

STARLINE

IN-LINE CENTRIFUGAL PUMP



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Section

1

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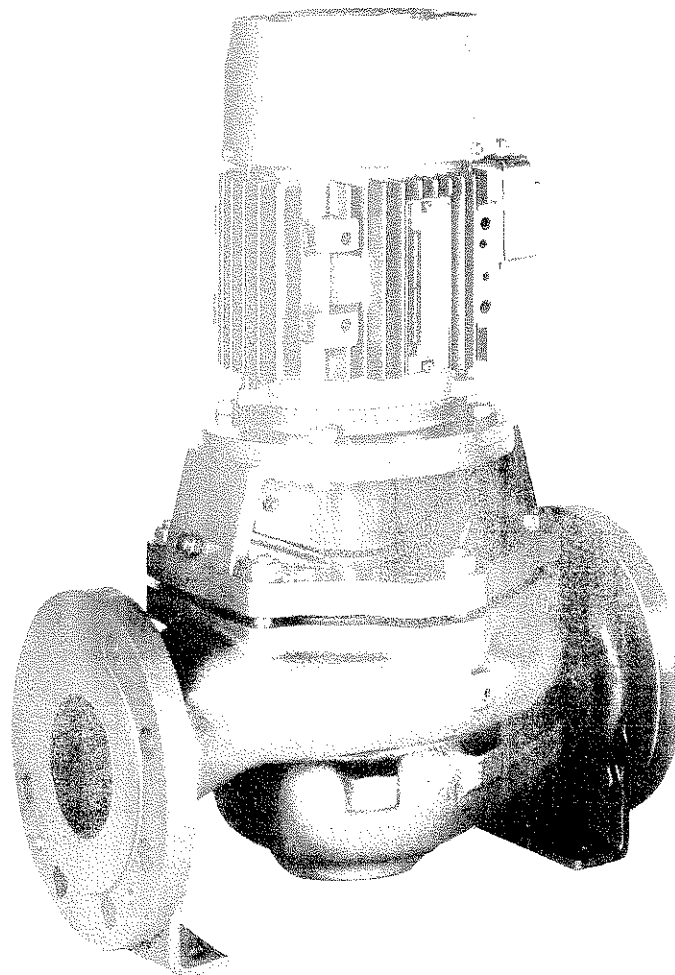
High performance and reliability have become the accepted norm in the Building Services Industry. This in-line pump configuration has been designed to meet such requirements and the STARLINE RANGE has the capacity to provide the higher head duties now required from building services pumps.

The design leads the field in compact dimensions combined with high efficiency of performance, and simple maintenance. The STARLINE pump has been designed to metric standards for vertically mounted shaft operation. Pumps fitted with motors up to D90 frame size may also be operated with the shaft in the horizontal position. Temperatures pumped can be up to 150°C and pressures up to 10 Bar, though not necessarily a combination of both.

The back pull out design enables the pedestal and rotating element to be removed without disturbing the casing or pipework. Back vanes are an integral part of all the shrouded impellers which ensure their hydraulic balance. The impellers are cast in one piece, thereby removing stress and corrosion points.

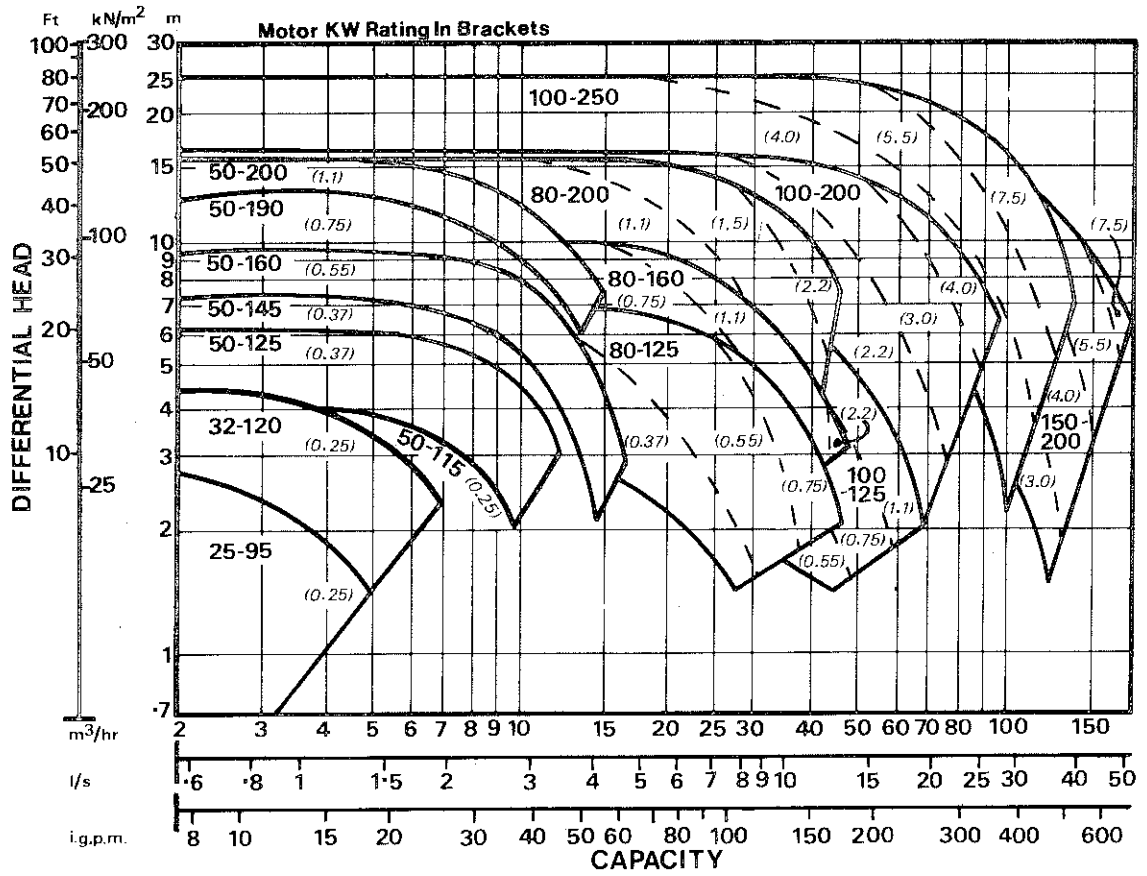
COMPONENT	PUMP SIZES 50-125 to 150-200 STANDARD	PUMP SIZES 25-95 & 32-120	
		STANDARD	GUNMETAL
BODY PEDESTAL	Cast Iron BS 1452 Gr. 260	Cast iron BS1452 Gr.220	
IMPELLER	Gunmetal BS 1400 Gr. LG2C		
SHAFT	Stainless Steel BS 970 431 S29		
SEAL	DIN Standard uncooled	CRANE 106 ABT 2C1	
MOTOR	Totally Enclosed Fan Ventilated Flange Mounted to BS 5000 and BS 4999 CL 'F'	T.E.F.V. Flange Mounted BS 5000 PT II CL 'B'	
ADDITIONAL INFORMATION	Pumps can be supplied optionally with gunmetal impellers BS 1400 LG2C or with G.M. body and impellers on certain sizes.	32-120 pumps cannot be supplied with single phase motors at 2900 R.P.M.	

PRESSURE	10 Bar made up of system static and developed head	6 Bar made up of total system static and developed head
TEMPERATURE	Up to 130°C with Carbon/Ni. Resist seal Up to 150°C with Carbon/Sintered Tungsten seal	120°C Maximum
PUMP SPEED	Up to 2900 R.P.M.	Up to 3500 R.P.M.
PUMP CONNECTIONS	Flanged BS 4504 10 Bar.	Tail pipe and unions
ROTATION	Clockwise looking on non drive end of motor	
SHAFT MOUNTING	Vertical as standard. Horizontal available on pumps limited to a motor frame size of D90. Customer to arrange for suitable supports.	



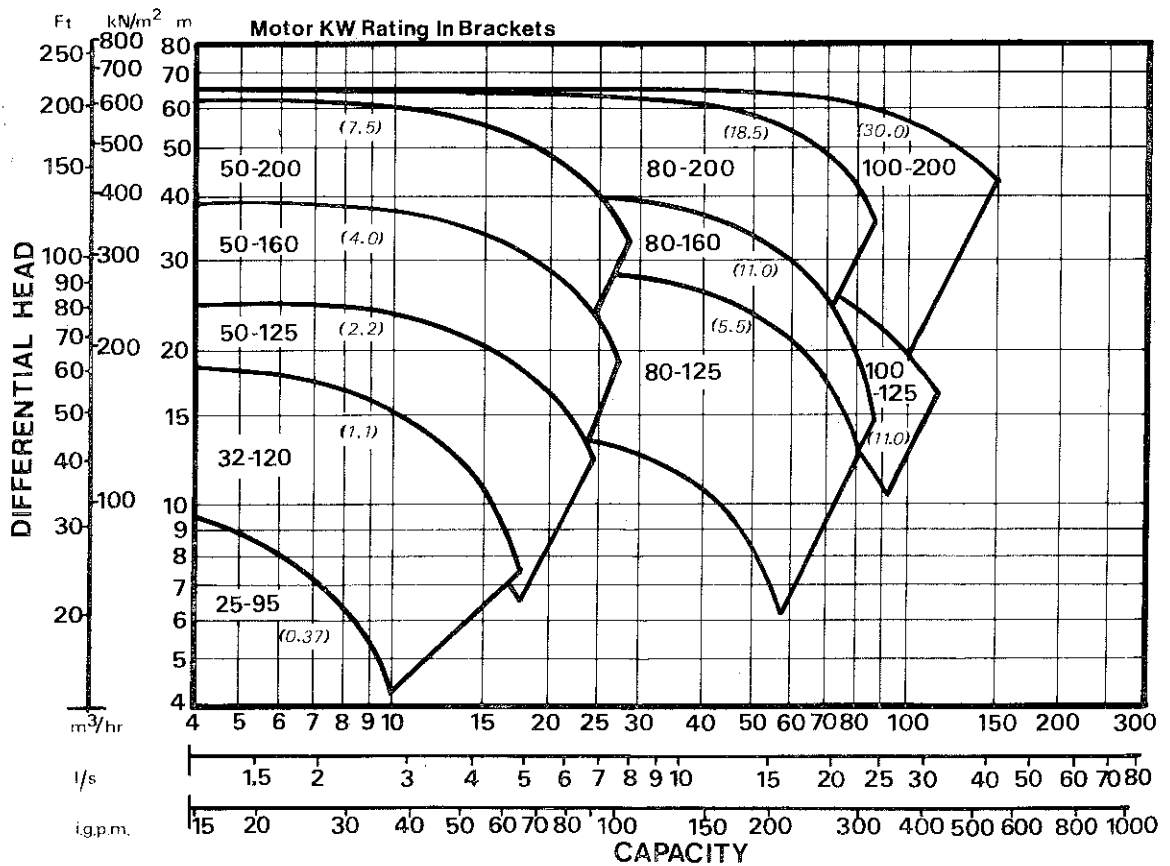
SELECTION CHART STAR RANGE
 IN-LINE PUMPS 1450 RPM
 PERFORMANCE ON WATER SG = 1.0

50Hz



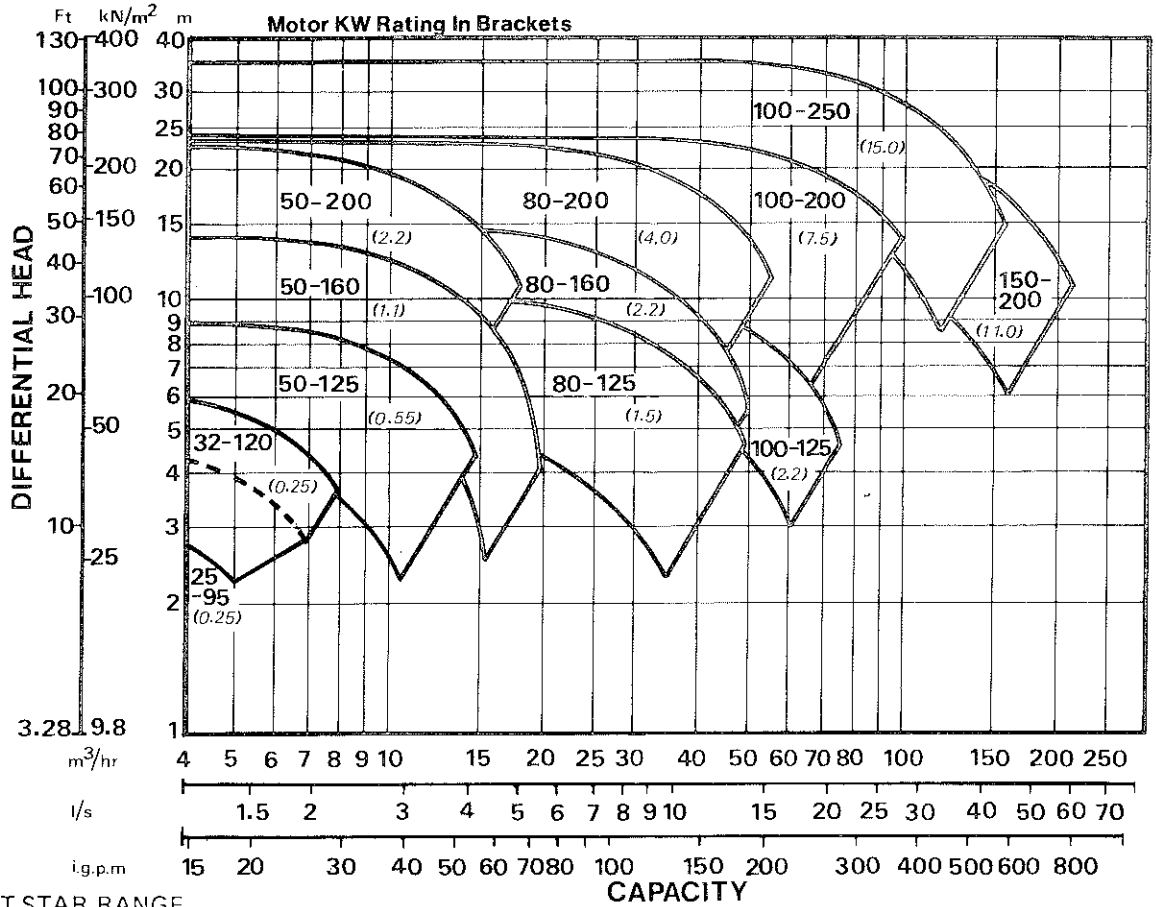
SELECTION CHART STAR RANGE
 IN-LINE PUMPS 2900 RPM
 PERFORMANCE ON WATER SG = 1.0

50Hz



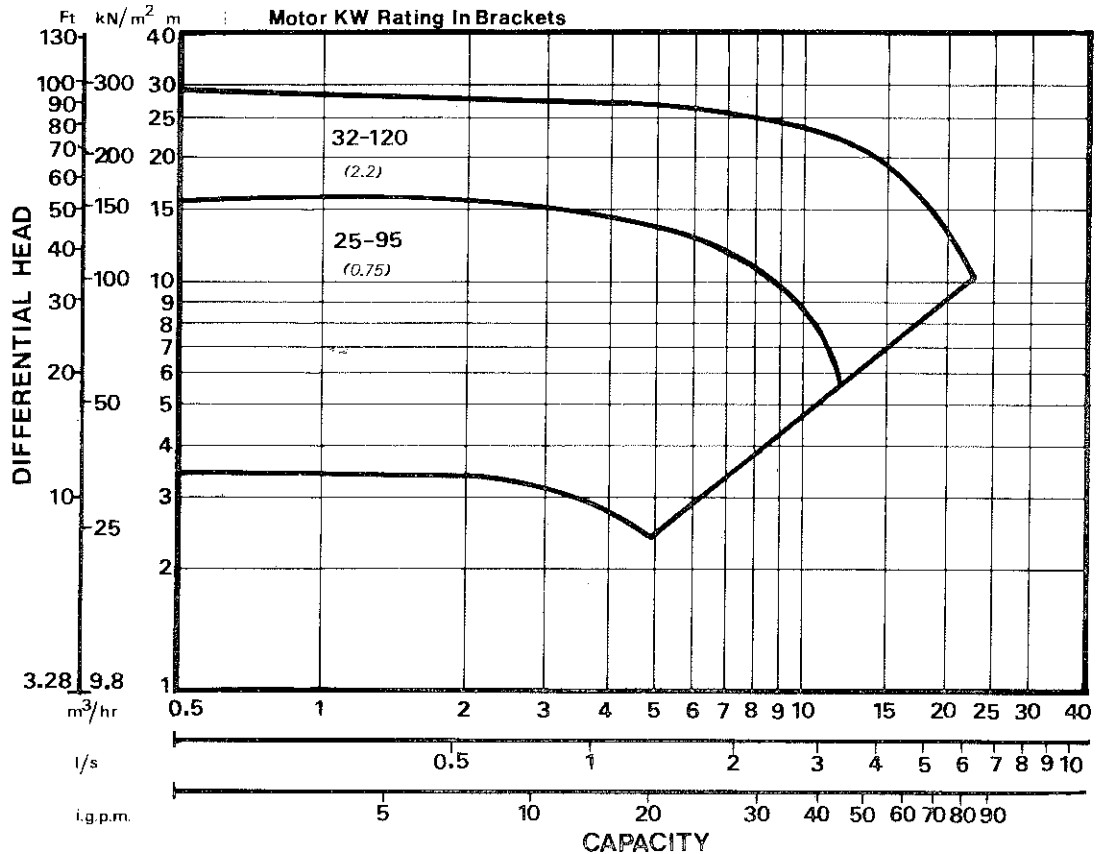
SELECTION CHART STAR RANGE
IN-LINE PUMPS 1750 RPM
PERFORMANCE ON WATER SG = 1.0

60Hz

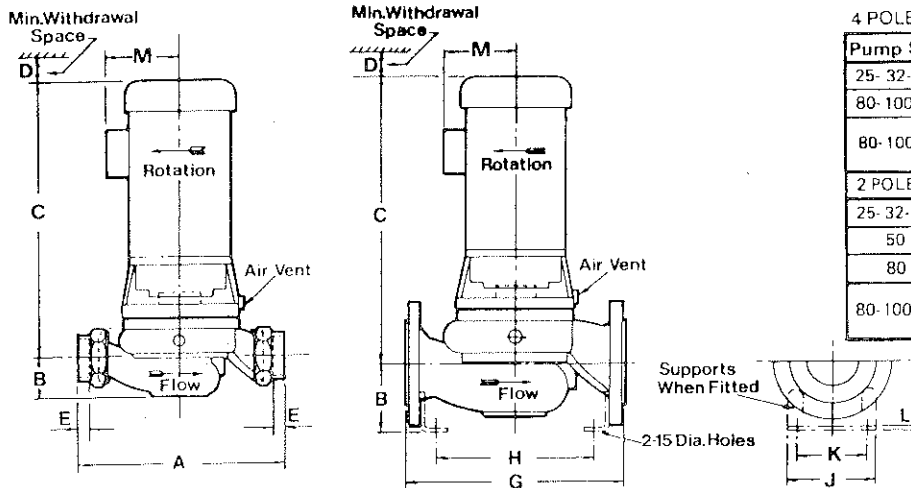


SELECTION CHART STAR RANGE
IN-LINE PUMPS 3500 RPM
PERFORMANCE ON WATER SG = 1.0

60Hz



PUMP SIZES UP TO 32-120 PUMP SIZES 50-115 AND ABOVE



MOUNTING

4 POLE 50 & 60HZ

Pump Size	Motor Frame	Vertical Shaft
25-32-50	Up to D90	No Feet
80-100	Up to D90	Feet Opt. Extra
80-100-150	D100 to D132	Feet Fitted
	D160	
2 POLE 2900 RPM MOTORS		
25-32-50	Up to D100	No Feet
50	D112 D132	Concrete Plinth
80	Up to D90	Feet Opt. Extra
80-100	D100 to D132	Feet Fitted
	D160 to D200	

PUMP TYPE	BRANCH DETAIL		No. OF POLES	MAXM. MOTOR FRAME	kW RATING	A		B	C	D	E		G	H	J	K	L	M	APPROX WEIGHT Kg														
	C. IRON	G. METAL				C. IRON	G. METAL				CI	GM																					
25-95	1" BSP TAPER	BORED 28.5	4	B 42	0.25	255	255	44	329	44	15	22	NOT APPLICABLE						100	12													
			2	B 56	0.37														125	14													
32-120	1 1/4" BSP TAPER	BORED 35	4	B 42	0.25	285	304	46	338	46	24	23	NOT APPLICABLE						100	18													
			2	B 56	1.1														120	21													
50-125	50	FLANGED TO BS 4504 CLASS 10	4	B 56	0.37	NOT APPLICABLE		127	415	120	NOT APPLICABLE						120	42															
			4	<i>B 56</i>	<i>0.55</i>				436								140	266	150	140	45												
50-115			4	B 42	0.25				344								120	100	38														
			4	B 56	0.55				415								127	330	214	152	114	3	120	50									
50-160			4	<i>D 90S</i>	<i>1.1</i>				411								140	140	73														
			2	D 112M	4.0				536								120	167	73														
50-145			4	B 56	0.37				415								127	120	50														
			4	D 90S	1.1				406								120	140	58														
50-200			4	<i>D 100L</i>	<i>2.2</i>				463								130	138	71														
			2	D 132S	7.5				550								130	176	96														
50-190			4	B 56	0.75				410								120	120	56														
80-125			80	FLANGED TO BS 4504 CLASS 10	4				B 56								0.75	NOT APPLICABLE		112	440	140	NOT APPLICABLE						120	54			
					4				<i>D 90L</i>								<i>1.5</i>				461								140	356	262	140	57
					2				D 132S								5.5				603								140	176	91		
					4				D 90S								1.1				435								130	140	63		
80-160					4				<i>D 100L</i>								<i>2.2</i>				540								130	138	76		
					2				D 160M								11.0				773								140	239	147		
					2				C 160M								11.0				742								140	252	152		
	4	D 100L			2.2	479	140	138	80																								
80-200	4	<i>D 112M</i>			<i>4.0</i>	499	140	167	89																								
	2	D 160L			18.5	805	140	239	170																								
	2	C 160L			18.5	773	140	252	169																								
100-125	100	FLANGED TO BS 4504 CLASS 10			4	D 90S	1.1	NOT APPLICABLE		117	439	140	NOT APPLICABLE								140								65				
			4	<i>D 100L</i>	<i>2.2</i>	519	140				138								77														
			2	D 160M	11.0	753	140				239								148														
			2	C 160M	11.0	722	140				252								151														
			4	D 112M	4.0	523	160				167								104														
100-200			4	<i>D 132M</i>	<i>7.5</i>	628	160				176								128														
			2	D 200L	30.0	940	160				299								286														
			2	C 180M	30.0	818	170				270								213														
100-250			4	D 160M	11.0	793	170				239								201														
			4	<i>D 160L</i>	<i>15.0</i>	838	170				239								220														
150-200			150	4	D 132M	7.5	NOT APPLICABLE				155								648	180	NOT APPLICABLE						176	134					
			4	<i>D 160M</i>	<i>11.0</i>	804													239								172						

MOTOR FRAMES

D = TOTALLY ENCLOSED FAN ENCLOSURE
C = DRIP PROOF ENCLOSURE

LINES SHADED ARE 2 POLE 2900 RPM MOTORS
FIGURES IN ITALICS REFER TO 1750 RPM MOTOR SPEEDS

Note:- Improvements in general design and modifications will be embodied for the benefit of clients as and when introduced ; consequently the specification is subject to alteration as may be necessary, without notification. Certified drawings supplied on application.

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