

H₂O Series CENTRIFUGAL End-suction Pumps

H₂O Series CENTRIFUGAL End-suction Pumps

Design Features

- Top centerline discharge with foot supported casing.
 - Ease of installation.
 - Simplifies piping layout.
 - Reduces problems associated with piping strain.
- Self-venting design eliminates the need for automatic air release valve.
- Rear pullout design supplied as standard with spacer coupling.
 - Ease of maintenance, eliminates disturbing driver or piping when removing rotating element.
- Hydraulically balanced impeller extends bearing life and assures smoother operation.
- Available in electric motor or diesel engine driven configuration.

Performance

Capacity upto 600 m³/h (2900 USgpm)
Head upto 170 m (800 feet)
Speed upto 2950 rpm (3550 rpm)

Pump sizes

DN 25 upto DN 200 (1" upto 8") discharge

Casing pressure

upto 16 bar (235 PSI)

Liquids

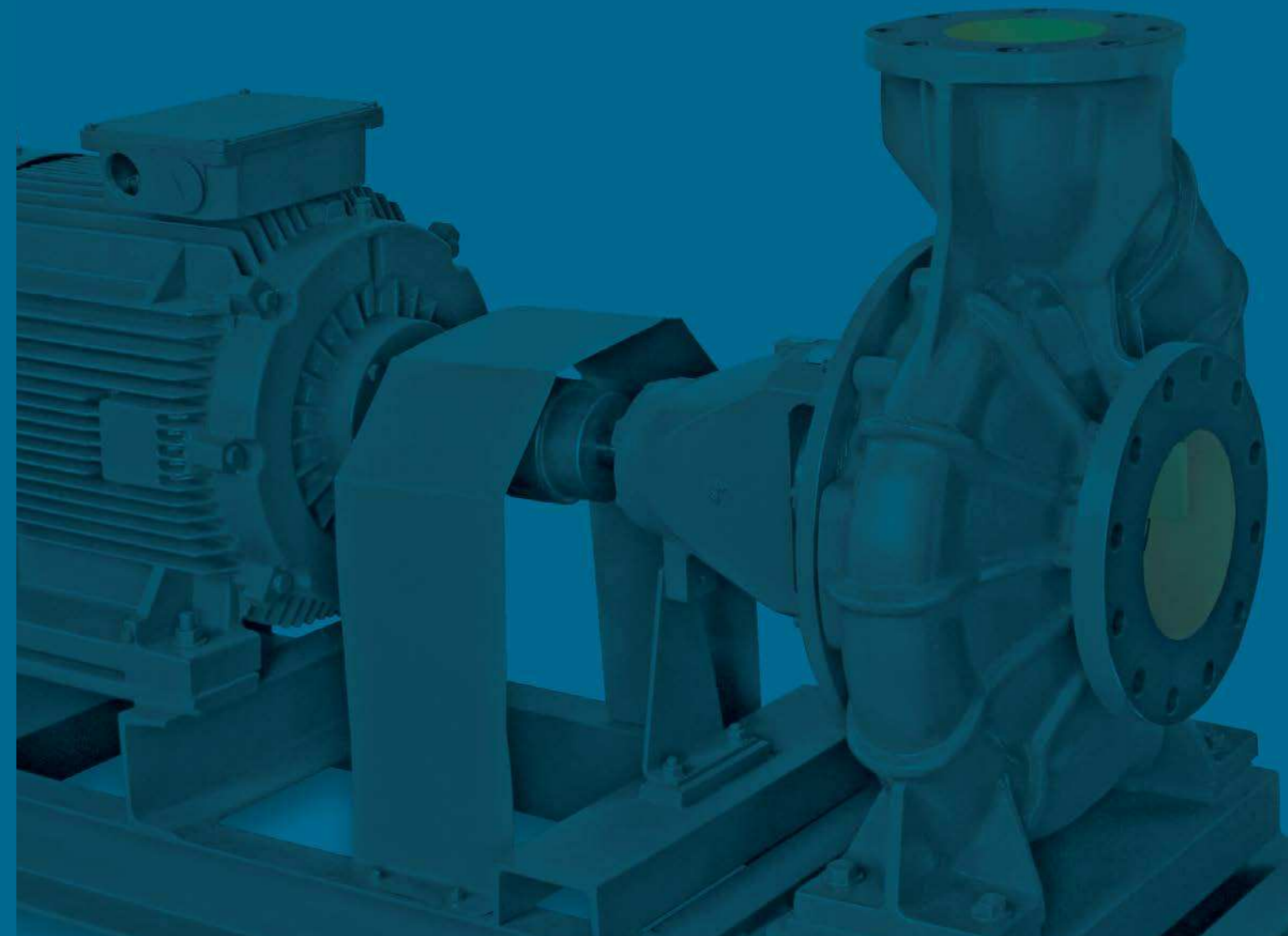
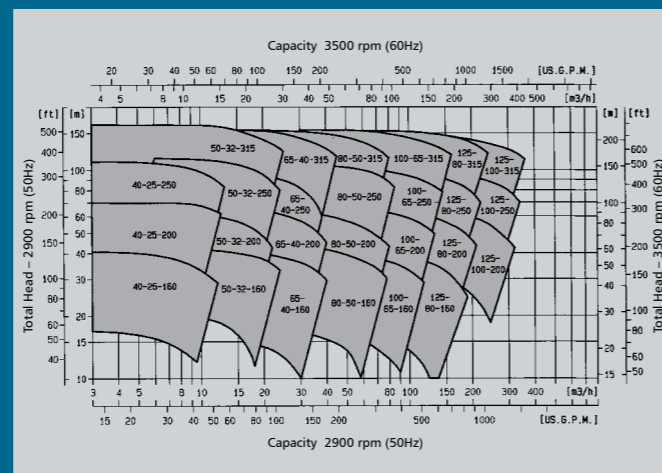
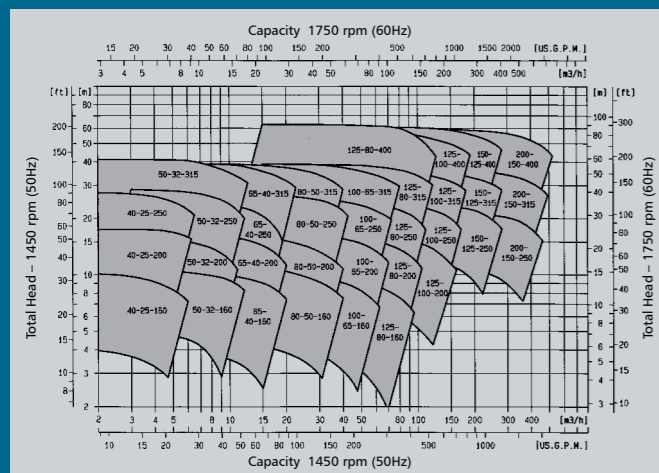
Clean and slightly contaminated fluids
(without bigger solids)
Cold and hot water
Condensate and DM water
Oil, brine, caustic and acid suspensions

Materials

Volute Casing : CI FG 260, SS 304, SS 316
Impeller : CI FG 260, SS 304, SS 316, Bronze

Shaft Sealing Pump

Pump supplied with either gland packing or mechanical seals. Stuffing box is designed with connections for sealing and flushing liquid. Mechanical seal of various makes, balanced or unbalanced type can be fitted easily in stuffing box.



Versatile, really robust and definitely reliable

MBH[®]
PUMPS

mbh pumps (gujarat) pvt. ltd.
Plot No. 14, G.I.D.C. Indl. Estate,
Naroda, Ahmedabad - 382 330, India.
+91-79-2282 3066, 2282 1018
marketing@mbhpumps.com
exports@mbhpumps.com
www.mbhumps.com



IRCLASS
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marq 09/2016



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*Specifications and performance are subject to change without prior notice.
Images used are for illustration purpose only.*



MBH Fire Fighting System



MBH HVAC System



MBH Pumps offers state-of-the-art fire pumpset with diesel engine or motor driven horizontal end-suction pump. These pumpsets are typically used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems.

Pumps have a discharge upto 2900 USgpm and the head range upto 230 psi. These fire pumpsets meet or exceed the requirements of NFPA20.

Installations of these pumpsets would ensure the safety of human life, buildings, expensive plants and equipments. The fire pumpset typically consists of the following equipments:

- Pump
- Motor **OR** Diesel engine assembled with cooling, fuel, battery and exhaust system
- Fire pump controller
- Suction and discharge gauge
- Air relief valve
- Common base plate

* For your jockey pump requirements kindly contact at marketing@mbhpumps.com

Strength, efficiency and reliability are the hall mark of MBH End-suction Centrifugal Pump range. These powerful single stage pumps are design to work hard in most demanding building and industrial environments, where only the fittest pumps can survive in long run. All pumps are designed to comply **DIN 24255** and **ISO 2858**. Over the years the pumps have been carefully optimized and refined to offer unsurpassed energy efficiency and performance.

The impressive range of MBH End-suction Pumps is compatible with an array of application areas including

- Water Intake
- HVAC
- Cooling Towers
- General Process Water
- Cold and hot Water Transfer
- Fire Fighting
- Industrial liquid transfer
- Filter systems, ultra filtration

Pumps supplied with special HVAC controller as well as VFD.

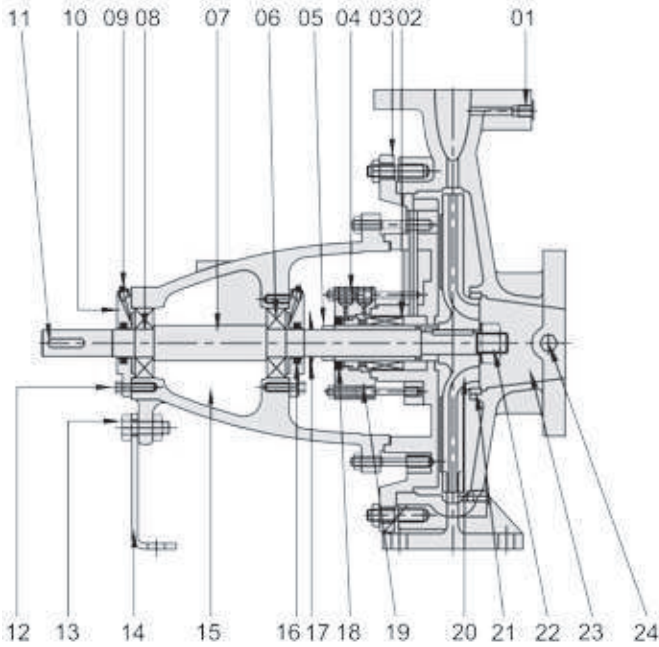
Variety of Features for Pump Controller

- Wall Mounted/Floor Mounted Enclosure
- Internal Circuit breaker with door interlock
- System can control 1-6 pumps, extendable upto 8 Pumps
- Microprocessor based pump logic controller
- Embedded logic to prevent pump hunting, pump flow surges and motor overheating
- Manual and Automatic System control (Manual/Off/Auto)
- Alpha Numerical Alarm and Fault data login Remote start/stop mode
- Real time Clock
- Each Pump operational data log
- Controllers available with VFD's, with/without bypass starter and single/multiple DPT's. VFD inside the enclosure with/without bypass starter and single/multiple DPT's.

Customised panels on request.

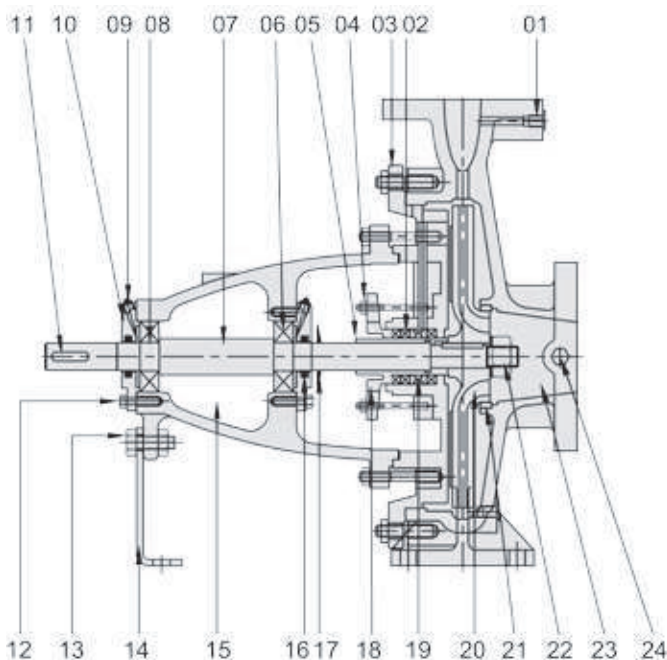
Centrifugal Backpull Out Pumps

Cross Section with Mech. Seal



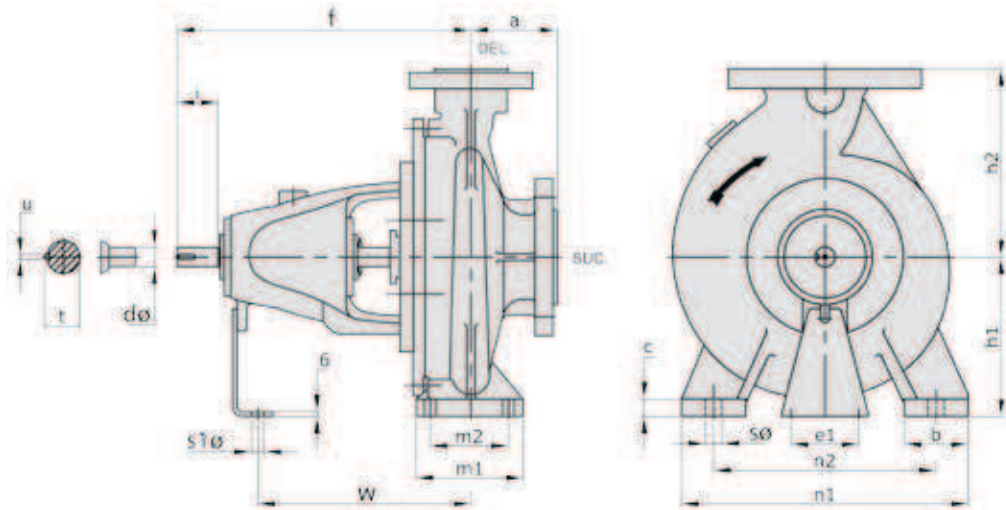
NO.	DESCRIPTION	MATERIAL
1	1/4" BSP PLUG WITH 'O' RING	S.S. +Ni. RUBBER
2	MECH. SEAL	AS PER REQ.
3	STUFFING BOX COVER	C.I. IS-210-FG260
4	STUD WITH NUT FOR GLAND PLATE	S.S.
5	SHAFT SLEEVE	SS-410
6	BALL BEARING (D.E.)	STD.
7	PUMP SHAFT	SS-410
8	BALL BEARING (N.D.E.)	STD.
9	1/8" BSP GREASE NIPPLE	S.S.
10	BEARING COVER	C.I. IS-210-FG260
11	COUPLING KEY	S.S.
12	HEX BOLT FOR BBC	S.S.
13	HEX BOLT FOR SUPPORT FOOT	S.S.
14	SUPPORT FOOT	M.S.
15	BEARING HOUSING	C.I. IS-210-FG260
16	OIL SEAL FOR BBC	NI. RUBBER
17	RUBBER DEFLECTOR	NITRILE RUBBER
18	OIL SEAL FOR GLAND PLATE	NI. RUBBER
19	GLAND PLATE	C.I. IS-210-FG260
20	IMPELLER	C.I. IS-210-FG260
21	NECK RING	C.I. IS-210-FG260
22	IMPELLER NUT	S.S.
23	VOLUTE	C.I. IS-210-FG260
24	1/4" BSP PLUG WITH 'O' RING	S.S. +NI. RUBBER

Cross Section with Gland Packing



NO.	DESCRIPTION	MATERIAL
1	1/4" BSP PLUG WITH 'O' RING	S.S. +NI. RUBBER
2	GLAND PACKING	AS PER REQ.
3	STUFFING BOX COVER	C.I. IS-210-FG260
4	STUD WITH NUT FOR GLAND PLATE	S.S.
5	SHAFT SLEEVE	SS-410
6	BALL BEARING (D.E.)	STD.
7	PUMP SHAFT	SS-410
8	BALL BEARING (N.D.E.)	STD.
9	1/8" BSP GREASE NIPPLE	S.S.
10	BEARING COVER	C.I. IS-210-FG260
11	COUPLING KEY	S.S.
12	HEX BOLT FOR BBC	S.S.
13	HEX BOLT FOR SUPPORT FOOT	S.S.
14	SUPPORT FOOT	M.S.
15	BEARING HOUSING	C.I. IS-210-FG260
16	OIL SEAL FOR BBC	NI. RUBBER
17	RUBBER DEFLECTOR	NITRILE RUBBER
18	GLAND COVER	C.I. IS-210-FG260
19	LANTERN RING	PLASTIC
20	IMPELLER	C.I. IS-210-FG260
21	NECK RING	C.I. IS-210-FG260
22	IMPELLER NUT	S.S.
23	VOLUTE	C.I. IS-210-FG260
24	1/4" BSP PLUG WITH 'O' RING	S.S. +NI. RUBBER

GA Drawing



All Dimension are in mm

MODEL	Unit No.	Sue.	Del.	Pump Mounting Dimension													Shaft End					Weight in KG.
				a	f	h1	h2	b	c	m1	m2	n1	n2	s0	e1	s10	w	d0	l	t	u	
32/13	1	50	32	80	360	112	140	50	14	100	70	190	140	14	100	14	267	24	50	27	8	30
40/13	1	65	40	80	360	112	140	50	14	100	70	210	160	14	100	14	267	24	50	27	8	56
50/13	1	65	50	100	360	132	160	50	14	100	70	240	190	14	110	14	267	24	50	27	8	36
65/13	1	80	65	100	360	160	180	65	14	125	95	280	212	14	110	14	267	24	50	27	8	44
32/16	1	50	32	80	360	132	160	50	14	100	70	240	190	14	100	14	267	24	50	27	8	37
40/16	1	65	40	80	360	132	160	50	14	100	70	240	190	14	100	14	267	24	50	27	8	38
50/16	1	65	50	100	360	160	180	50	14	100	70	265	212	14	110	14	267	24	50	27	8	44
65/16	1	80	65	100	360	160	200	65	14	125	95	280	212	14	110	14	267	24	50	27	8	51
80/16	1	100	80	125	360	180	225	65	14	125	95	320	280	18	110	14	267	24	50	27	8	59
32/20	1	50	32	80	360	160	180	50	14	100	70	240	190	14	110	14	267	24	50	27	8	47
40/20	1	65	40	100	360	160	180	50	14	100	70	265	212	14	110	14	267	24	50	27	8	49
50/20	1	65	50	100	360	160	200	50	14	100	70	265	212	14	110	14	267	24	50	27	8	53
65/20	1	80	65	100	360	180	225	65	14	125	95	320	280	14	110	14	267	24	50	27	8	58
32/26	1	50	32	100	360	180	225	65	14	125	95	320	250	14	110	14	267	24	50	27	8	56
40/26	1	65	40	100	360	180	225	65	14	125	95	320	250	14	110	14	267	24	50	27	8	65
50/26	1	65	50	100	360	180	225	65	14	125	95	320	250	14	110	14	267	24	50	27	8	62
80/20	2	100	80	125	470	180	250	65	14	125	95	345	280	14	110	14	342	32	80	35	10	81
100/20	2	125	100	125	470	200	280	80	16	160	120	360	280	18	110	14	342	32	80	35	10	99
65/26	2	80	65	100	470	200	250	80	16	160	120	360	280	18	110	14	342	32	80	35	10	90
80/26	2	100	80	125	470	200	280	80	16	160	120	400	315	18	110	14	342	32	80	35	10	99
100/26	2	125	100	140	470	225	280	80	16	160	120	400	315	18	110	14	342	32	80	35	10	110
125/26	2	150	125	140	470	250	355	80	16	160	120	400	315	18	110	14	342	32	80	35	10	122
65/32	2	80	65	125	470	225	280	80	16	160	120	400	315	18	no	14	342	32	80	35	10	105
80/32	2	100	80	125	470	250	315	80	16	160	120	400	315	18	110	14	342	32	80	35	10	122
100/32	2	125	100	140	470	250	315	80	16	160	120	400	315	18	110	14	342	32	80	35	10	126
125/32	3	150	125	140	530	280	355	100	18	200	150	500	400	23	110	14	370	42	110	45	12	165
150/32	3	200	150	160	530	280	400	100	18	200	150	550	450	23	110	14	370	42	110	45	12	182
100/40	3	125	100	140	530	280	355	100	18	200	150	500	400	23	110	14	370	42	110	45	12	126
125/40	3	150	125	140	530	315	400	100	18	200	150	500	400	23	110	14	370	42	110	45	12	165
150/40	3	200	150	160	530	315	450	100	18	200	150	550	450	23	110	14	370	42	110	45	12	220

MODEL IDENTIFICATION

Example : PUMP MODEL MBH-32/13

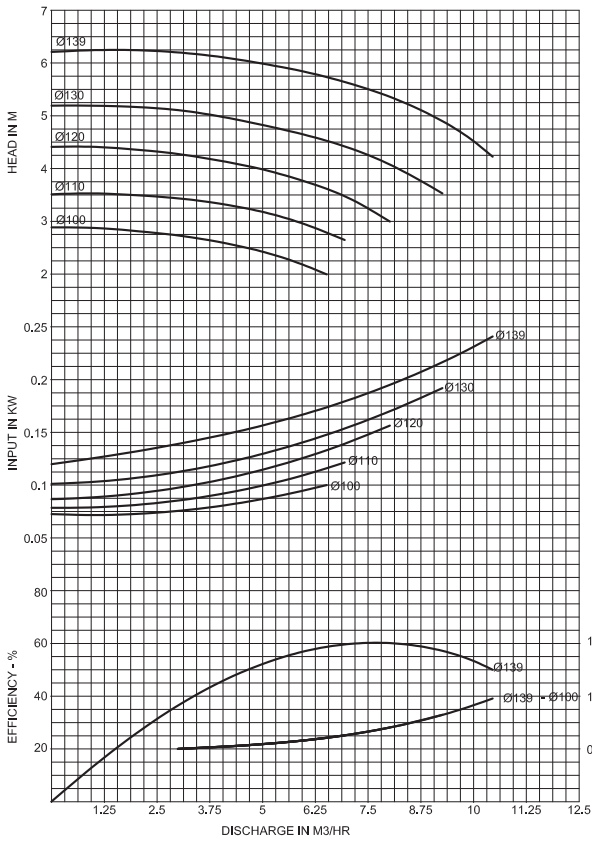
Example : PUMP MODEL MBH-50/16



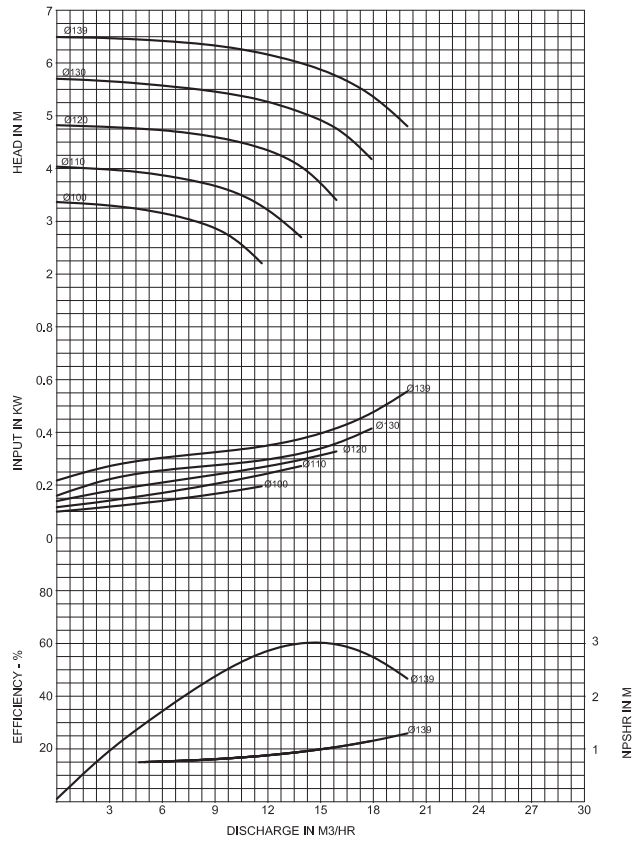
Centrifugal Backpull Out Pumps

Performance Curves • 1450 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

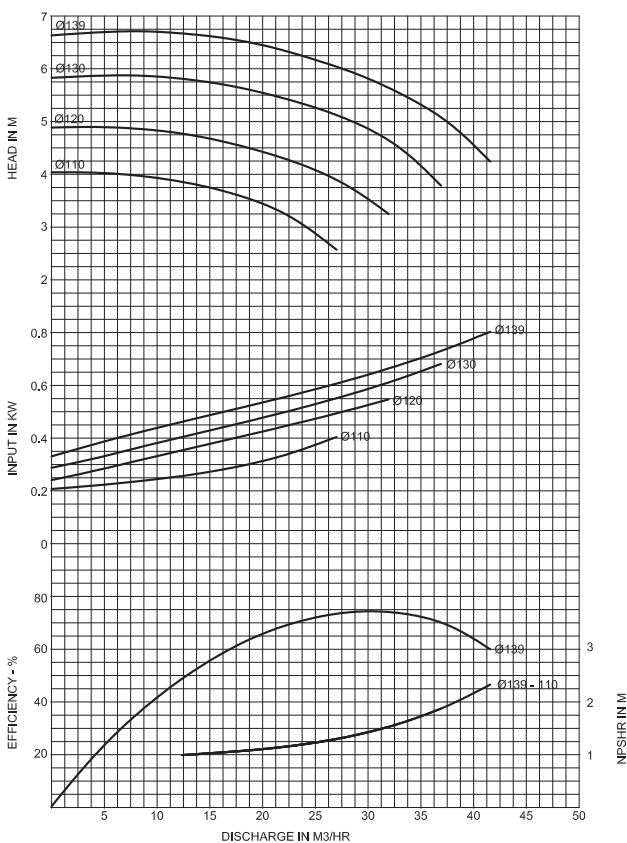
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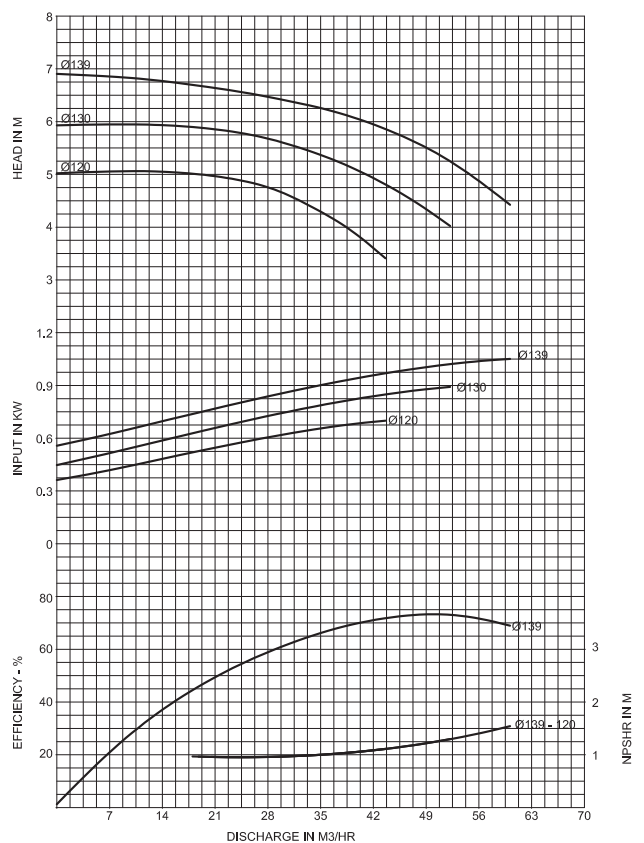
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Model : 50-13



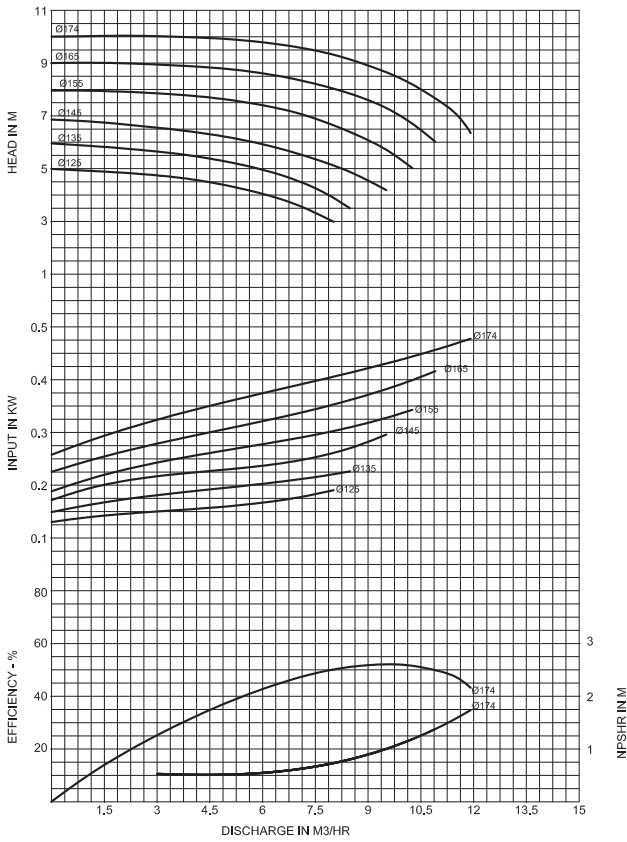
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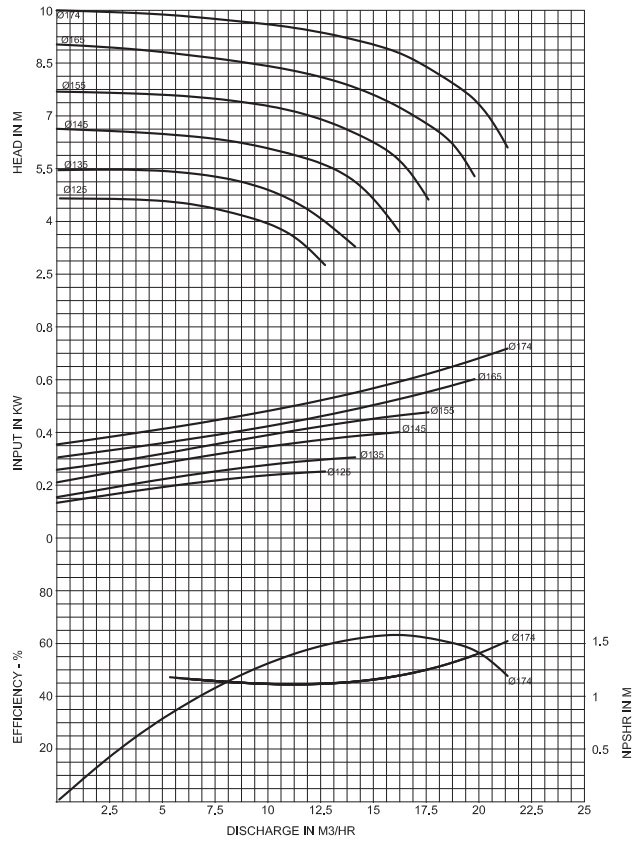
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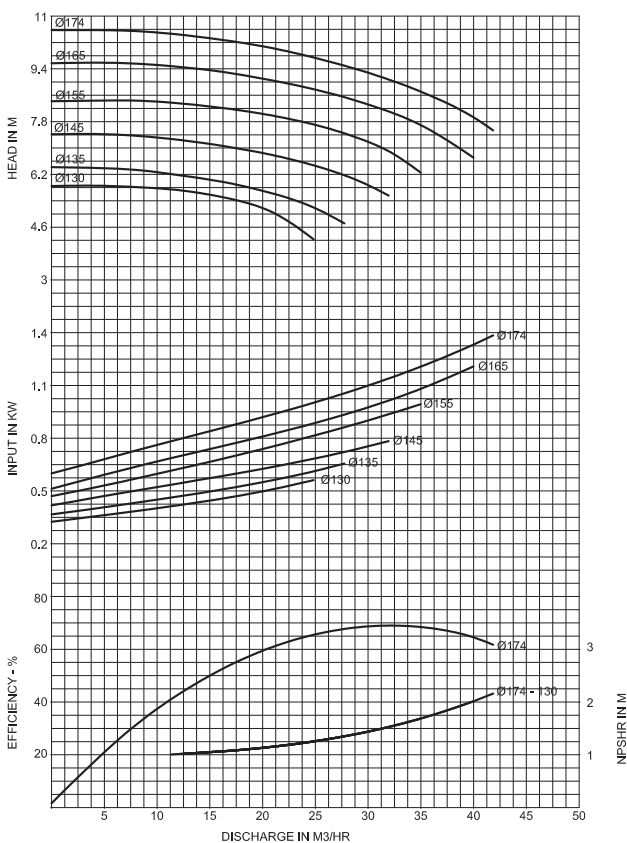
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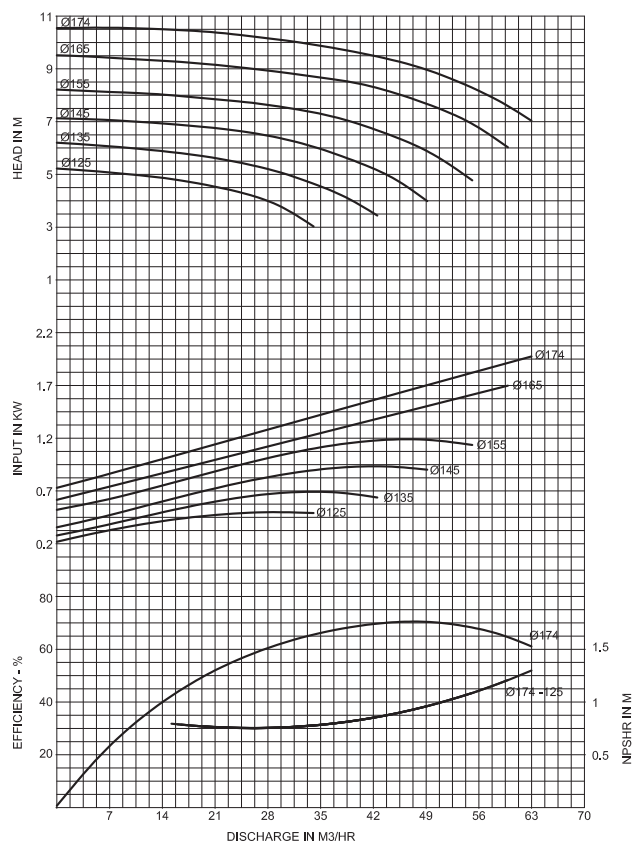
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Model : 50-16



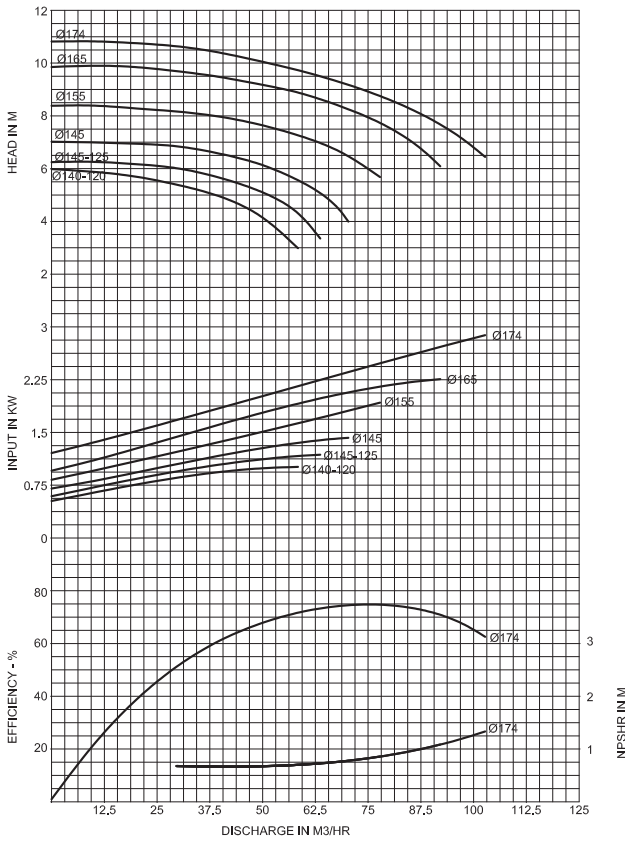
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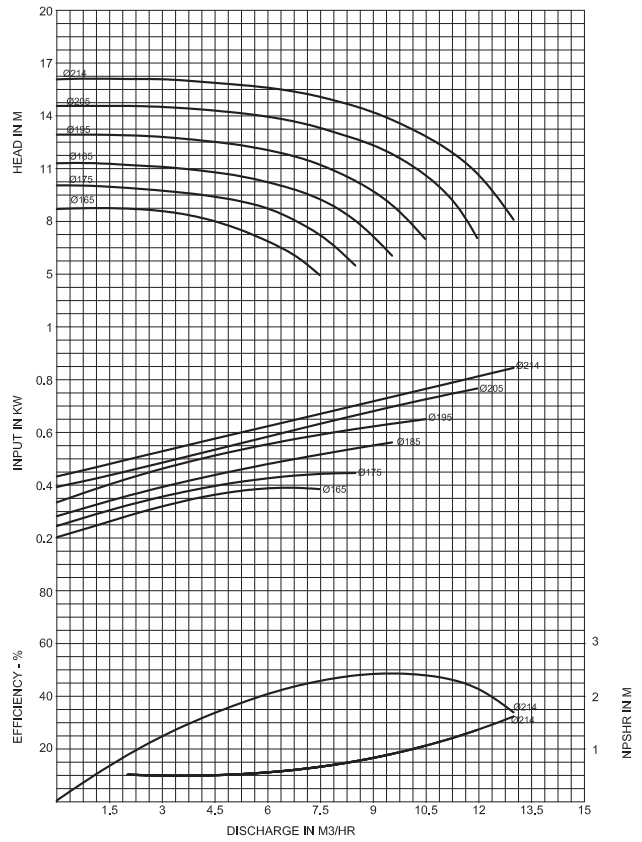
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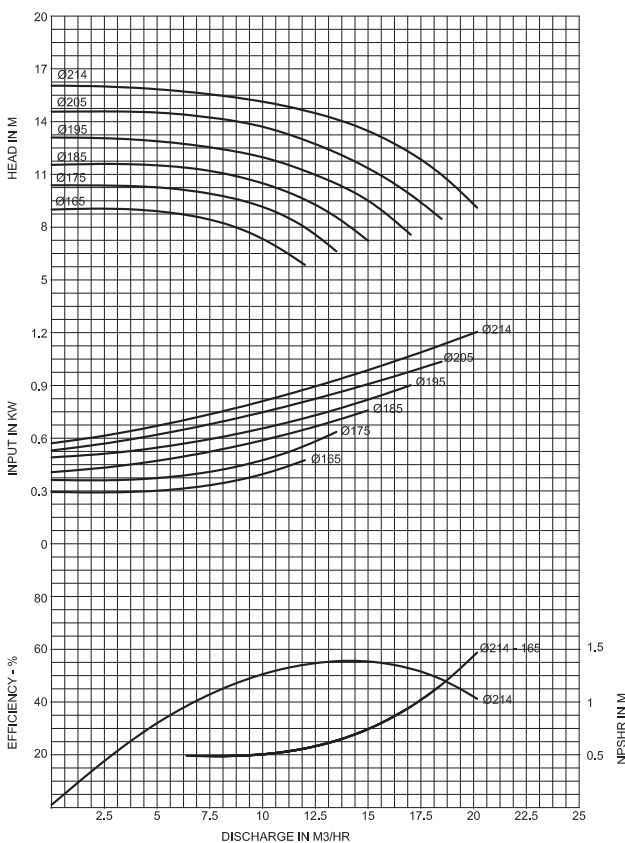
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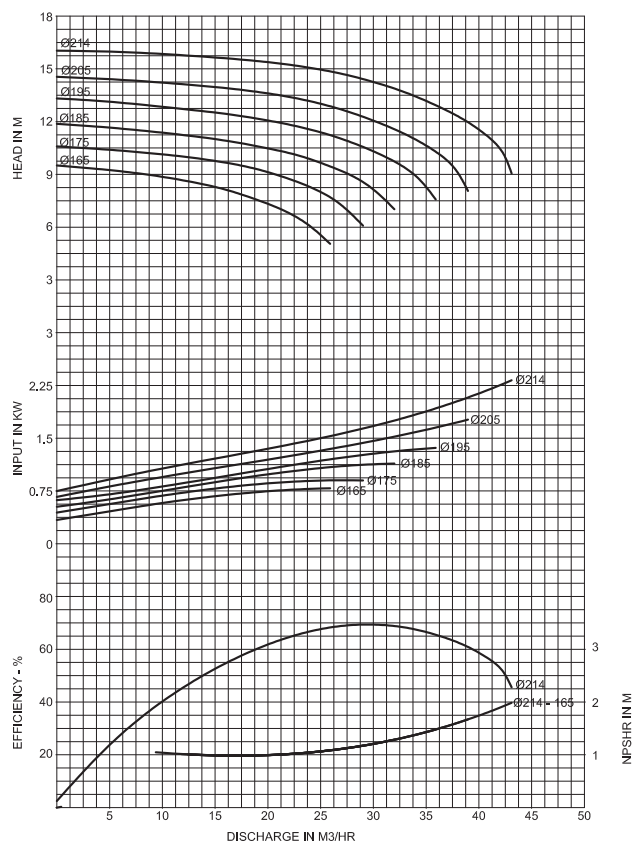
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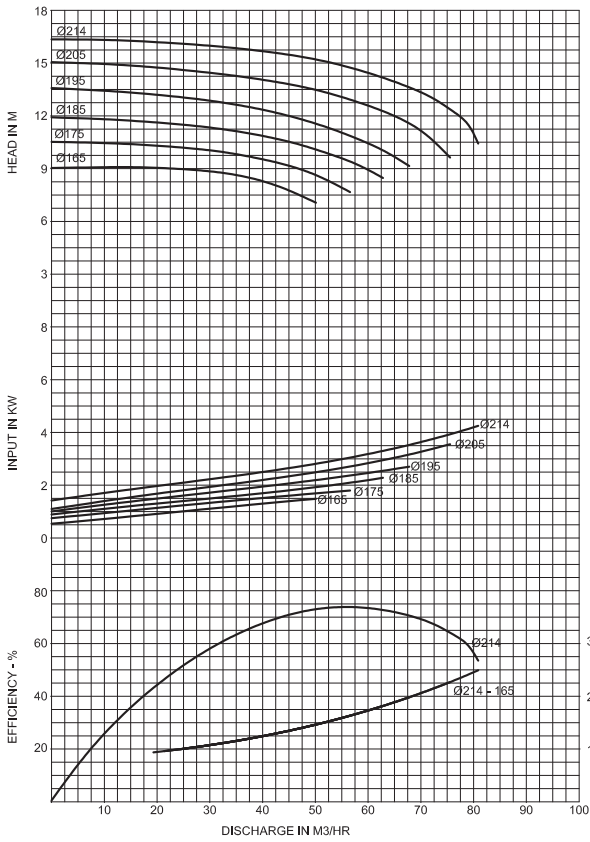
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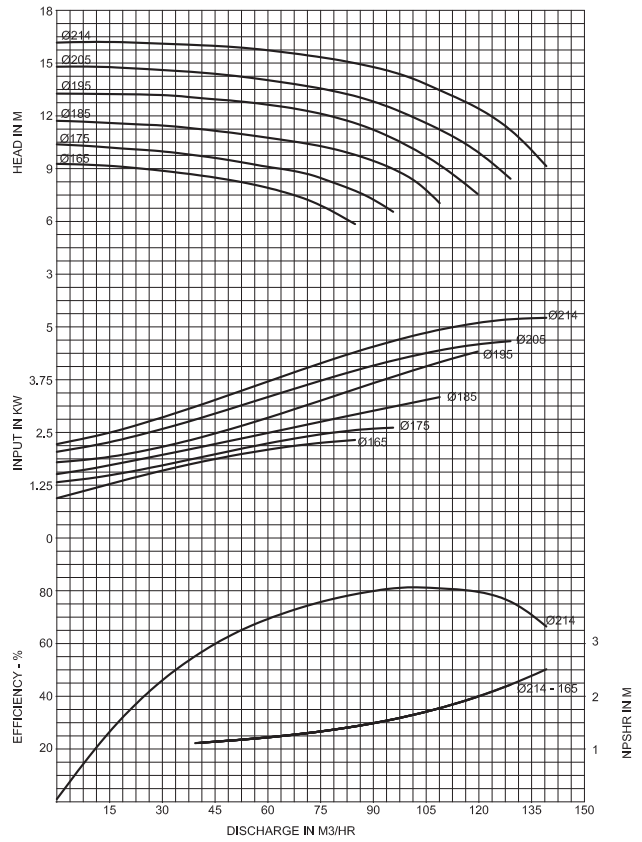
Centrifugal Backpull Out Pumps

Performance Curves • 1450 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

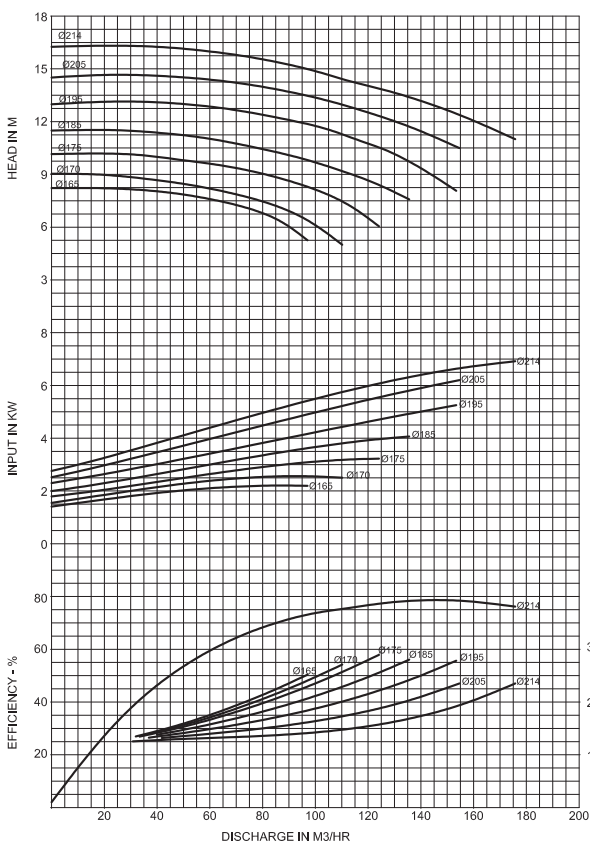
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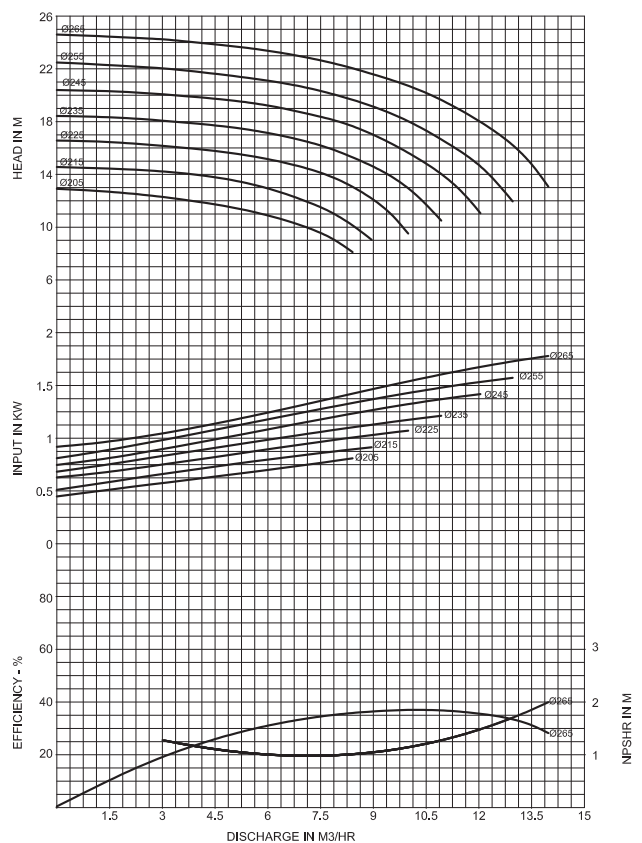
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Model : 100-20



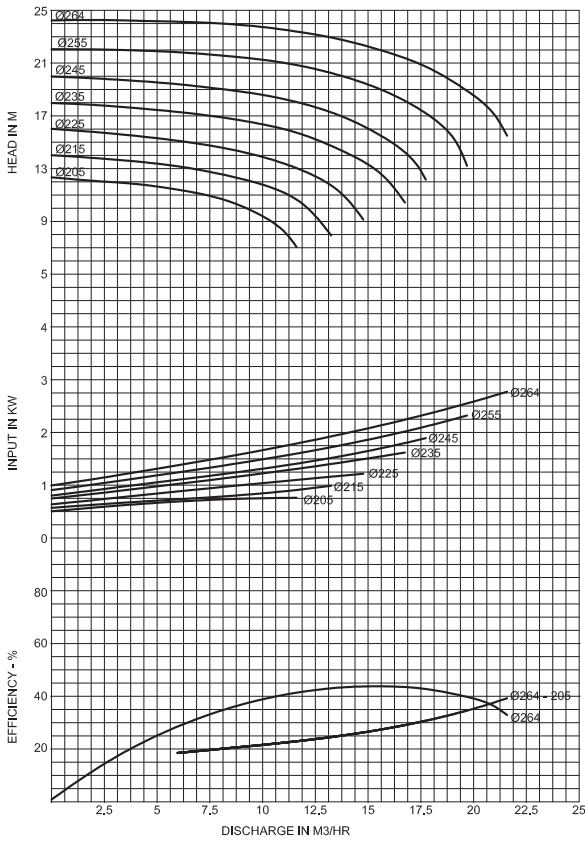
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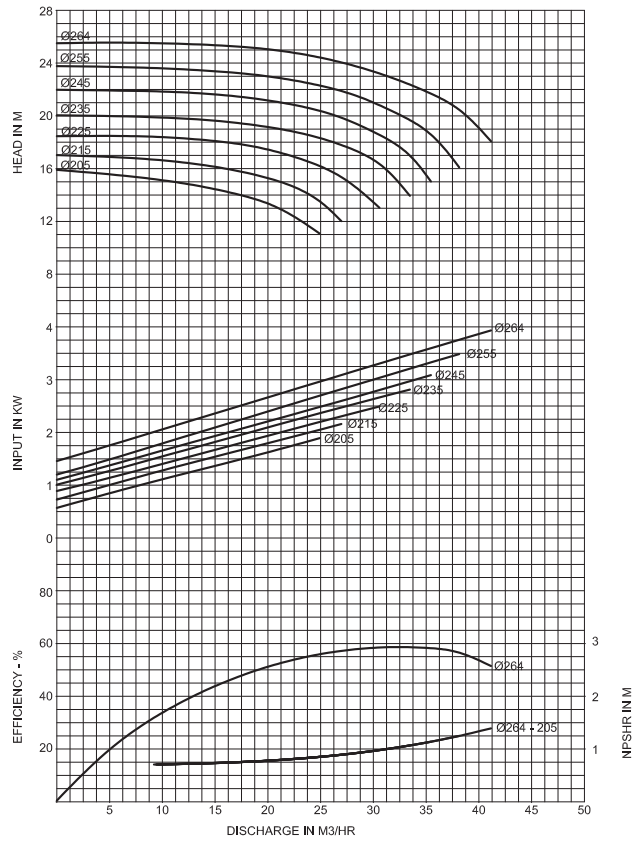
Centrifugal Backpull Out Pumps

Performance Curves • 1450 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

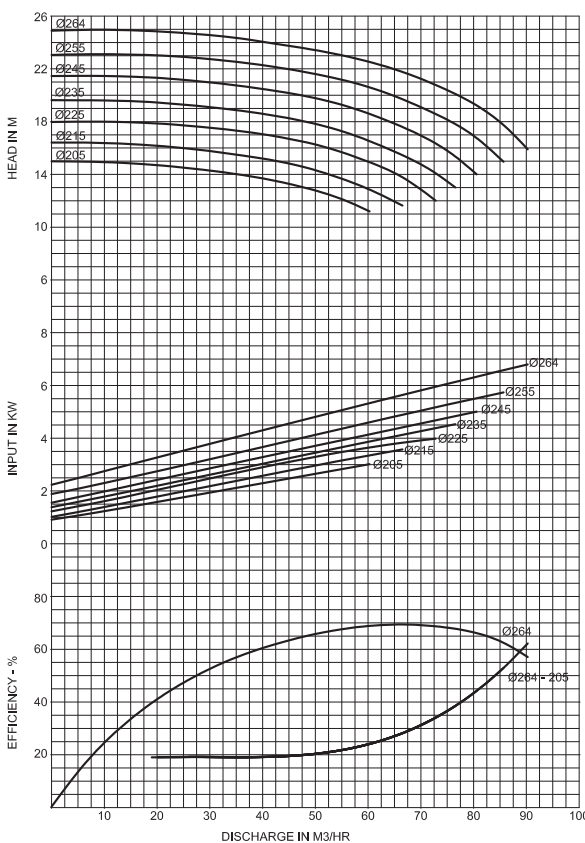
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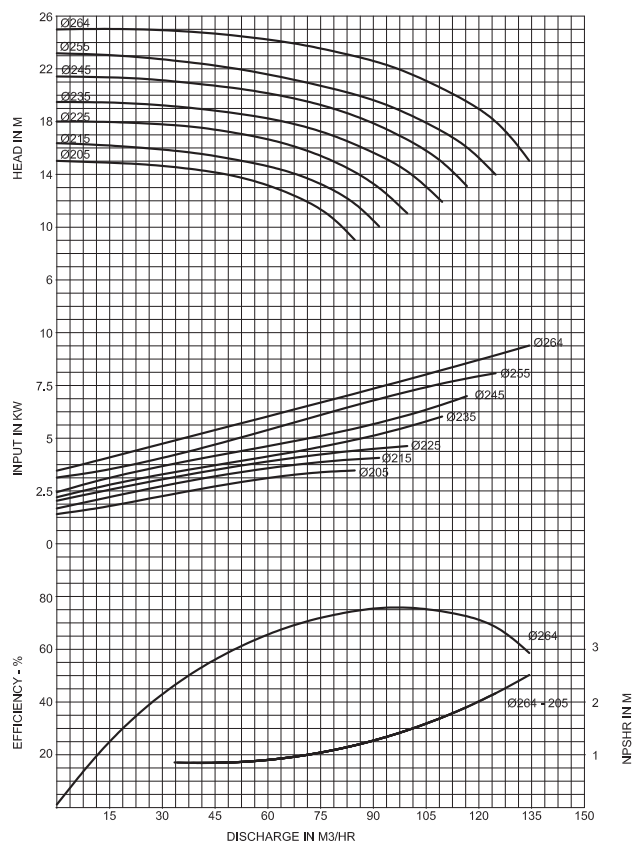
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Model : 65-26



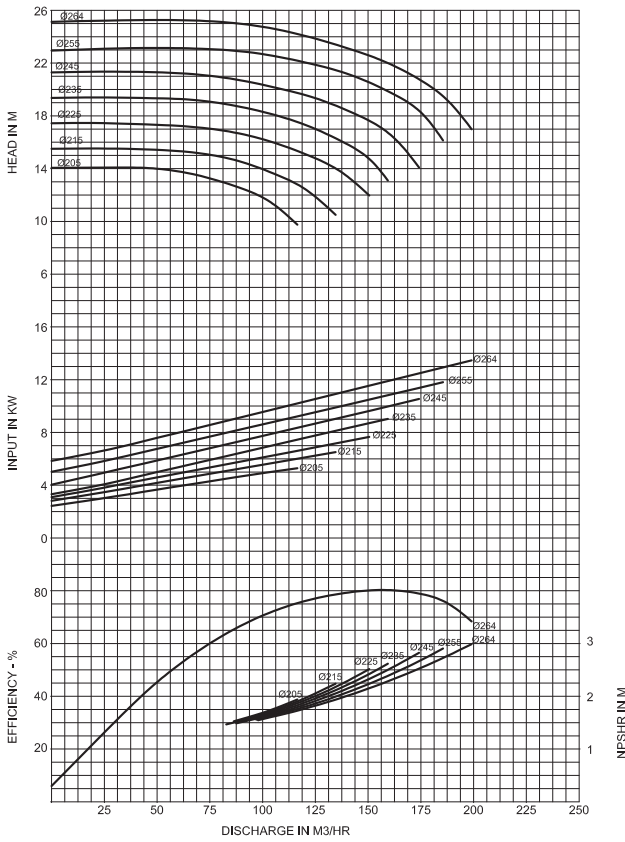
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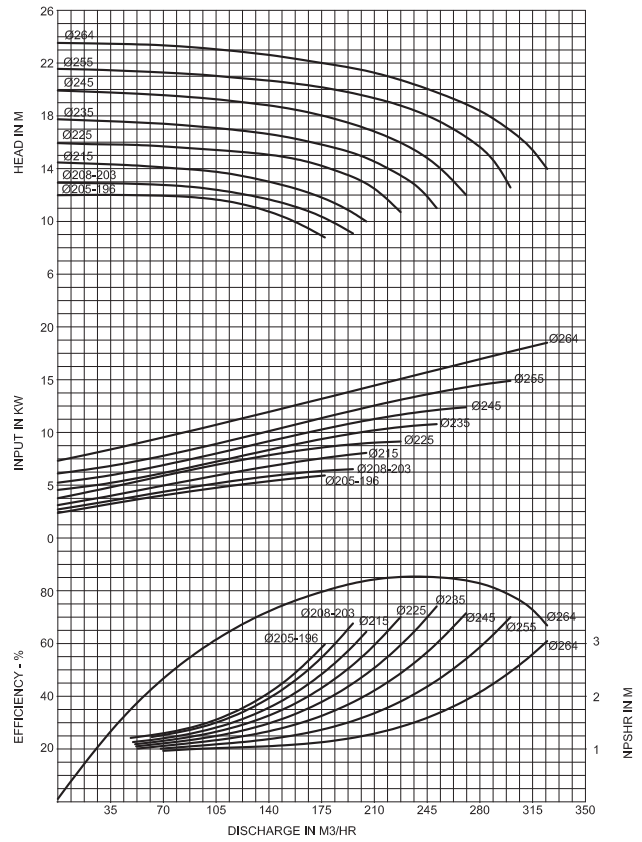
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Performance Curves • 1450 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

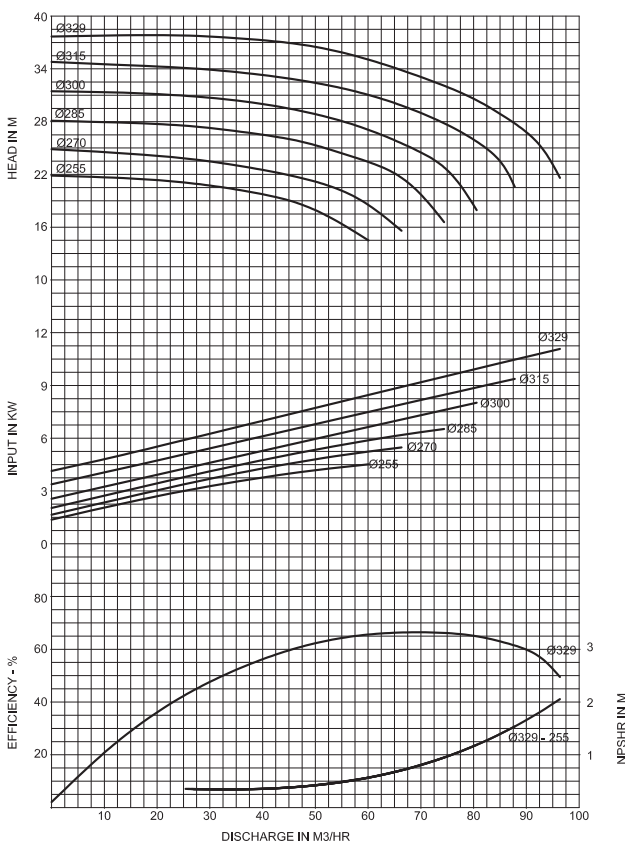
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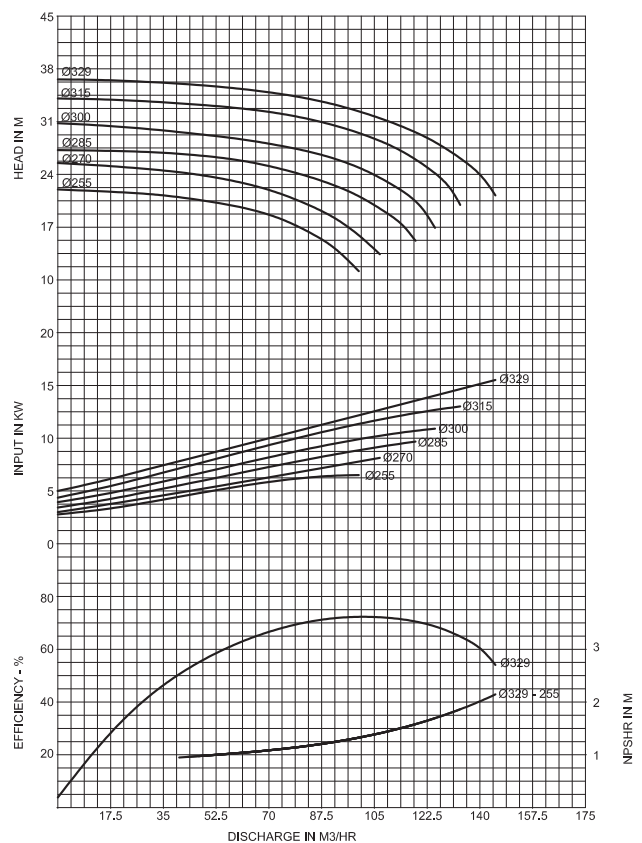
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Model : 65-32



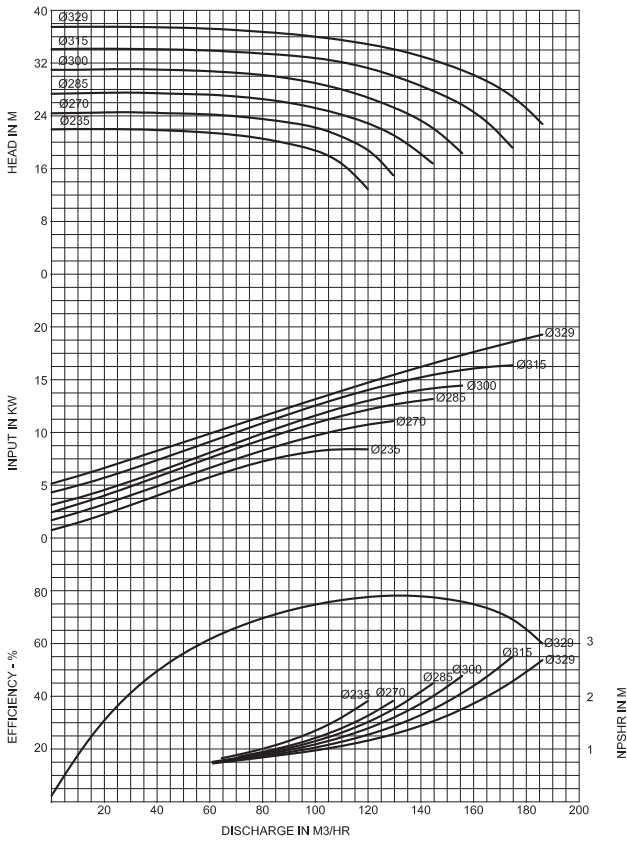
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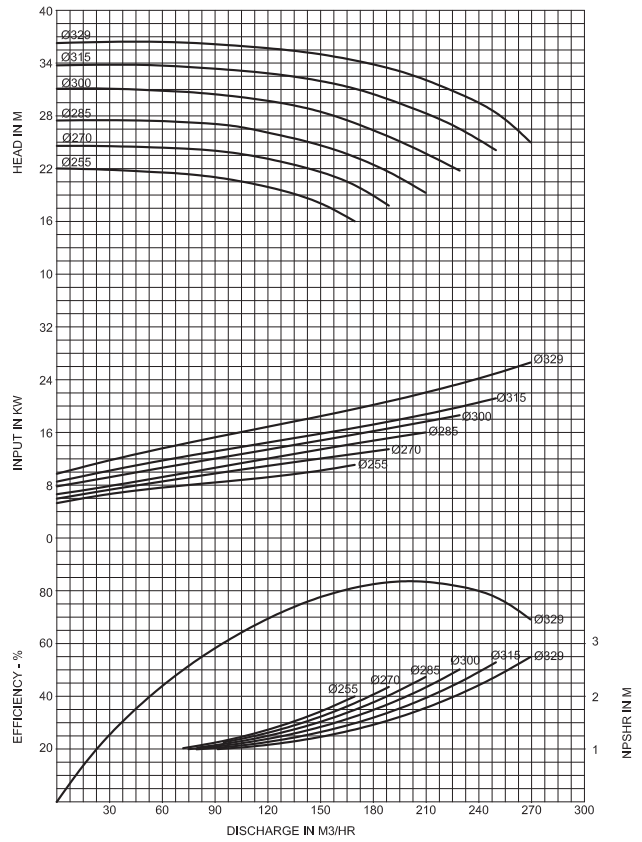
Centrifugal Backpull Out Pumps

Performance Curves • 1450 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

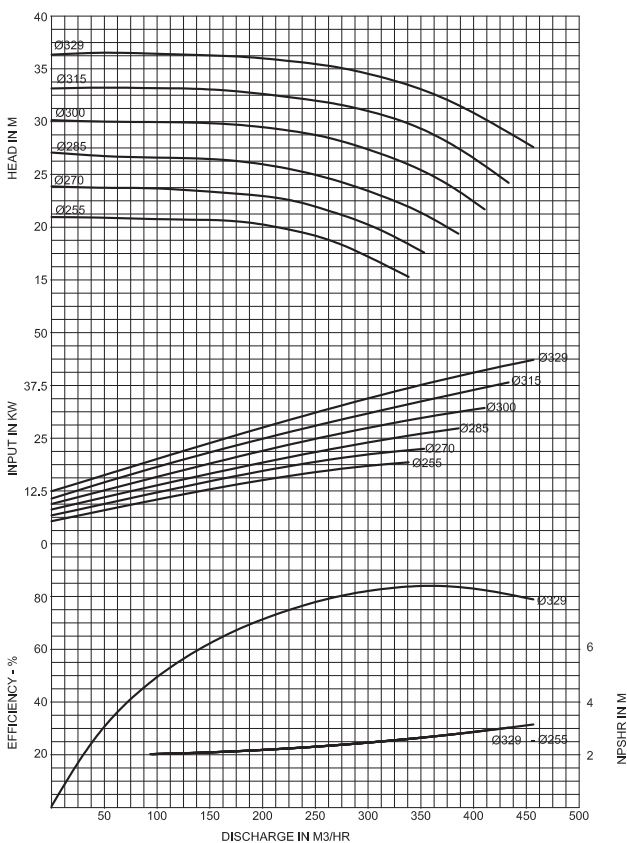
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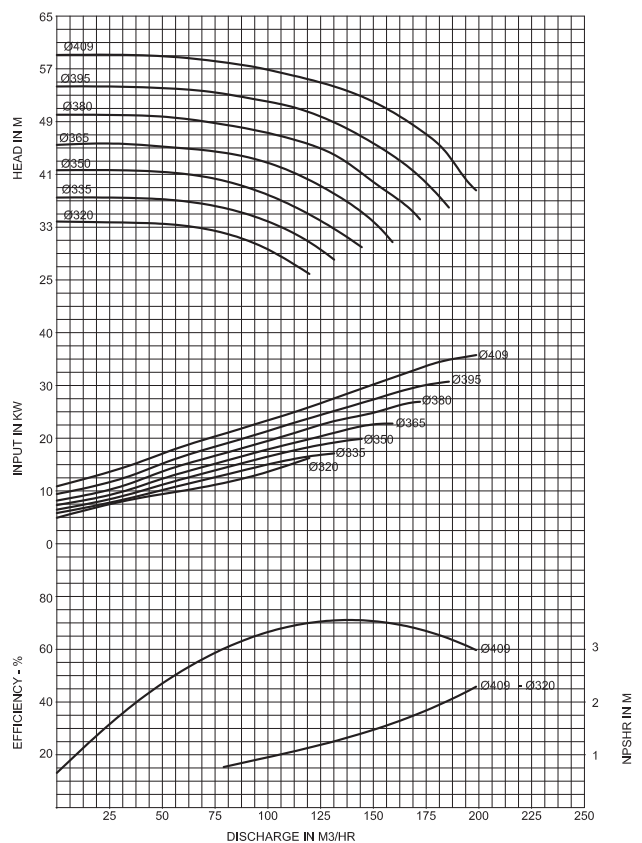
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Model : 150-32



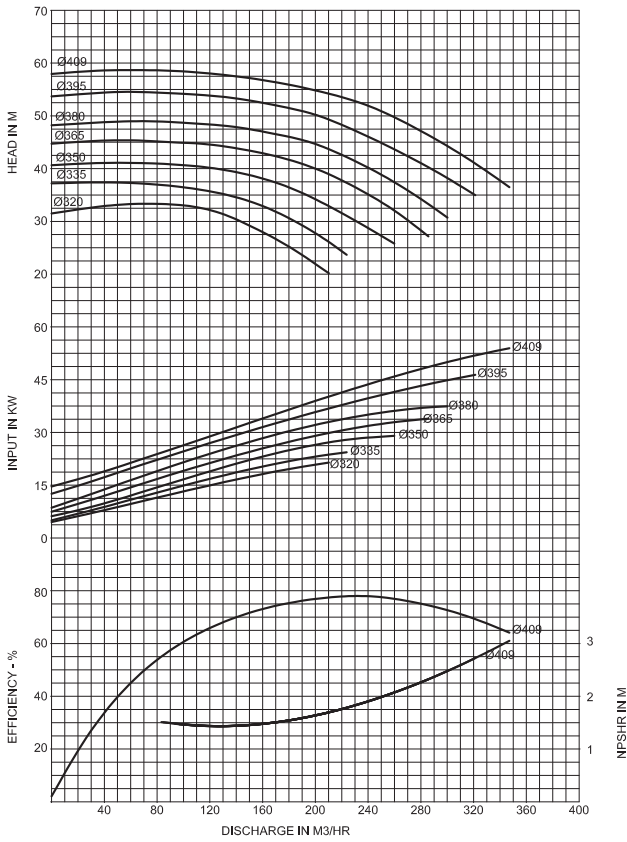
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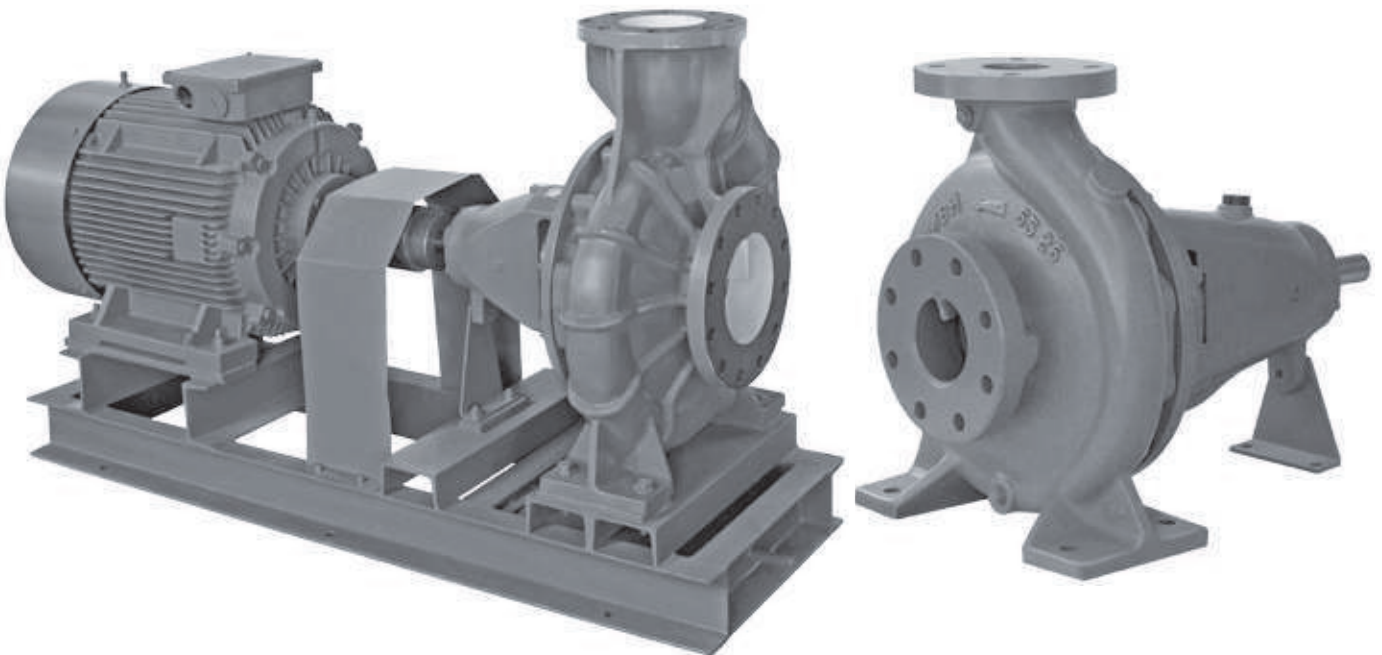
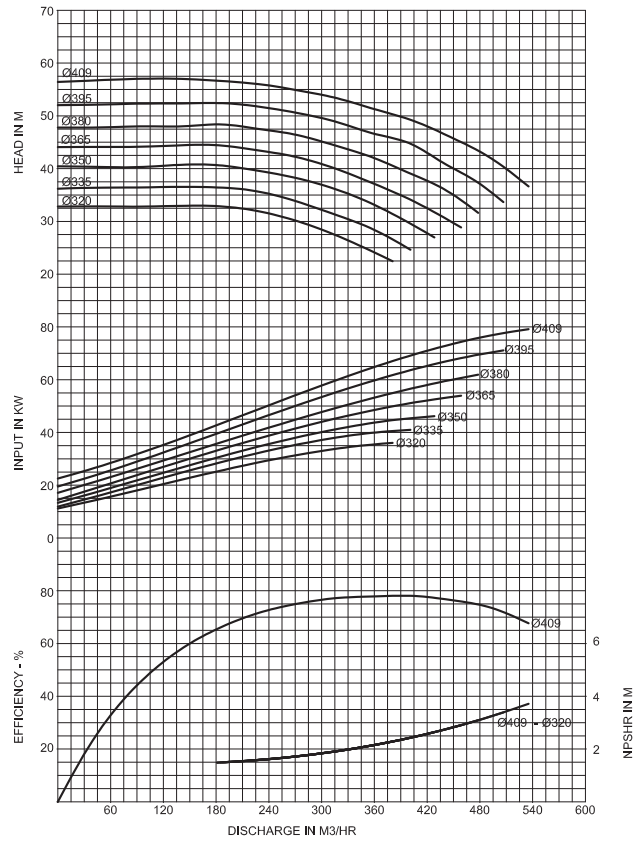
Centrifugal Backpull Out Pumps

Performance Curves • 1450 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

Model : 125-40



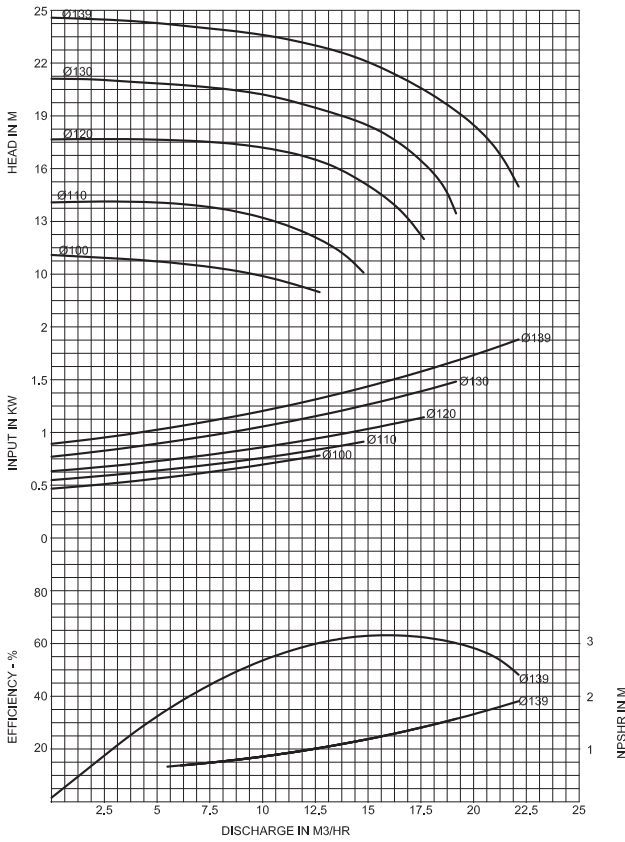
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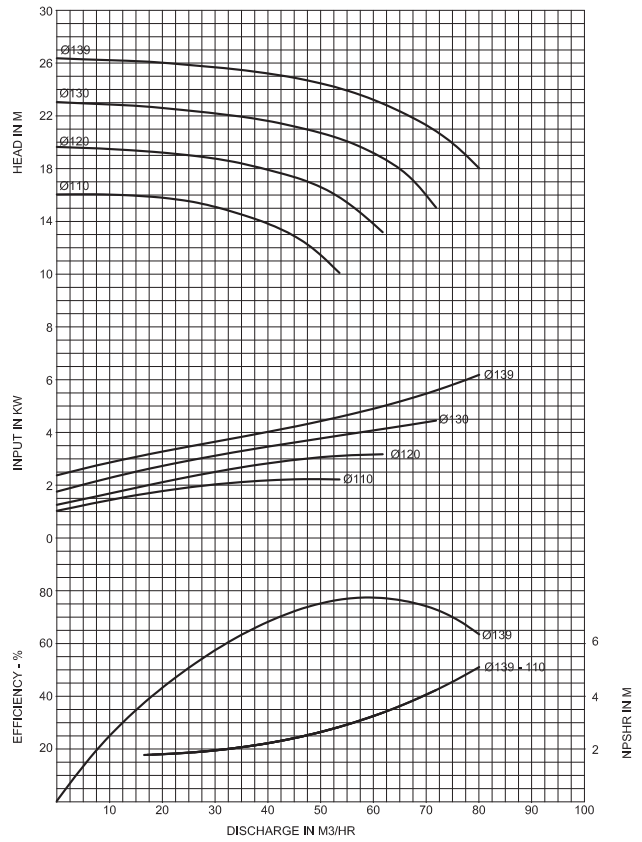
Centrifugal Backpull Out Pumps

Performance Curves • 2900 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

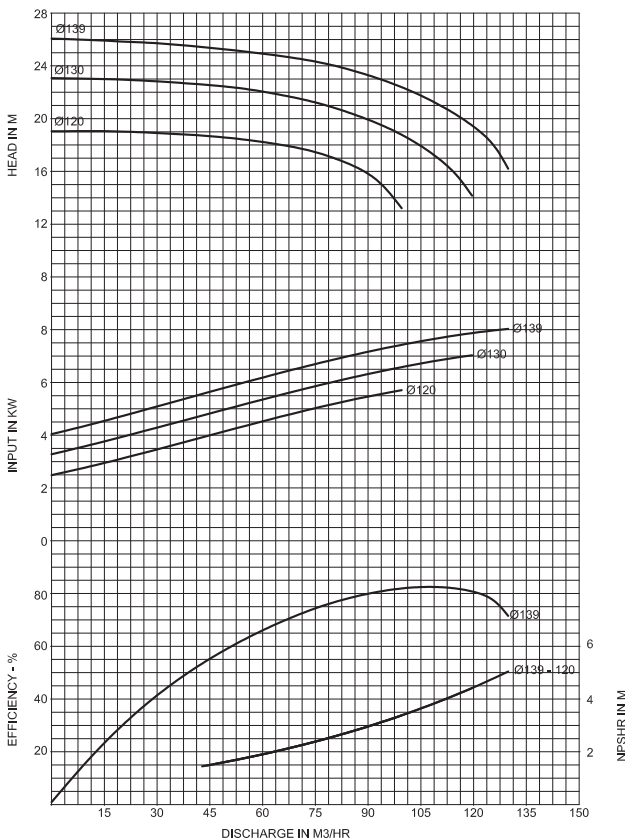
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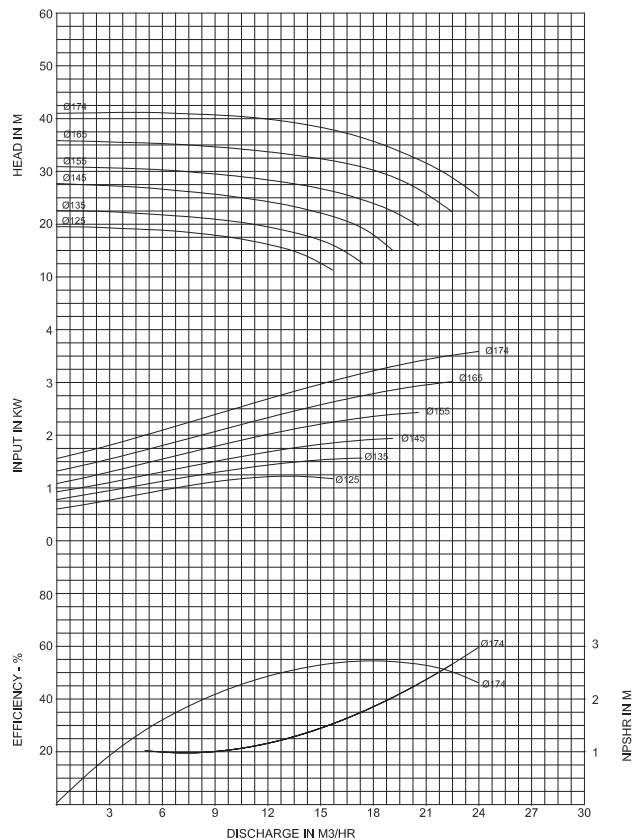
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Model : 65-13



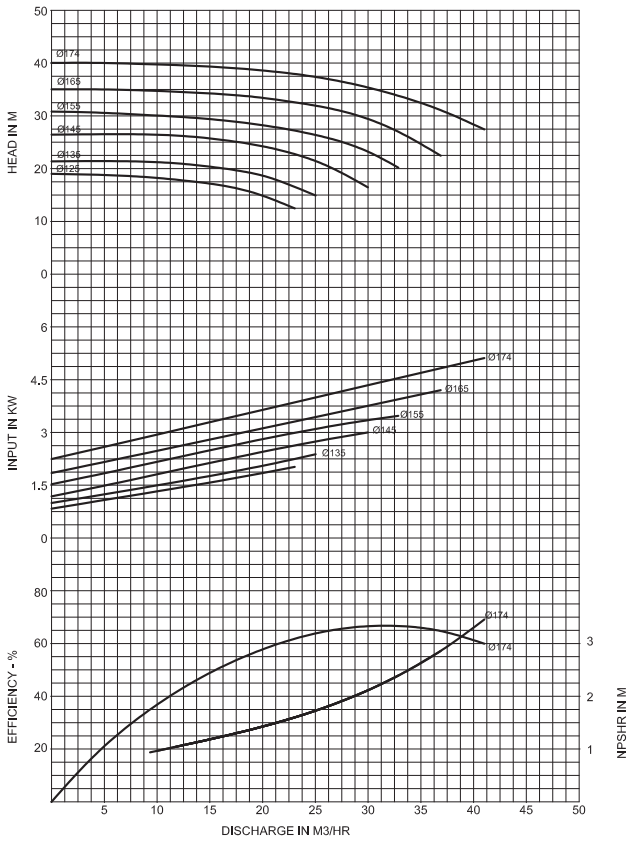
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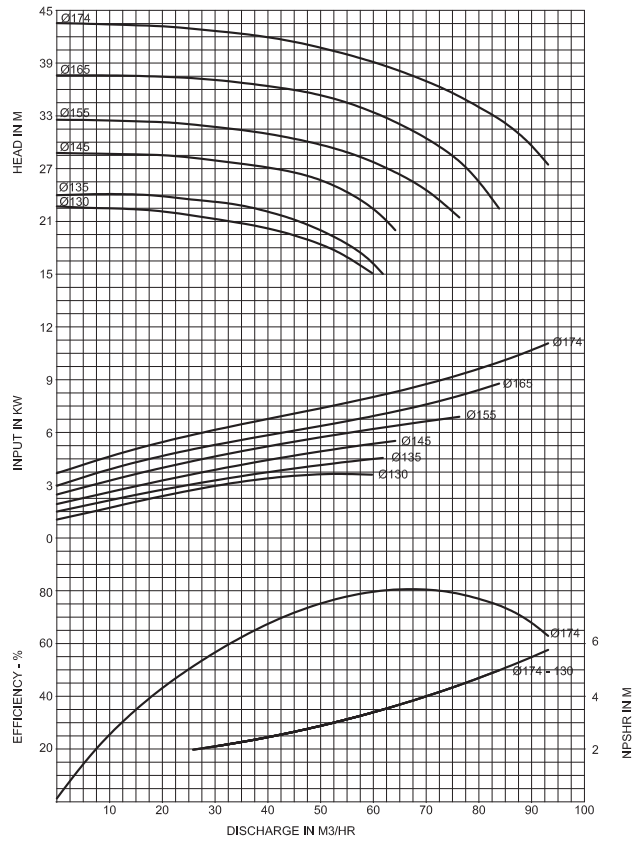
Centrifugal Backpull Out Pumps

Performance Curves • 2900 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

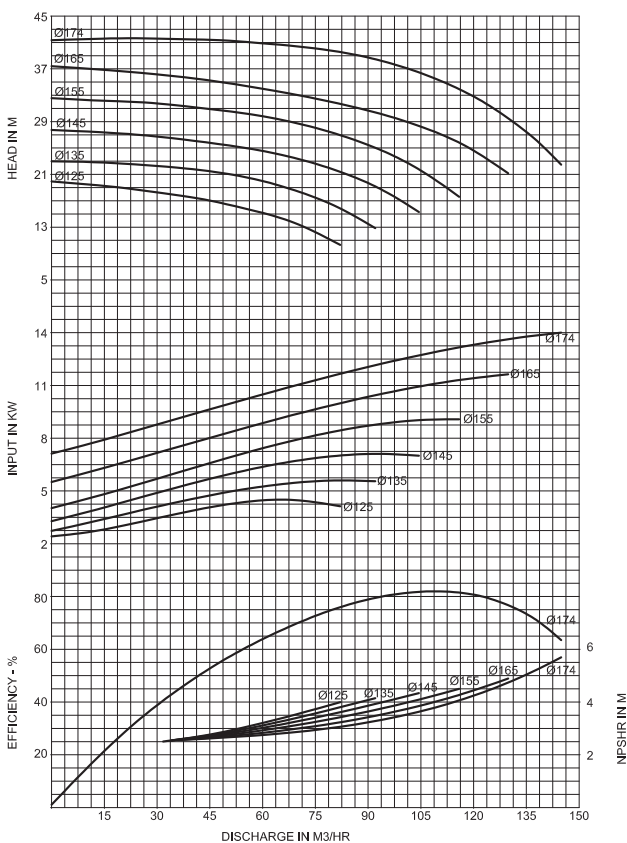
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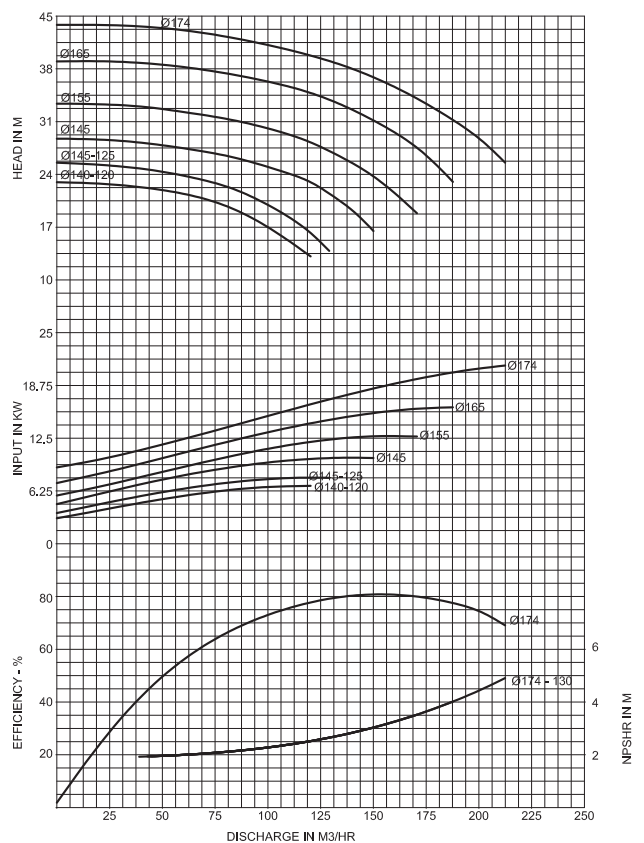
Model : 50-16



Model : 65-16



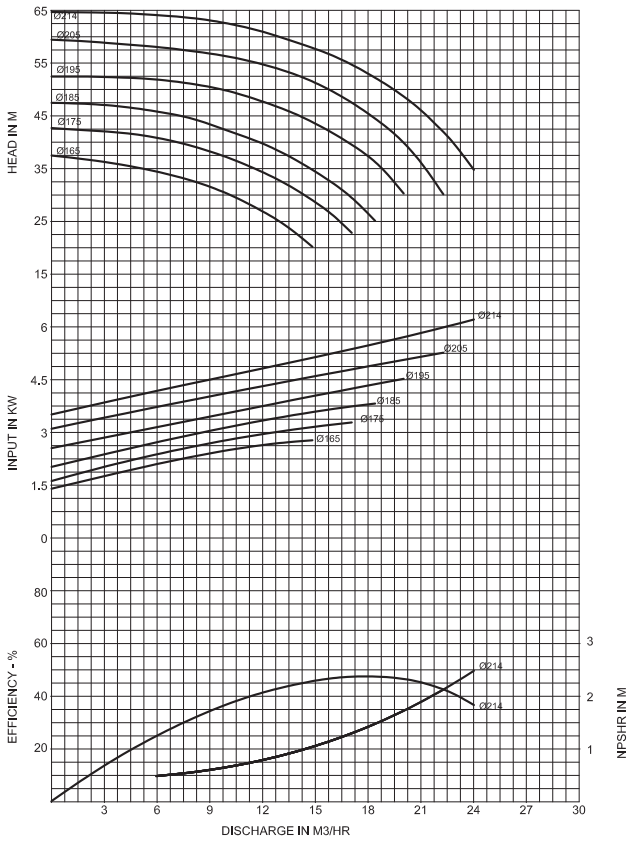
Model : 80-16



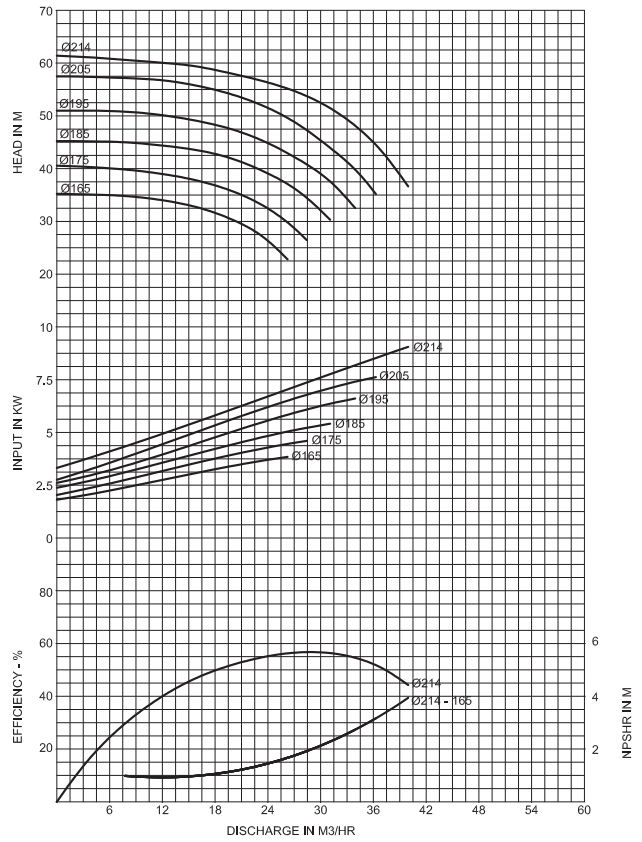
Centrifugal Backpull Out Pumps

Performance Curves • 2900 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

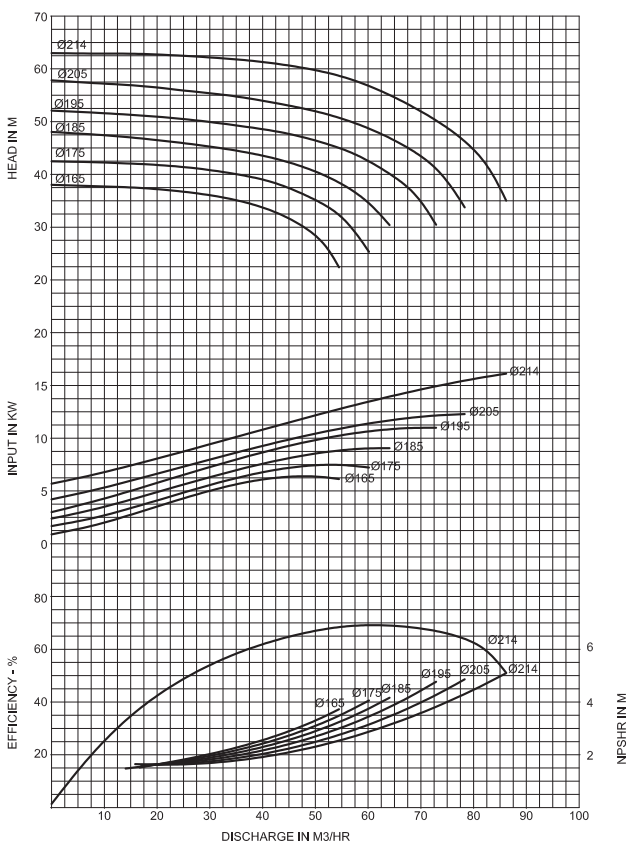
Model : 32-20



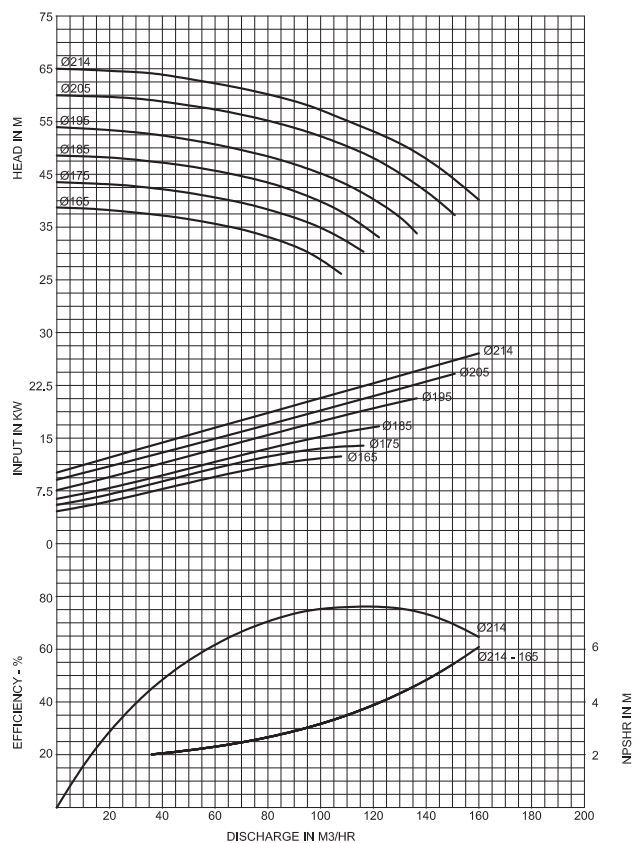
Model : 40-20



Model : 50-20



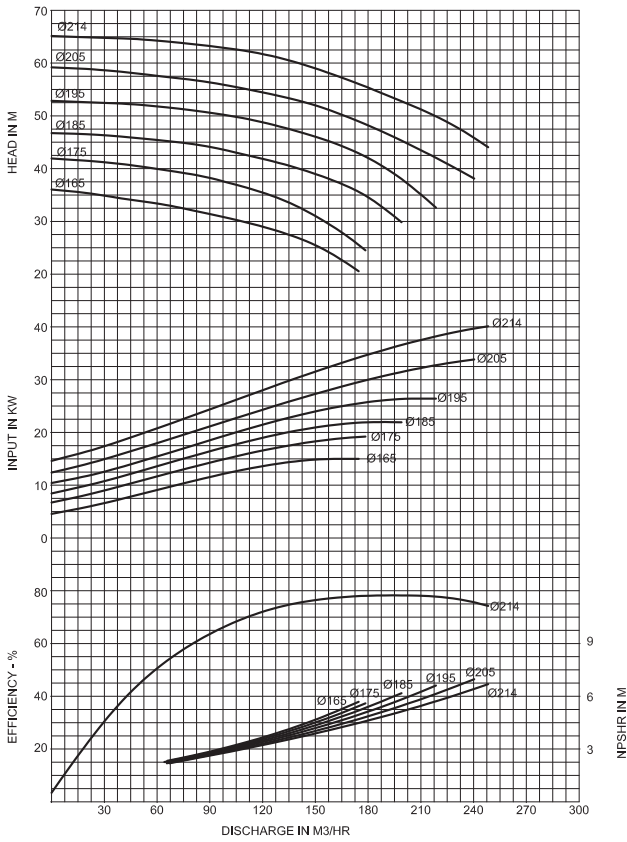
Model : 65-20



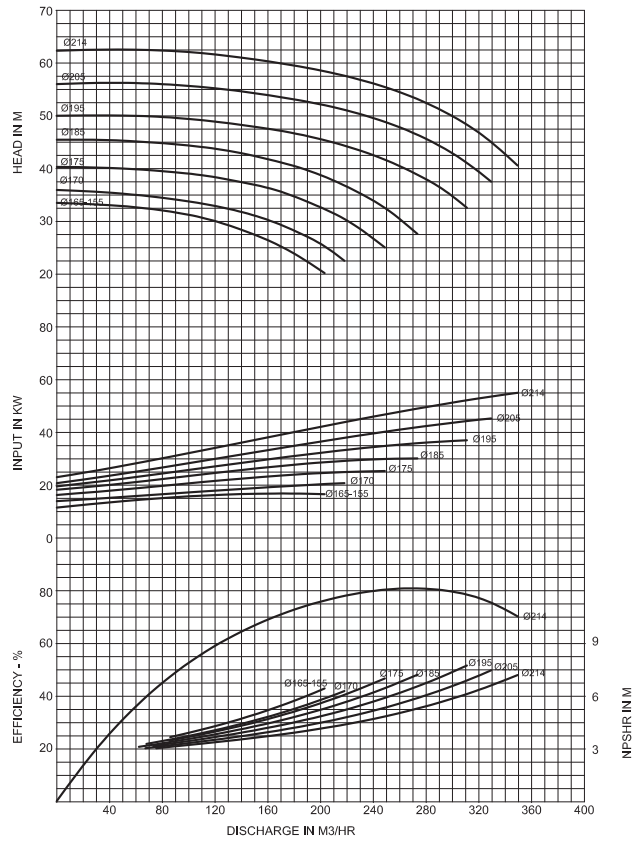
Centrifugal Backpull Out Pumps

Performance Curves • 2900 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

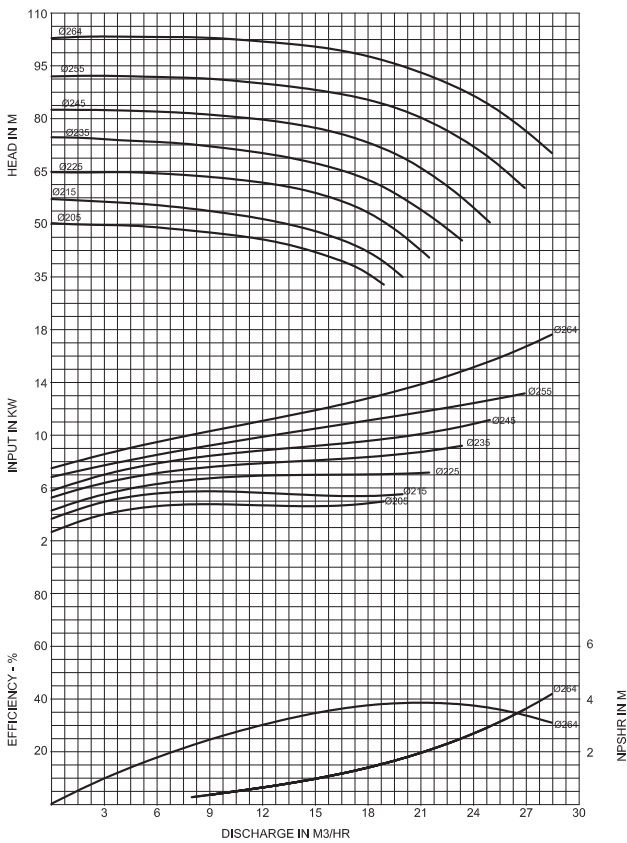
Model : 80-20



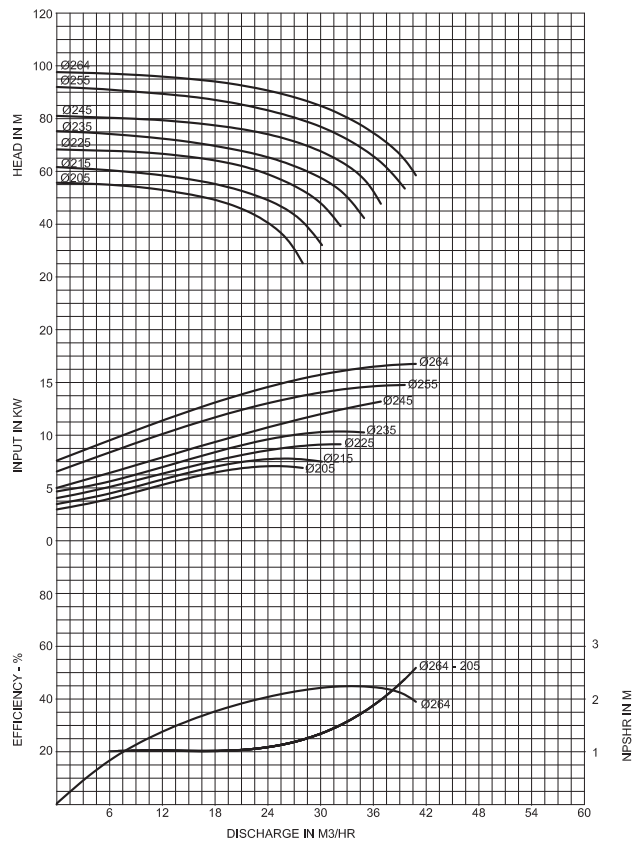
Model : 100-20



Model : 32-26



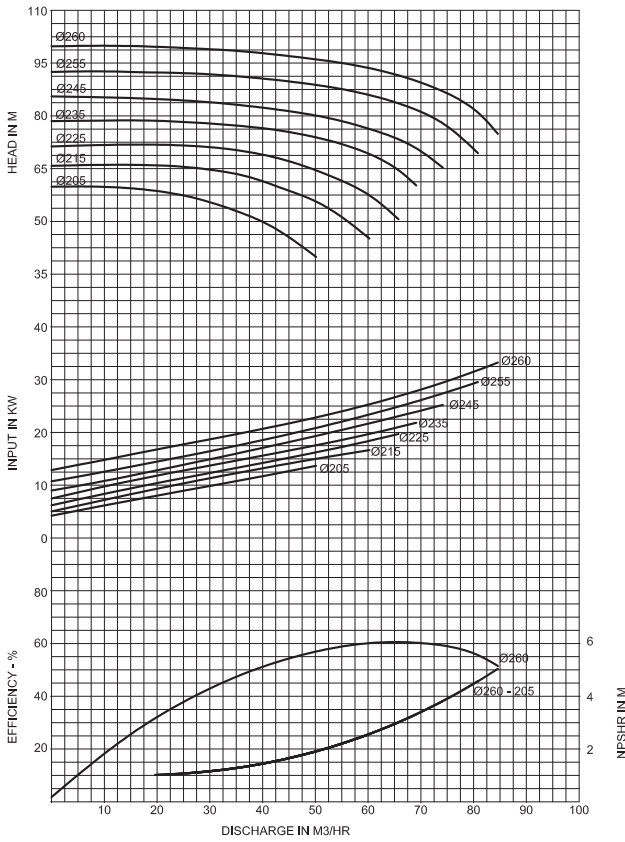
Model : 40-26



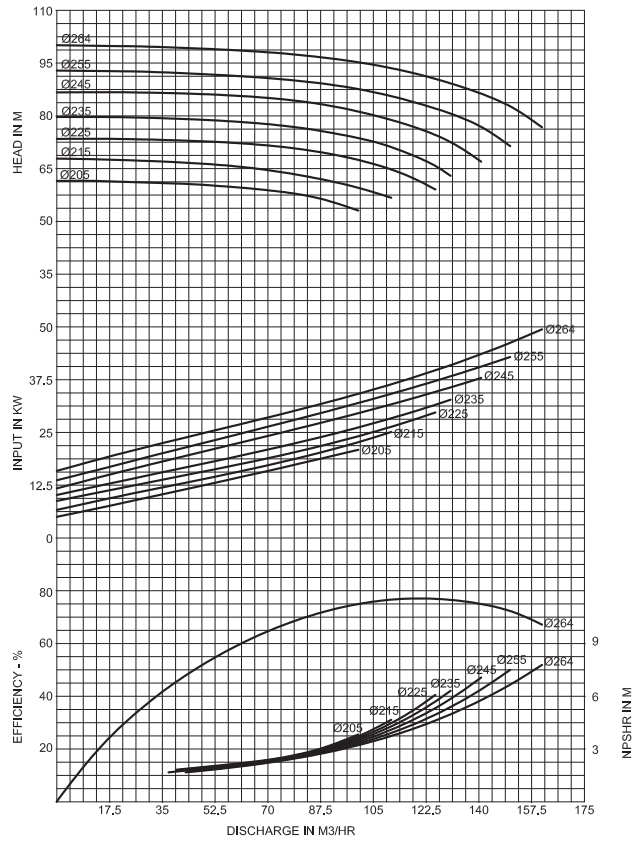
Centrifugal Backpull Out Pumps

Performance Curves • 2900 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

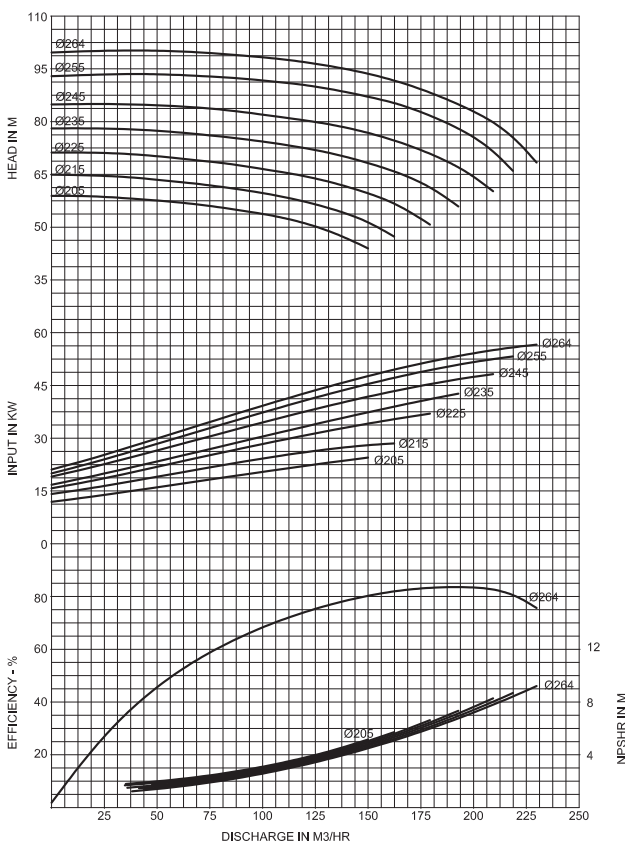
Model : 50-26



Model : 65-26



Model : 80-26



Model : 100-26

