

Horizontal Multistage Pumps

Technical Details



HORIZONTAL MULTISTAGE CENTRIFUGAL PUMPS - BR SERIES

Technical Specifications

Power Range	0.37 - 4 kW / 0.5 - 5.5 HP
Version	1Ph - 230V, 50Hz AC
	3Ph - 380 -415V, 50Hz AC
Speed	2900 RPM
Protection	IP 55
Insulation Class	F Class
Duty	S1 (continuous)
Direction of Rotation	Clockwise viewed from driving end
Sealing	Mechanical Seal
Max. Liquid Temperature	Std.: -15 to +70°C, High Temp.: upto 104°C
Max. Ambient Temperature	50°C
Max. Operating Pressure	10 Bar
Flow Range	upto 28m³/h
Head Range	upto 65m

Model Nomenclature

XXX - (S)(X)X / XX (X) XXX

BR - Horizontal Multistage Pumps

Materials of Construction
Std.: CI Suction & Delivery Housing
Applicable only for special construction
S= Complete SS304 Const.
N= Complete SS316 Const.
F= Fabricated SS304 Suc. & Del. Housing

Applicable only for 60Hz

Rated Flow in m³/h
2 - 2m³/h, 12 - 12m³/h

Number of Stages x 10

20: 2 Stage , 40: 4 Stage
35: 4 Stage with trimmed impeller

Horizontal Multistage Pumps

Applicable only for high Eff. Motors

2 = IE2 Motor
3 = IE3 Motor

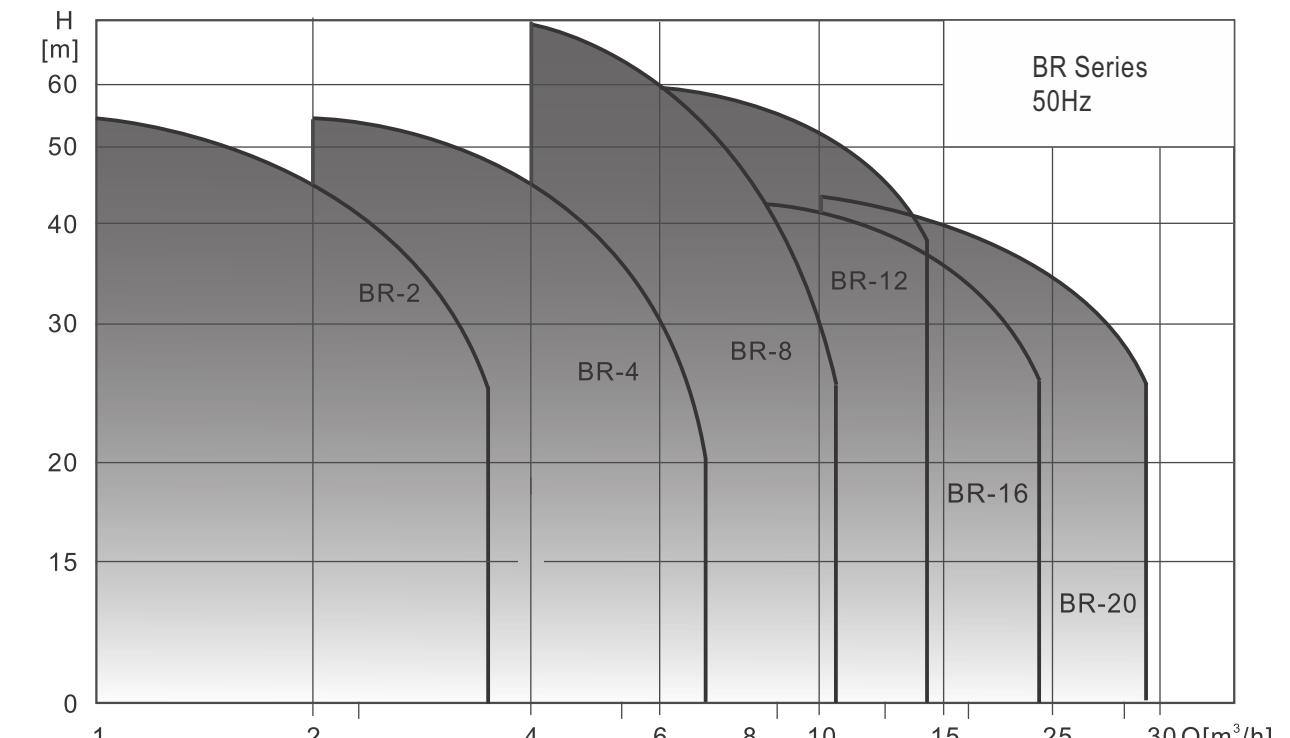
Voltage (Except for 1Ph 230V & 3Ph 380V)
D = 220V, K = 415V

Method of Starting

S: 1Ph - CSCR
T: 3Ph - D.O.L
D: 3Ph - S.D.

Applicable only for high flow models
B= High Flow Models

Technical Details



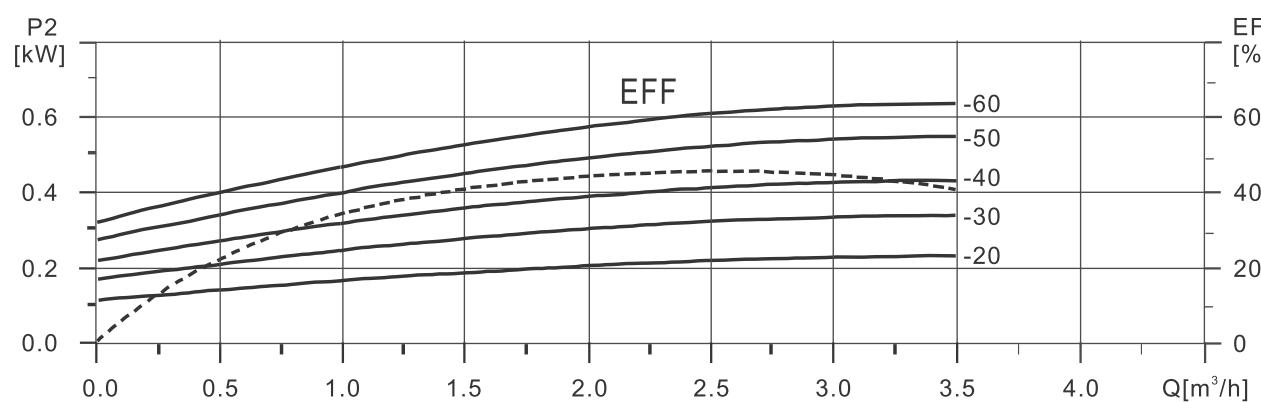
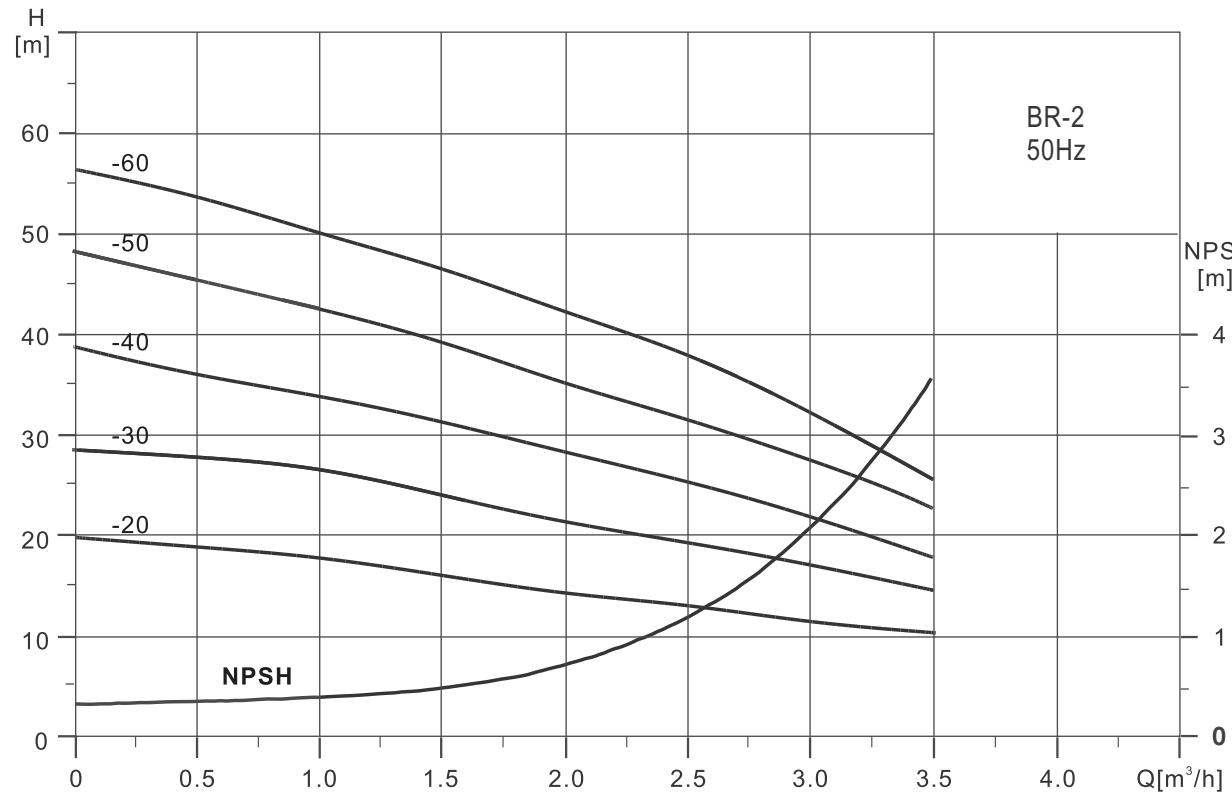
MATERIALS OF CONSTRUCTION

Part Name	BR	BRF	BRD	BRM
Pump Casing	Cast Iron	SS 304	SS 304	SS 304
Pump Head	Cast Iron	SS 304	-	SS 304
Impeller	SS 304	SS 304	SS 304	SS 304
Diffuser Casing	SS 304	SS 304	SS 304	SS 304
Pump Shaft	SS 304	SS 304	SS 304	SS 304
Bracket	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Mechanical Seal	Carbon / Ceramic	Carbon / Ceramic	Carbon / Ceramic	Carbon / Ceramic
Pump Base	M.S / C.I.	M.S / C.I.	M.S / C.I.	M.S / C.T.
Sleeve	SS 304	SS 304	SS 304	SS 304
Clamp Holder	SS 304	-	SS 304	-
Clamp Plate	SS 304	-	SS 304	-

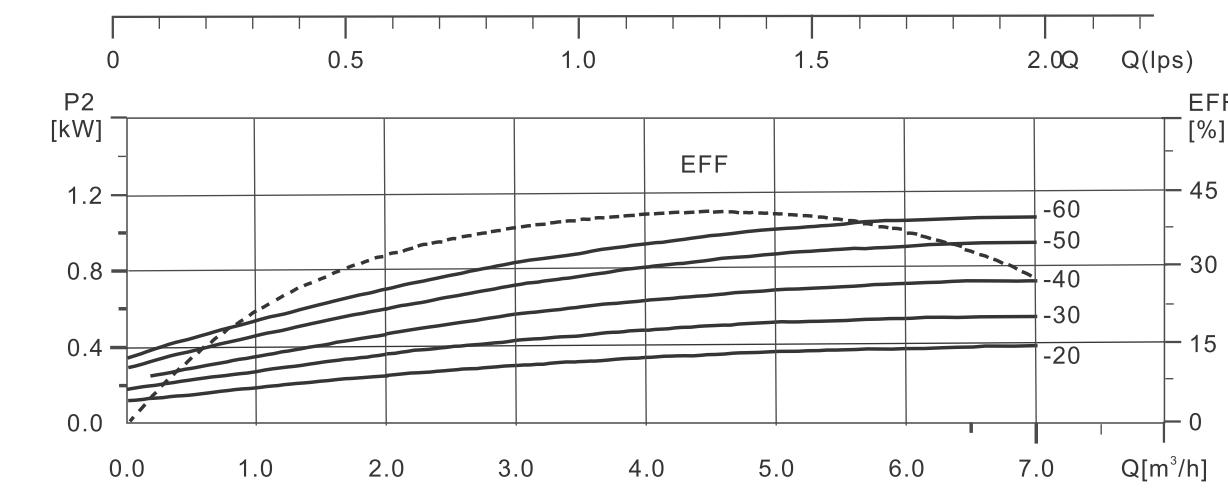
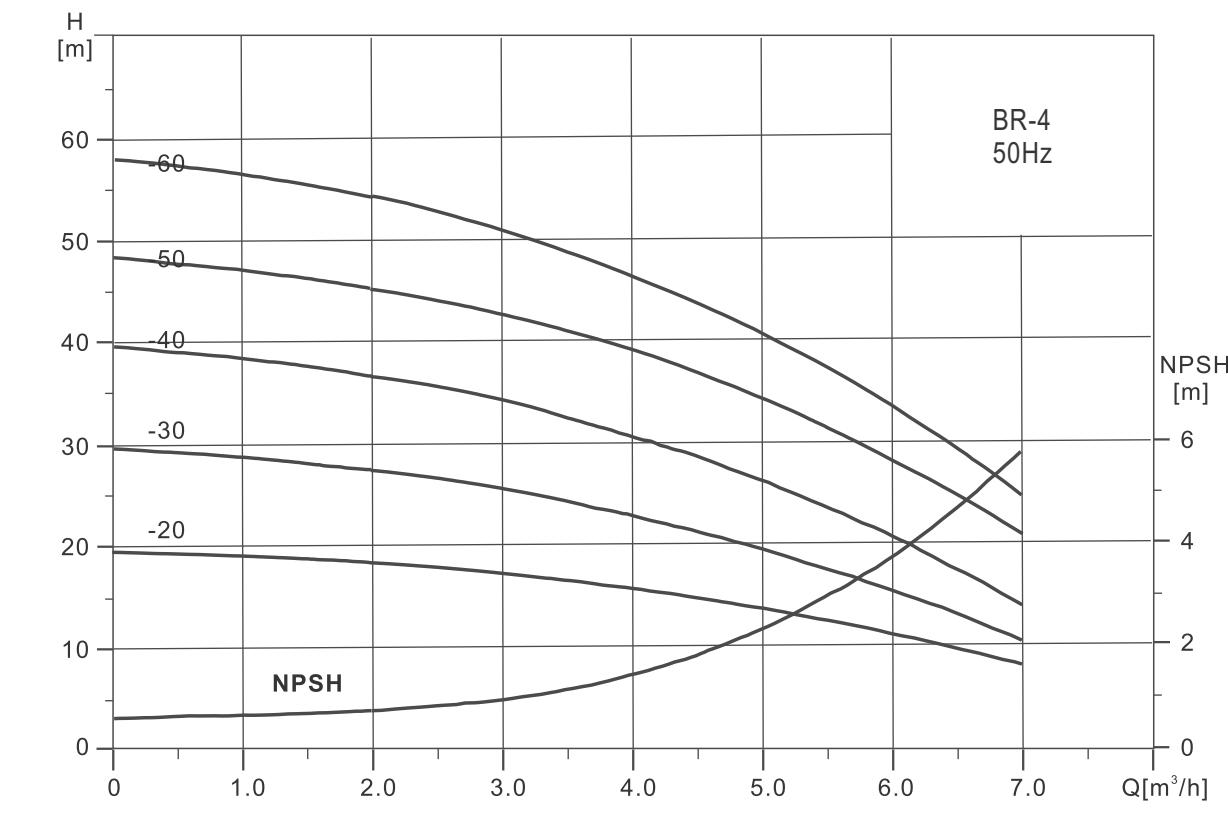
Horizontal Multistage Pumps

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Performance Curves



Performance Curves



Performance Table

Model		Motor P ₂ (kW)	Q (m ³ /h)	H (m)	1.0	1.5	2.0	2.5	3.0	3.5
Single Phase	Three Phase				18	16	14	13	11	10
BR-2/20S	BR-2/20T	0.37	18	H (m)	27	24	21	20	17	14
BR-2/30S	BR-2/30T				35	32	28	26	23	17
BR-2/40S	BR-2/40T				43	40	35	33	28	22
BR-2/50S	BR-2/50T				50	48	42	38	32	25
BR-2/60S	BR-2/60T				53	50	45	40	33	24

BR SERIES

2m³/h

Performance Table

Model		Motor P ₂ (kW)	Q (m ³ /h)	2.0	3.0	4.0	5.0	6.0	7.0	
Single Phase	Three Phase			18	16	15	13	10	7	
BR-4/20S	BR-4/20T	0.55	18	H (m)	27	25	22	19	15	10
BR-4/30S	BR-4/30T				36	33	30	26	20	13
BR-4/40S	BR-4/40T				44	41	38	32	26	20
BR-4/50S	BR-4/50T				53	50	45	40	33	24
BR-4/60S	BR-4/60T				53	50	45	40	33	24

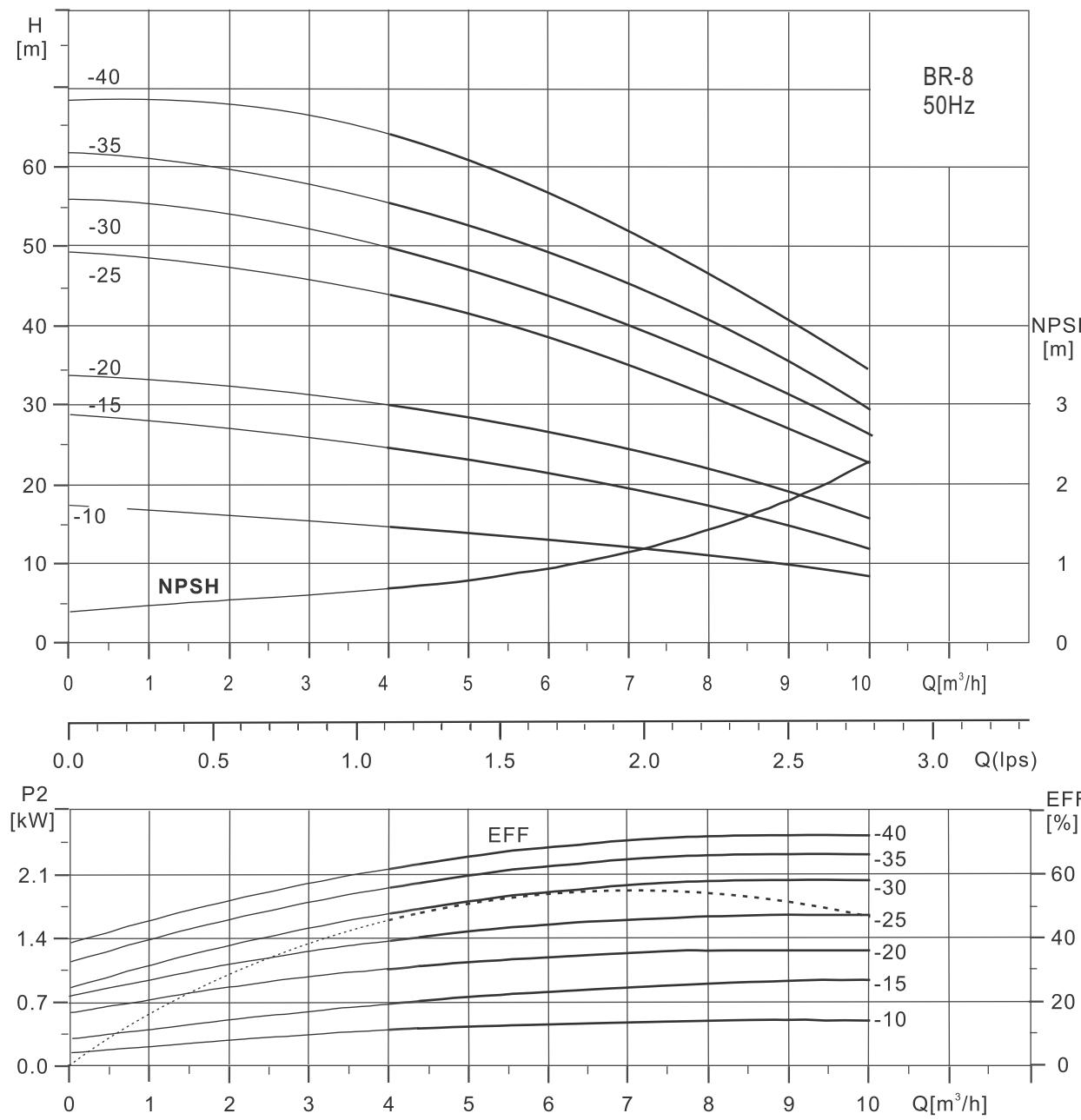
BR SERIES

2m³/h

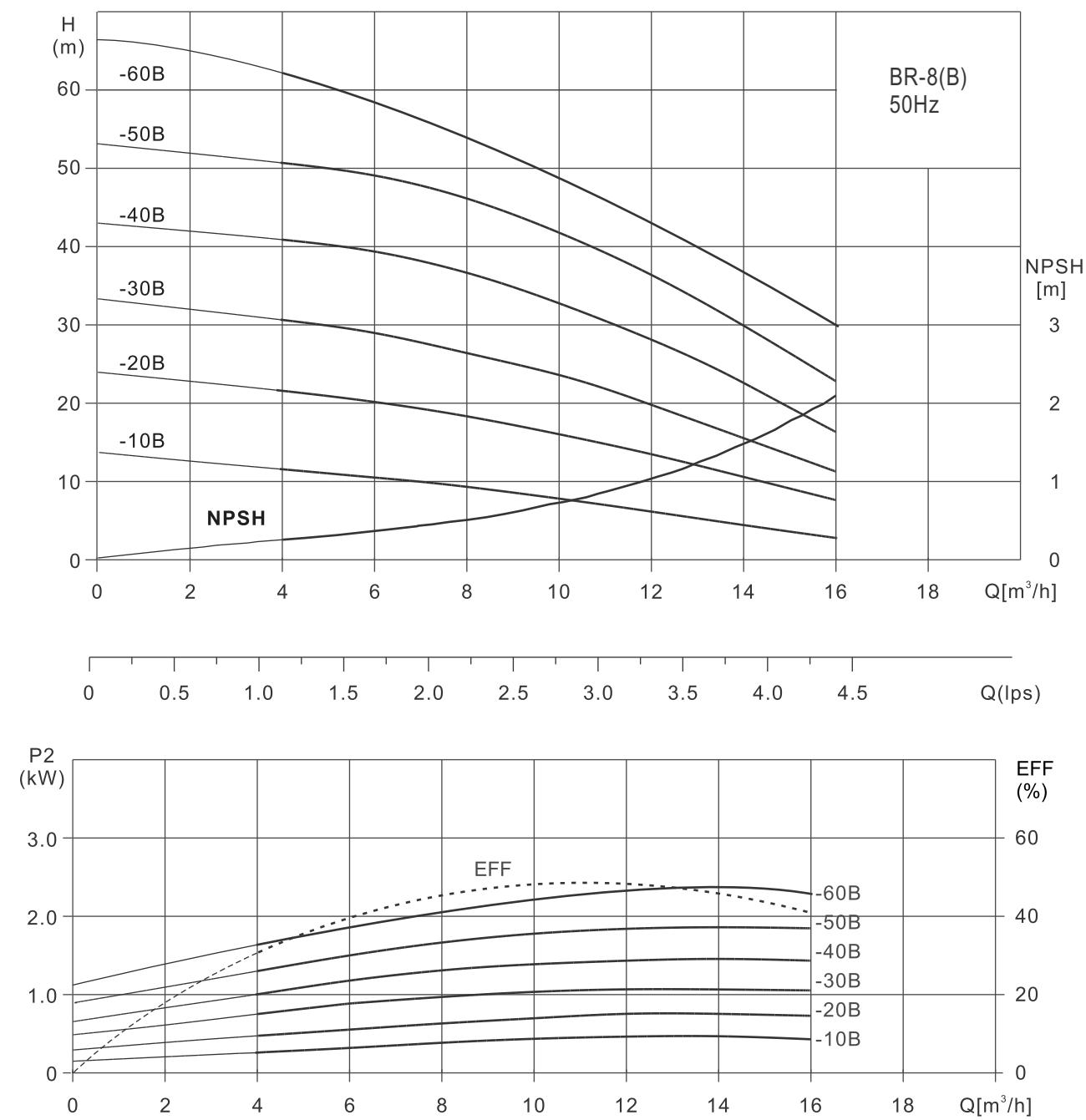
Horizontal Multistage Pumps

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Performance Curves



Performance Curves



BR SERIES

Performance Table

Model		Motor P_2 (kW)	Q (m^3/h)	4.0	5.0	6.0	7.0	8.0	9.0	10
Single Phase	Three Phase									
BR-8/10S	BR-8/10T	0.55	H (m)	15	14	13	12.5	12	9	8
BR-8/15S	BR-8/15T			25	23	22	21	20	14	12
BR-8/20S	BR-8/20T			32	29	27	25	24	21	17
BR-8/25S	BR-8/25T			43	40	38	34	27	25	20
BR-8/30S	BR-8/30T			50	46	44	40	36	30	26
BR-8/35S	BR-8/35T			56	51	48	44	43	35	28
BR-8/40S	BR-8/40T			65	57.5	57	50	48	42	34

8 m^3/h

BR SERIES

Performance Table

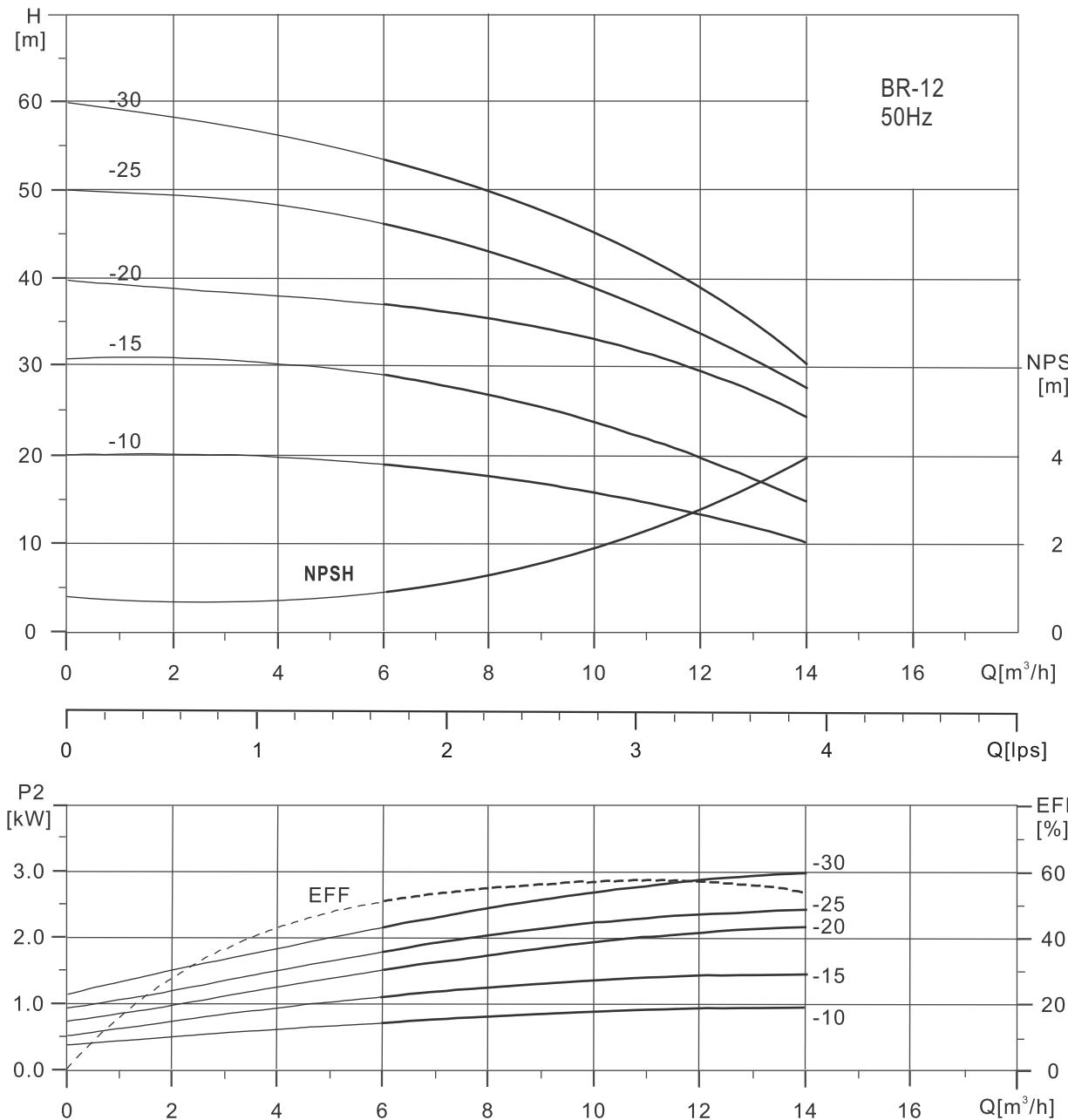
Model		Motor P_2 (kW)	Q (m^3/h)	4.0	6.0	8.0	10	12	14	16
Single Phase	Three Phase									
BR-8/10BS	BR-8/10BT	0.55	H (m)	11	10	9	8	7	6	5
BR-8/20BS	BR-8/20BT			22	20	19	18	13	11	8
BR-8/30BS	BR-8/30BT			31	29	26	24	20	16	11
BR-8/40BS	BR-8/40BT			41	39	37	33	28	23	17
BR-8/50BS	BR-8/50BT			51	49	46.5	42	37	30	23
	BR-8/60BT			62	58	52	48	42	36	30

8 m^3/h

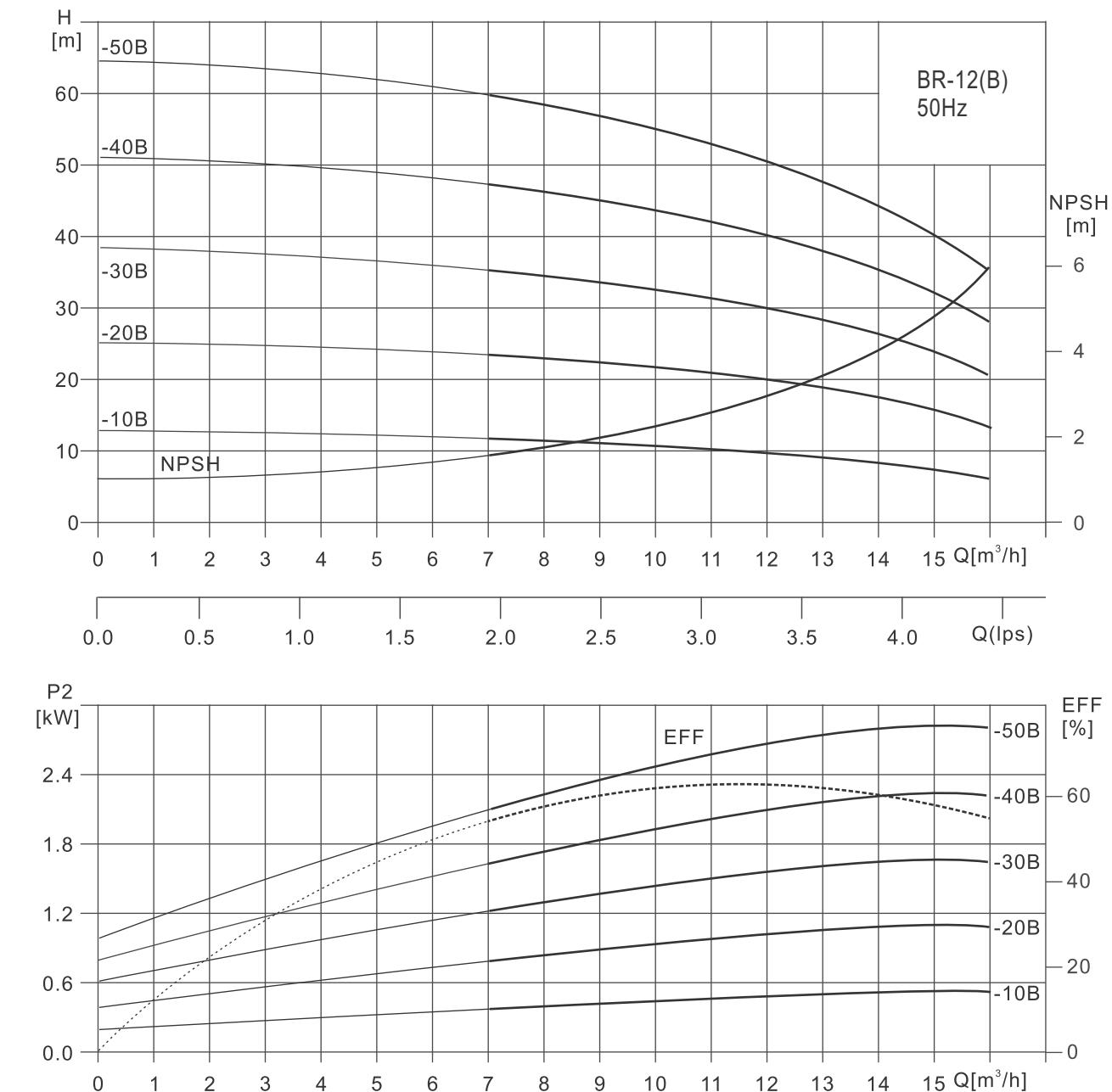
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Performance Curves



Performance Curves



Performance Table

Model		Motor P ₂ (kW)	Q (m ³ /h)	H (m)	6.0	7.0	8.0	9.0	10	11	12	13	14
Single Phase	Three Phase				6.0	7.0	8.0	9.0	10	11	12	13	14
BR-12/10S	BR-12/10T	1.0	H	19 28 38 47 53.5	19	18	17.5	16	15.5	14	13.5	12	10.5
BR-12/15S	BR-12/15T				28	27	26	25	24	22	20	18	15
BR-12/20S	BR-12/20T				38	36	35	32	31	29	28	24	20
BR-12/25S	BR-12/25T				47	45	43	41.5	39	36	33.5	30.5	27
	BR-12/30T				53.5	52	50	47.5	45	42	39	35	30

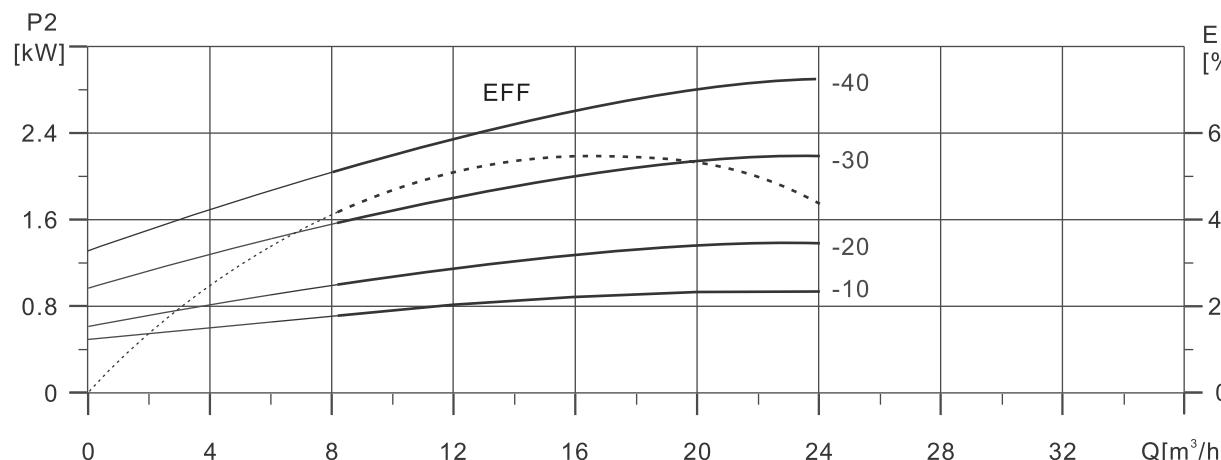
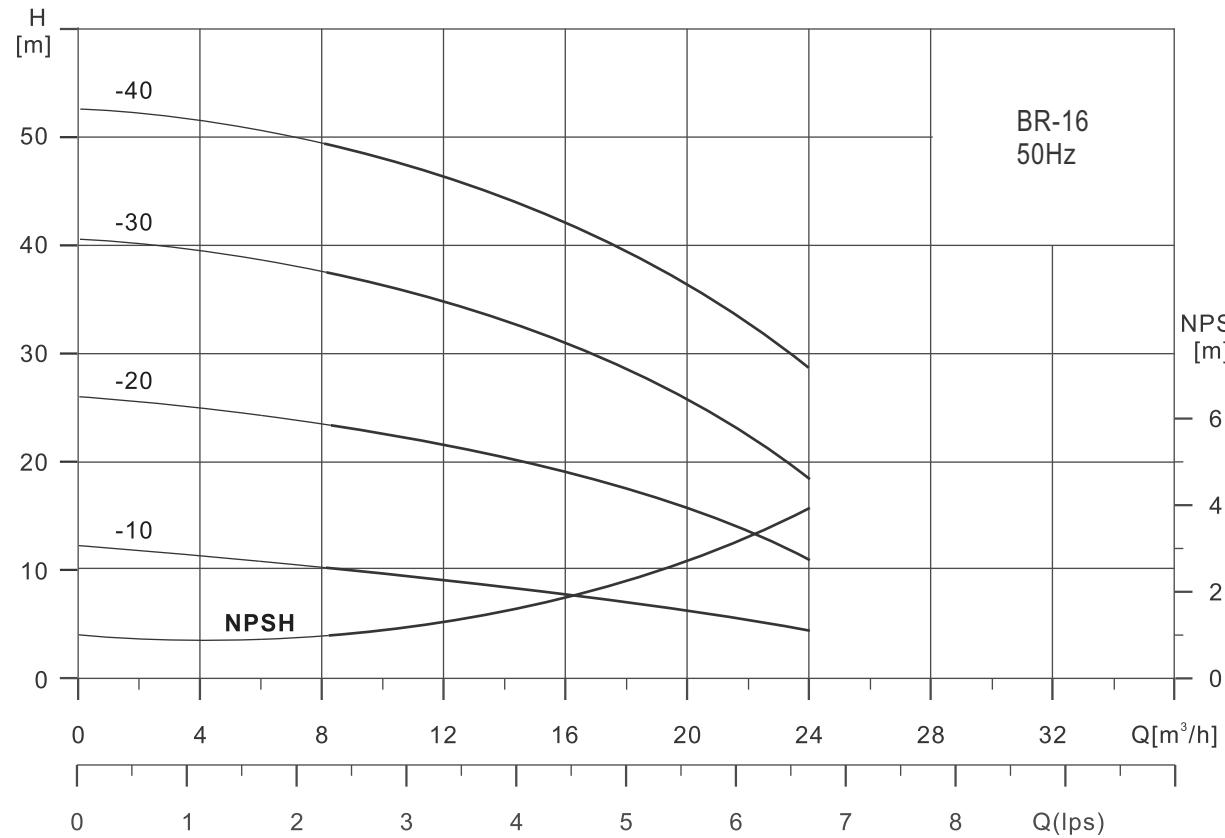
Performance Table

Model		Motor P ₂ (kW)	Q (m ³ /h)	H (m)	7.0	8.0	9.0	10	11	12	13	14	15	16
Single Phase	Three Phase				7.0	8.0	9.0	10	11	12	13	14	15	16
BR-12/10BS	BR-12/10BT	0.75	H	12 23 35 47 60	12	11.5	11	10.5	10	9.5	9	8	7	6
BR-12/20BS	BR-12/20BT				23	22.5	22	21	20.5	19.5	18.5	17	15.5	13
BR-12/30BS	BR-12/30BT				35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
BR-12/40BS	BR-12/40BT				47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
	BR-12/50BT				60	58	56.5	55	52.5	50	47	44	40	35

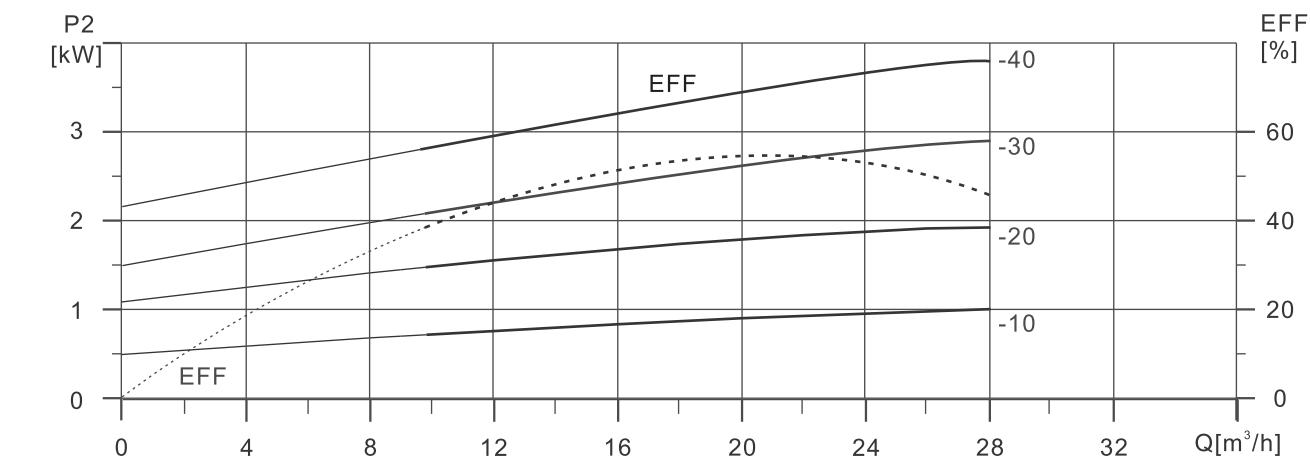
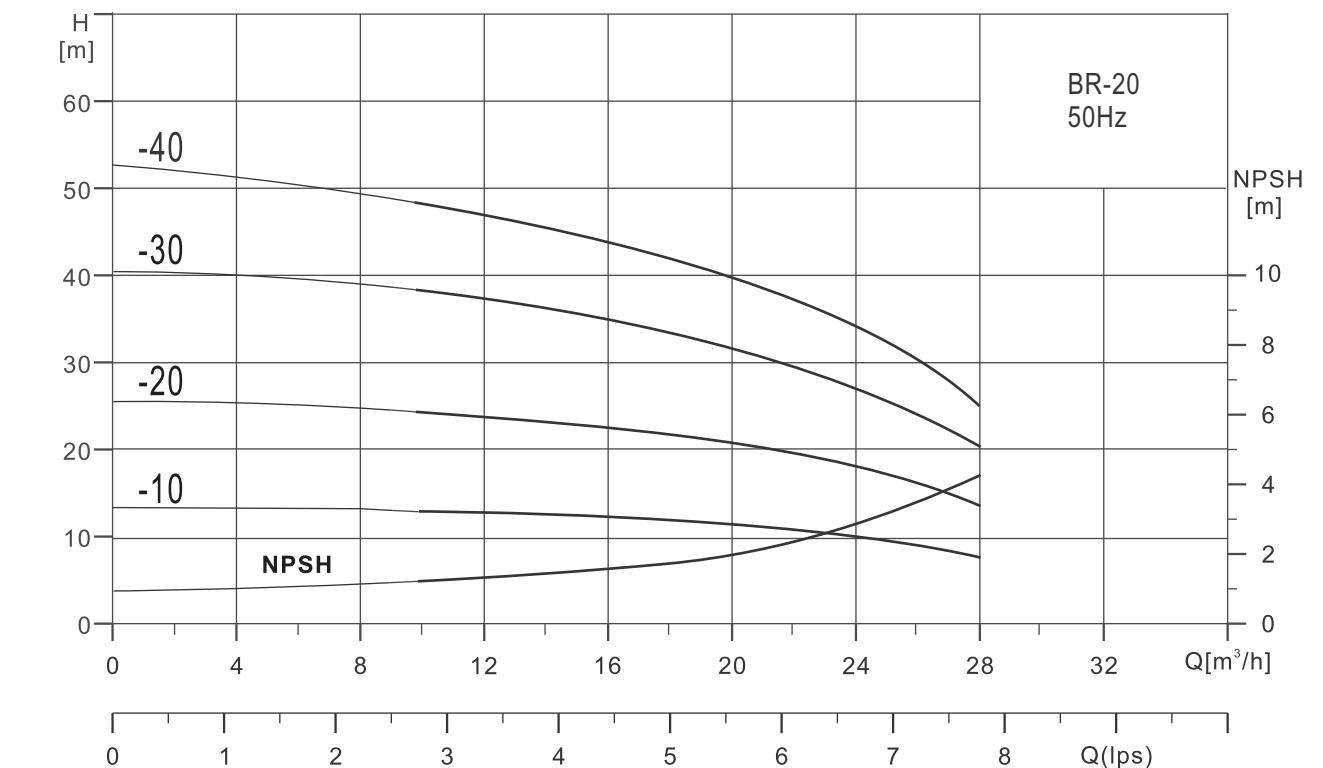
Horizontal Multistage Pumps

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Performance Curves



Performance Curves



Performance Table

Model		Motor P ₂ (kW)	Q (m ³ /h)	H (m)	8	10	12	14	16	18	20	22	24
Single Phase	Three Phase				12	11.5	11	10.5	10	9	8	7	6
BR-16/10S	BR-16/10T	1.0		H (m)	12	11.5	11	10.5	10	9	8	7	6
BR-16/20S	BR-16/20T				24	23	22	21	20	19	16	14	12
BR-16/30S	BR-16/30T				38	36	34	33	30	28	26	23	20
	BR-16/40T				50	48	46	44	40	38	36	32	28

BR SERIES

16m³/h

Performance Table

Model		Motor P ₂ (kW)	Q (m ³ /h)	10	12	14	16	18	20	22	24	26	28	
Single Phase	Three Phase			10	12	14	16	18	20	22	24	26	28	
BR-20/10S	BR-20/10T	1.0		H (m)	13	12.5	12	11.5	11	10.5	10	9	8.5	7.5
BR-20/20S	BR-20/20T				25	24	23	22	21	20	18	16	14	12
	BR-20/30T				39	38	36	35	33	31.5	30	27	24	21
	BR-20/40T				50	48	46	44	42	40	36	32	28	24

BR SERIES

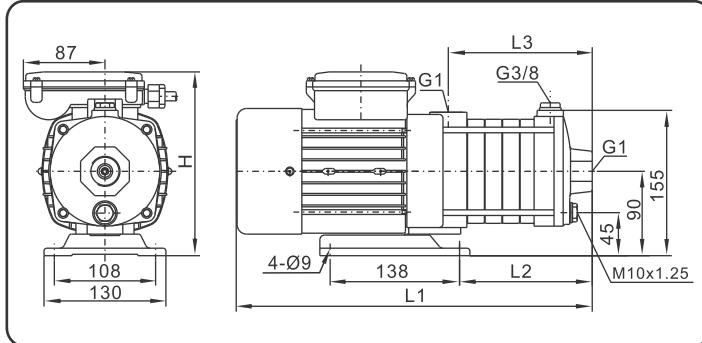
20m³/h

Horizontal Multistage Pumps

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Dimension & Weight Details

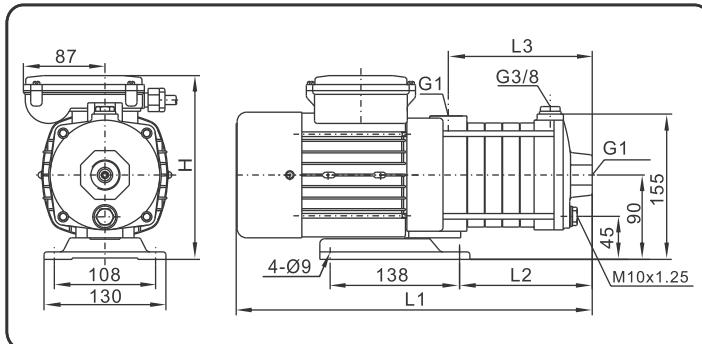
BR-2



Suc. x Del.: 1"x1"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BR-2/20S/T	326	70	104	198	326	70	104	194	8.5	
BR-2/30S/T	344	88	122	198	344	88	122	194	9	
BR-2/40S/T	362	106	140	198	362	106	140	194	9.5	
BR-2/50S/T	380	124	158	198	380	124	158	194	10	
BR-2/60S/T	398	142	176	198	398	142	176	194	10.5	

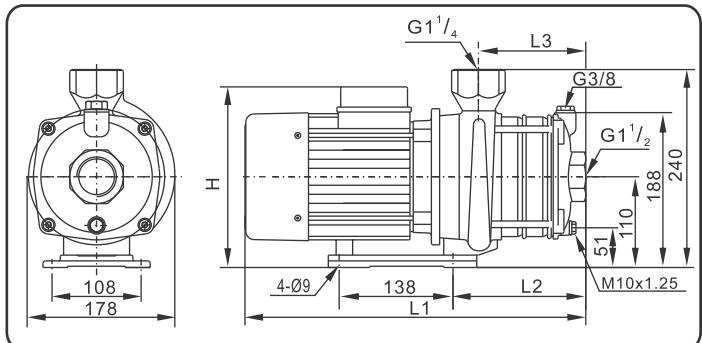
BR-4



Suc. x Del.: 1"x1"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BR-4/20S/T	335	79	113	198	335	79	113	194	9	
BR-4/30S/T	362	106	140	198	362	106	140	194	10	
BR-4/40S/T	389	133	167	198	389	133	167	194	10.5	
BR-4/50S/T	416	160	194	198	416	160	194	194	11	
BR-4/60S/T	443	187	221	198	443	187	221	194	12	

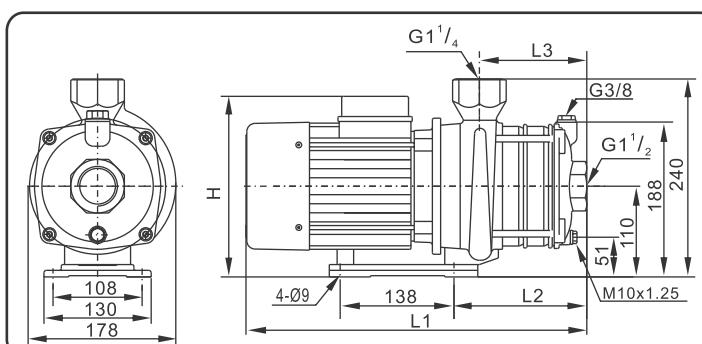
BR-8



Suc. x Del.: 1½"x1¼"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BR-8/10S/T	328	73	78	235	328	73	78	214	13	
BR-8/15S/T	358	103	108	235	358	103	108	214	15	
BR-8/20S/T	358	103	108	235	358	103	108	214	18	
BR-8/25S/T	426	133	138	244	426	133	138	222	20	
BR-8/30S/T	468	133	138	230	426	133	138	222	25	
BR-8/35S/T	500	163	168	230	456	163	168	222	30	
BR-8/40S/T	500	163	168	230	456	163	168	222	31	

BR-8B

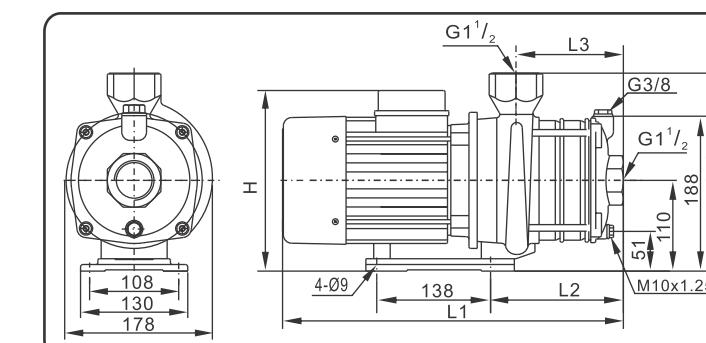


Suc. x Del.: 1½"x1¼"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BR-8/10BS/T	326	73	78	237	326	73	78	216	14	
BR-8/20BS/T	356	103	108	237	356	103	108	216	15	
BR-8/30BS/T	416	133	138	246	416	133	138	222	19	
BR-8/40BS/T	446	163	168	246	446	163	168	222	20	
BR-8/50BS/T	521	193	198	227	476	193	198	222	28	
BR-8/60BS/T	-	-	-	-	568	223	228	227	29	

Dimension & Weight Details

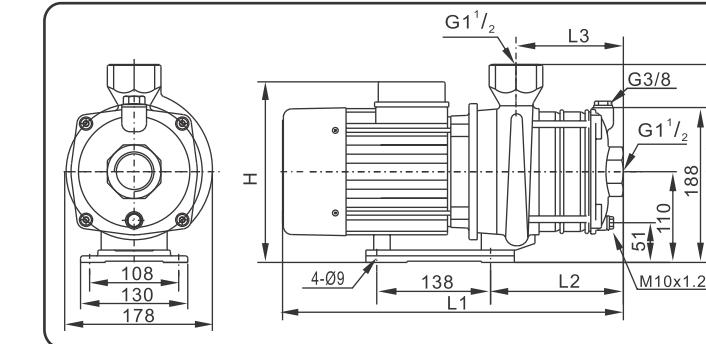
BR-12



Suc. x Del.: 1½"x1½"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BR-12/10S/T	328	73	78	235	328	73	78	214	15	
BR-12/15S/T	395	103	108	244	395	103	108	222	18	
BR-12/20S/T	436	103	108	230	395	103	108	222	20	
BR-12/25S/T	468	133	138	230	426	133	138	222	24	
BR-12/30S/T	-	-	-	-	485	133	138	230	27	

BR-12B



Suc. x Del.: 1½"x1½"

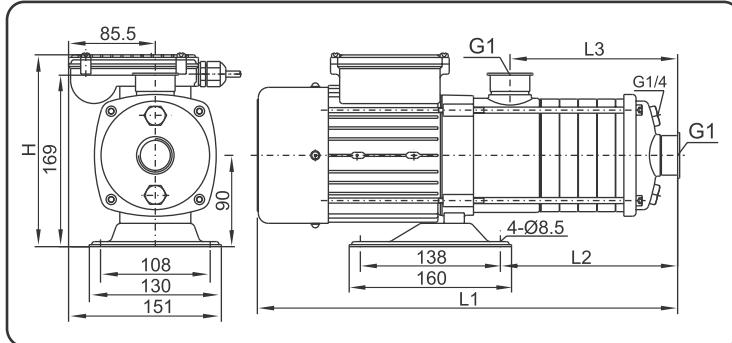
Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BR-12/10BS/T	330	73	78	237	330	73	78	216	13	

Horizontal Multistage Pumps

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Dimension & Weight Details

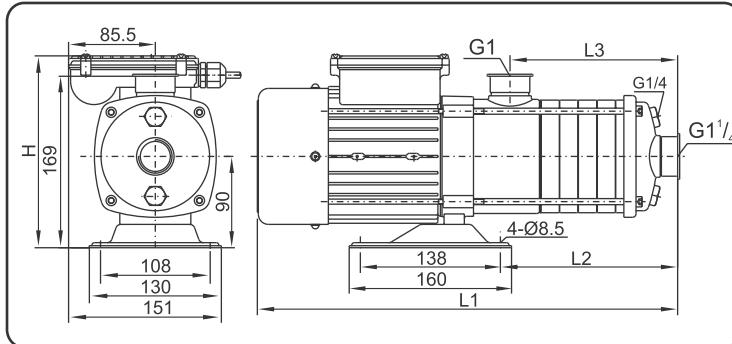
BRF-2



Suc. x Del.: 1"x1"

Model	Dimensions(mm)								Weight (kg)
	Single Phase			Three Phase					
L1	L2	L3	H	L1	L2	L3	H		
BRF-2/20S/T	342	103	92	189	342	103	92	192	7.5
BRF-2/30S/T	360	121	110	189	360	121	110	192	8
BRF-2/40S/T	378	139	128	189	378	139	128	192	9
BRF-2/50S/T	396	157	146	189	396	157	146	192	10
BRF-2/60S/T	414	175	164	189	414	175	164	192	11

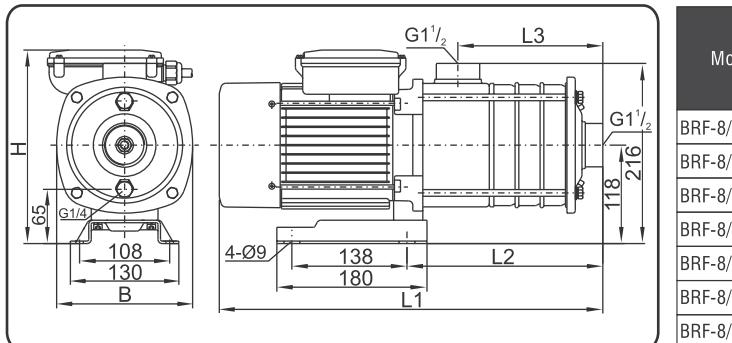
BRF-4



Suc. x Del.: 1¼"x1"

Model	Dimensions(mm)								Weight (kg)
	Single Phase			Three Phase					
L1	L2	L3	H	L1	L2	L3	H		
BRF-4/20S/T	342	103	92	189	342	103	92	192	9
BRF-4/30S/T	360	121	110	189	360	121	110	192	10
BRF-4/40S/T	378	139	128	189	378	139	128	192	11
BRF-4/50S/T	396	157	146	215	396	157	146	192	12
BRF-4/60S/T	414	175	164	215	414	175	164	192	13

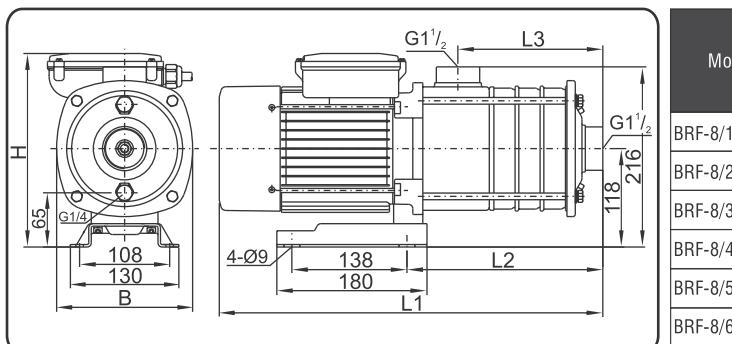
BRF-8



Suc. x Del.: 1½"x1½"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase			Three Phase						
L1	L2	L3	H	B	L1	L2	L3	H		
BRF-8/10S/T	340	144	83	227	163	340	144	83	220	13
BRF-8/15S/T	370	175	113	227	163	370	175	113	220	15
BRF-8/20S/T	370	175	113	227	163	370	175	113	220	18
BRF-8/25S/T	432	205	144	235	163	432	205	144	225	163
BRF-8/30S/T	474	205	144	262	168	432	205	144	225	163
BRF-8/35S/T	504	235	174	262	168	463	235	174	225	163
BRF-8/40S/T	504	235	174	262	168	463	235	174	225	163
										28

BRF-8B

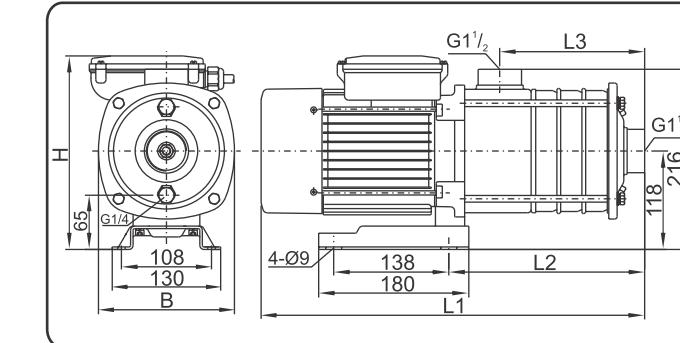


Suc. x Del.: 1½"x1½"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase			Three Phase						
L1	L2	L3	H	B	L1	L2	L3	H		
BRF-8/10BS/T	340	144	83	227	163	340	144	83	220	14
BRF-8/20BS/T	370	175	113	227	163	370	175	113	220	15
BRF-8/30BS/T	432	205	144	235	163	432	205	144	225	163
BRF-8/40BS/T	463	235	174	235	16	463	235	174	225	163
BRF-8/50BS/T	534	265	204	262	168	493	265	204	225	163
BRF-8/60BT	-	-	-	-	-	584	296	234	230	31

Dimension & Weight Details

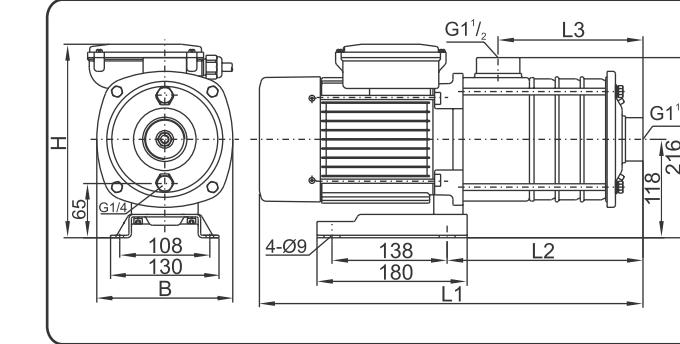
BRF-12



Suc. x Del.: 1½"x1½"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase			Three Phase						
L1	L2	L3	H	B	L1	L2	L3	H		
BRF-12/10S/T	340	144	83	227	163	340	144	83	220	163
BRF-12/15S/T	402	175	113	235	163	402	175	113	225	163
BRF-12/20S/T	444	175	113	262	168	444	175	113	225	163
BRF-12/25S/T	474	205	144	262	168	474	205	144	225	163
BRF-12/30T	-	-	-	-	-	494	205	144	230	168
										28

BRF-12B



Suc. x Del.: 1½"x1½"

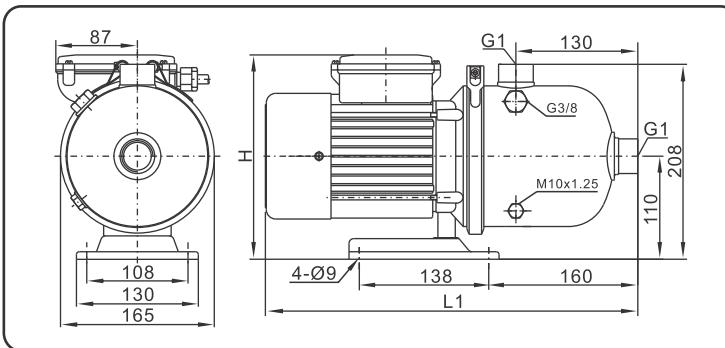
Model	Dimensions(mm)								Weight (kg)
	Single Phase			Three Phase					

Horizontal Multistage Pumps

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Dimension & Weight Details

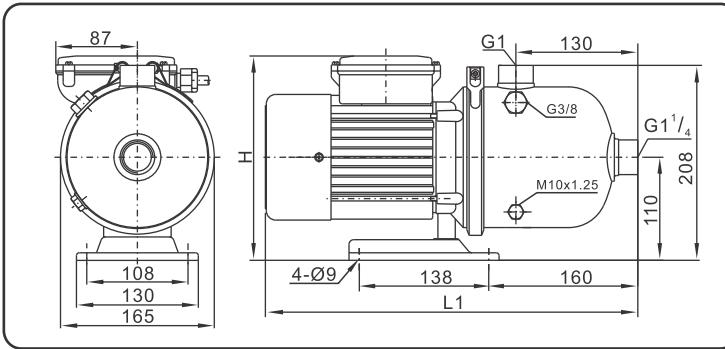
BRD-2



Suc. x Del.: 1" x 1"

Model	Dimensions(mm)				Weight (kg)	
	Single Phase		Three Phase			
	L1	H	L1	H		
BRD-2/20S/T	400	217	400	214	8	
BRD-2/30S/T	400	217	400	214	8.5	
BRD-2/40S/T	400	217	400	214	9.5	
BRD-2/50S/T	400	217	400	214	11	
BRD-2/60S/T	400	217	400	214	12	

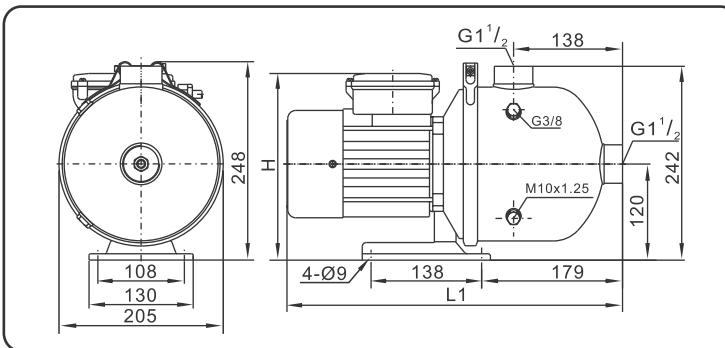
BRD-4



Suc. x Del.: 1 1/4" x 1"

Model	Dimensions(mm)				Weight (kg)	
	Single Phase		Three Phase			
	L1	H	L1	H		
BRD-4/20S/T	400	217	400	214	9.7	
BRD-4/30S/T	400	217	400	214	11	
BRD-4/40S/T	400	217	400	214	11.5	
BRD-4/50S/T	400	217	400	214	12.5	
BRD-4/60S/T	400	217	400	214	13.5	

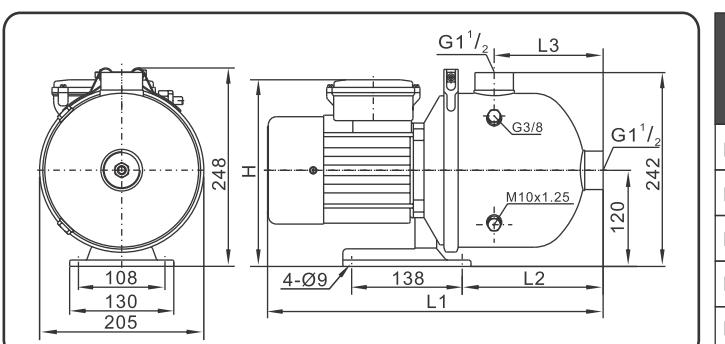
BRD-8



Suc. x Del.: 1 1/2" x 1 1/2"

Model	Dimensions(mm)				Weight (kg)	
	Single Phase		Three Phase			
	L1	H	L1	H		
BRD-8/10S/T	424	227	424	222	10.5	
BRD-8/15S/T	424	227	424	222	12	
BRD-8/20S/T	424	227	424	222	14	
BRD-8/25S/T	459	235	459	232	17	
BRD-8/30S/T	500	239	459	232	21.5	
BRD-8/35S/T	500	239	459	232	23	
BRD-8/40S/T	500	239	459	232	24	

BRD-8B

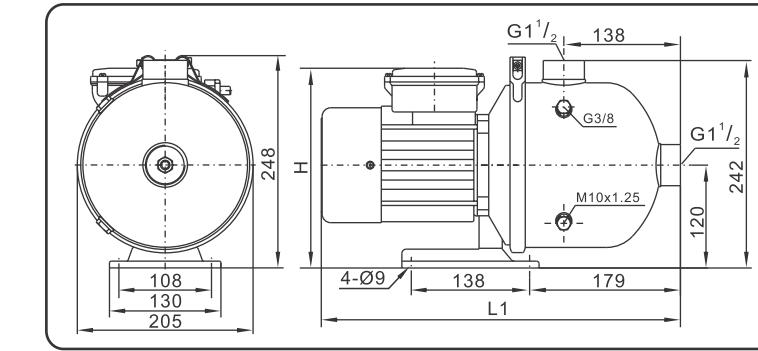


Suc. x Del.: 1 1/2" x 1 1/2"

Model	Dimensions(mm)				Weight (kg)	
	Single Phase		Three Phase			
	L1	L2	L3	H		
BRD-8/10BS/T	425	180	139	227	10	
BRD-8/20BS/T	425	180	139	227	11.5	
BRD-8/30BS/T	455	180	139	235	13	
BRD-8/40BS/T	455	180	139	235	16	
BRD-8/50BS/T	566	246	205	239	25	

Dimension & Weight Details

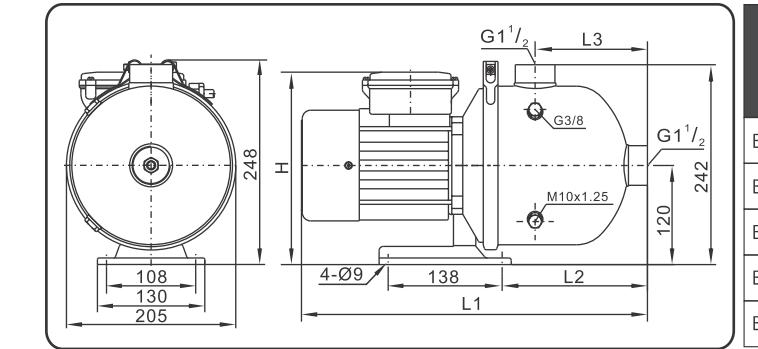
BRD-12



Suc. x Del.: 1 1/2" x 1 1/2"

Model	Dimensions(mm)				Weight (kg)	
	Single Phase		Three Phase			
	L1	H	L1	H		
BRD-12/10S/T	424	227	425	222	12	
BRD-12/15S/T	459	235	459	232	13.5	
BRD-12/20S/T	500	239	459	232	21	
BRD-12/25S/T	500	239	459	232	24	
BRD-12/30T	-	-	518	239	27	

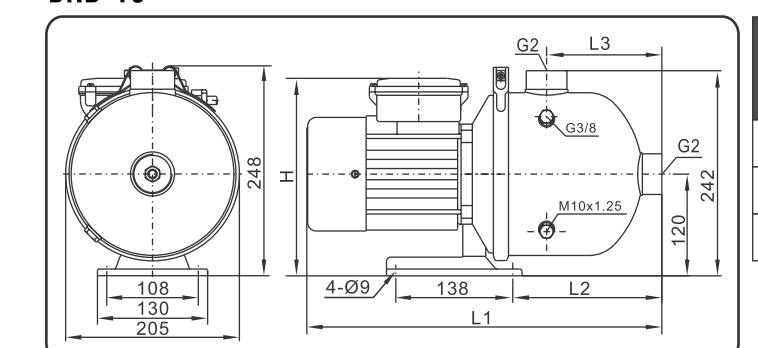
BRD-12B



Suc. x Del.: 1 1/2" x 1 1/2"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BRD-12/10BS/T	425	180	139	227	425	180	139	224	11	
BRD-12/20BS/T	458	180	139	235	455	180	139	232	13	
BRD-12/30BS/T	500	180	139	239	455	180	139	232	23	
BRD-12/40BS/T	500	180	139	239	455	180	139	232	24	
BRD-12/50BT	-	-	-	-	583	246	205	239	27	

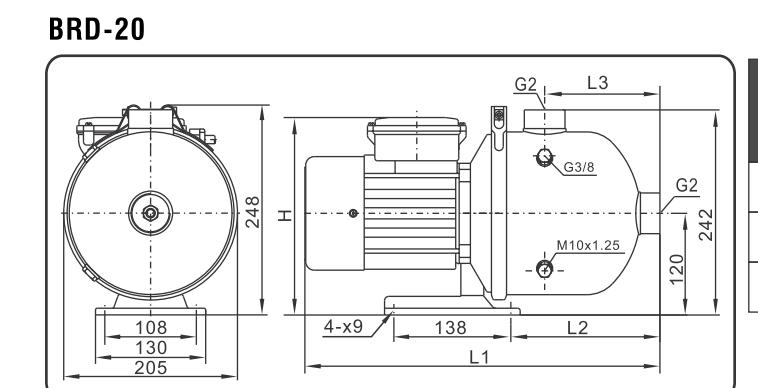
BRD-16



Suc. x Del.: 2" x 2"

Model	Dimensions(mm)								Weight (kg)	
	Single Phase				Three Phase					
	L1	L2	L3	H	L1	L2	L3	H		
BRD-16/10S/T	425	175	136	245	425	175	136	224	13.5	
BRD-16/20S/T	455	175	136	254	455	175	136	232	17	
BRD-16/30S/T	520	201	162	239	480	201	162	232	23	

BRD-20

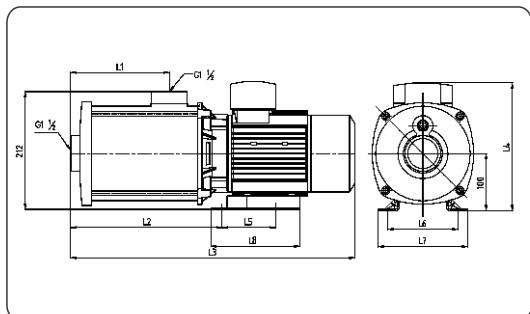


Horizontal Multistage Pumps

Dimension & Weight Details

BRM - 8

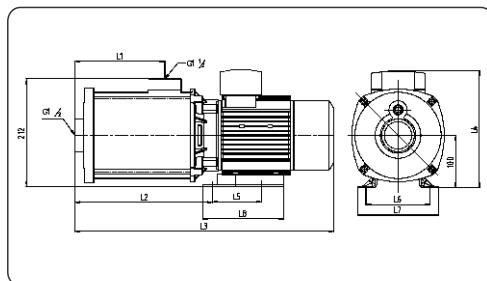
Suc. x Del.: 1½" x 1½"



Model	Dimensions(mm)														Weight (kg)		
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
BRM 8-10	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	13.3
BRM 8-20	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	15.3
BRM 8-30	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	17.4
BRM 8-40	132	230	462	225	96	126	160	160	132	230	505	245	140	160	195	170	20.4
BRM 8-60	162	260	492	225	96	126	160	160	162	260	535	245	140	160	195	170	25
BRM 8-70	192	290	565	245	140	160	195	170	192	290	565	245	140	160	195	170	25.3

BRM - 12

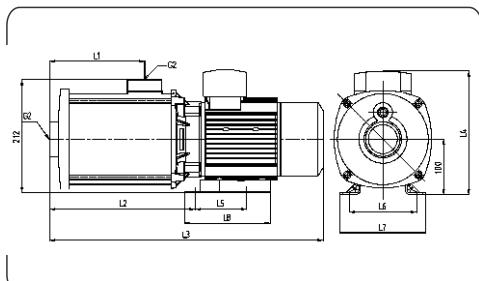
Suc. x Del.: 1½" x 1½"



Model	Dimensions(mm)														Weight (kg)		
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
BRM 12-10	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	15.3
BRM 12-20	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	16.9
BRM 12-30	102	200	432	225	96	126	160	160	102	200	475	245	140	160	195	170	23.1
BRM 12-40	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	23.9
BRM 12-50	162	260	530	245	140	160	195	170	162	260	535	245	140	160	195	170	29

BRM - 16

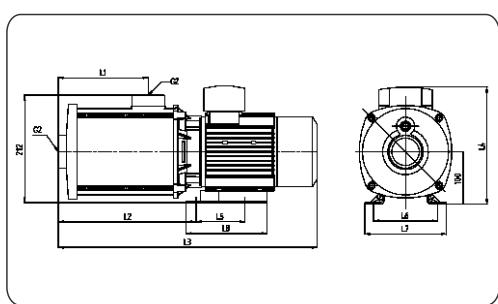
Suc. x Del.: 1½" x 1½"



Model	Dimensions(mm)														Weight (kg)		
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
BRM 16-10	87	185	416	225	96	126	160	160	87	185	416	225	96	126	160	160	16.3
BRM 16-20	87	185	416	225	96	126	160	160	87	185	460	245	140	160	195	170	23.3
BRM 16-30	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	28
BRM 16-40	177	275	550	245	140	160	195	170									

BRM - 20

Suc. x Del.: 2" x 2"



Model	Dimensions(mm)														Weight (kg)		
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
BRM 20-10	87	185	416	225	96	126	160	160	87	185	416	225	96	126	160	160	16.3
BRM 20-20	87	185	416	225	96	126	160	160	87	185	460	245	140	160	195	170	23.3
BRM 20-30	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	28
BRM 20-40	177	275	550	245	140	160	195	170									