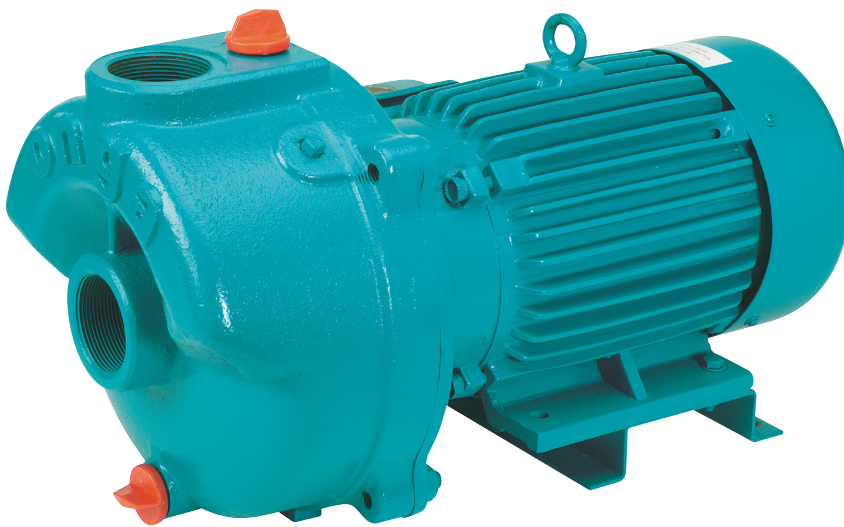


ONGA®

18 SERIES

CAST IRON WATER TRANSFER PUMP CENTRIFUGAL PUMPS



18 Series



FEATURES

Cast iron external construction for strength in the toughest conditions.

Durable moulded internal components.

Award winning high flow impeller.

Extensive range to suit most applications.

Max. head - 52m.

Max. flow - 950lpm.

APPLICATIONS

- Domestic, industrial or rural water transfer pump.
- Typical uses include wash down, tank filling and general water transfer and circulation, Irrigation and garden watering.

PUMP INFORMATION

Horizontal, single-stage, surface mounted centrifugal pump with closed impeller for pumping debris free water coupled to a cool running Totally Enclosed Fan Cooled 2 pole motor.

OPERATING CONDITIONS

Suitable for pumping clean non-aggressive liquids without solids or fibres in suspension.

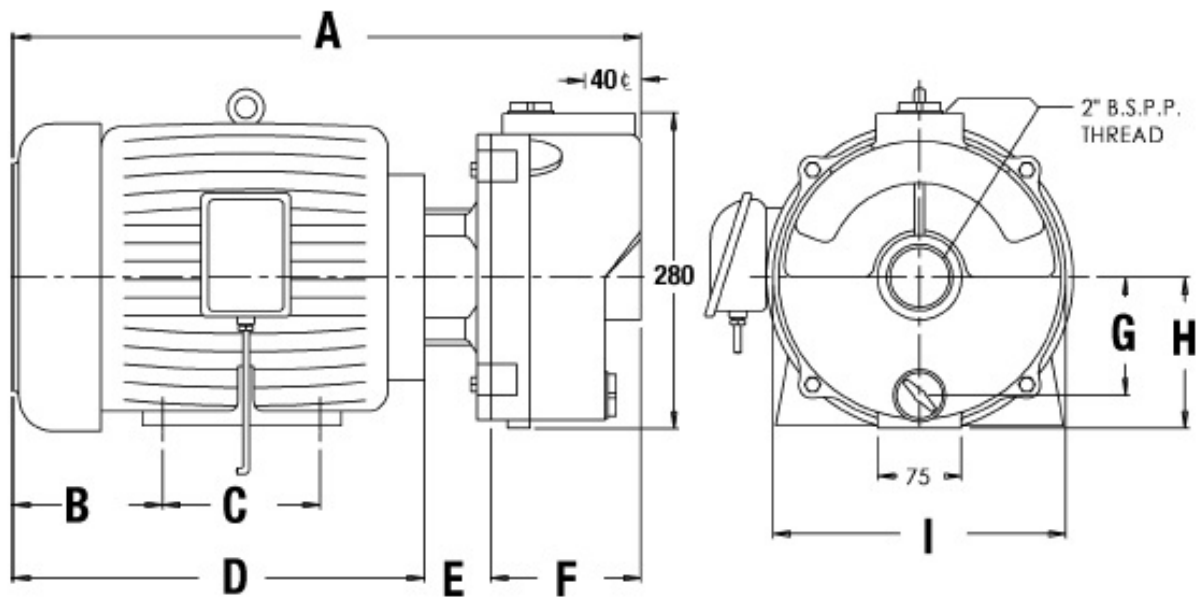
Fluid:	Water.
Maximum water temperature:	70°C.
Minimum water temperature:	1°C.
Maximum ambient temperature:	55°C.
Maximum working pressure:	780kPa.

ELECTRICAL DATA

Type	Type of current	Voltage ± 10%	Frequency Hz	Motor rating kW	Nominal RPM	Current Ampere	Locked rotor current	Motor protection	Insulation class	IP rating
				P2						
182	1-phase	230	50	1.5	2900	10.8 A	38.8 A	Auto	B	IP44
182	3-phase	400	50	1.5	2900	3.3 A	23.6 A	-	B	IP44
183	1-phase	230 / 460	50	2.4	2900	14 A / 7 A	60 A / 30 A	Manual	B	IP44
183	3-phase	400	50	2.4	2900	6 A	48 A	-	B	IP44
184	1-phase	230 / 460	50	3.8	2900	10.5 A / 20.6 A	50.5 A / 107 A	External	B	IP44
184	3-phase	400	50	3.8	2900	7.4 A	78 A	-	B	IP44
185	3-phase	400	50	6.0	2900	10.6 A	85 A	-	B	IP44
187	1-phase	230 / 460	50	2.4	2900	14 A / 7 A	60 A / 30 A	Manual	B	IP44
187	3-phase	400	50	2.4	2900	6 A	48 A	-	B	IP44

DIMENSIONS

Type	Maximum L x W x H	Weight approx.	Inlet	Pump outlet	Carton L x W x H	Packed weight
182/1	443 x 260 280 mm	32kg	2" BSP (female)	2" BSP (female)	560 x 340 x 460 mm	33kg
182/3	450 x 260 280 mm	39kg	2" BSP (female)	2" BSP (female)	560 x 340 x 460 mm	40kg
183/1	495 x 260 280 mm	49kg	2" BSP (female)	2" BSP (female)	680 x 470 x 460 mm	66kg
183/3	495 x 260 280 mm	46kg	2" BSP (female)	2" BSP (female)	680 x 470 x 460 mm	63kg
184/1	-	-kg	2" BSP (female)	2" BSP (female)	680 x 470 x 460 mm	58kg
184/3	485 x 260 280 mm	47kg	2" BSP (female)	2" BSP (female)	680 x 470 x 460 mm	64kg
185/3	560 x 260 280 mm	73kg	2" BSP (female)	2" BSP (female)	680 x 470 x 460 mm	90kg
187/1	495 x 260 280 mm	49kg	2" BSP (female)	2" BSP (female)	680 x 470 x 460 mm	67kg
187/3	495 x 260 280 mm	46kg	2" BSP (female)	2" BSP (female)	680 x 470 x 460 mm	63kg



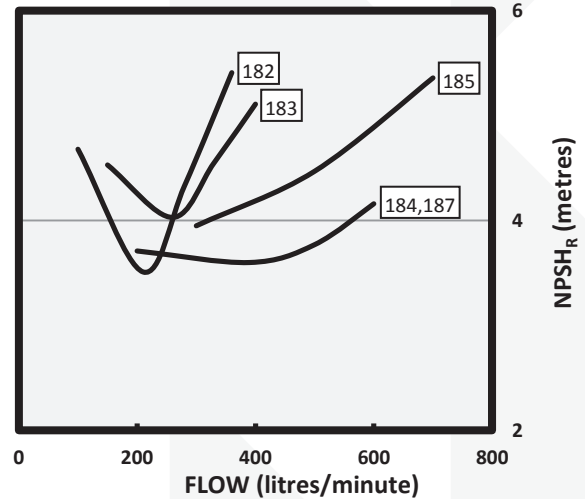
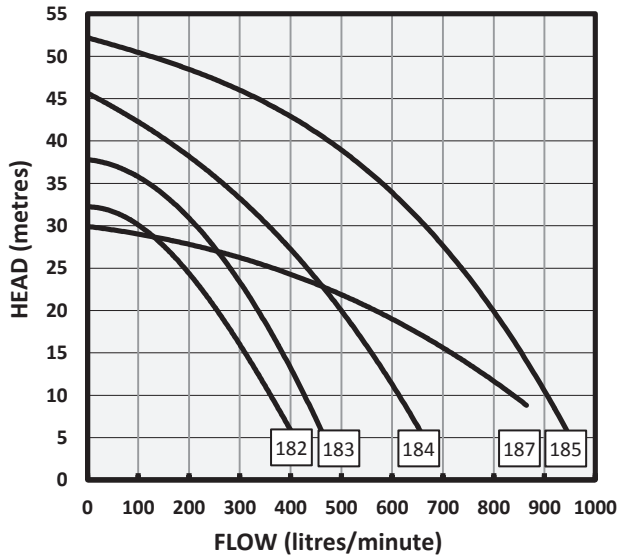
Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
182/1	443	157	-	250	59	133	115	140	260
182/3	450	146	-	257	59	133	115	140	260
183/1	495	64	136	303	59	133	115	140	260
183/3	495	64	136	303	59	133	115	140	260
184/1	-	-	-	-	-	-	-	-	-
184/3	485	70	135	292	59	133	115	140	260
185/3	560	133	140	367	59	133	115	140	260
187/1	495	64	136	303	59	133	115	140	260
187/3	495	64	136	303	59	133	115	140	260

PERFORMANCE

Type	P/No	Delivery head [m]	10	15	20	25	30	35	40	45	50
182	318200 / 318230	Capacity [litres per minute]	360	307	253	195	104	-	-	-	-
183	318300 / 318330		425	380	340	283	212	121	-	-	-
184	318400 / 318430		618	554	496	433	356	268	153	14	-
185	318530		904	852	791	739	663	580	471	337	118
187	318700 / 318730		840	710	552	363	-	-	-	-	-

PERFORMANCE CURVE

NPSHR



PUMP CONSTRUCTION MATERIALS

Component	Material
Pump casing	Cast iron
Baffle	20% Glass Filled Noryl
Priming cap	Acetyl
Impeller	182/183/187 = 20% Glass Filled Polycarbonate 184/185 = 20% Glass Filled Ultem
Diffuser	182/183/187 = 20% Glass Filled Noryl 184/185 = 20% Glass Filled Ultem
Shaft sleeve	182 = Nylon 183/184/187 = Stainless Steel 185 = Brass
Seal flexible bellows	Nitrile
Seal stationary face	Ceramic
Seal rotating face	Carbon
Seal spring	304 Stainless Steel
Motor shaft	Mild Steel
O'Rings	Nitrile



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