

LF



*Vertical
Multi-Stage Pump*



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LF

Vertical Multi-Stage Pump

INTRODUCING

LF Series are Industrial Pumps of **Vertical Multi-Stage**, usually pumped thin liquid, not containing solid particles of fibres. The liquid must not attack pump attack the material chemically. When it pumping liquid with a density or viscosity higher than that of water, motor with higher output must be used, if

APPLICATION

- Waterworks Filtrate and Transfer
- Pressurized Pipeline
- Pressurized High-Rise and Hotel
- Industry Water Supply
- Flow Water Systems
- Washing Systems
- Fire Fighting Systems
- Feed Water and Condensate Systems
- Agriculture Irrigation
- High-Pressure Filtration Systems
- Booster Systems
- Intenerating, Electro Analysis, Desalt Systems
- Distillation Systems
- Natatorium Washing

ELECTRIC MOTOR

- Full Enclosed Air Blast - Two Poles Standard Motor
- Protection Class : Ip55
- Insulation Class : F
- 50 Hz Standard Voltage; Option 60 Hz
- Request Motor Manufacture



SPECIFICATION

DESCRIPTION		STANDARD	OPTION
Capacity		110 m ³ /h	Up to 250 m ³ /h
Total Head		Up to 330 m	
Product Temperature		Up to 70°C	Up to 120°C
Pump Discharge Pressure		Up to 40 bar	
Pump Size		32 mm - 150 mm	
Material	Pump Casing	AISI 304	AISI 316
	Impeller	AISI 304	AISI 316
	Shaft	AISI 304	AISI 316
	Impeller Separating Sleeve	AISI 304	AISI 316
Shaft Seal		Mechanical Seal	
Coupling		Carbon Steel	
Coupling Guard		AISI 304	
Base Frame		FC250	

APPLICATION



High-Rise Building & Hotel



Industry Water Supply



Agriculture Irrigation



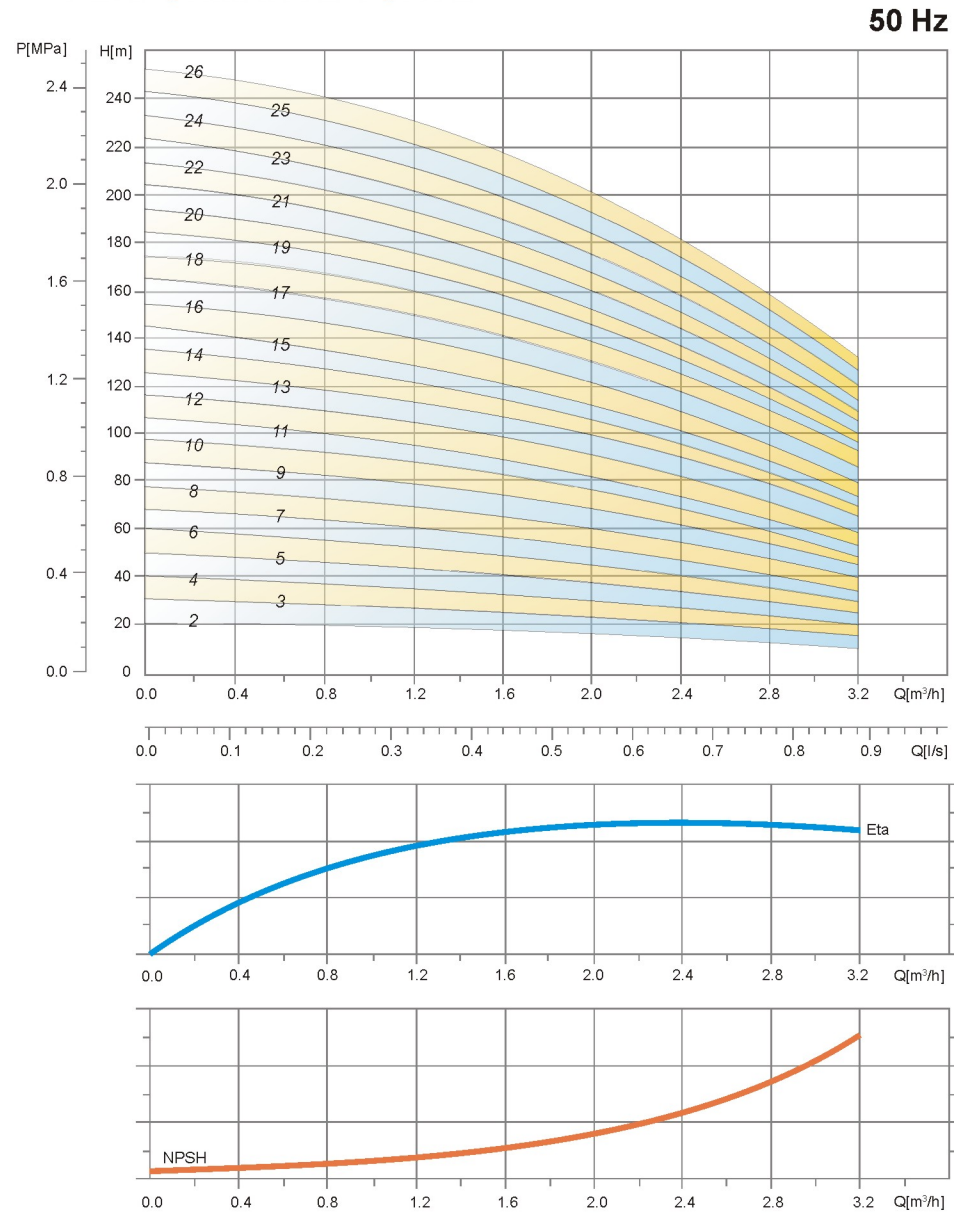
Fire Fighting Systems



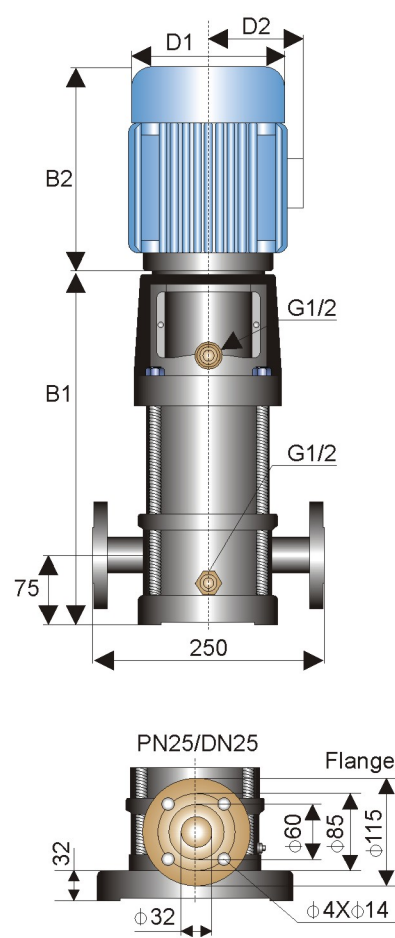
LF 2

TECHNICAL DATA

PERFORMANCE CURVE



INSTALLATION



for reference only

ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 2 - 2	0.37	0.50	0.81
LF 2 - 3	0.37	0.50	0.81
LF 2 - 4	0.55	0.75	0.82
LF 2 - 5	0.55	0.75	0.82
LF 3 - 6	0.75	1.0	0.83
LF 2 - 7	0.75	1.0	0.83
LF 2 - 8	1.1	1.5	0.85
LF 2 - 9	1.1	1.5	0.85
LF 2 - 10	1.1	1.5	0.85
LF 2 - 11	1.1	1.5	0.85
LF 2 - 12	1.5	2.0	0.84
LF 2 - 13	1.5	2.0	0.84
LF 2 - 14	1.5	2.0	0.84
LF 2 - 15	1.5	2.0	0.84
LF 2 - 16	2.2	3.0	0.84
LF 2 - 17	2.2	3.0	0.84
LF 2 - 18	2.2	3.0	0.84
LF 2 - 19	2.2	3.0	0.84
LF 2 - 20	2.2	3.0	0.84
LF 2 - 21	2.2	3.0	0.84
LF 2 - 22	2.2	3.0	0.84
LF 2 - 23	3.0	4.0	0.87
LF 2 - 24	3.0	4.0	0.87
LF 2 - 25	3.0	4.0	0.87
LF 2 - 26	3.0	4.0	0.87

PERFORMANCE TABLE

PUMP TYPE	CAPACITY (m³/h)						
	1.0	1.2	1.6	2.0	2.4	2.8	3.2
LF 2 - 2	18	17	16	15	13	12	10
LF 2 - 3	27	26	24	22	20	18	15
LF 2 - 4	36	35	33	30	26	24	17
LF 2 - 5	45	43	40	37	33	30	24
LF 3 - 6	53	52	50	45	40	36	30
LF 2 - 7	63	61	57	52	47	41	35
LF 2 - 8	71	69	65	59	54	47	40
LF 2 - 9	80	78	73	67	61	54	45
LF 2 - 10	89	86	81	74	67	59	49
LF 2 - 11	98	95	89	82	73	64	54
LF 2 - 12	107	103	97	90	81	71	59
LF 2 - 13	116	114	106	98	89	78	65
LF 2 - 14	125	122	114	105	94	84	69
LF 2 - 15	134	130	123	112	100	90	73
LF 2 - 16	143	139	131	120	107	96	79
LF 2 - 17	152	148	139	128	114	102	85
LF 2 - 18	161	157	148	136	121	108	91
LF 2 - 19	170	165	156	143	127	113	95
LF 2 - 20	179	174	164	150	134	119	100
LF 2 - 21	188	183	172	157	141	124	105
LF 2 - 22	197	192	180	165	148	130	110
LF 2 - 23	205	201	188	173	155	137	105
LF 2 - 24	214	210	197	181	163	144	120
LF 2 - 25	223	219	205	189	170	151	125
LF 2 - 26	232	228	214	198	178	158	130

DIMENSION DATA

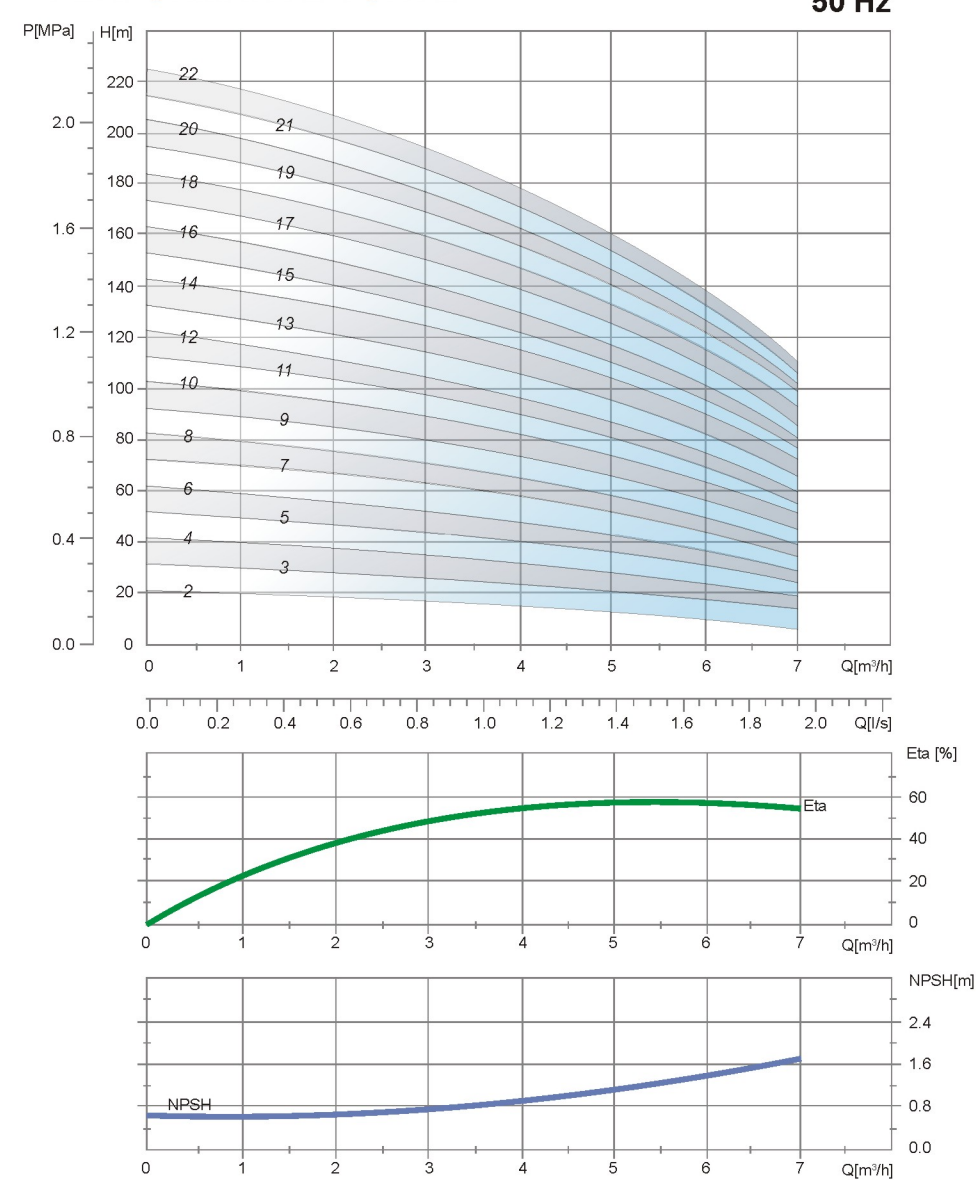
PUMP TYPE	DIMENSION (mm)					WEIGHT (kg)
	B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	
LF 2 - 2	245	220	465	140	110	20
LF 2 - 3	263	220	483	140	110	21
LF 2 - 4	281	220	501	140	110	23
LF 2 - 5	299	220	519	140	110	24
LF 3 - 6	322	250	572	160	125	25
LF 2 - 7	340	250	590	160	125	27
LF 2 - 8	358	250	608	160	125	28
LF 2 - 9	376	250	626	160	125	29
LF 2 - 10	394	250	644	160	125	30
LF 2 - 11	412	250	662	160	125	31
LF 2 - 12	447	290	737	180	125	32
LF 2 - 13	465	290	755	180	125	33
LF 2 - 14	483	290	773	180	125	34
LF 2 - 15	501	290	791	180	125	35
LF 2 - 16	519	290	809	180	125	49
LF 2 - 17	537	290	827	180	125	50
LF 2 - 18	555	290	845	180	125	51
LF 2 - 19	573	290	863	180	125	52
LF 2 - 20	591	290	881	180	125	53
LF 2 - 21	609	290	899	180	125	54
LF 2 - 22	627	290	917	180	125	55
LF 2 - 23	653	330	983	190	140	57
LF 2 - 24	671	330	1001	190	140	58
LF 2 - 25	689	330	1019	190	140	59
LF 2 - 26	707	330	1037	190	140	60

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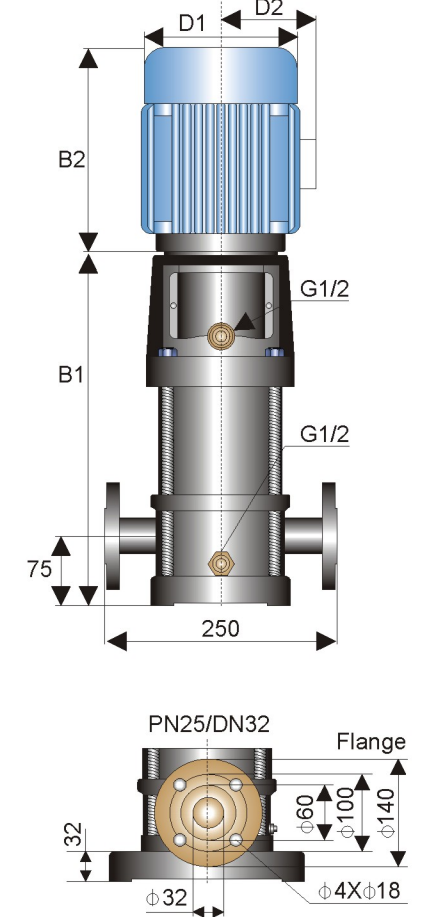
LF 4

TECHNICAL DATA

PERFORMANCE CURVE



INSTALLATION



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ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 4 - 2	0.37	0.50	0.81
LF 4 - 3	0.55	0.75	0.82
LF 4 - 4	0.75	1.0	0.83
LF 4 - 5	1.1	1.5	0.85
LF 4 - 6	1.1	1.5	0.85
LF 4 - 7	1.5	2.0	0.84
LF 4 - 8	1.5	2.0	0.84
LF 4 - 9	2.2	3.0	0.84
LF 4 - 10	2.2	3.0	0.84
LF 4 - 11	2.2	3.0	0.84
LF 4 - 12	2.2	3.0	0.84
LF 4 - 13	3.0	4.0	0.87
LF 4 - 14	3.0	4.0	0.87
LF 4 - 15	3.0	4.0	0.87
LF 4 - 16	3.0	4.0	0.87
LF 4 - 17	4.0	5.5	0.88
LF 4 - 18	4.0	5.5	0.88
LF 4 - 19	4.0	5.5	0.88
LF 4 - 20	4.0	5.5	0.88
LF 4 - 21	4.0	5.5	0.88
LF 4 - 22	4.0	5.5	0.88

PERFORMANCE TABLE

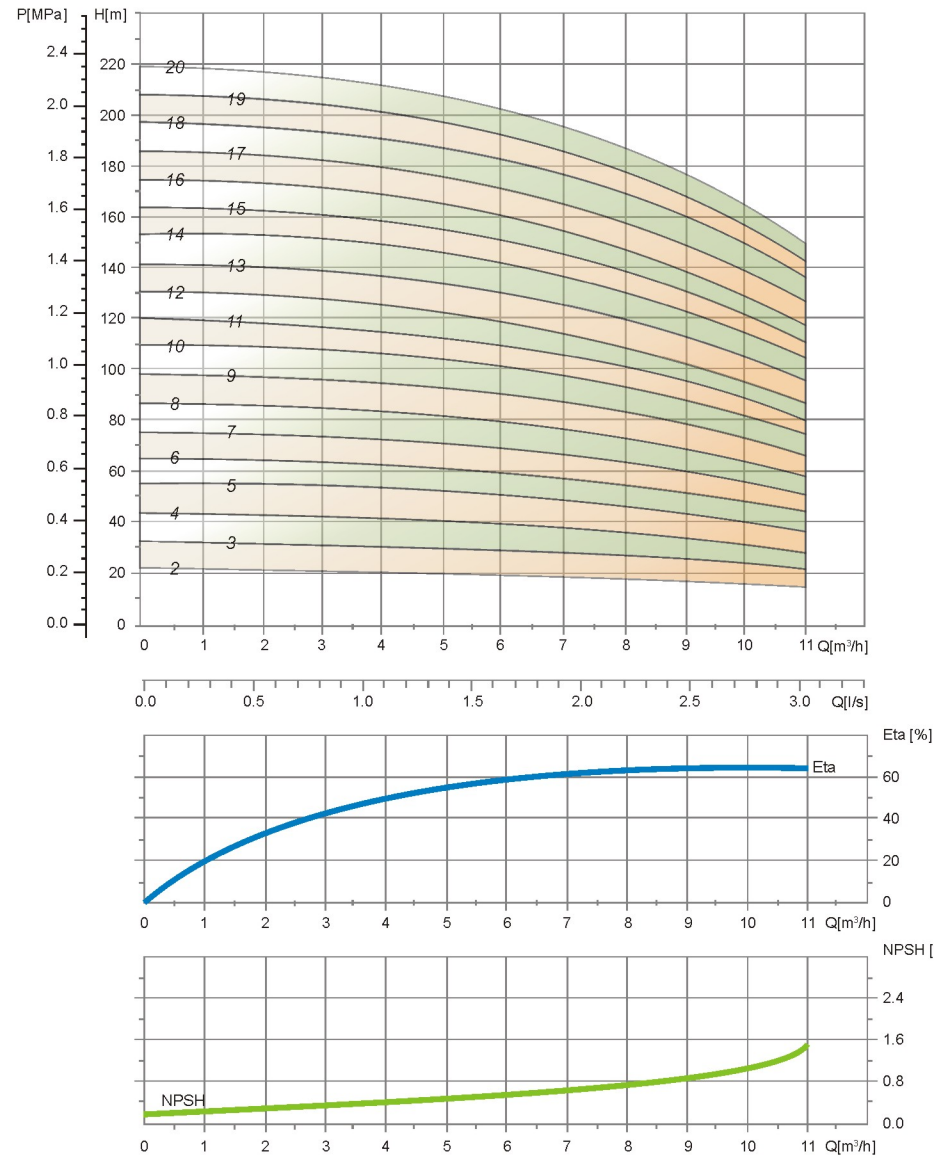
PUMP TYPE	CAPACITY (m³/h)					
	2.0	3.0	4.0	5.0	6.0	7.0
LF 4 - 2	18	17	15	13	10	8
LF 4 - 3	27	26	24	20	18	14
LF 4 - 4	36	34	32	27	24	18
LF 4 - 5	45	43	40	34	31	23
LF 4 - 6	54	52	48	41	37	28
LF 4 - 7	63	61	56	48	43	34
LF 4 - 8	72	70	64	55	50	38
LF 4 - 9	81	78	72	63	56	44
LF 4 - 10	90	87	81	71	62	50
LF 4 - 11	99	95	88	78	68	53
LF 4 - 12	108	104	95	85	75	57
LF 4 - 13	117	113	103	93	82	63
LF 4 - 14	126	122	112	101	89	69
LF 4 - 15	135	131	120	108	95	73
LF 4 - 16	144	140	129	115	101	78
LF 4 - 17	153	149	137	122	108	83
LF 4 - 18	162	158	145	129	115	89
LF 4 - 19	171	168	153	137	122	95
LF 4 - 20	180	176	161	144	127	99
LF 4 - 21	210	184	169	152	132	103
LF 4 - 22	200	192	178	160	138	108

DIMENSION DATA

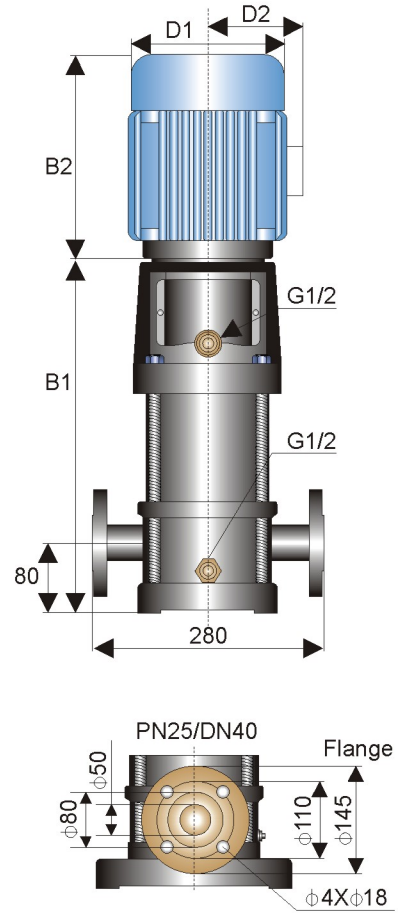
PUMP TYPE	DIMENSION (mm)					WEIGHT (kg)
	B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	
LF 4 - 2	263	220	483	140	110	20
LF 4 - 3	290	220	510	140	110	21
LF 4 - 4	322	250	572	160	125	23
LF 4 - 5	349	250	599	160	125	24
LF 4 - 6	376	250	626	160	125	25
LF 4 - 7	420	290	710	180	125	29
LF 4 - 8	447	290	737	180	125	30
LF 4 - 9	474	290	764	180	125	32
LF 4 - 10	501	290	791	180	125	33
LF 4 - 11	528	290	818	180	125	34
LF 4 - 12	555	290	845	180	125	35
LF 4 - 13	590	330	920	190	140	47
LF 4 - 14	617	330	947	190	140	48
LF 4 - 15	644	330	974	190	140	49
LF 4 - 16	671	330	1001	220	150	50
LF 4 - 17	698	330	1028	220	150	60
LF 4 - 18	725	330	1055	220	150	61
LF 4 - 19	752	330	1082	220	150	62
LF 4 - 20	779	330	1109	220	150	63
LF 4 - 21	806	330	1136	220	150	64
LF 4 - 22	833	330	1163	220	150	65

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PERFORMANCE CURVE

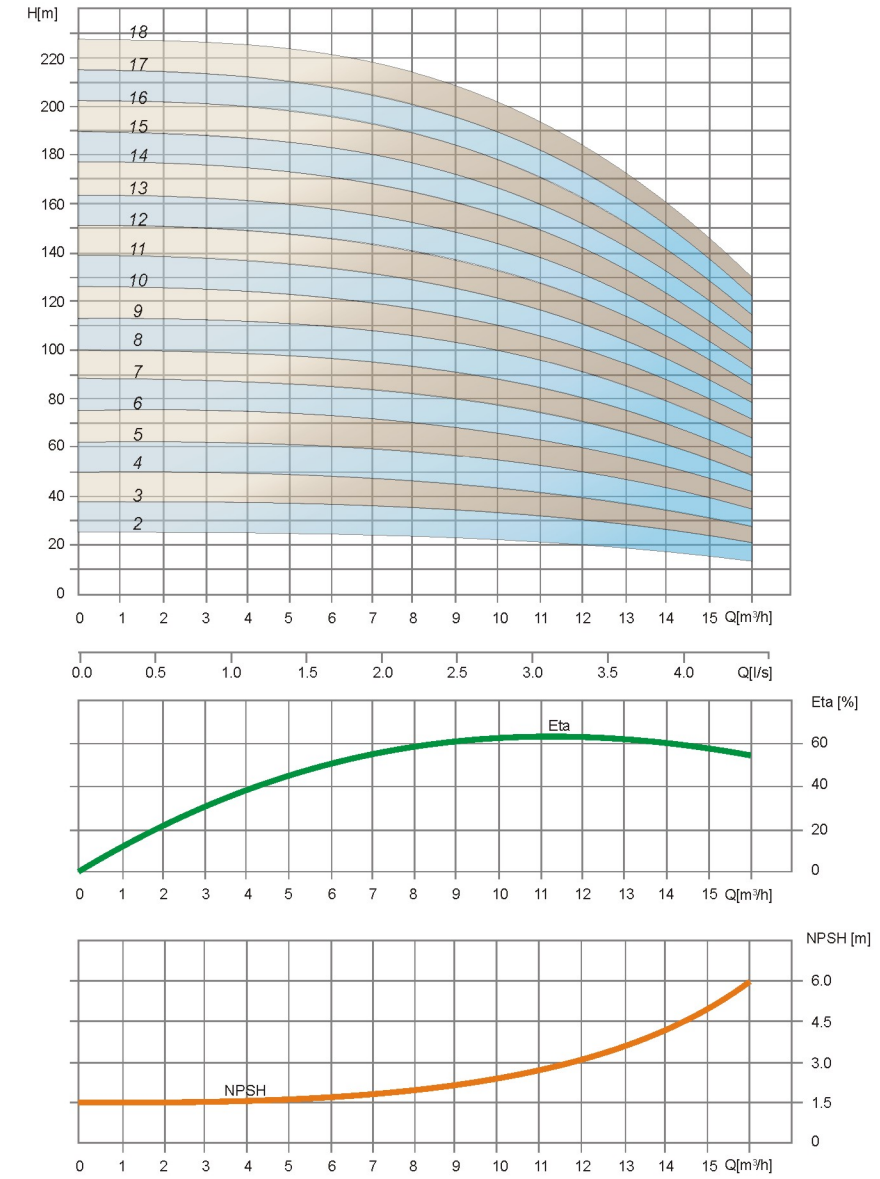


INSTALLATION

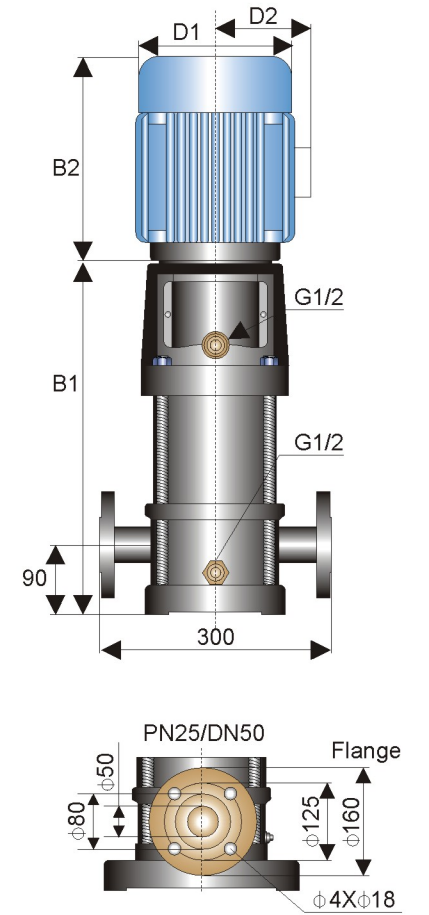


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PERFORMANCE CURVE



INSTALLATION



for reference only

ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 8 - 2	0.75	1.0	0.83
LF 8 - 3	1.1	1.5	0.85
LF 8 - 4	1.5	2.0	0.84
LF 8 - 5	2.2	3.0	0.84
LF 8 - 6	2.2	3.0	0.84
LF 8 - 7	3.0	4.0	0.87
LF 8 - 8	3.0	4.0	0.87
LF 8 - 9	4.0	5.5	0.88
LF 8 - 10	4.0	5.5	0.88
LF 8 - 11	4.0	5.5	0.88
LF 8 - 12	4.0	5.5	0.88
LF 8 - 13	5.5	7.5	0.88
LF 8 - 14	5.5	7.5	0.88
LF 8 - 15	5.5	7.5	0.88
LF 8 - 16	5.5	7.5	0.88
LF 8 - 17	7.5	10	0.88
LF 8 - 18	7.5	10	0.88
LF 8 - 19	7.5	10	0.88
LF 8 - 20	7.5	10	0.88

PERFORMANCE TABLE

PUMP TYPE	CAPACITY (m³/h)					
	6	7	8	9	10	11
LF 8 - 2	20	19	18	17	16	14
LF 8 - 3	30	29	28	26	24	21
LF 8 - 4	40	39	37	35	32	28
LF 8 - 5	50	48	46	44	41	36
LF 8 - 6	60	58	55	53	49	43
LF 8 - 7	70	68	64	61	57	50
LF 8 - 8	80	78	74	70	65	58
LF 8 - 9	90	87	83	79	72	66
LF 8 - 10	100	97	92	88	80	74
LF 8 - 11	110	106	101	96	88	80
LF 8 - 12	120	116	110	105	97	86
LF 8 - 13	130	126	119	114	105	95
LF 8 - 14	140	136	129	123	113	105
LF 8 - 15	150	145	138	131	121	111
LF 8 - 16	160	155	147	140	130	117
LF 8 - 17	170	165	156	149	138	126
LF 8 - 18	180	175	166	158	146	136
LF 8 - 19	190	184	175	166	154	142
LF 8 - 20	200	194	185	175	162	149

DIMENSION DATA

PUMP TYPE	DIMENSION (mm)						WEIGHT (kg)
	B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	D ₃	
LF 8 - 2	355	250	605	160	125	-	35
LF 8 - 3	385	250	635	160	125	-	35
LF 8 - 4	427	290	717	180	125	-	45
LF 8 - 5	457	290	747	180	125	-	50
LF 8 - 6	487	290	777	180	125	-	50
LF 8 - 7	523	330	853	190	140	-	55
LF 8 - 8	553	330	883	190	140	-	55
LF 8 - 9	583	330	913	220	150	-	55
LF 8 - 10	613	330	943	220	150	-	55
LF 8 - 11	643	330	973	220	150	-	60
LF 8 - 12	673	330	1003	220	150	-	85
LF 8 - 13	720	420	1140	260	210	300	85
LF 8 - 14	750	420	1170	260	210	300	85
LF 8 - 15	780	420	1200	260	210	300	85
LF 8 - 16	810	420	1230	260	210	300	85
LF 8 - 17	840	420	1260	260	210	300	90
LF 8 - 18	870	420	1290	260	210	300	90
LF 8 - 19	900	420	1320	260	210	300	90
LF 8 - 20	930	420	1350	260	210	300	90

ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 12 - 2	1.5	2.0	0.84
LF 12 - 3	2.2	3.0	0.84
LF 12 - 4	3.0	4.0	0.87
LF 12 - 5	3.0	4.0	0.87
LF 12 - 6	4.0	5.5	0.88
LF 12 - 7	5.5	7.5	0.88
LF 12 - 8	5.5	7.5	0.88
LF 12 - 9	5.5	7.5	0.88
LF 12 - 10	7.5	10	0.88
LF 12 - 12	7.5	10	0.88
LF 12 - 14	11	15	0.89
LF 12 - 16	11	15	0.89
LF 12 - 18	11	15	0.89

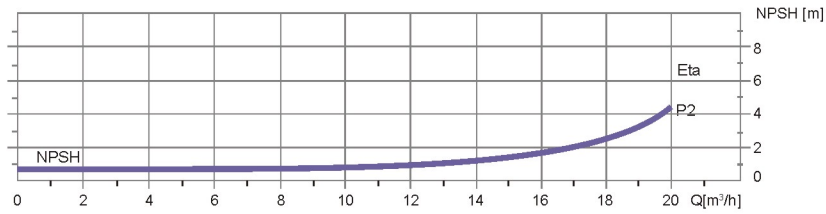
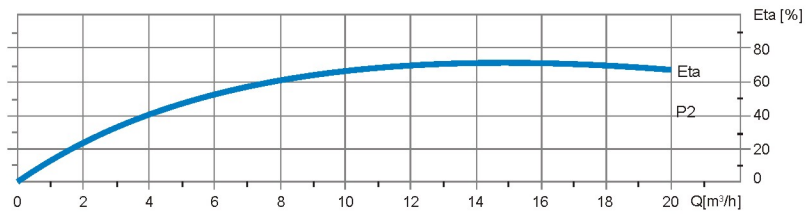
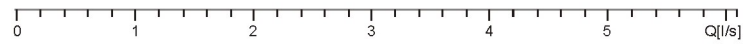
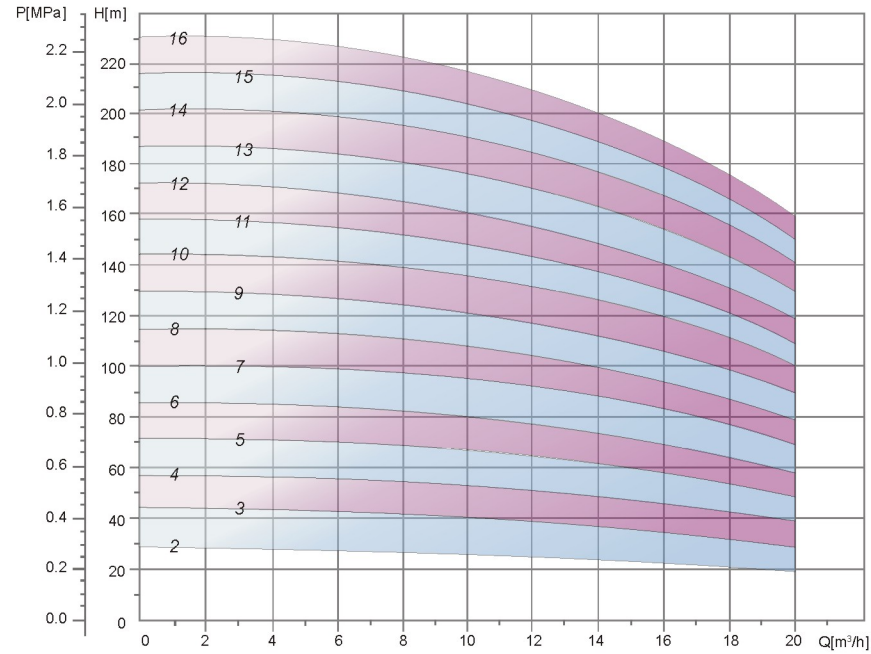
PERFORMANCE TABLE

PUMP TYPE	CAPACITY (m³/h)					
	7	8	10	12	14	16
LF 12 - 2	23.5	23	22	20	17	14
LF 12 - 3	35.5	35	33	30	26	21
LF 12 - 4	47	46	44	40	34	28
LF 12 - 5	59.5	58	55	50	43	35
LF 12 - 6	71.5	70	66	60	52	42
LF 12 - 7	83.5	82	77	70	61	49
LF 12 - 8	95.5	94	88	80	70	56
LF 12 - 9	108	106	100	91	79	64
LF 12 - 10	120	118	111	101	88	72
LF 12 - 12	143.5	141	133	121	106	86
LF 12 - 14	168	165	155	141	124	100
LF 12 - 16	192.5	189	178	162	142	115
LF 12 - 18	217	213	202	183	160	130

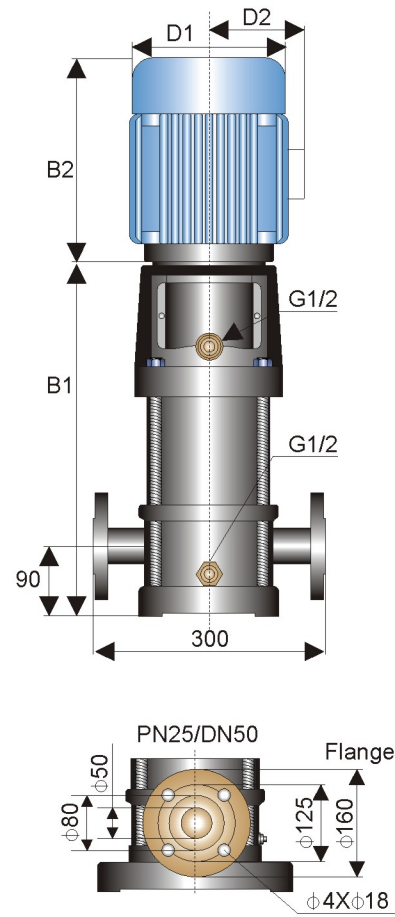
DIMENSION DATA

PUMP TYPE	DIMENSION (mm)						WEIGHT (kg)
	B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	D ₃	
LF 12 - 2	367	290	657	190	155	-	39
LF 12 - 3	397	290	687	190	155	-	43
LF 12 - 4	437	315	752	197	165	-	51
LF 12 - 5	467	315	782	197	165	-	53
LF 12 - 6	497	335	832	230	188	-	61
LF 12 - 7	547	430	977	260	208	-	73
LF 12 - 8	577	430	1007	260	208	-	74
LF 12 - 9	607	430	1037	260	208	-	76
LF 12 - 10	637	430	1067	260	208	-	83
LF 12 - 12	697	430	1127	260	208	-	87
LF 12 - 14	845	490	1335	330	255	-	157
LF 12 - 16	905	490	1395	330	255	-	161
LF 12 - 18	965	490	1455	330	255	-	164

PERFORMANCE CURVE

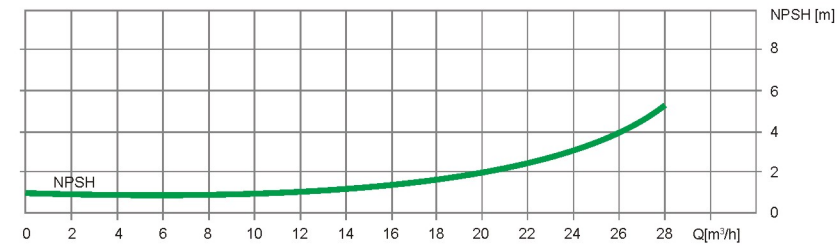
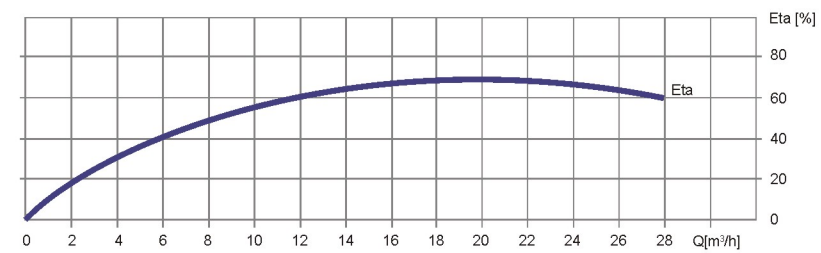
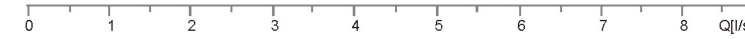
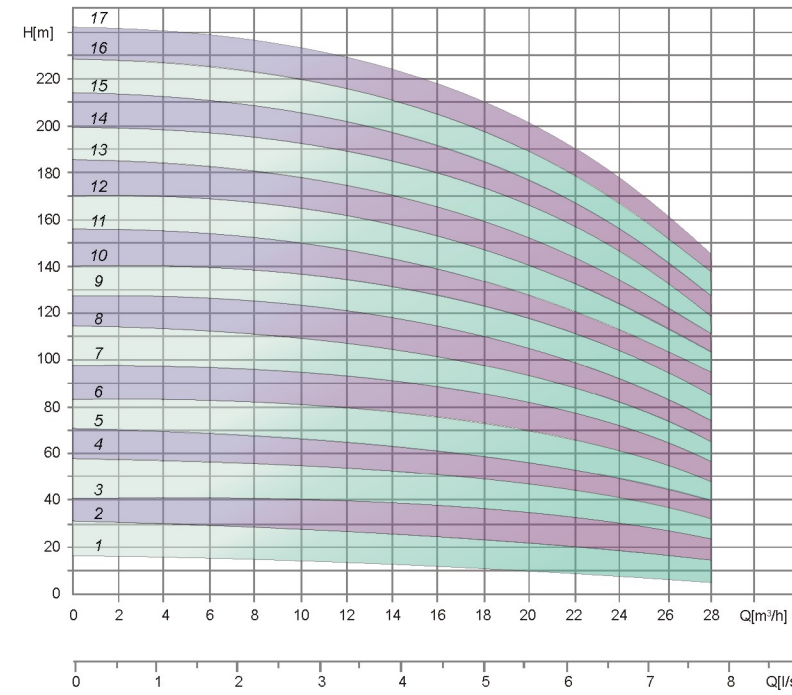


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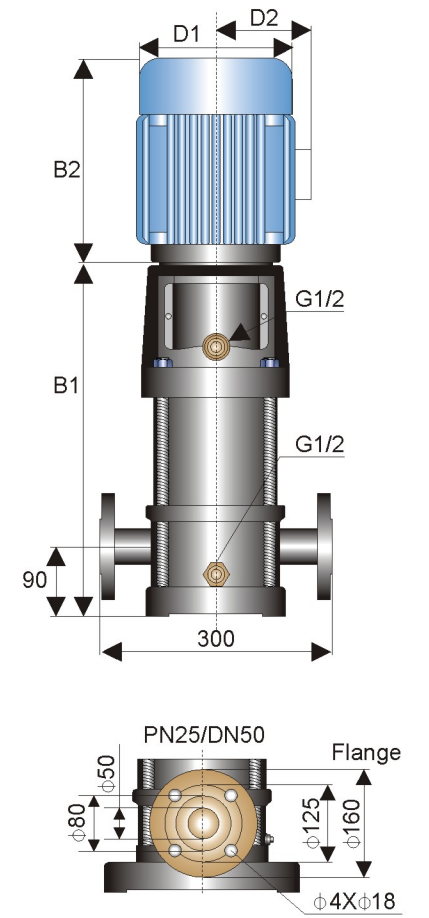


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PERFORMANCE CURVE



INSTALLATION



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ELECTRICAL DATA

PERFORMANCE TABLE

DIMENSION DATA

PUMP TYPE	MOTOR		Cos φ Power Factor	PUMP TYPE	CAPACITY (m³/h)							PUMP TYPE	DIMENSION (mm)						WEIGHT (kg)
	kW	hp			8	10	12	14	16	18	20		B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	D ₃	
LF 16 - 2	2.2	3.0	0.84	LF 16 - 2	28	27	26	25	23	21	18	LF 16 - 2	407	290	697	180	125	-	50
LF 16 - 3	3.0	4.0	0.87	LF 16 - 3	42	41	39	37	35	32	27	LF 16 - 3	458	330	788	190	140	-	55
LF 16 - 4	4.0	5.5	0.88	LF 16 - 4	56	54	52	50	47	44	37	LF 16 - 4	503	330	833	220	150	-	60
LF 16 - 5	5.5	7.5	0.88	LF 16 - 5	69	68	65	62	59	54	47	LF 16 - 5	565	420	985	260	210	300	80
LF 16 - 6	5.5	7.5	0.88	LF 16 - 6	83	81	78	75	70	64	56	LF 16 - 6	610	420	1030	260	210	300	85
LF 16 - 7	7.5	10	0.88	LF 16 - 7	97	95	92	87	82	75	68	LF 16 - 7	655	420	1075	260	210	300	90
LF 16 - 8	7.5	10	0.88	LF 16 - 8	111	108	105	100	94	86	77	LF 16 - 8	700	420	1120	260	210	300	90
LF 16 - 9	11	15	0.89	LF 16 - 9	120	122	118	112	106	97	88	LF 16 - 9	775	500	1275	330	260	350	125
LF 16 - 10	11	15	0.89	LF 16 - 10	139	136	131	125	118	108	99	LF 16 - 10	820	500	1320	330	260	350	125
LF 16 - 11	11	15	0.89	LF 16 - 11	153	149	144	137	129	118	108	LF 16 - 11	865	500	1365	330	260	350	130
LF 16 - 12	11	15	0.89	LF 16 - 12	167	163	157	150	141	129	117	LF 16 - 12	910	500	1410	330	260	350	130
LF 16 - 13	15	20	0.90	LF 16 - 13	180	176	170	162	153	140	128	LF 16 - 13	955	500	1455	330	260	350	175
LF 16 - 14	15	20	0.90	LF 16 - 14	194	190	184	175	165	151	139	LF 16 - 14	1000	500	1500	330	260	350	175
LF 16 - 15	15	20	0.90	LF 16 - 15	208	203	197	187	177	162	148	LF 16 - 15	1045	500	1545	330	260	350	180
LF 16 - 16	15	20	0.90	LF 16 - 16	222	217	210	200	189	173	158	LF 16 - 16	1090	500	1590	330	260	350	180

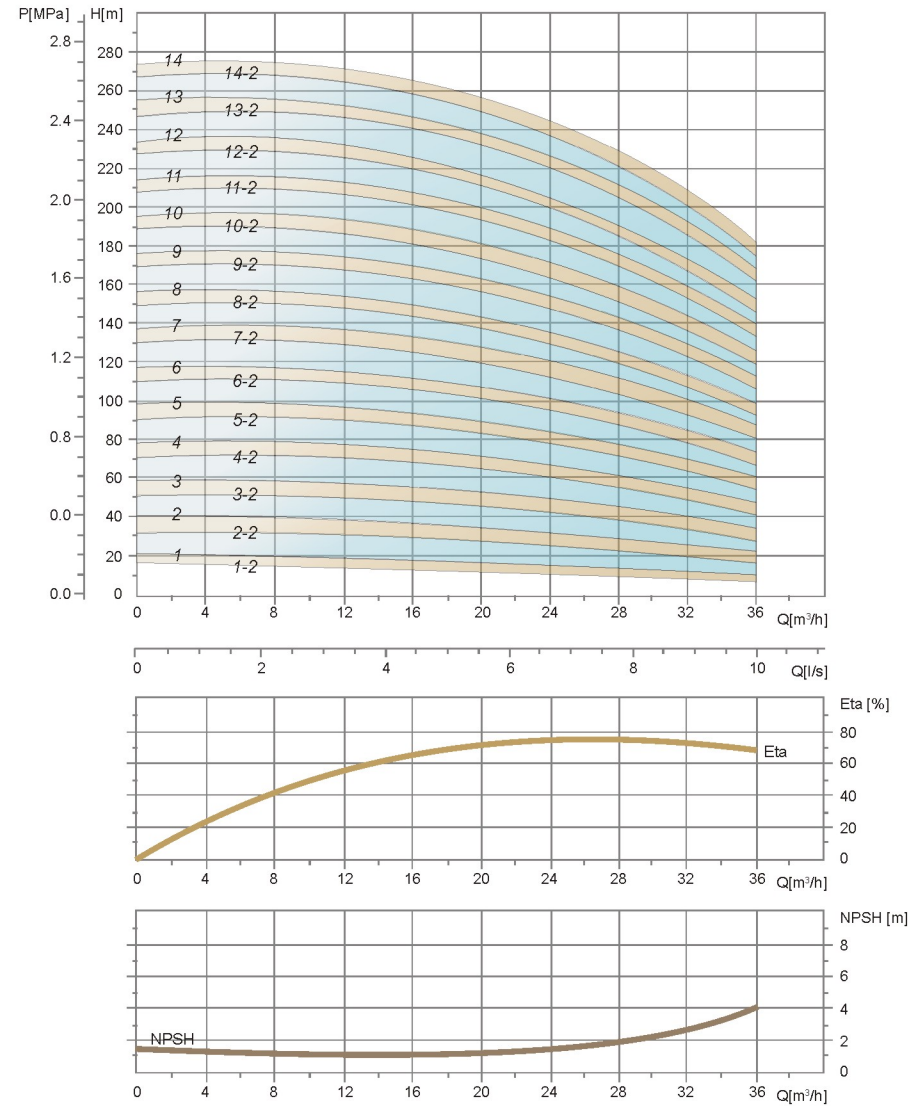
ELECTRICAL DATA

PERFORMANCE TABLE

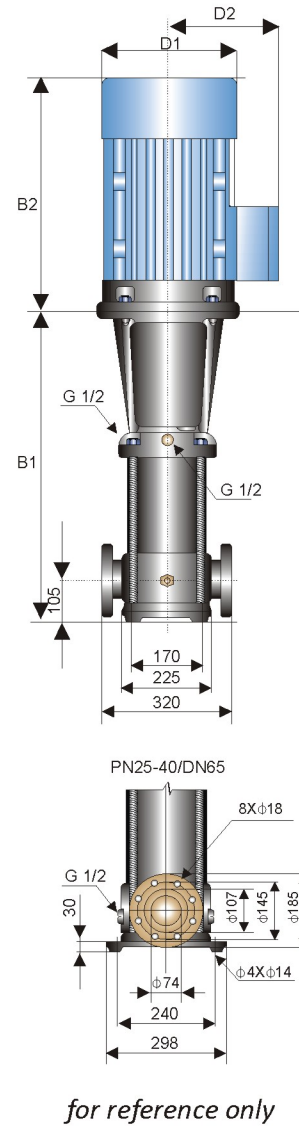
DIMENSION DATA

PUMP TYPE	MOTOR		Cos φ Power Factor	PUMP TYPE	CAPACITY (m³/h)						PUMP TYPE	DIMENSION (mm)					WEIGHT (kg)
	kW	hp			10	14	18	20	24	28		B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	
LF 20 - 1	1.1	1.5	0.85	LF 20 - 1	13.5	12.5	11	10	8	6	LF 20 - 1	387	245	632	170	142	33
LF 20 - 2	2.2	3.0	0.84	LF 20 - 2	27	26	24	23	20	15	LF 20 - 2	397	290	687	190	155	42
LF 20 - 3	4.0	5.5	0.88	LF 20 - 3	40	39	37	35	30	24	LF 20 - 3	452	335	787	230	188	58
LF 20 - 4	5.5	7.5	0.88	LF 20 - 4	54	52	49	47	41	33	LF 20 - 4	517	430	947	260	208	74
LF 20 - 5	5.5	7.5	0.88	LF 20 - 5	67	64	60	58	50	40	LF 20 - 5	562	430	992	260	208	76
LF 20 - 6	7.5	10	0.88	LF 20 - 6	81	77	73	70	61	49	LF 20 - 6	607	430	1037	260	208	82
LF 20 - 7	7.5	10	0.88	LF 20 - 7	95	91	86	82	71	58	LF 20 - 7	652	430	1082	260	208	84
LF 20 - 8	11	15	0.89	LF 20 - 8	109	105	99	94	82	67	LF 20 - 8	785	490	1275	330	255	153
LF 20 - 10	11	15	0.89	LF 20 - 10	136	131	124	118	103	85	LF 20 - 10	875	490	1365	330	255	157
LF 20 - 12	15	20	0.90	LF 20 - 12	164	158	149	142	124	102	LF 20 - 12	965	490	1455	330	255	170
LF 20 - 14	15	20	0.90	LF 20 - 14	192	185	174	166	145	119	LF 20 - 14	1055	490	1545	330	255	172
LF 20 - 17	18.5	25	0.90	LF 20 - 17	234	225	212	202	177	145	LF 20 - 17	1190	550	1740	330	255	195

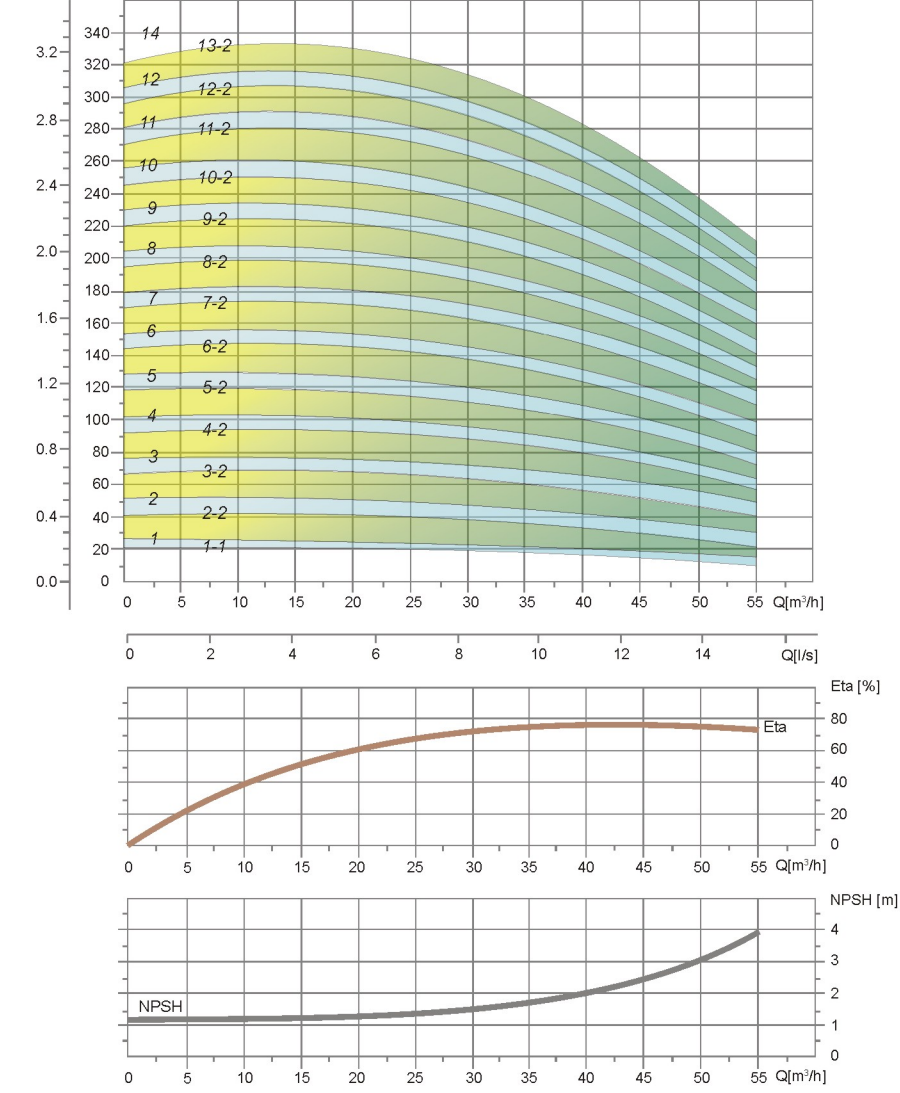
PERFORMANCE CURVE



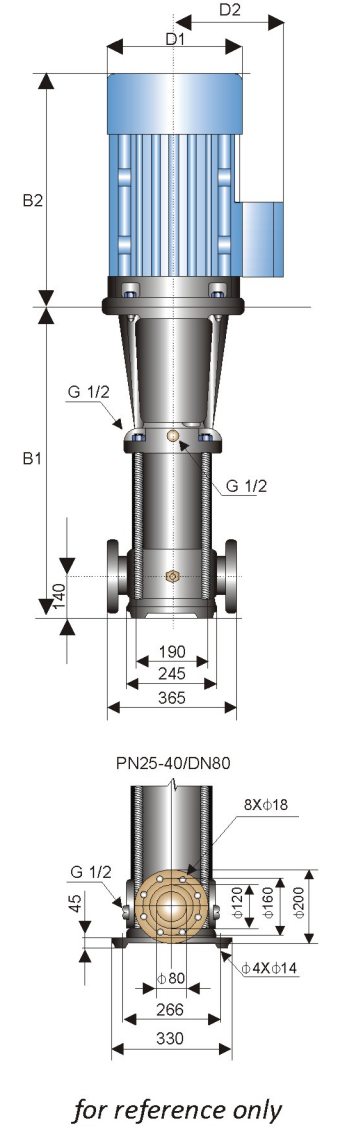
INSTALLATION



PERFORMANCE CURVE



INSTALLATION



ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 32 - 1 - 1	1,5	2,0	0,84
LF 32 - 1	2,2	3,0	0,84
LF 32 - 2 - 2	3,0	4,0	0,87
LF 32 - 2	4,0	5,5	0,88
LF 32 - 3 - 2	5,5	7,5	0,88
LF 32 - 3	5,5	7,5	0,88
LF 32 - 4 - 2	7,5	10	0,88
LF 32 - 4	7,5	10	0,88
LF 32 - 5 - 2	11	15	0,89
LF 32 - 5	11	15	0,89
LF 32 - 6 - 2	11	15	0,89
LF 32 - 6	11	15	0,89
LF 32 - 7 - 2	15	20	0,90
LF 32 - 7	15	20	0,90
LF 32 - 8 - 2	15	20	0,90
LF 32 - 8	15	20	0,90
LF 32 - 9 - 2	18,5	25	0,90
LF 32 - 9	18,5	25	0,90
LF 32 - 10 - 2	18,5	25	0,90
LF 32 - 10	18,5	25	0,90
LF 32 - 11 - 2	22	30	0,90
LF 32 - 11	22	30	0,90
LF 32 - 12 - 2	22	30	0,90
LF 32 - 12	22	30	0,90
LF 32 - 13 - 2	30	40	0,90
LF 32 - 13	30	40	0,90
LF 32 - 14 - 2	30	40	0,90
LF 32 - 14	30	40	0,90

PERFORMANCE TABLE

PUMP TYPE	CAPACITY (m³/h)						
	15	16	20	24	28	32	36
LF 32 - 1 - 1	16	15	13	12	11	10	7
LF 32 - 1	18	17	16	15	14	13	10
LF 32 - 2 - 2	32	31	30	27	25	22	14
LF 32 - 2	37	36	35	32	31	28	22
LF 32 - 3 - 2	50	49	47	44	40	36	27
LF 32 - 3	56	55	53	50	47	42	33
LF 32 - 4 - 2	68	67	65	62	56	50	37
LF 32 - 4	75	74	71	67	62	56	45
LF 32 - 5 - 2	88	87	85	80	73	66	51
LF 32 - 5	94	93	90	86	79	72	57
LF 32 - 6 - 2	107	106	102	96	89	79	62
LF 32 - 6	114	112	107	102	95	86	68
LF 32 - 7 - 2	127	125	121	114	106	94	75
LF 32 - 7	133	131	126	119	112	102	82
LF 32 - 8 - 2	145	143	137	131	121	109	85
LF 32 - 8	151	149	144	136	128	115	92
LF 32 - 9 - 2	165	163	157	149	138	125	98
LF 32 - 9	172	170	163	155	146	132	106
LF 32 - 10 - 2	184	182	175	165	154	138	110
LF 32 - 10	190	188	181	172	159	145	117
LF 32 - 11 - 2	204	202	194	184	171	154	123
LF 32 - 11	210	208	200	190	177	161	130
LF 32 - 12 - 2	222	220	212	201	187	168	135
LF 32 - 12	226	224	217	207	193	176	142
LF 32 - 13 - 2	244	242	233	222	207	187	151
LF 32 - 13	250	248	238	227	213	193	158
LF 32 - 14 - 2	264	260	252	237	222	202	163
LF 32 - 14	268	265	256	244	228	208	170

DIMENSION DATA

PUMP TYPE	DIMENSION (mm)						WEIGHT (kg)
	B ₁	B ₂	B ₁ + B ₂	D ₁	D ₂	D ₃	
LF 32 - 1 - 1	505	290	795	180	125	140	80
LF 32 - 1	505	290	795	180	125	140	85
LF 32 - 2 - 2	575	330	905	190	140	160	95
LF 32 - 2	575	330	905	220	150	160	105
LF 32 - 3 - 2	645	420	1065	260	210	300	115
LF 32 - 3	645	420	1065	260	210	300	115
LF 32 - 4 - 2	715	420	1135	260	210	300	125
LF 32 - 4	715	420	1135	260	210	300	125
LF 32 - 5 - 2	895	500	1395	330	260	350	165
LF 32 - 5	895	500	1395	330	260	350	165
LF 32 - 6 - 2	965	500	1465	330	260	350	170
LF 32 - 6	965	500	1465	330	260	350	170
LF 32 - 7 - 2	1035	500	1535	330	260	350	205
LF 32 - 7	1035	500	1535	330	260	350	205
LF 32 - 8 - 2	1105	500	1605	330	260	350	210
LF 32 - 8	1105	500	1605	330	260	350	210
LF 32 - 9 - 2	1175	550	1725	380	310	350	220
LF 32 - 9	1175	550	1725	380	310	350	220
LF 32 - 10 - 2	1245	550	1795	380	310	350	225
LF 32 - 10	1245	550	1795	380	310	350	225
LF 32 - 11 - 2	1315	600	1915	380	310	350	285
LF 32 - 11	1315	600	1915	380	310	350	285
LF 32 - 12 - 2	1385	600	1985	380	310	350	285
LF 32 - 12	1385	600	1985	380	310	350	285
LF 32 - 13 - 2	1455	660	2115	420	350	400	370
LF 32 - 13	1455	660	2115	420	350	400	370
LF 32 - 14 - 2	1525	660	2185	420	350	400	375
LF 32 - 14	1525	660	2185	420	350	400	375

ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 45 - 1 - 1	3,0	4,0	0,87
LF 45 - 1	4,0	5,5	0,88
LF 45 - 2 - 2	5,5	7,5	0,88
LF 45 - 2	7,5	10	0,88
LF 45 - 3 - 2	11	15	0,89
LF 45 - 3	11	15	0,89
LF 45 - 4 - 2	15	20	0,90
LF 45 - 4	15	20	0,90
LF 45 - 5 - 2	18,5	25	0,90
LF 45 - 5	18,5	25	0,90
LF 45 - 6 - 2	22	30	0,90
LF 45 - 6	22	30	0,90
LF 45 - 7 - 2	30	40	0,90
LF 45 - 7	30	40	0,90
LF 45 - 8 - 2	30	40	0,90
LF 45 - 8	30	40	0,90
LF 45 - 9 - 2	30	40	0,90
LF 45 - 9	37	50	0,90
LF 45 - 10 - 2	37	50	0,90
LF 45 - 10	37	50	0,90
LF 45 - 11 - 2	45	60	0,90
LF 45 - 11	45	60	0,90
LF 45 - 12 - 2	45	60	0,90
LF 45 - 12	45	60	0,90
LF 45 - 13 - 2	45	60	0,90

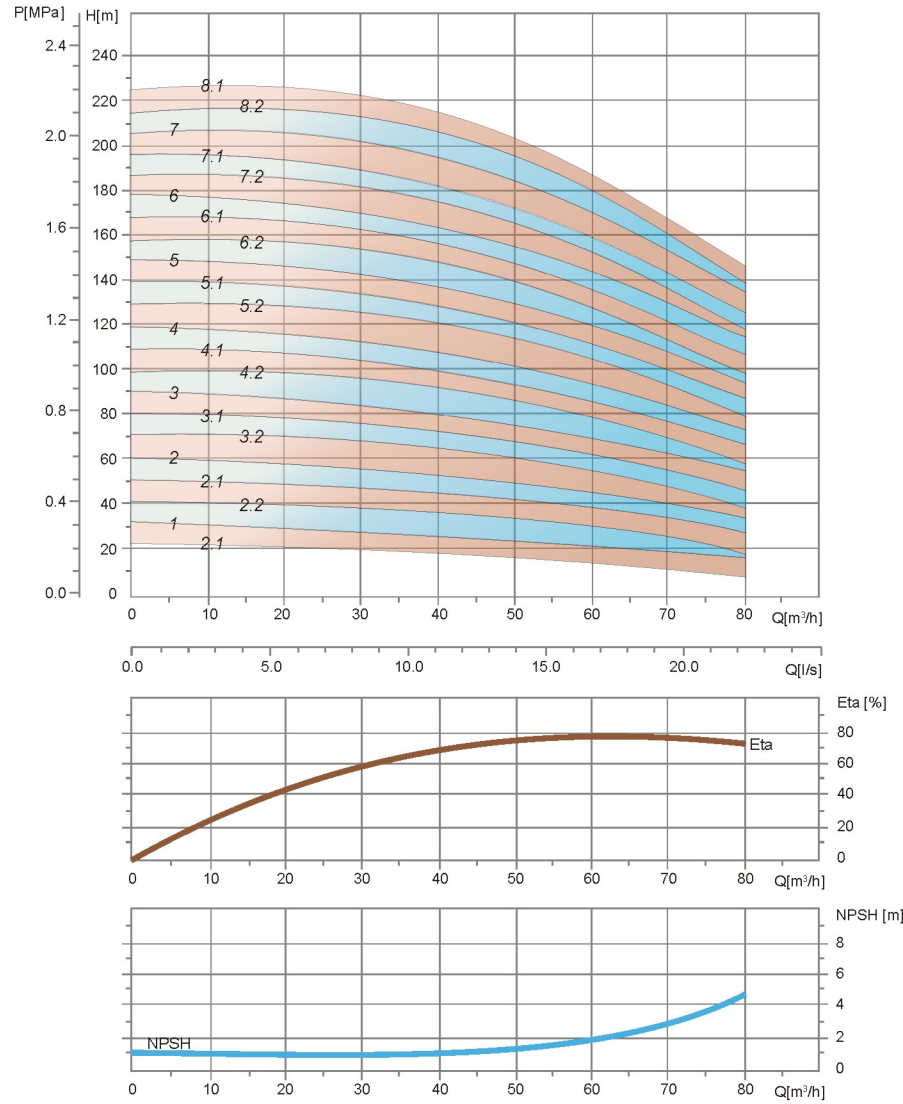
PERFORMANCE TABLE

PUMP TYPE	CAPACITY (m³/h)							
	22	25	30	35	40	45	50	55
LF 45 - 1 - 1	21	20	19	18	17	16	13	11
LF 45 - 1	25	24	23	22	21	19	17	15
LF 45 - 2 - 2	42	40	38	37	34	31	27	23
LF 45 - 2	50	48	47	45	42	38	36	32
LF 45 - 3 - 2	68	66	65	60	56	52	47	39
LF 45 - 3	74	72	72	68	65	59	54	48
LF 45 - 4 - 2	93	91	89	84	78	72	65	56
LF 45 - 4	100	98	96	92	87	80	73	65
LF 45 - 5 - 2	118	116	112	108	102	93	84	74
LF 45 - 5	126	124	120	115	109	101	92	80
LF 45 - 6 - 2	144	142	137	132	123	114	103	89
LF 45 - 6	152	150	145	138	131	122	111	97
LF 45 - 7 - 2	171	168	164	156	147	136	124	109
LF 45 - 7	178	175	171	164	155	144	132	116
LF 45 - 8 - 2	195	192	187	178	169	156	142	125
LF 45 - 8	203	200	194	187	176	164	150	133
LF 45 - 9 - 2	220	217	211	202	190	176	158	140
LF 45 - 9	229	226	219	211	198	187	170	150
LF 45 - 10 - 2	246	243	235	226	212	196	178	158
LF 45 - 10	254	251	244	233	220	205	188	165
LF 45 - 11 - 2	276	273	265	253	238	221	201	178
LF 45 - 11	284	281	272	261	246	229	210	187
LF 45 - 12 - 2	302	298	289	276	260	242	220	195
LF 45 - 12	310	306	296	285	269	250	229	229
LF 45 - 13 - 2	327	323	313	300	283	262	239	212

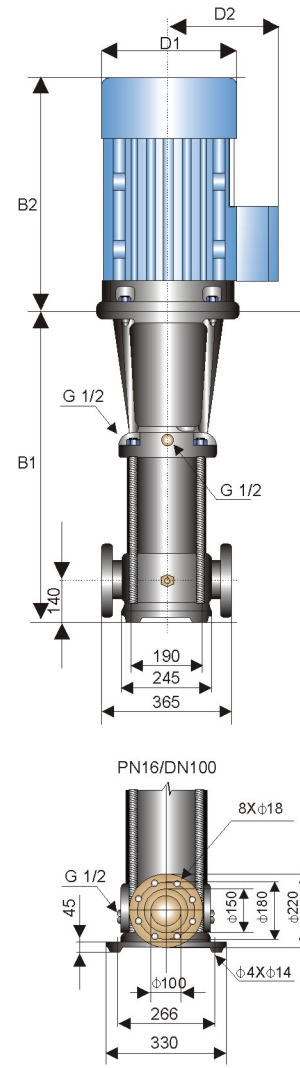
DIMENSION DATA

PUMP TYPE	DIMENSION (mm)						WEIGHT (kg)
	B ₁	B ₂	B ₁ + B ₂	D ₁	D ₂	D ₃	
LF 45 - 1 - 1	558	330	888	190	140	160	100
LF 45 - 1	558	330	888	220	150	160	110
LF 45 - 2 - 2	638	420	1058	260	210	300	120
LF 45 - 2	638	420	1058	260	210	300	125
LF 45 - 3 - 2	828	500	1328	330	260	350	165
LF 45 - 3	828	500	1328	330	260	350	165
LF 45 - 4 - 2	908	500	1408	330	260	350	205
LF 45 - 4	908	500	1408	330	260	350	205
LF 45 - 5 - 2	988	550	1538	380	310	350	215
LF 45 - 5	988	550	1538	380	310	350	215
LF 45 - 6 - 2	1068	600	1668	380	310	350	275
LF 45 - 6	1068	600	1668	380	310	350	275
LF 45 - 7 - 2	1148	660	1808	420	350	400	355
LF 45 - 7	1148	660	1808	420	350	400	355
LF 45 - 8 - 2	1228	660	1888	420	350	400	360
LF 45 - 8	1228	660	1888	420	350	400	360
LF 45 - 9 - 2	1308	660	1968	420	350	400	365
LF 45 - 9	1308	660	1968	420	350	400	365
LF 45 - 10 - 2	1388	660	2048	420	350	400	390
LF 45 - 10	1388	660	2048	420	350	400	390
LF 45 - 11 - 2	1468	710	2178	470	375	450	4

PERFORMANCE CURVE



INSTALLATION



for reference only

ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 64 - 1 - 1	4.0	5.5	0.88
LF 64 - 1	5.5	7.5	0.88
LF 64 - 2 - 2	7.5	10	0.88
LF 64 - 2 - 1	11	15	0.89
LF 64 - 2	11	15	0.89
LF 64 - 3 - 2	15	20	0.90
LF 64 - 3 - 1	15	20	0.90
LF 64 - 3	18.5	25	0.90
LF 64 - 4 - 2	18.5	25	0.90
LF 64 - 4 - 1	22	30	0.90
LF 64 - 4	22	30	0.90
LF 64 - 5 - 2	30	40	0.90
LF 64 - 5 - 1	30	40	0.90
LF 64 - 5	30	40	0.90
LF 64 - 6 - 2	30	40	0.90
LF 64 - 6 - 1	37	50	0.90
LF 64 - 6	37	50	0.90
LF 64 - 7 - 2	37	50	0.90
LF 64 - 7 - 1	37	50	0.90
LF 64 - 7	45	60	0.90
LF 64 - 8 - 2	45	60	0.90
LF 64 - 8 - 1	45	60	0.90

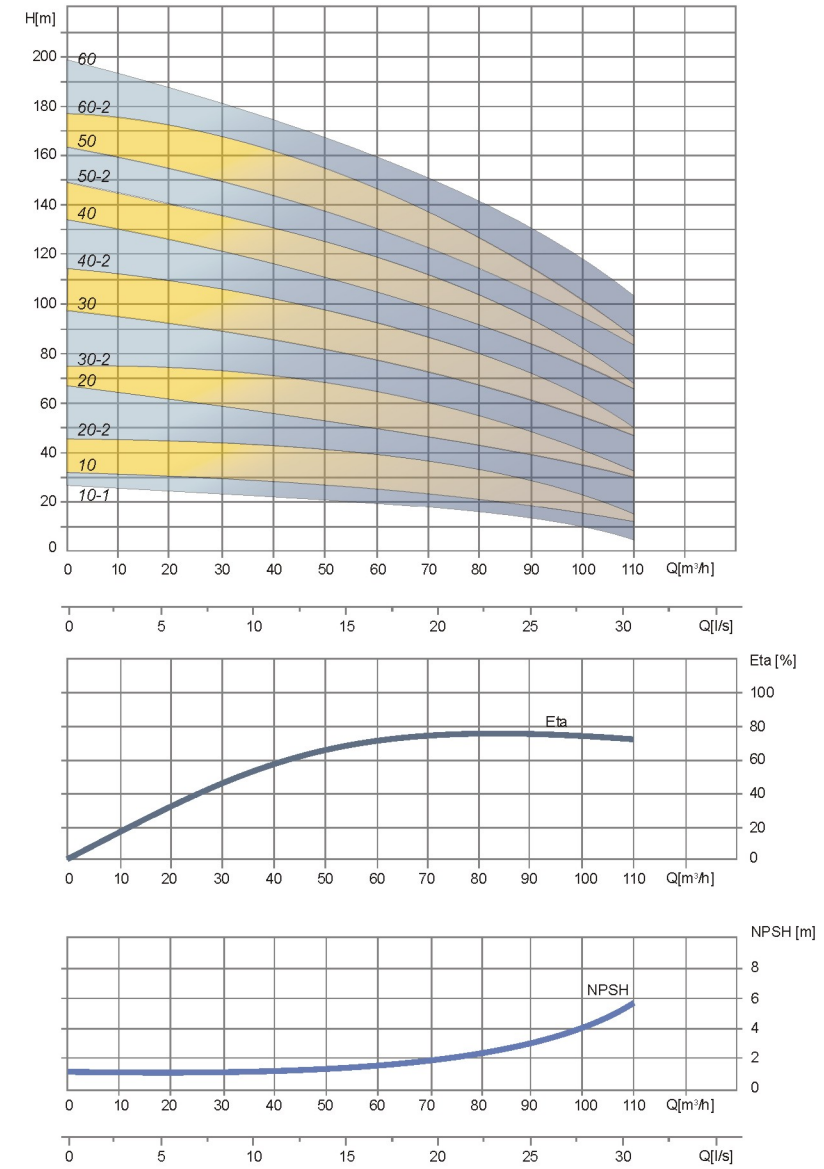
PERFORMANCE TABLE

PUMP TYPE	CAPACITY (m³/h)						
	30	40	50	60	70	80	
LF 64 - 1 - 1	20	18	16	14	12	9	
LF 64 - 1	28	26	24	22	20	17	
LF 64 - 2 - 2	40	38	36	31	26	19	
LF 64 - 2 - 1	48	46	43	39	34	28	
LF 64 - 2	55	52	49	46	42	36	
LF 64 - 3 - 2	69	66	61	55	48	40	
LF 64 - 3 - 1	75	72	68	63	56	48	
LF 64 - 3	85	80	76	71	64	55	
LF 64 - 4 - 2	96	93	88	79	70	59	
LF 64 - 4 - 1	104	100	95	88	78	68	
LF 64 - 4	111	107	102	94	86	75	
LF 64 - 5 - 2	126	122	114	106	94	80	
LF 64 - 5 - 1	134	129	122	113	102	88	
LF 64 - 5	141	136	129	120	110	96	
LF 64 - 6 - 2	154	149	140	129	115	100	
LF 64 - 6 - 1	162	156	148	137	125	108	
LF 64 - 6	170	164	155	145	132	116	
LF 64 - 7 - 2	182	177	166	153	138	120	
LF 64 - 7 - 1	190	184	173	160	146	127	
LF 64 - 7	202	195	185	172	155	137	
LF 64 - 8 - 2	214	207	196	181	162	140	
LF 64 - 8 - 1	223	215	203	189	170	149	

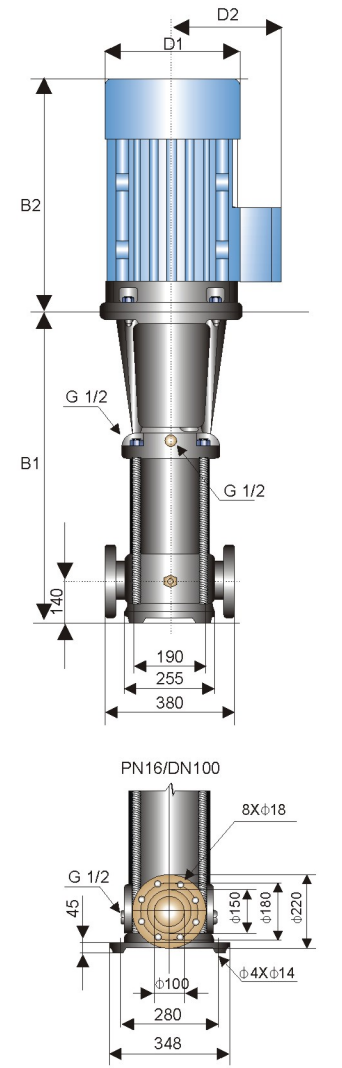
DIMENSION DATA

PUMP TYPE	DIMENSION (mm)						WEIGHT (kg)
	B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	D ₃	
LF 64 - 1 - 1	561	330	891	220	150	160	105
LF 64 - 1	561	420	981	260	210	300	120
LF 64 - 2 - 2	644	420	1064	260	210	300	130
LF 64 - 2 - 1	754	500	1254	330	260	350	165
LF 64 - 2	754	500	1254	330	260	350	165
LF 64 - 3 - 2	836	500	1336	330	260	350	205
LF 64 - 3 - 1	836	500	1336	330	260	350	205
LF 64 - 3	836	550	1386	380	310	350	215
LF 64 - 4 - 2	919	550	1469	380	310	350	215
LF 64 - 4 - 1	919	550	1519	380	310	350	270
LF 64 - 4	919	600	1519	380	310	350	270
LF 64 - 5 - 2	1001	660	1661	420	350	400	350
LF 64 - 5 - 1	1001	660	1661	420	350	400	350
LF 64 - 5	1001	660	1661	420	350	400	350
LF 64 - 6 - 2	1084	660	1744	420	350	400	355
LF 64 - 6 - 1	1084	660	1744	420	350	400	375
LF 64 - 6	1084	660	1744	420	350	400	375
LF 64 - 7 - 2	1166	660	1826	420	350	400	380
LF 64 - 7 - 1	1166	660	1826	420	350	400	380
LF 64 - 7	1166	710	1876	470	375	450	445
LF 64 - 8 - 2	1248	710	1958	470	375	450	450
LF 64 - 8 - 1	1248	710	1958	470	375	450	450

PERFORMANCE CURVE



INSTALLATION



for reference only

ELECTRICAL DATA

PUMP TYPE	MOTOR		Cos φ Power Factor
	kW	hp	
LF 90 - 1 - 1	5.5	7.5	0.88
LF 90 - 1	7.5	10	0.88
LF 90 - 2 - 2	11	15	0.89
LF 90 - 2	15	20	0.90
LF 90 - 3 - 2	18.5	25	0.90
LF 90 - 3	22	30	0.90
LF 90 - 4 - 2	30	40	0.90
LF 90 - 4	30	40	0.90
LF 90 - 5 - 2	37	50	0.90
LF 90 - 5	37	50	0.90
LF 90 - 6 - 2	45	60	0.90
LF 90 - 6	45	60	0.90

PERFORMANCE TABLE

PUMP TYPE	CAPACITY (m³/h)						
	50	60	70	80	85	90	
LF 90 - 1 - 1	22	19	17	16	14	13	
LF 90 - 1	25	24	22	21	20	19	
LF 90 - 2 - 2	41	39	36	32	30	28	
LF 90 - 2	53	50	47	44	41	40	
LF 90 - 3 - 2	68	65	60	55	52	49	
LF 90 - 3	81	77	72	67	64	62	
LF 90 - 4 - 2	98	93	87	80	75	72	
LF 90 - 4	110	105	100	92	86	84	
LF 90 - 5 - 2	126	120	113	104	98	93	
LF 90 - 5	139	131	124	115	110	106	
LF 90 - 6 - 2	155	148	139	129	122	117	
LF 90 - 6	168	160	150	141	134	130	

DIMENSION DATA

PUMP TYPE	DIMENSION (mm)					WEIGHT (kg)
	B ₁	B ₂	B ₁ +B ₂	D ₁	D ₂	
LF 90 - 1 - 1	571	430	1001	260	208	105
LF 90 - 1	571	430	1001	260	208	110
LF 90 - 2 - 2	773	490	1263	330	255	181
LF 90 - 2	773	490	1263	330	255	192
LF 90 - 3 - 2	865	550	1415	330	255	215
LF 90 - 3	865	590	1455	360	285	252
LF 90 - 4 - 2	957	660	1617	400	310	312
LF 90 - 4	957	660	1617	400	310	312
LF 90 - 5 - 2	1049	660	1709	400	310	336
LF 90 - 5	1049	660	1709	400	310	336
LF 90 - 6 - 2	1141	700	1841	460	340	407
LF 90 - 6	1141	700	1841	460	340	407