



**Uses**

They are suitable for transferring clean liquids containing impurities up to 0.03 mm in size. Their hydraulic components: impeller in brass, feed screw and pump body in cast-iron allow them to be used with emulsions and oily substances, glycol and liquids in general provided they are not oxidative for the construction materials.

Viscosity must not exceed 21 cST (3° Engel).

The temperature of the liquid must not exceed 90°C.

They are commonly used on:

- drilling centres
- cooling units

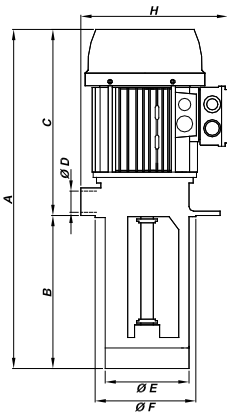
They are normally installed on a tank with a capacity which is proportional to their flow rate, about 3-4 cm from the bottom.

It is important to make sure that the maximum liquid level in the tank is always 3-4 cm lower than the support flange (see figure).

For different uses, please consult our Technical Office.

**Size and weights table**

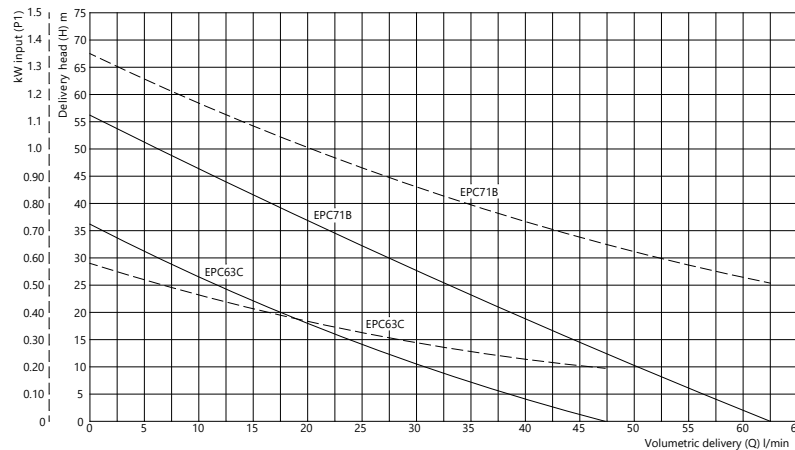
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
EPC 63C	310	100	210	3/4"	98	100	130	185	115	7 (n.4)	8.9
	340	130									9.2
	390	180									9.4
	440	230									9.6
	490	280									9.8
	570	360									10.3
EPC 71B	360	100	260	3/4"	98	100	130	193	115	7 (n.4)	11.6
	390	130									11.9
	440	180									12.1
	490	230									12.3
	540	280									12.5
	620	360									13.0



**Rating plate data**

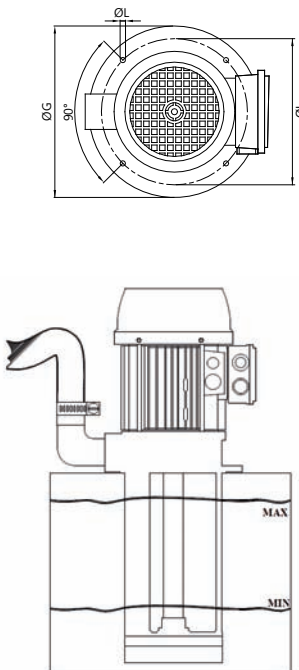
Type of pump	kW		V 230/400 - Hz 50			Q - Q <sub>max</sub> litres/min	H <sub>max</sub> - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min <sup>-1</sup>	cos φ		
EPC 63C	0.50	0.37	1.60/0.92	2825	0.79	1 - 47	35 - 0
EPC 71B	1.20	0.90	3.83/2.21	2760	0.78	1 - 62	55 - 0

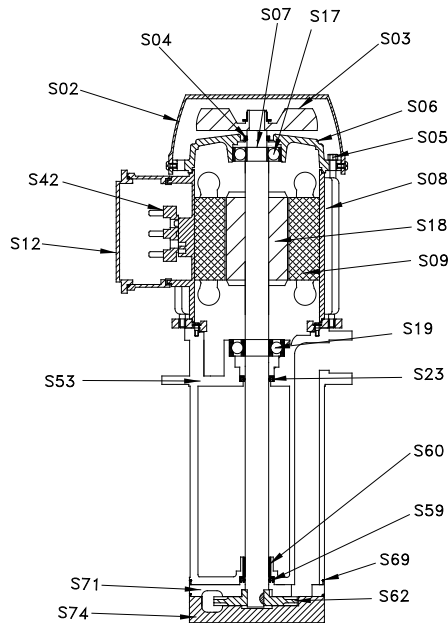
**Hydraulic performance curves (peripheral impeller)**



**Hydraulic performance table (peripheral impeller)**

Delivery head (H) m →	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
	Type of pump														
Volumetric delivery (Q) l/min ↓															
EPC 63C	47	37	31	23	18	12	6	1							
EPC 71B	62	56	50	44	38	33	27	22	17	12	6	1			





Spare parts nomenclature

	Component
S02.	Fan cover
S03.	Fan
S04.	V-ring
S05.	Stay rod
S06.	Upper shield
S07.	Spring ring
S08.	Housing
S09.	Wound stator
S12.	Terminal box
S17.	Upper bearing
S18.	Axis + Rotor
S19.	Lower bearing
S23.	Motor seal ring
S42.	Terminal board
S53.	Pump body
S59.	Seal
S60.	Bushing
S62.	Impeller
S69.	O-ring
S71.	Adaptor coupling
S74.	Impeller-cover

EPC 63C	Materials
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	NBR
	-
	Cast Iron G20
	NBR
	Bronze
	Brass 58
	NBR
	Cast Iron G20
	Cast Iron G20

EPC 71B	Materials
	Nylon*
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel**
	-
	NBR
	-
	Cast Iron G20
	NBR
	Bronze
	Brass 58
	NBR
	Cast Iron G20
	Cast Iron G20

\*On demand Sheet metal  
 \*\*On demand. Ax. AISI 416

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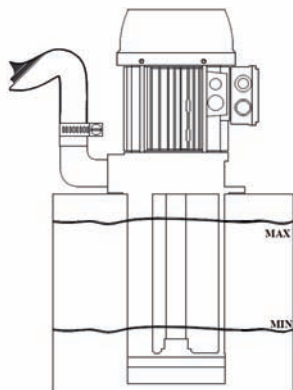
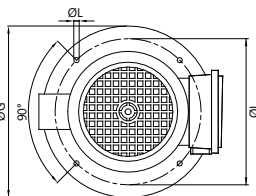
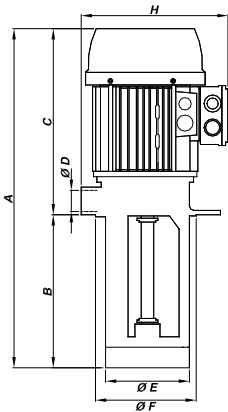
They are normally installed on a tank with a capacity which is proportional to their flow rate, about 3-4 cm from the bottom.

It is important to make sure that the maximum liquid level in the tank is always 3-4 cm lower than the support flange (see figure).

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**Size and weights table**

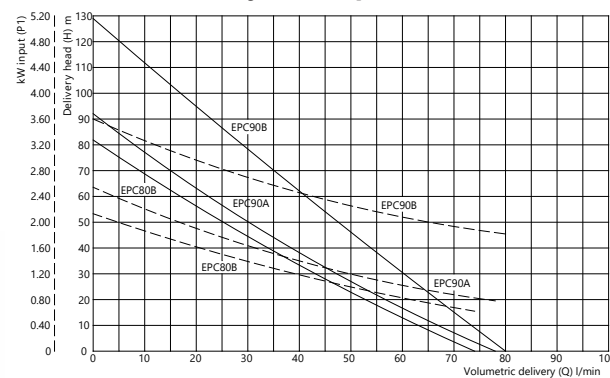
Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Mass kg
EPC 80B	381	100	281	3/4"	98	100	130	200	115	7 (n.4)	15.3
	411	130									15.6
	461	180									15.8
	511	230									16.0
	561	280									16.2
641	360	16.8									
EPC 90A	435	115	320	3/4"	98	100	130	220	115	7 (n.4)	17.2
	465	145									17.5
	515	195									17.7
	565	245									17.9
	615	295									18.1
695	375	18.6									
EPC 90B	460	140	320	3/4"	98	100	130	220	115	7 (n.4)	30.3
	490	170									30.6
	540	220									30.8
	590	270									31.0
	640	320									31.2
720	400	31.8									



**Rating plate data**

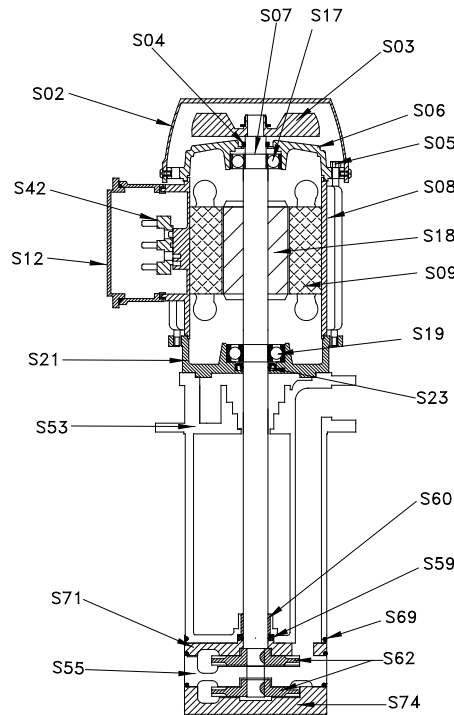
Type of pump	kW		V 230/400 - Hz 50			Q - Q max litres/min	H max - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min <sup>-1</sup>	cos φ		
EPC 80B	1.86	1.5	5.7/3.3	2845	0.83	9 - 74	70 - 0
EPC 90A	2.28	1.8	7.3/4.2	2850	0.78	8 - 78	80 - 0
EPC 90B	3.58	3	10.6/6.1	2855	0.84	5 - 80	120 - 0

**Hydraulic performance curves (peripheral impeller)**



**Hydraulic performance table (peripheral impeller)**

Type of pump	Volumetric delivery (Q) l/min ↓														
	0	5	10	15	20	30	40	50	60	70	80	90	100	110	120
EPC 80B	74	68	63	57	53	43	34	25	17	9					
EPC 90A	78	72	67	62	57	47	38	30	23	15	8				
EPC 90B	80	76	73	70	67	60	54	48	41	35	29	23	17	11	5



**Spare parts nomenclature**

		EPC 80B	EPC 90A	EPC 90B
	Component	Materials	Materials	Materials
S02.	Fan cover	Nylon*	Nylon*	Nylon*
S03.	Fan	Nylon	Nylon	Nylon
S04.	V-ring	NBR	NBR	NBR
S05.	Stay rod	Steel	Steel	Steel
S06.	Upper shield	Aluminium	Aluminium	Aluminium
S07.	Spring ring	Steel	Steel	Steel
S08.	Housing	Aluminium	Aluminium	Aluminium
S09.	Wound stator	-	-	-
S12.	Terminal box	Nylon	Nylon	Nylon
S17.	Upper bearing	-	-	-
S18.	Axis + Rotor	Steel**	Steel**	Steel**
S19.	Lower bearing	-	-	-
S21.	Flange	Aluminium	Aluminium	Aluminium
S23.	Motor seal ring	NBR	NBR	NBR
S42.	Terminal board	-	-	-
S53.	Pump body	Cast Iron G20	Cast Iron G20	Cast Iron G20
S55.	Diffuser	Not available	Cast Iron G20 (n ° 1)	Cast Iron G20 (n ° 1)
S59.	Seal	NBR	NBR	NBR
S60.	Bushing	Bronze	Bronze	Bronze
S62.	Impeller	Brass 58 (no 1)	Brass 58 (no 2)	Brass 58 (no 3)
S69.	Feed screw O-ring	NBR (no 2)	NBR (no 3)	NBR (no 4)
S71.	Adaptor coupling	Cast Iron G20	Cast Iron G20	Cast Iron G20
S74.	Impeller-cover	Cast Iron G20	Cast Iron G20	Cast Iron G20

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