

6SR 6" submersible pumps



Clean water
(Maximum sand content 100 g/m³)



Civil use



Agricultural use

※ **6SR submersible pumps: designed with special materials to resist sand abrasion for long-lasting performance**

PERFORMANCE RANGE

- Flow rate up to **1200 l/min** (72 m³/h)
- Head up to **381 m**

INSTALLATION AND USE

Designed to transfer clean water with sand content up to **100 g/m³**. Highly efficient and reliable, they are suitable for industrial, civil, and agricultural applications, such as water distribution coupled with pressure tanks, irrigation, pressure boosting, fire-fighting systems, and more.

INCLUDES

- ※ Three-phase electric motor 380 V - 60 Hz
The pump is supplied with motor **6PD** rewindable and oil filled
- ※ **4 m** power cable

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Maximum sand content **100 g/m³**
- Maximum operating depth below water level: **200 m**
- Operation:
 - in vertical position
 - horizontally with the following limits: up to **12 stages** or up to **11 kW**
- Starts per hour: **20** at regular intervals
- Minimum cooling flow **8 cm/s**
- Continuous running duty **S1**

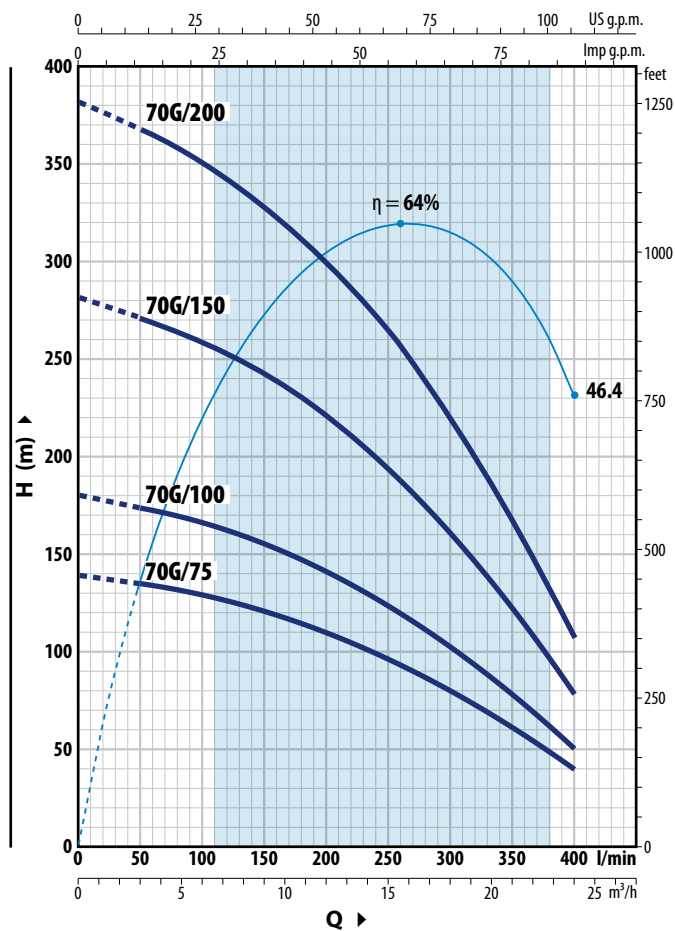
AVAILABLE UPON REQUEST

- ※ 6SR-HYD pumps with double cable cover for coupling with 380/660 V Δ/Δ dual voltage motors (star/delta)
- ※ Different voltage or frequency
- ※ Cooling jacket kit complete with filter and supinlets

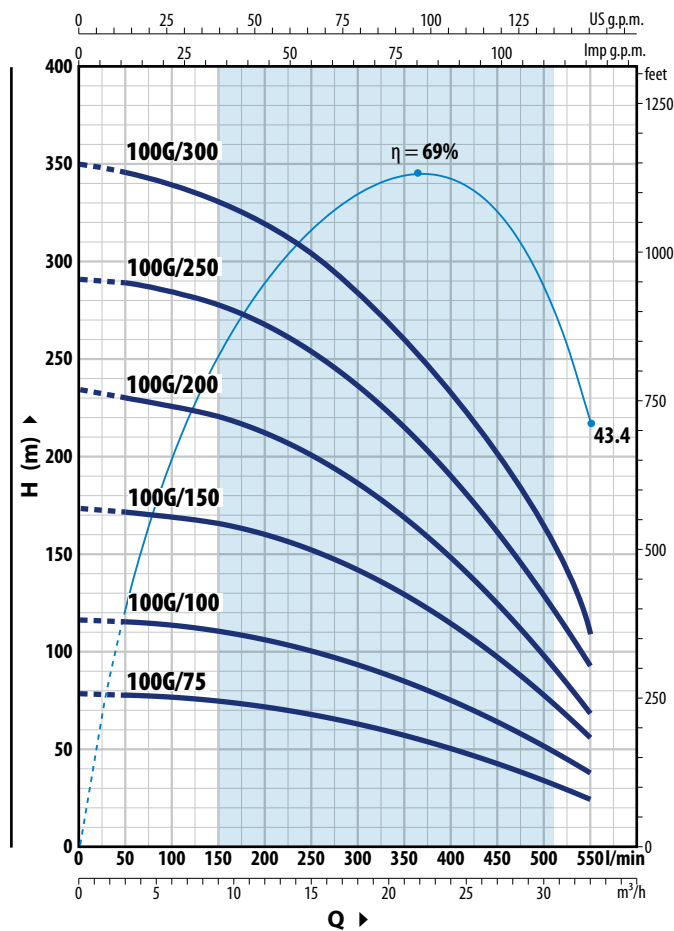
CURVES AND PERFORMANCE DATA

60 Hz

6SR70G



6SR100G



6SR70G

MODEL Three-phase	N. STAGES	POWER (P ₂)		Q													
		kW	HP		m³/h	0	3	6	9	12	15	18	21	24			
					l/min	0	50	100	150	200	250	300	350	400			
6SR 70G/75	7	5.5	7.5	H m		140	135	130	122	110	98	80	60	40			
6SR 70G/100	9	7.5	10			182	174	168	155	140	125	104	80	50			
6SR 70G/150	14	11	15			281	270	260	240	220	198	162	122	78			
6SR 70G/200	19	15	20			381	365	351	325	300	265	220	168	108			

6SR100G

MODEL Three-phase	N. STAGES	POWER (P ₂)		Q															
		kW	HP		m³/h	0	3	6	9	12	15	18	21	24	27	30	33		
					l/min	0	50	100	150	200	250	300	350	400	450	500	550		
6SR 100G/75	4	5.5	7.5	H m		80	79	77	75	72	68	63	58	52	44	38	25		
6SR 100G/100	6	7.5	10			118	117	114	110	105	100	95	88	78	68	58	38		
6SR 100G/150	9	11	15			177	173	170	166	160	152	142	130	118	100	85	56		
6SR 100G/200	12	15	20			235	230	225	220	213	202	190	170	150	133	110	69		
6SR 100G/250	15	18.5	25			292	290	284	275	265	252	238	218	195	167	140	92		
6SR 100G/300	18	22	30			350	345	339	333	320	305	285	260	230	200	168	110		

Q = Flow rate H = Total manometric head

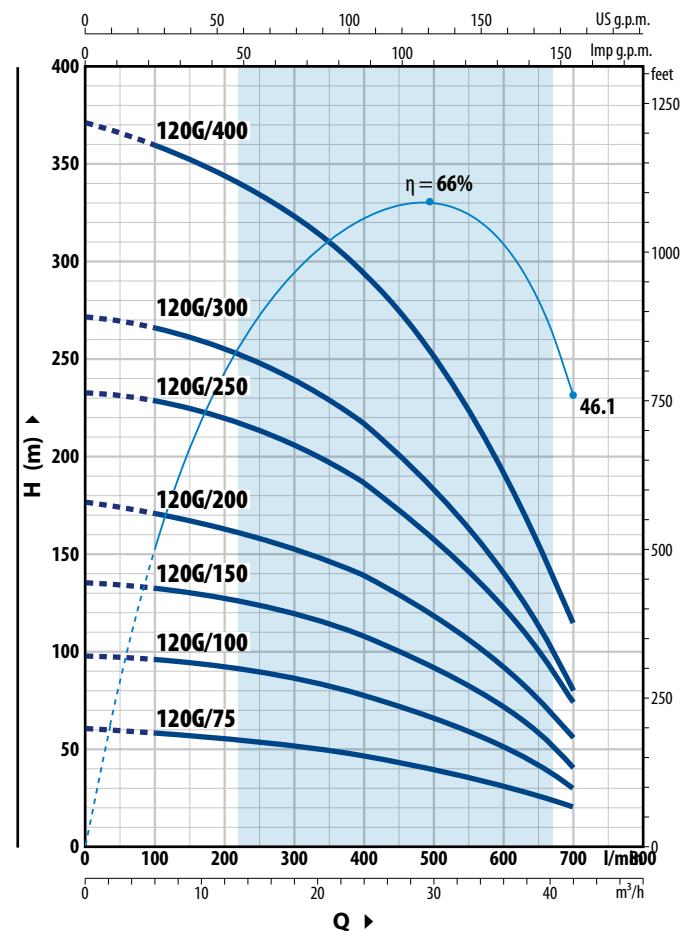
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

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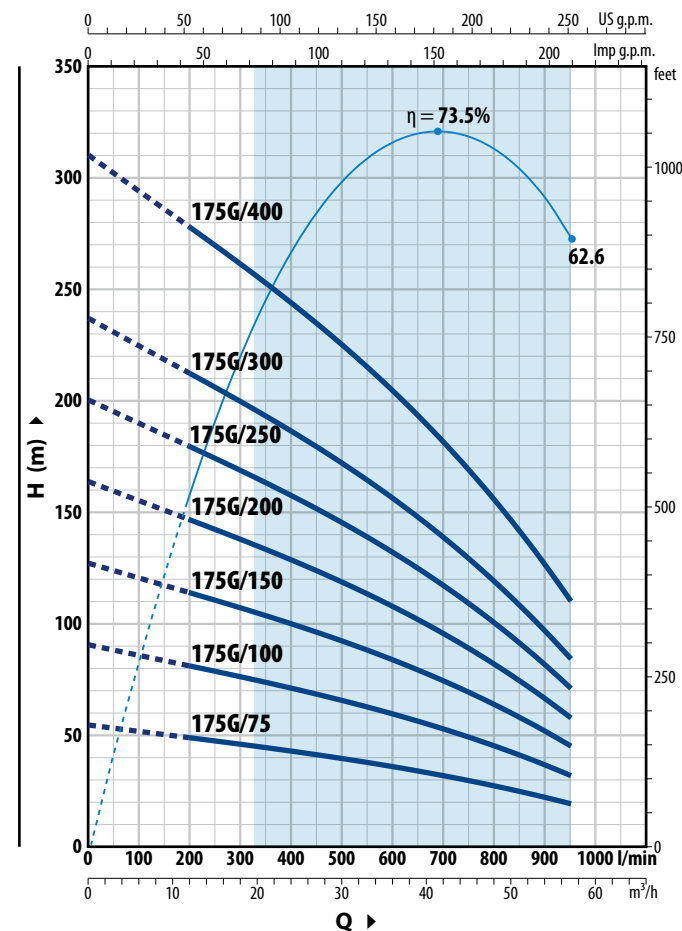
CURVES AND PERFORMANCE DATA

60 Hz

6SR120G



6SR175G



6SR120G

MODEL	N.	POWER (P ₂)		Q	m³/h	0	6	12	18	24	30	36	42
Three-phase	STAGES	kW	HP		l/min	0	100	200	300	400	500	600	700
6SR 120G/75	3	5.5	7.5	H m		61	58	55	52	46	40	31	20
6SR 120G/100	5	7.5	10			98	95	91	85	78	66	52	30
6SR 120G/150	7	11	15			136	132	128	120	108	92	73	45
6SR 120G/200	9	15	20			177	170	163	155	140	120	94	56
6SR 120G/250	12	18.5	25			233	230	220	205	188	159	125	75
6SR 120G/300	14	22	30			272	267	255	240	218	185	143	80
6SR 120G/400	19	30	40			372	360	345	325	295	253	195	115

6SR175G

MODEL	N.	POWER (P ₂)		Q	m³/h	0	12	18	24	30	36	42	48	54	57
Three-phase	STAGES	kW	HP		l/min	0	200	300	400	500	600	700	800	900	950
6SR 175G/75	3	5.5	7.5	H m	55	49	46	43	40	36	32	27.5	22.3	19.5	
6SR 175G/100	5	7.5	10		91	82	77	72	66.5	60	53.5	46	37	32.5	
6SR 175G/150	7	11	15		128	115	108	101	93	84	75	64	52	45.5	
6SR 175G/200	9	15	20		164	147	138	129	119	108	96	82	67	58.5	
6SR 175G/250	11	18.5	25		201	180	169	158	146	132	118	101	82	72	
6SR 175G/300	13	22	30		237	213	200	187	172	156	139	119	97	85	
6SR 175G/400	17	30	40		310	278	262	244	225	205	182	156	127	111	

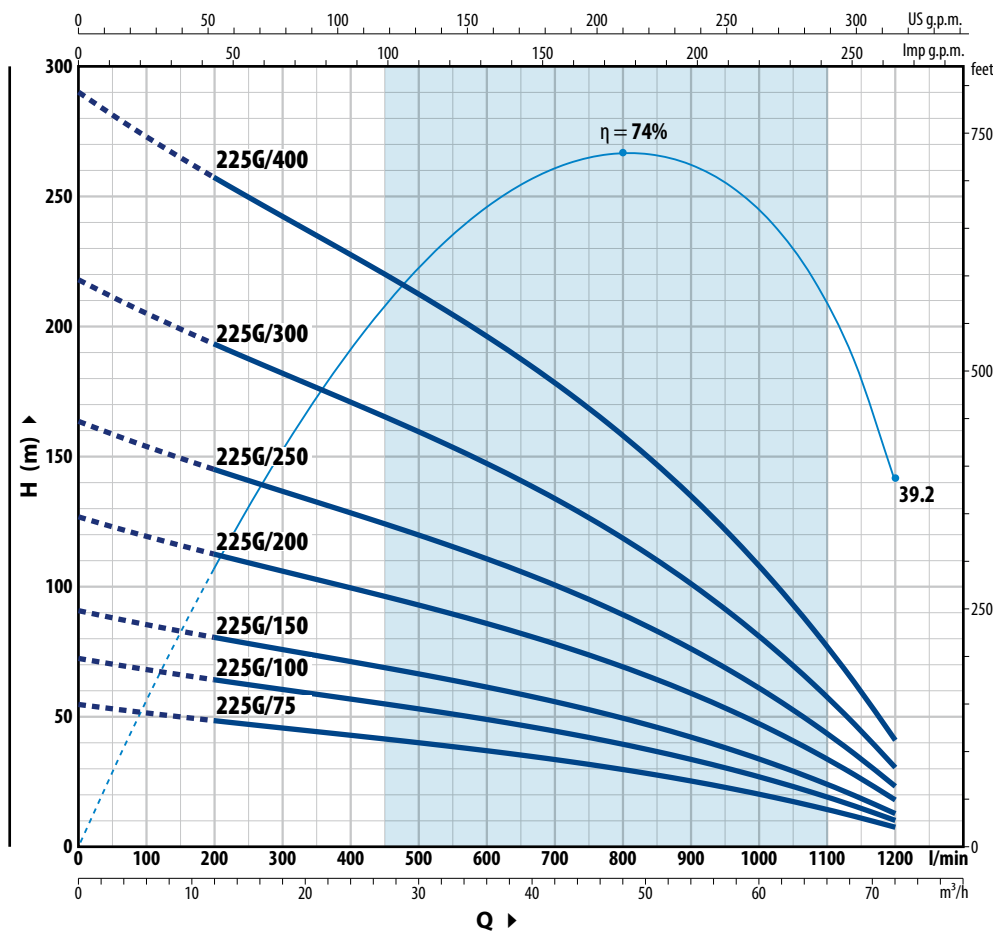
Q = Flow rate H = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

CURVES AND PERFORMANCE DATA

60 Hz

6SR225G



6SR225G

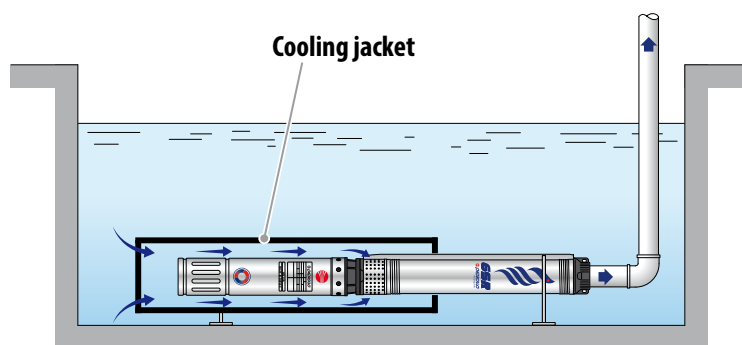
MODEL Three-phase	N. STAGES	POWER (P ₂)		Q	0	12	24	36	48	60	72
		kW	HP		0	200	400	600	800	1000	1200
6SR 225G/75	3	5.5	7.5	H m	54.5	48.5	42.5	37	29.5	20.3	7.5
6SR 225G/100	4	7.5	10		73	64.5	57	49	39.5	27	10
6SR 225G/150	5	11	15		91	81	71	61.5	49.5	34	13
6SR 225G/200	7	15	20		127	113	100	86	69	47.5	18
6SR 225G/250	9	18.5	25		163	145	128	111	89	61	23
6SR 225G/300	12	22	30		218	193	171	147	119	81	30.5
6SR 225G/400	16	30	40		291	258	228	197	158	108	41

Q = Flow rate H = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

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EXAMPLES OF INSTALLATION



COOLING JACKET

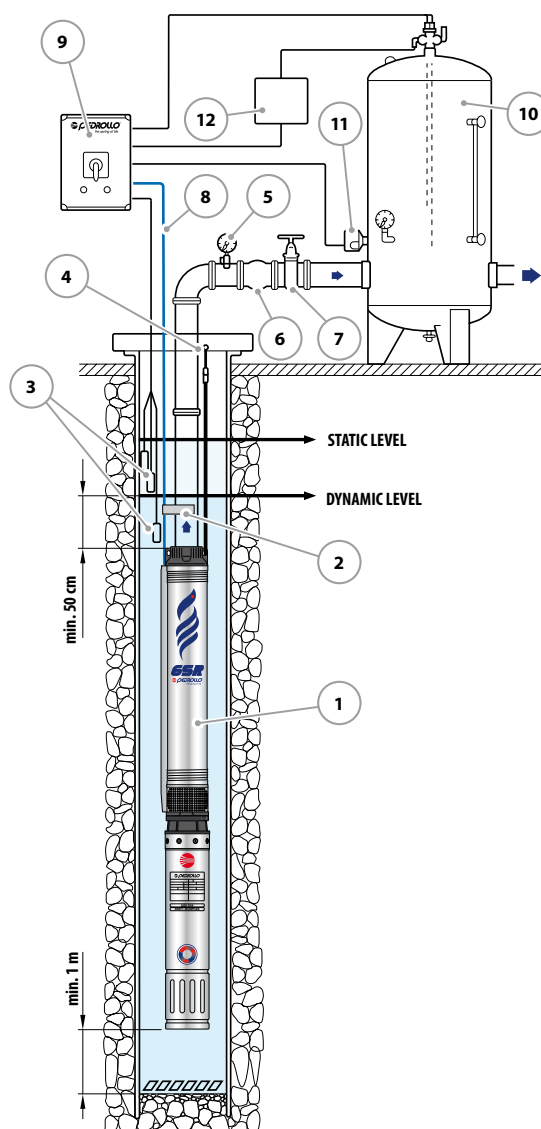
✘ When the pump is installed in reservoirs, rivers, or lakes, it requires an external cooling jacket (flow generator) to ensure sufficient water flow across the motor surface, preventing overheating.



✘ The **6SR** pumps are suitable for wells with a minimum diameter of **6" (153 mm)**.

✘ The submersible pump must be lowered into the well through the delivery pipe to a depth that ensures it remains fully submerged, maintaining at least 50 cm or one metre from the bottom of the well, even if liquid levels decrease during operation.

✘ It is advisable to secure the submersible pump using a stainless-steel cable connected to appropriate attachments on the delivery port.

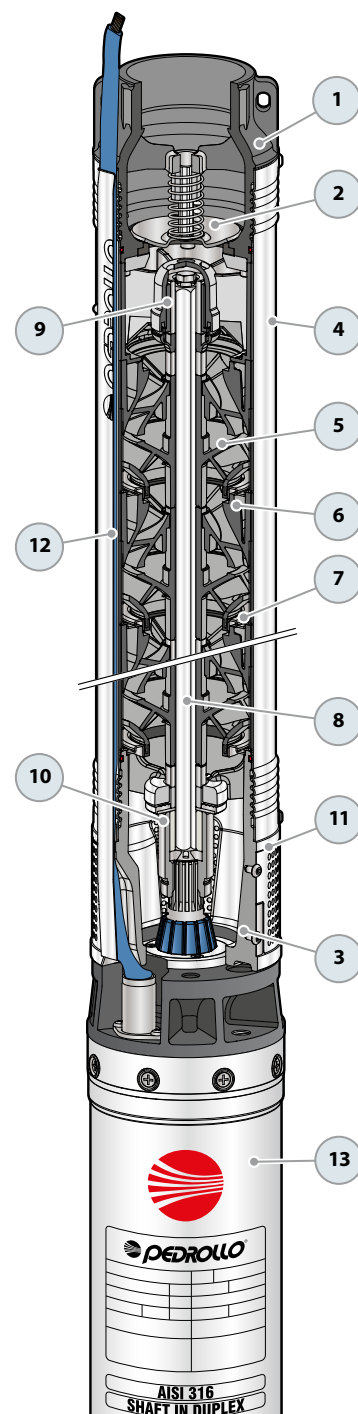


COMPONENTS

- 1) Submersible pump
- 2) Fixing Ties
- 3) Level control probes
- 4) Bracket and anchor cable
- 5) Pressure Gauge
- 6) Check valve
- 7) Flow control gate valve
- 8) Electrical power supply cable
- 9) Control panel
- 10) Autoclave tank
- 11) Pressure switch
- 12) Solenoid valve/electric compressor

MATERIALS AND COMPONENTS

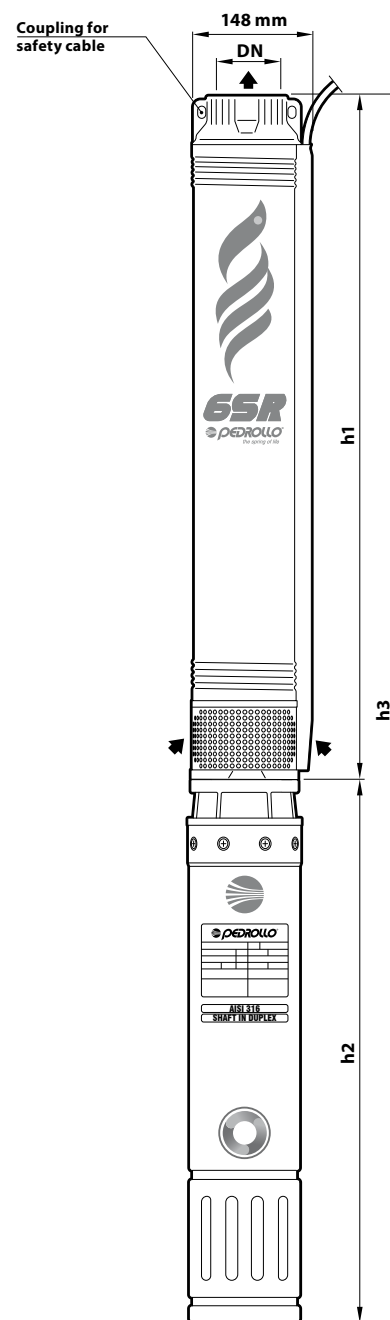
1 Delivery port	Cast iron with cataphoresis treatment with thread according to ANSI/ASME B1.20.1
2 Check valve	Stainless steel AISI 304 stainless steel
3 Motor bracket	Cast iron with cataphoresis treatment sized to NEMA standards
4 External sleeve	AISI 304 stainless steel
5 Impellers	Noryl™ and coated with special sand-resistant elastomer
6 Diffusers	Noryl™
7 Diffuser boxes	AISI 304 stainless steel
8 Pump shaft	AISI 304 stainless steel
9 Pump bearings	Made of AISI 316L stainless steel coated with chromium oxide to resist sand
10 Tow coupling	AISI 420 stainless steel
11 Filter	AISI 304 stainless steel
12 Cable sheath	AISI 304 stainless steel
13 Motor 6"	6PD rewindable oil filled motor



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DIMENSIONS AND WEIGHT

MODEL Three-phase	PORT DN	N. STAGES	DIMENSIONS mm				kg 3~
			Ø	h1	h2	h3	
6SR 70G/75 - PD	3" NPT	7	149.5	671	625	1296	55.2
6SR 70G/100 - PD		9		758	660	1418	60.5
6SR 70G/150 - PD		14		1020	765	1785	77.2
6SR 70G/200 - PD		19		1237	820	2057	86.8
6SR 100G/75 - PD		4		542	625	1167	52.8
6SR 100G/100 - PD		6		629	660	1289	58.0
6SR 100G/150 - PD		9		759	765	1524	67.0
6SR 100G/200 - PD		12		934	820	1754	81.9
6SR 100G/250 - PD		15		1064	883	1947	94.7
6SR 100G/300 - PD		18		1194	953	2147	103.5
6SR 120G/75 - PD		3		526	625	1151	51.8
6SR 120G/100 - PD		5		632	660	1292	58.9
6SR 120G/150 - PD		7		738	765	1503	70.8
6SR 120G/200 - PD		9		888	820	1708	80.9
6SR 120G/250 - PD		12		1047	883	1930	92.3
6SR 120G/300 - PD		14		1153	953	2106	102.3
6SR 120G/400 - PD		19		1417	1098	2515	123.7



DIMENSIONS AND WEIGHT

MODEL Three-phase	PORT DN	N. STAGES	DIMENSIONS mm				kg 3~
			Ø	h1	h2	h3	
6SR 175G/75 - PD	3" NPT	3	149.5	662	625	1287	54.4
6SR 175G/100 - PD		5		859	660	1519	61.3
6SR 175G/150 - PD		7		1056	765	1821	76.5
6SR 175G/200 - PD		9		1253	820	2073	86.3
6SR 175G/250 - PD		11		1450	883	2333	98.3
6SR 175G/300 - PD		13		1646	953	2599	109.5
6SR 175G/400 - PD		17		2040	1098	3138	136.0
6SR 225G/75 - PD		3		662	625	1287	55.0
6SR 225G/100 - PD		4		761	660	1421	58.8
6SR 225G/150 - PD		5		859	765	1624	67.0
6SR 225G/200 - PD		7		1056	820	1876	82.0
6SR 225G/250 - PD		9		1253	883	2136	96.6
6SR 225G/300 - PD		12		1548	953	2501	106.8
6SR 225G/400 - PD		16		1942	1098	3040	135.0

