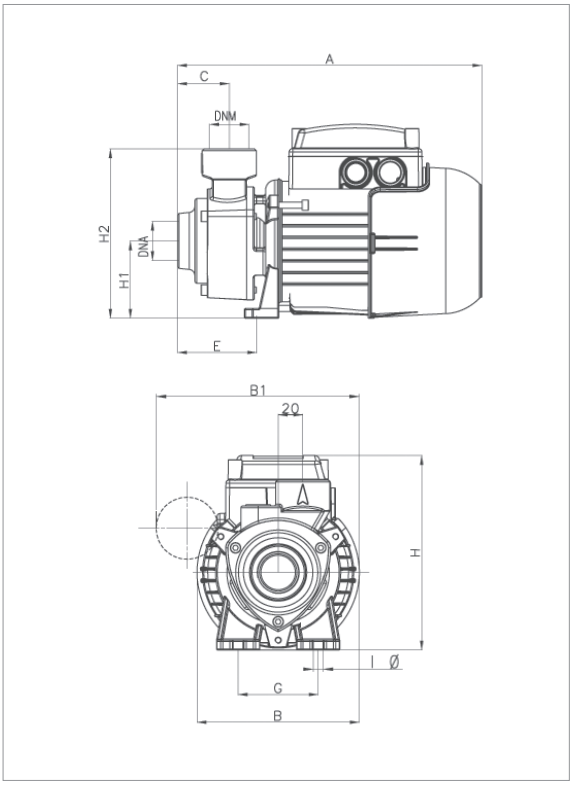
SELECTION TABLE

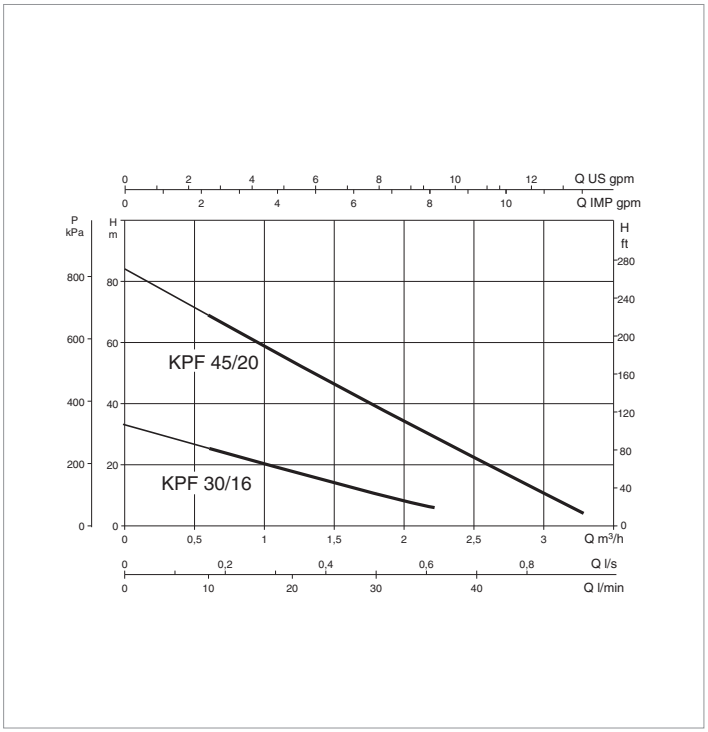
MODEL	Q= m³/h	0	0.3	0.6	0.9	1.2	1.8	2.4
	Q=l/min	0	5	10	15	20	30	40
KPF 30/16 M - T	H (m)	32.5	31	25	22	17.5	10	
KPS 30/16 M - T		32.5	31	25	22	17.5	10	
KPS 30/16 M-P*		32.5	31	25	22	17.5	10	
KPS 38/18 M - T		54	50	46	41	36	27.5	17.5
KPF 45/20 M - T		84	76	68	62	56	38	24

*** KPS-ready for use** - Peripheral electric pump with manometer, pressure switch, power supply cable with plug, and 5-way fitting for connection to a tank.

KPF - PERIPHERAL PUMPS

Pumped liquid temperature range: from 0 °C to +35 °C for domestic use. From -10 °C to +50 °C for other uses.
Maximum ambient temperature: +40 °C





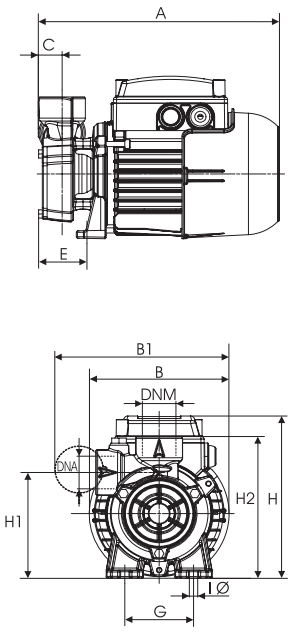
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

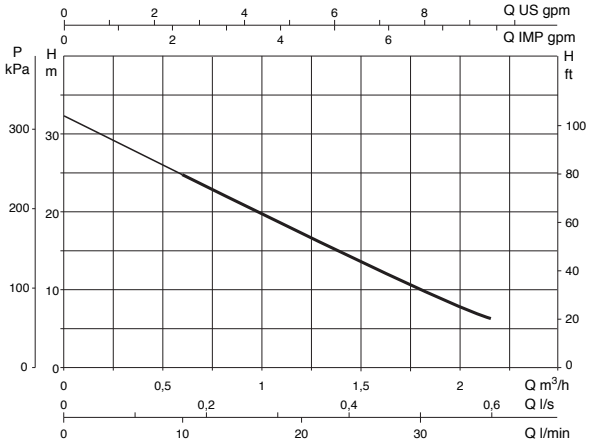
MODEL	ELECTRICAL DATA						
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR	
			kW	HP		µF	Vc
KPF 30/16 M	1 x 230 V ~	0.53	0.37	0.5	2.37	8	450
KPF 30/16 T	3 x 230 - 400 V ~	0.47	0.37	0.5	1.42/0.82	-	-
KPF 45/20 M	1 x 230 V ~	1.5	1	1.34	6.7	25	450
KPF 45/20 T	3 x 230 - 400 V ~	1.2	1	1.34	4/2.3	-	-

MODEL	A	B	B1	C	E	F	G	I Ø	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME (m^3)	WEIGHT kg
														L/A	L/B	H		
KPF 30/16 M - T	247	132	165	42	64	-	65	8	158	63	138	1" G	1" G	262	140	180	0.0066	5.3
KPF 45/20 M - T	315	155	-	55	95	-	112	7	188	78	163	1" G	1" G	325	165	198	0.0106	9

KPS 30/16 - PERIPHERAL PUMPS

Pumped liquid temperature range: from 0 °C to +35 °C for domestic use. From -10 °C to +50 °C for other uses.
Maximum ambient temperature: +40 °C





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

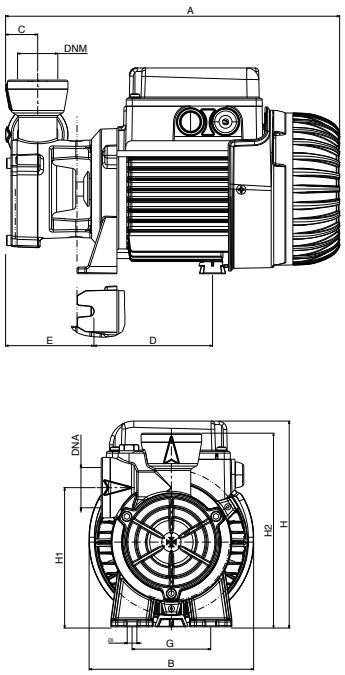
MODEL	ELECTRICAL DATA						
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR	
			kW	HP		µF	Vc
KPS 30/16 M	1 x 230 V ~	0.47	0.37	0.5	2	8	450
KPS 30/16 T	3 x 230 - 400 V ~	0.45	0.37	0.5	1.4/0.8	-	-
KPS 30/16 M-P*	1 x 230 V ~	0.47	0.37	0.5	2	8	450

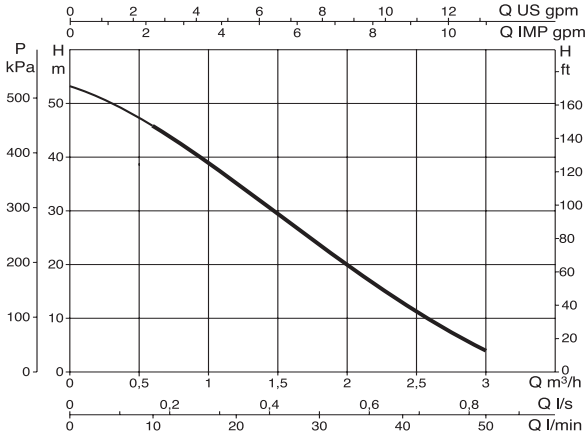
MODEL	A	B	B1	C	E	F	G	I Ø	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME (m^3)	WEIGHT kg
														L/A	L/B	H		
KPS 30/16 M - T	228	132	165	22	46	-	65	8	158	103	138	1" G	1" G	259	164	197	0.0084	5.4
KPS 30/16 M-P*	228	132	165	22	46	-	65	8	158	103	138	1" G	1" G	259	164	197	0.0084	5.4

*** KPS-ready for use** - Peripheral electric pump with manometer, pressure switch, power supply cable with plug, and 5-way fitting for connection to a tank.

KPS 38/18 - PERIPHERAL PUMPS

Pumped liquid temperature range: from 0 °C to +35 °C for domestic use. From -10 °C to +50 °C for other uses.
Maximum ambient temperature: +40 °C





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	ELECTRICAL DATA						
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR	
			kW	HP		µF	Vc
KPS 38/18 M	1 x 230 V ~	0,94	0.6	0.8	4,2	12.5	450
KPS 38/18 T	3 x 230 - 400 V ~	0,88	0.6	0.8	2.9-1.7	-	-

MODEL	A	B	B1	C	E	F	G	I Ø	H	H1	H2	DNA	DNM	PACKING DIMENSIONS			VOLUME (m^3)	WEIGHT kg
														L/A	L/B	H		
KPS 38/18 M - T	276	136	-	26.5	73	-	65	8	170	115	160	1" G	1" G	304	148	195	0.01	7.5

NOTES

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60191764 - 10/2020