



WALRUS®

TPAK Series COOLANT PUMP



APPLICATIONS

The TPAK Series coolant pump is design for the circulation and spraying of cooling lubricants, especially for machine tools.

This series may use on all machine tools performing Turning, Milling, Drilling, Cutting, Slitting, Grinding etc. operation.

It is suitable to carry liquids such as water, coolant, light oil and other clean, non aggressive matters.

PUMP CONSTRUCTION

The pump is one-chamber vertical centrifugal pump, co-axial pump/motor design, impellers mounted on extended motor shaft.

MOTOR

Nominal speed : 2900 / 3500 rpm

Frequency range : 50 / 60 Hz

Standard voltages : Single-phase (TPAK 1)

50Hz: 100-132V / 200-255V

60Hz: 100-132V / 200-255V

Three phases (TPAK 1 ~ TPAK 8)

50Hz: 200-255V / 380-440V

60Hz: 200-255V / 380-480V

Enclosure class : IP54

Insulation class : F.

OPERATING LIMITS

Max. flow : 230 L/min

Max. head : 17m

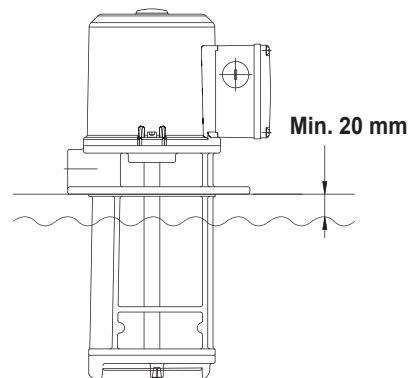
Max. ambient temperature : +40°C

Max. liquid temperature range : +90°C

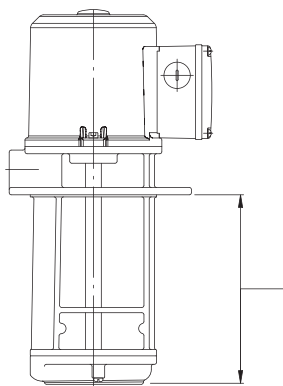
Max. operating pressure : 10 kg/cm²

INSTALLATION

Maximum liquid level



MODEL CODE



TPAK 1 - 18

Installation length [mm]

18 x 10 = 180 mm

Output power

1 = 1/8 HP

2 = 1/4 HP

4 = 1/2 HP

8 = 1 HP

Model name

All specifications are subject to change without notice. 02

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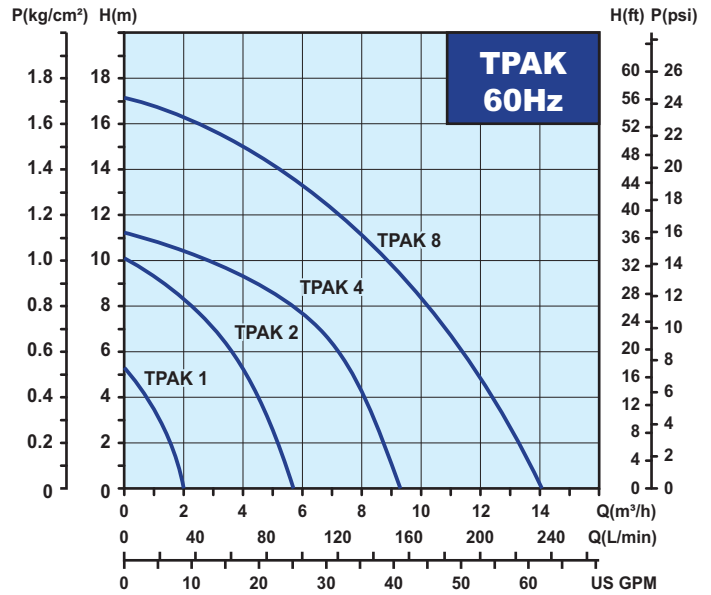
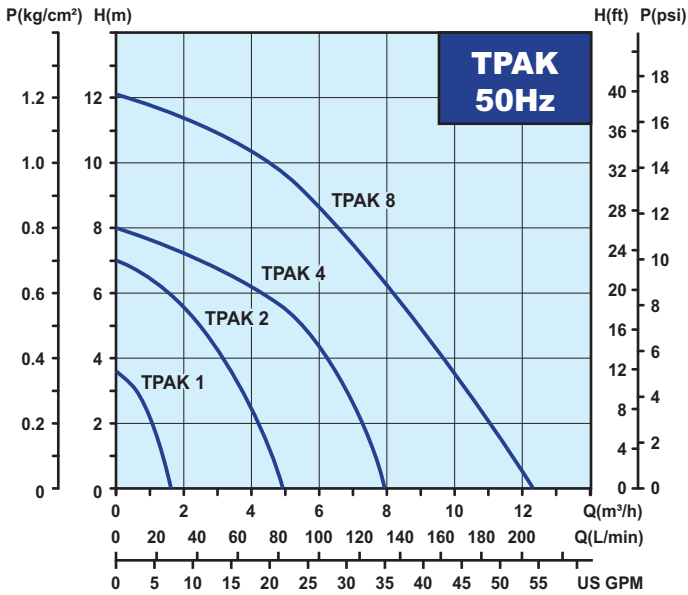
Product Data



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PERFORMANCE CURVES



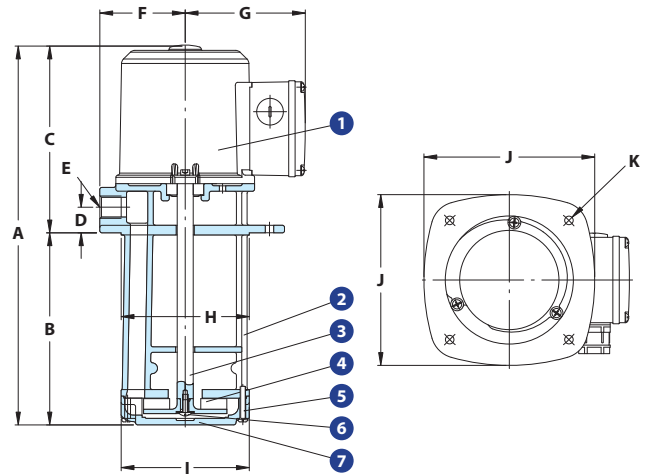
CONSTRUCTION

No.	Part name	Material	
		TPAK 1	TPAK 2 ~ TPAK8
1	Motor shell	Aluminum alloy	
2	Pump Casing	Cast Iron (FC20)	
3	Shaft	Carbon Steel (S45C)	
4	Impeller	Polyoxymethylene (POM G15)	
5	Screw	Stainless Steel (SUS 304)	
6	Screw	Stainless Steel (SUS 304)	
7	Pump Cap	Polyamide (PA G30)	Cast Iron (FC20)

SPECIFICATION

Model	PH (∅)	Cycle (Hz)	Input Power (W)	Volts (V)	Full load current (A)
TPAK 1	1	50	110	100-132 / 200-255	0.9-1.2 / 0.45-0.6
		60	110	100-132 / 200-255	0.9 / 0.45
TPAK 2	3	50	120	200-255 / 380-440	0.40-0.56 / 0.27-0.32
		60	120	200-255 / 380-480	0.5 / 0.3
TPAK 4	3	50	270	200-255 / 380-440	1.0-1.3 / 0.6-0.8
		60	350	200-255 / 380-480	1.2 / 0.7
TPAK 8	3	50	440	200-255 / 380-440	1.5-1.9 / 0.9-1.2
		60	620	200-255 / 380-480	2.0 / 1.1
TPAK 8	3	50	930	200-255 / 380-440	3.1-4.4 / 1.9-2.6
		60	1320	200-255 / 380-480	4.0 / 2.4

DIMENSIONS: (mm)



Model	DIMENSIONS: (mm)											N.W weight (kg)
	A	B	C	D	E	F	G	H	I	J	K	
TPAK 1-18	340	180	160	16	PF 3/8"	63	100.5	∅90	∅90	126	4x∅8 PCD128	5.5
TPAK 2-15	325	150	175	24	PF 1/2"	80	112.5	∅120	∅120	160	4x∅8 PCD158	9.5
TPAK 2-18	355	180	175	24	PF 1/2"	80	112.5	∅120	∅120	160	4x∅8 PCD158	10.0
TPAK 2-25	425	250	175	24	PF 1/2"	80	112.5	∅120	∅120	160	4x∅8 PCD158	10.6
TPAK 4-15	385	150	235	28	PF 3/4"	85	111	∅135	∅135	170	4x∅9 PCD170	11.2
TPAK 4-18	415	180	235	28	PF 3/4"	85	111	∅135	∅135	170	4x∅9 PCD170	11.9
TPAK 4-25	485	250	235	28	PF 3/4"	85	111	∅135	∅135	170	4x∅9 PCD170	12.7
TPAK 8-18	456	180	276	29	PF 1"	95	111	∅150	∅150	190	4x∅9 PCD185	15.5
TPAK 8-25	526	250	276	29	PF 1"	95	111	∅150	∅150	190	4x∅9 PCD185	17.1

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