DIG 1100-1500-1800-2200

SUBMERSIBLE PUMPS

TECHNICAL DATA

Operating range:
from 6 to 54 m^3/h with head up to 20 metres.
Pumped liquid: rain water, ground water, sandy water from construction site, water containing abrasive particles in general.
Free passage of solids: 6 mm.
Liquid temperature range: from 0 °C to 35 °C.
Maximum immersion depth: 20 metres (with cable of appropriate length).
Motor protection class: IP 68.
Insulation class: F.
Standard voltage: 220-240 V - 50Hz single-phase.
380-415 V - 50Hz three-phase.
Installation: fixed or portable, vertical position.
Continuous service with completely or partially submerged pump.
Power cable:
10 metres H07RN-F. Special patented steel core reinforced tear-resistant electric cable also available on request.

APPLICATIONS

Portable pumps, ideal for draining abrasive liquids in the field:
- Building, tunnel, or infrastructure construction sites
- Civil, for pedestrian subways and car parks
- Industrial, for process waters
- Open mines and caves
- Municipal, for emergency sandy water flooding

CONSTRUCTION FEATURES OF THE PUMP

Pump body made of EN GJL 200 cast iron, internally lined with high abrasion and wear resistance Nitrile (NR) rubber.
Double silicon carbide/silicon carbide mechanical seal on the pump side and carbon/alumina seal on the motor side, in oil chamber plus lip seal.
AISI 304 stainless steel suction grid
Delivery ND: 2"½
Open CRA2 650 HB chrome cast iron impeller

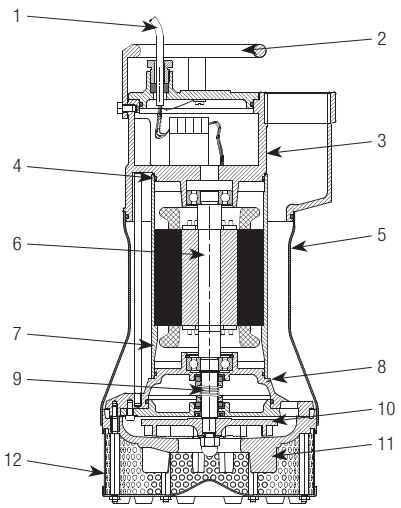
CONSTRUCTION FEATURES OF THE MOTOR

Dry, asynchronous and waterproof type motor, cooled by the pumped liquid. Rotor mounted on permanently lubricated ball bearings, oversized to ensure long-term reliability and extended lifetime. Standard built-in thermo-amperometric protection. Capacitor permanently fitted on single phase versions. Continuous S1 service with completely or partially submerged pump.
Number of poles: 2
Max starts/hour: 15

MATERIALS

N.	PARTS*	MATERIALS
1	POWER INPUT CABLE	H07RN-F
2	HANDLE	CHROME STEEL
3	UPPER COVER	EN GJL 200 CAST IRON
4	OR	NBR
5	EXTERNAL COOLING LINER	AISI 304 STAINLESS STEEL
6	ROTOR SHAFT	AISI 420
7	MOTOR BODY	AISI 304
8	BEARING FLANGE	EN GJL 200 CAST IRON
9	MECHANICAL SEAL	MOTOR: CARBON/ALUMINA PUMP: SILICON CARBIDE/SILICON CARBIDE
10	IMPELLER	AISI ASTM 532-80
11	HYDRAULIC BODY	70SHORE ABRASION RESISTANCE RUBBER
12	GRID	AISI 304 STAINLESS STEEL

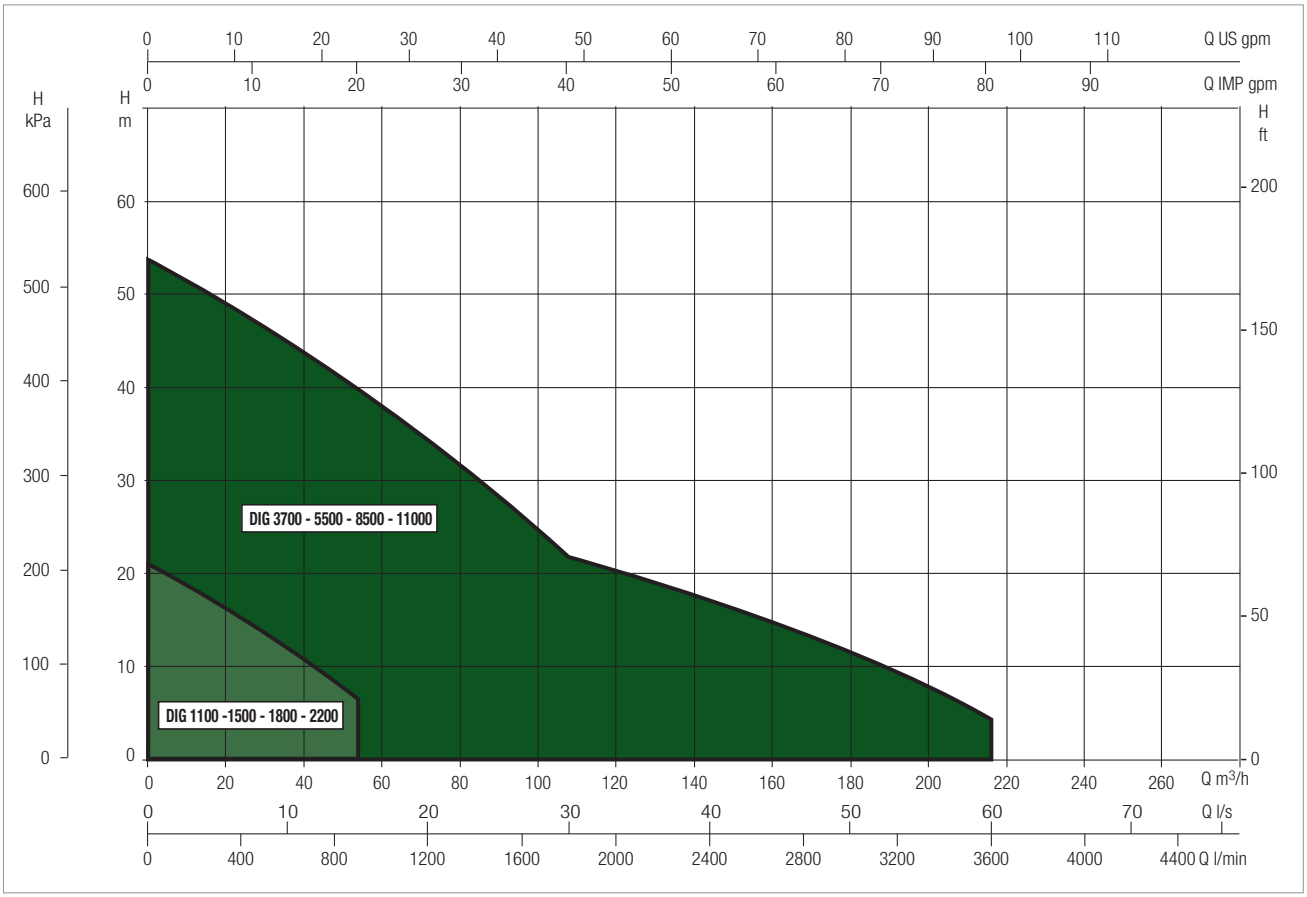
* In contact with the liquid



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

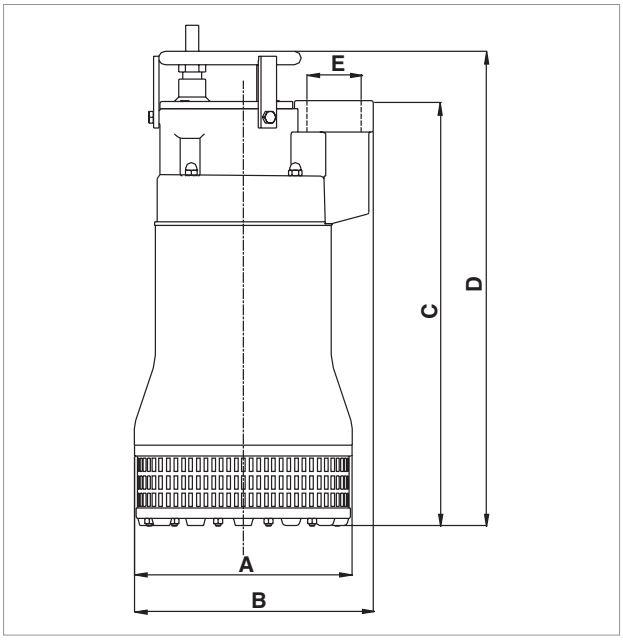


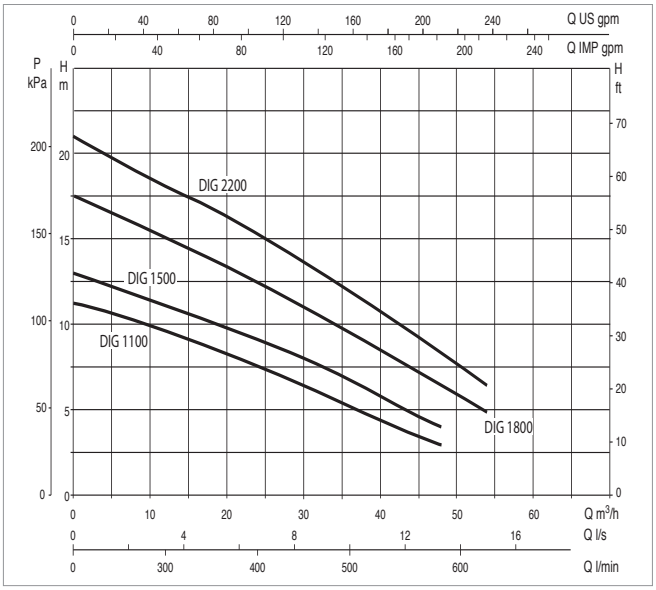
SELECTION TABLE - DIG 1100 -1500 - 1800 - 2200

MODEL	Q= m³/h	0	6	12	18	24	30	36	42	48	54	60	72	84	96	108	120	132
	Q=l/min	0	100	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000	2200
DIG 1100 M-T	H (m)	11.3	10.6	9.6	8.5	7.4	6.5	5.3	3.8	3.0								
DIG 1500 T		13		11.0	10.0	9.0	8.0	6.8	5.3	4.0								
DIG 1800 T		17.6		15.0	13.8	12.5	11.0	9.4	8.1	6.3	4.9							
DIG 2200 T		20.1		16.8	15.2	14.1	12.4	10.6	9.1	7.4	5.9							

DIG 1100 -1500 - 1800 - 2200 - SUBMERSIBLE PUMPS FOR DRAINING CLEAR WATER CONTAINING ABRASIVE SUBSTANCES

Liquid temperature range: from 0 °C to +35 °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
DIG 1100 MA	1 x 230 V ~	1.7	1.1	1.5	7.8	25	450
DIG 1100 M-NA	1 x 230 V ~	1.7	1.1	1.5	7.8	25	450
DIG 1100 T-NA	1 x 230 V ~	1.7	1.1	1.5	3	-	-
DIG 1500 T-NA	1 x 230 V ~	2.4	1.5	2	4.3	-	-
DIG 1800 T-NA	1 x 230 V ~	3.2	1.8	2.4	5.3	-	-
DIG 2200 T-NA	1 x 230 V ~	4.0	2.2	3	6.4	-	-

MODEL	A	B	C	D	E DNM	FREE PASSAGE mm	PACKING DIMENSIONS			VOLUME (m³)	WEIGHT kg
							L/A	L/B	H		
DIG 1100 MA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	34
DIG 1100 M-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	34
DIG 1100 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	34
DIG 1500 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	35
DIG 1800 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	36
DIG 2200 T-NA	250	270	480	530	2 1/2" - F	6	400	400	750	0.12	37

DIG 3700 - 5500 - 8500 - 11000

SUBMERSIBLE PUMPS

TECHNICAL DATA

Operating range: from 12 to 240 m^3/h with head up to 57.5 metres.
Pumped liquid: rain water, ground water, sandy water from construction site, water containing abrasive particles in general.
Free passage of solids: 6 mm.
Liquid temperature range: from 0 °C to 35 °C.
Maximum immersion depth: 20 metres (with cable of appropriate length).
Motor protection class: IP 68
Insulation class: F
Standard voltage: 220-240 V - 50Hz single-phase.
380-415 V - 50Hz three-phase.
Installation: fixed or portable, vertical position.
Continuous service with completely or partially submerged pump.
Power cable: 10 metres H07RN-F. Special patented steel core reinforced tear-resistant electric cable also available on request.

APPLICATIONS

Portable pumps, ideal for draining abrasive liquids in the field:
- Building, tunnel, or infrastructure construction sites
- Civil, for pedestrian subways and car parks
- Industrial, for process waters
- Open mines and caves
- Municipal, for emergency sandy water flooding

CONSTRUCTION FEATURES OF THE PUMP

Pump body made of EN GJL 200 cast iron, internally lined with high abrasion and wear resistance Nitrile (NR) rubber.
Double silicon carbide/silicon carbide mechanical seal on the pump side and carbon/alumina seal on the motor side, in oil chamber.
AISI 304 stainless steel suction grid
Delivery ND: 3" for the APT version, 4" for the MPT version
Open CRA2 650 HB chrome cast iron impeller

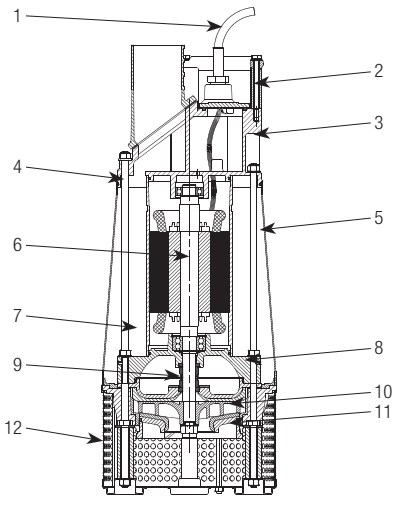
CONSTRUCTION FEATURES OF THE MOTOR

Dry, asynchronous and waterproof type motor, cooled by the pumped liquid. Rotor mounted on permanently lubricated ball bearings, oversized to ensure long-term reliability and extended lifetime. Built-in thermo-amperometric protection. Continuous S1 service with completely or partially submerged pump.
Number of poles: 2
Max starts/hour: 15

MATERIALS

N.	PARTS*	MATERIALS
1	POWER INPUT CABLE	H07RN-F
2	HANDLE	
3	UPPER COVER	EN GJL 200 CAST IRON
4	OR	NBR
5	EXTERNAL COOLING LINER	AISI 304 STAINLESS STEEL
6	ROTOR SHAFT	AISI 420
7	MOTOR BODY	
8	BEARING FLANGE	EN GJL 200 CAST IRON
9	MECHANICAL SEAL	MOTOR: SILICON CARBIDE/SILICON CARBIDE PUMP: SILICON CARBIDE/SILICON CARBIDE
10	IMPELLER	CRA2 650HB CHROME CAST IRON
11	HYDRAULIC BODY	70SHORE ABRASION RESISTANCE RUBBER
12	GRID	AISI 304 STAINLESS STEEL

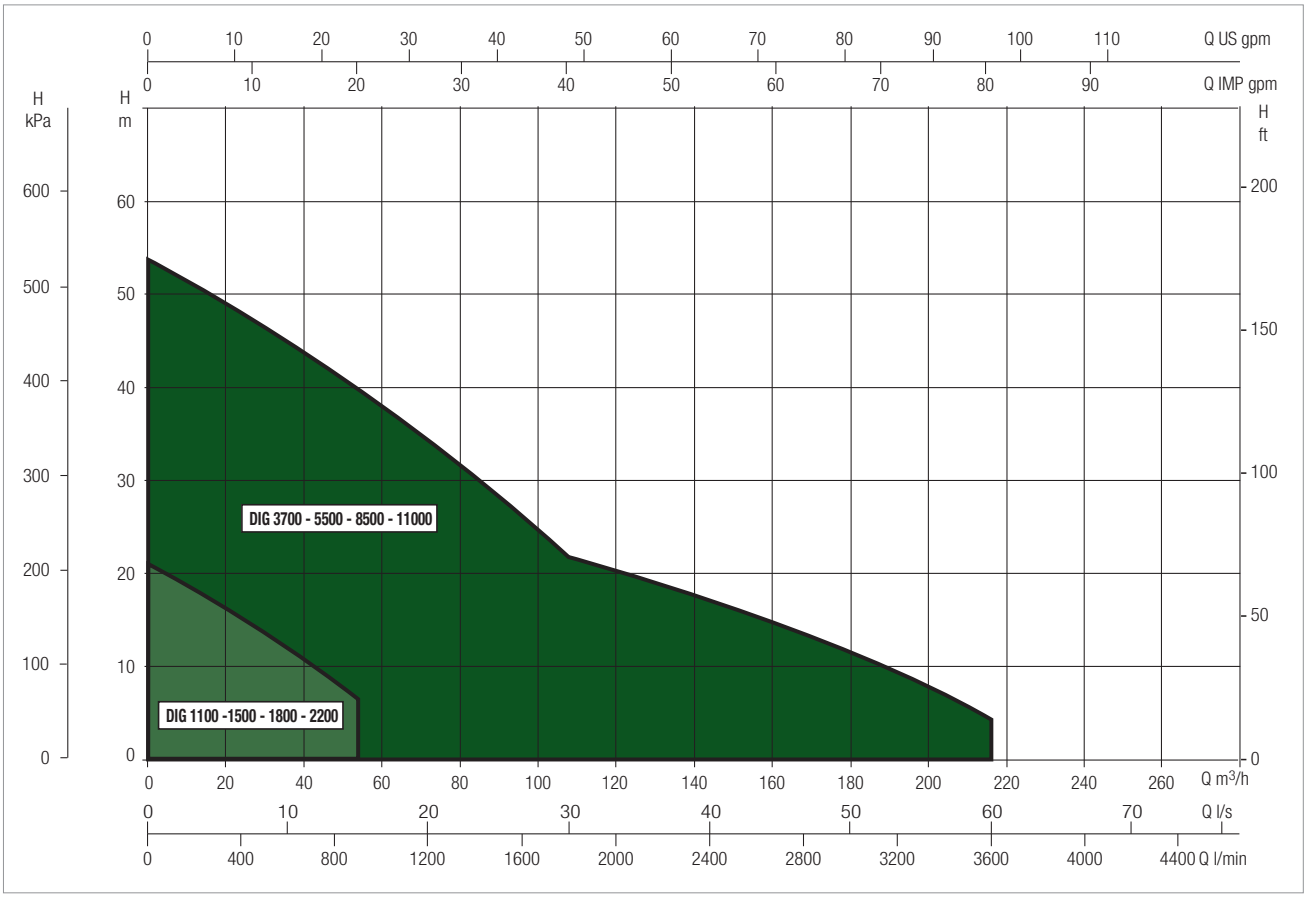
* In contact with the liquid



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

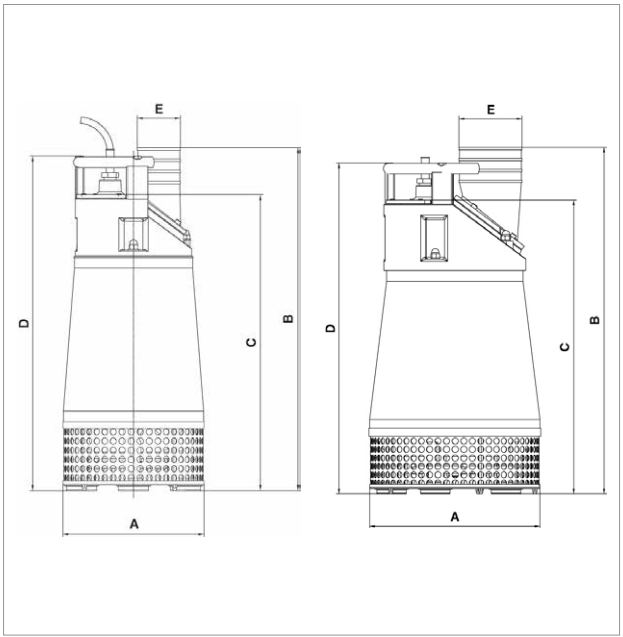


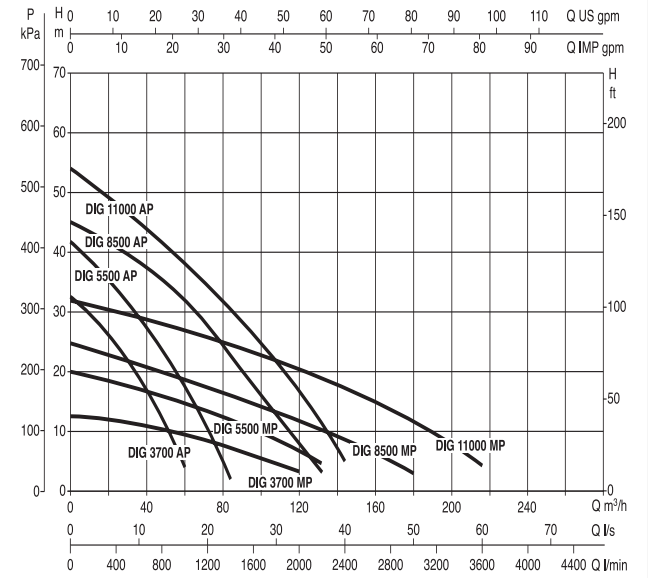
SELECTION TABLE - DIG 3700 5500 - 8500 - 11000

MODEL	Q= m³/h	0	6	12	18	24	30	36	42	48	54	60	72	84	96	108	120	132
	Q=l/min	0	100	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000	2200
DIG 3700 AP T	H (m)	32.5		29.0	27.3	25.0	23.2	20.1	17.5	14.8	12.3							
DIG 3700 MP T		12.5		12.1	11.8	11.6	11.3	11.0	10.6	10.1	9.9	9.4	8.5	7.4	6.0	4.9	3.3	
DIG 5500 AP T		41.6		37.7	35.3	32.4	30.0	27.0	23.8	21.2	18.0	14.7	7.8	2.5				
DIG 5500 MP T		20.0		19.5	19.2	18.9	18.6	18.2	17.9	17.3	16.7	15.8	14.4	12.6	10.5	9.1	7.2	5.0
DIG 8500 AP T		45.0		42.8	40.3	38.1	35.8	34.3	32.2	30.1	28.3	26.2	22.4	18.3	14.6	11.6	8.6	5.4
DIG 8500 MP T		23.0		22.5	22.0	21.5	21.2	20.8	20.3	19.7	19.2	18.5	17.5	16.2	15.1	13.5	11.7	10.3
DIG 11000 AP T		58		54.0	52.0	50.5	49.0	47.5	46.0	44.0	42.0	40.0	36.0	31.0	26.0	21.0	16.0	11.0
DIG 11000 MP T		32		31.0	31.0	30.1	29.4	29.1	28.0	28.0	27.4	26.5	25.6	24.6	23.3	22.1	20.7	19.1

DIG 3700 -5500 - 8500 - 11000 - SUBMERSIBLE PUMPS FOR DRAINING CLEAR WATER CONTAINING ABRASIVE SUBSTANCES

Liquid temperature range: from 0 °C to +35 °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
			kW	HP	
DIG 3700 AP T-NA	3 x 400 V ~	4.2	3.7	5	7.7
DIG 3700 MP T-NA	3 x 400 V ~	4.3	3.7	5	7.8
DIG 5500 AP T-NA	3 x 400 V ~	7.0	5.5	7.5	12.0
DIG 5500 MP T-NA	3 x 400 V ~	5.4	5.5	7.5	10.0
DIG 8500 AP T-NA	3 x 400 V ~	10.4	8.5	11.4	19.0
DIG 8500 MP T-NA	3 x 400 V ~	9.9	8.5	11.4	16.0
DIG 11000 AP T-NA	3 x 400 V ~	13.6	11	15	22.5
DIG 11000 MP T-NA	3 x 400 V ~	12.5	11	15	21.5

MODEL	A	B	C	D	E DNM	FREE PASSAGE mm	PACKING DIMENSIONS			VOLUME (m^3)	WEIGHT kg
							L/A	L/B	H		
DIG 3700 AP T-NA	326	840	685	775	3"	10	600	800	1050	0.5	90
DIG 3700 MP T-NA	326	794	685	775	4"	10	600	800	1050	0.5	90
DIG 5500 AP T-NA	326	840	685	775	3"	10	600	800	1050	0.5	96
DIG 5500 MP T-NA	326	794	685	775	4"	10	600	800	1050	0.5	96
DIG 8500 AP T-NA	404	894	773	862	4"	10	600	800	1050	0.5	150
DIG 8500 MP T-NA	404	894	773	862	6"	10	600	800	1050	0.5	150
DIG 11000 AP T-NA	404	894	773	862	4"	10	600	800	1050	0.5	165
DIG 11000 MP T-NA	404	894	773	862	6"	10	600	800	1050	0.5	165