IDEA

4" SUBMERSIBLE PERIPHERAL PUMPS

TECHNICAL DATA

Operating range: from 0,4 a 2,4 m³/h with head of up to 52 metres.
Pumped liquid: clean, free of solids and abrasives, non-viscous, non crystallised and chemically neutral, with properties similar to water.
Liquid temperature range: from 0 °C to +35 °C.
Max. immersion depth: 20 m.
Discharge port diameter: 1**"** GAS.
Power supply tolerance: +6 % / -10 %.
Max. starts: 20/h.
Installation: in 4" wells or larger, tanks and cisterns, vertical position.
Special executions on requests: alternative voltages and frequencies.

APPLICATIONS

Single-impeller (version 75 and 100) or double-impeller (version 150) peripheral submersible pump for 4" wells, capable of providing high heads in limited power conditions. Suitable for water lifting and distribution applications in domestic systems, small agricultural concerns, pressurisation of pressure vessels and DIY uses.

CONSTRUCTION FEATURES OF THE PUMP

Pump body and motor support in cast iron.
Brass impeller.
Rotor shaft extension and strainer in stainless steel.

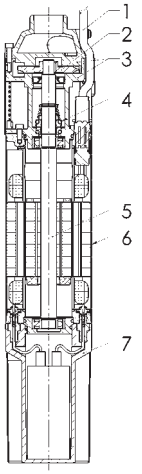
CONSTRUCTION FEATURES OF THE MOTOR

Submersible asynchronous two-pole motor, made entirely of stainless steel, dry design with external cooling by means of the pumped liquid. Canned-type AISI 304L stator.
Squirrel cage rotor running on ball bearings, oversized to ensure reliability and durability.
Graphite/alumina mechanical seal and lip seal.
In the single-phase version the start capacitor is enclosed in a sturdy, electrically insulated high-density plastic enclosure.
Overload protection to be provided by the user for the three-phase version.
Protection class: IP 68
Insulation class: F
Standard voltage: single-phase 230 V / 50 Hz
three-phase 400 V / 50 Hz
Power cable: Removable H07RN-F power cable, length 15 m.
Supplied with 15 m nylon rope

MATERIALS

N.	PART*	MATERIALS
1	CABLE	H07 RNF CEI 20-19
2	IMPELLER	BRASS PCuZn40Pb2 UNI 5705
3	SUPPORT	CAST IRON G20 UNI 5007 (Epoxy electrocoat)
4	MECHANICAL SEAL	GRAPHITE/ALUMINA
5	SHAFT WITH ROTOR	STAINLESS STEEL AISI 431 X17CrNi16 2 UNI 10088-3
6	MOTOR	STAINLESS STEEL AISI 304L X2CrNi19 11 UNI 10088-3
7	CAPACITOR CARTRIDGE	Noryl 20 % fibreglass

* In contact with the liquid.



IDEA

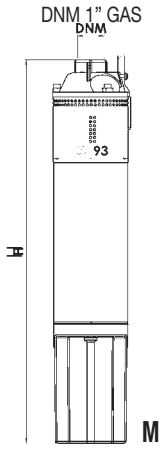
4" SUBMERSIBLE PERIPHERAL PUMPS

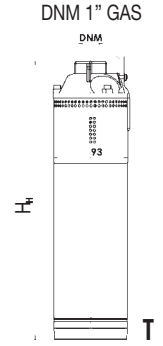
PERFORMANCE AT 50 Hz

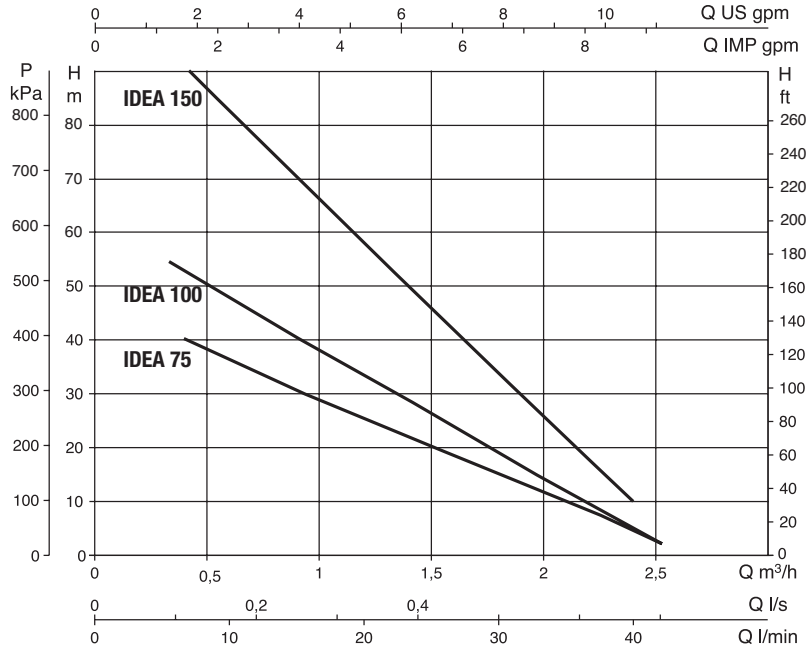
MODEL	ELECTRICAL DATA		HYDRAULIC DATA								
	P2 NOMINAL		Q=m³/h	0,4	0,6	0,9	1,2	1,5	1,8	2,1	2,4
	kW	HP	Q=l/min	7	10	15	20	25	30	35	40
IDEA 75 M	0,55	0,75	H (m)	39	37	32	27,6	22,5	17,6	12,2	6,8
IDEA 100 M	0,75	1		52	48,3	41,4	34,6	28	21,2	14,4	7,3
IDEA 150 M	1	1,5		90	81	70	60	48	35	22	10
IDEA 75 T	0,55	0,75		39	37	32	27,6	22,5	17,6	12,2	6,8
IDEA 100T	0,75	1		52	48,3	41,4	34,6	28	21,2	14,4	7,3
IDEA 150T	1	1,5		90	81	70	60	48	35	22	10

ELECTRICAL DATA AND DIMENSIONS

MODEL	ELECTRICAL DATA							Ø mm	H mm	PACKING DIMENSIONS			WEIGHT kg
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR				L/A	L/B	H	
			kW	HP		µF	Vc						
IDEA 75 M	1x230 V ~	0,8	0,55	0,75	4	16	450	93	482	630	265	125	10,5
IDEA 100 M	1x230 V ~	1,1	0,75	1	4,7	20	450	93	512	630	265	125	12
IDEA 150 M	1x230 V ~	2,2	1	1,5	10,5	35	450	93	602	630	265	125	15
IDEA 75 T	3x400 V~	0,65	0,55	0,75	1,5	–	–	93	353	420	310	118	10,2
IDEA 100T	3x400 V ~	1,1	0,75	1	2,3	–	–	93	383	420	310	118	11,7
IDEA 150T	3x400 V ~	2,5	1	1,5	4,3	–	–	93	475	630	265	125	14,6







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