

CNH series

Close-coupled construction made entirely from stainless steel with standard motor, shaft with compression locking, internal seal and open impeller based on CN series pumps.

Series of pumps available in two different versions of liquid recirculation:

Version with drainage feature guarantees complete emptying of the pump.

Version without drainage.

The clamp casing and seal design allows quick disassembly for inspection, cleaning and maintenance. Protective motor shroud.



Investment cast double vane rotor for creating the liquid ring inside the front section of the pump body.



Open reverse vane impeller with increased dimensions, designed in accordance with performance optimization criteria.

TECHNICAL DATA CNH series

Flow rate up to 65 m³/h
Head values up to 55 m
Maximum operating pressure 10 bar up to 100°C
Temperature range -10°C ÷ +121°C

Seals:

Hygienic mechanical seals with seat standardized to EN 12756, ISO 3069 standards

Seal materials (FDA, Regulation (EC) No. 1935/2004):

Ethylene propylene (EPDM)
Special fluorocarbon seal
Fluorocarbon seal (FPM - FKM)
FFPM - FFKM

Connections:

DIN - SMS - IDF - BS / RJT - DS - CLAMP and EN 1092-1 PN 16 flanges and, on request, available in compliance with international standards.



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DCATLONCHGB



CENTRIFUGAL PUMPS CN series

Closed coupled single-stage centrifugal pumps. A range of 6 models with open impellers, independent shafts and IEC standard motors. Optimised design to ensure high levels of hygiene - The absence of product hold-up and no dead-legs ensures efficient cleaning by standard CIP methods and effective sterilisation by SIP. Wetted parts are in pressed polished plate and investment cast electropolished CF3M 1.4409 / AISI 316L (1.4404) stainless steel. Investment cast and electro-chemical polishing. Internal finishes of 0,5 micron Ra are available on request.

ATEX-compliant versions also available on request.

Applications

Food processing, dairy, beverage, chemical, cosmetics and pharmaceutical industries. The open impeller allows a large range of products such as purified water, juices, creams, ice-cream mix, milk, wine, spirits, whey and WFI to be safely transferred.



SELF-PRIMING CENTRIFUGAL PUMPS CNH series

The CNH series is made up of single-stage centrifugal pumps with self-priming device, axial suction port, open centrifugal impeller and independent shaft.

The self-priming devices is made up of a helical rotor installed in front of the impeller and a rotor chamber which is off-centre in relation to the axis of the centrifugal stage.

The series is made up of range of 2 models with open impeller, independent shaft and standard IEC motor.

Mixed construction: pressed/cast stainless steel - AISI 316L (1.4404) - CF3M (1.4409).

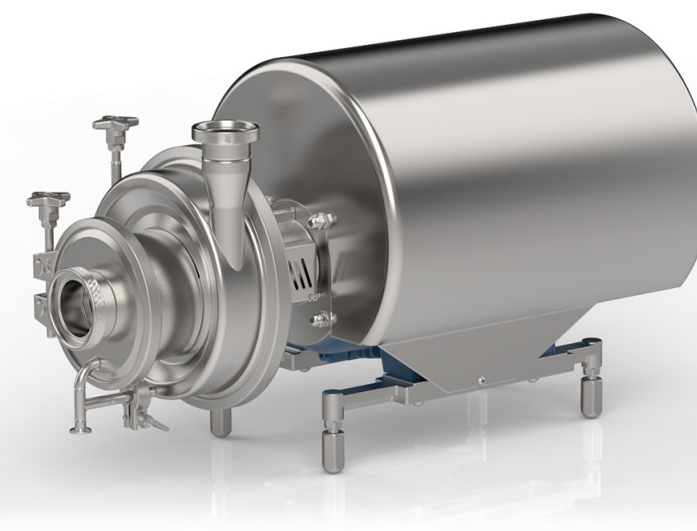
Investment casting and electrochemical polishing treatment guarantee excellent levels of surface finish.

The pump incorporates a self-priming device which gives the centrifugal pump its suction capacity; this component guarantees continuous pump operation in applications handling biphasic fluids.

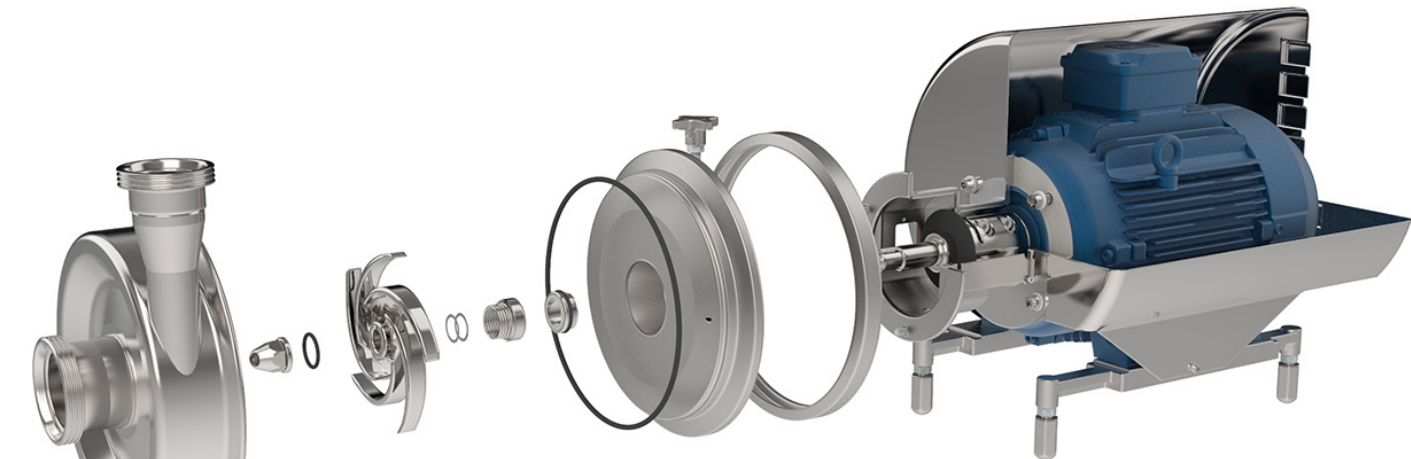
ATEX-compliant versions also available on request.

Applications

CNH self-priming centrifugal pumps can be used in industrial applications, for example in the food, dairy and beverage sectors, for tank emptying operations, CIP solution recirculation and for handling liquids with a high air content.



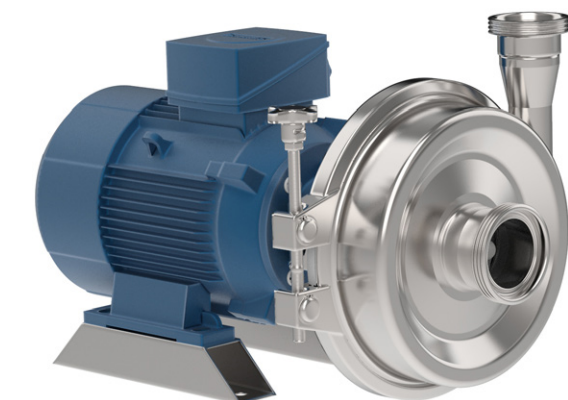
CN series



All stainless construction, with standard motor, separate pump shaft with clamp coupling, internal product seal and an open impeller.

The clamp casing and seal design allow quick disassembly for inspection, cleaning and maintenance. It also enables the delivery port to be rotated to any position for easy installation and drainage.

Motor shroud.



Pump without shroud and stainless steel motor shims.



Open impeller with reversed blades with vast expansion designed to optimize the hydraulic efficiency.

TECHNICAL DATA CN series

Flow rates up to 110 m³/h
Heads up to 70 m
Maximum operating pressure 10 bar up to 100°C
Temperature range -10°C ÷ +121°C
High performance, with low NPSH values.

Mechanical seals:

With seats to EN 12756, ISO 3069 standards.

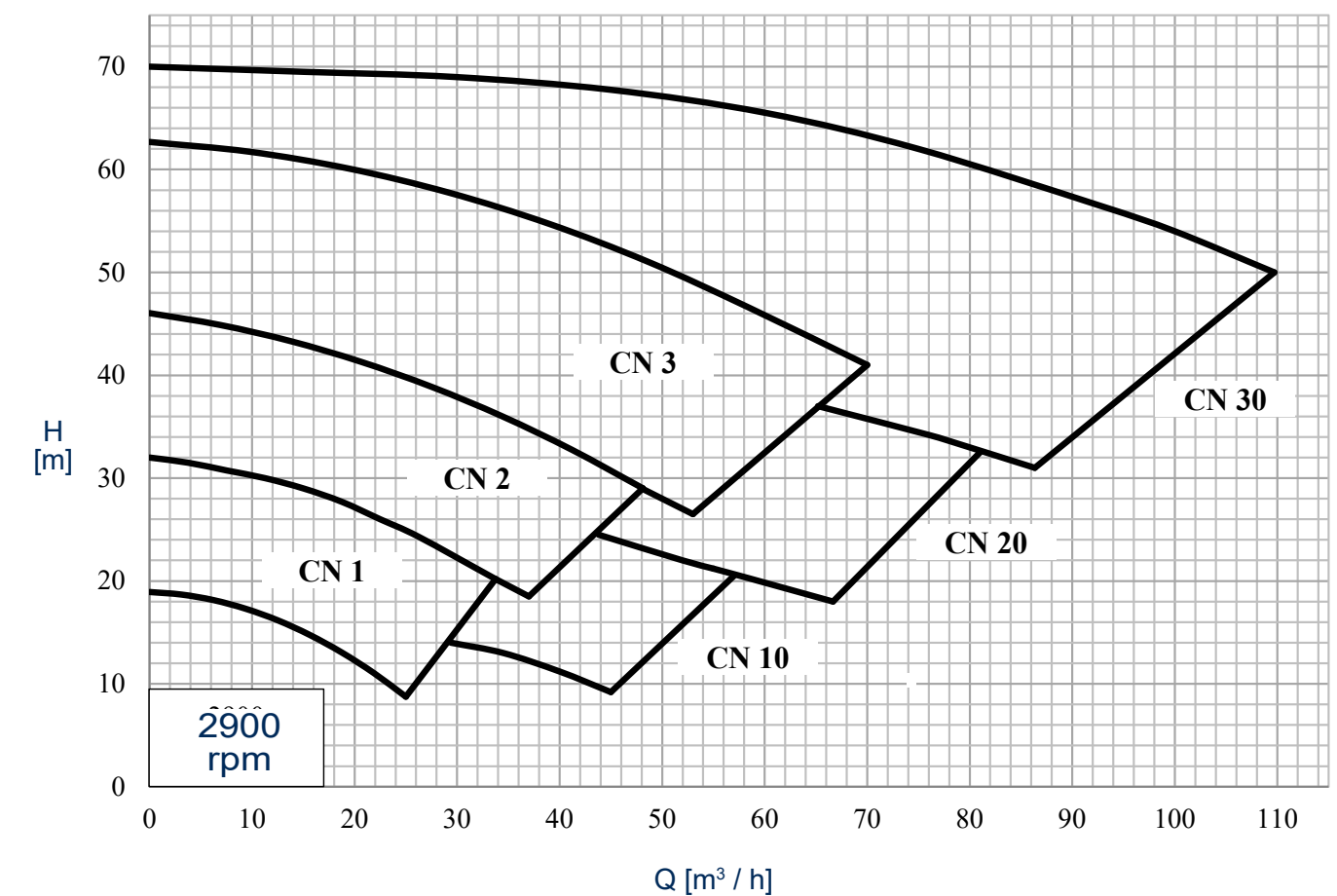
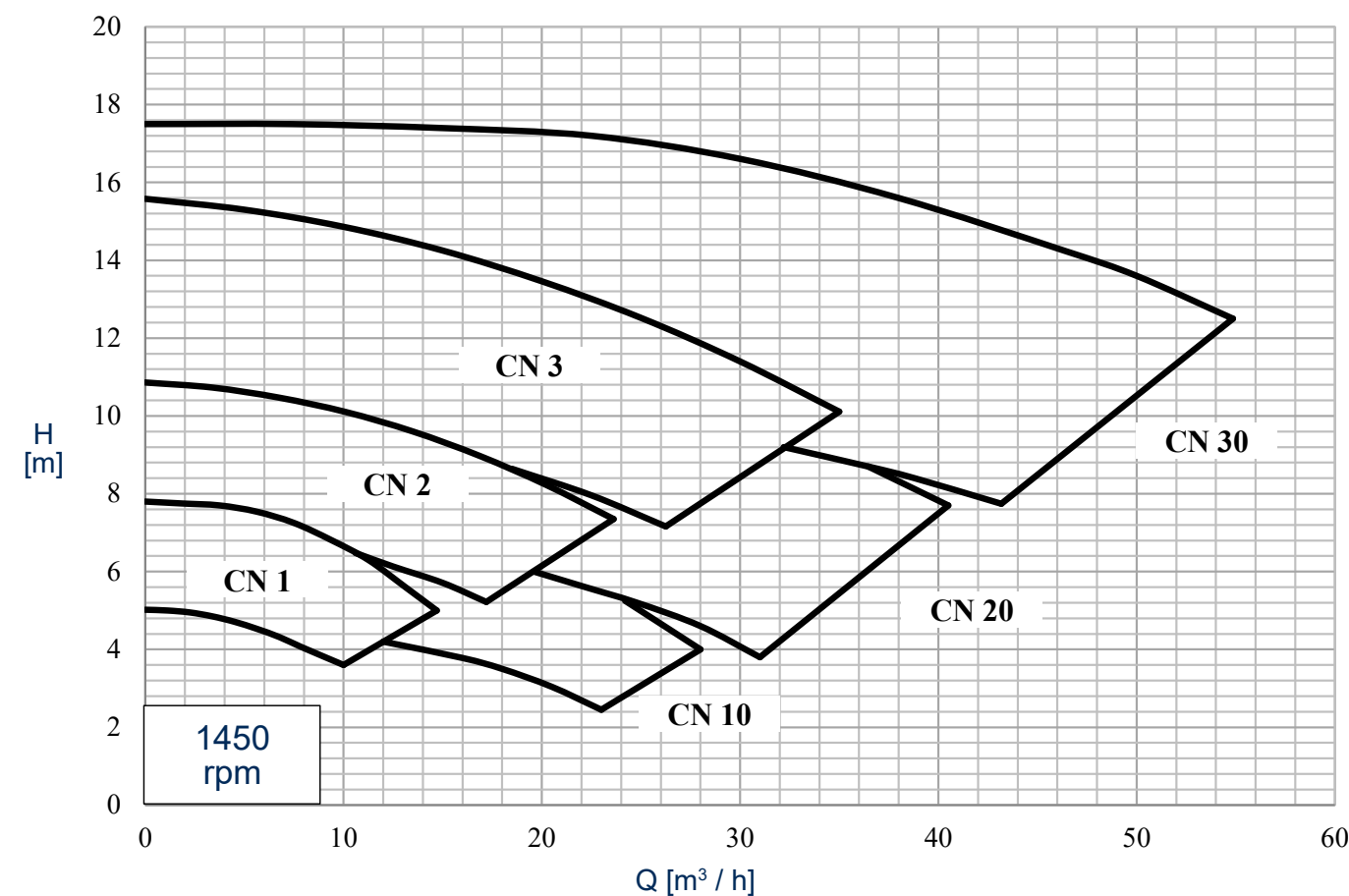
Connections:

DIN - SMS - IDF - BS / RJT - DS - CLAMP and EN1092-1 PN16 flanges suitable for all international standards.

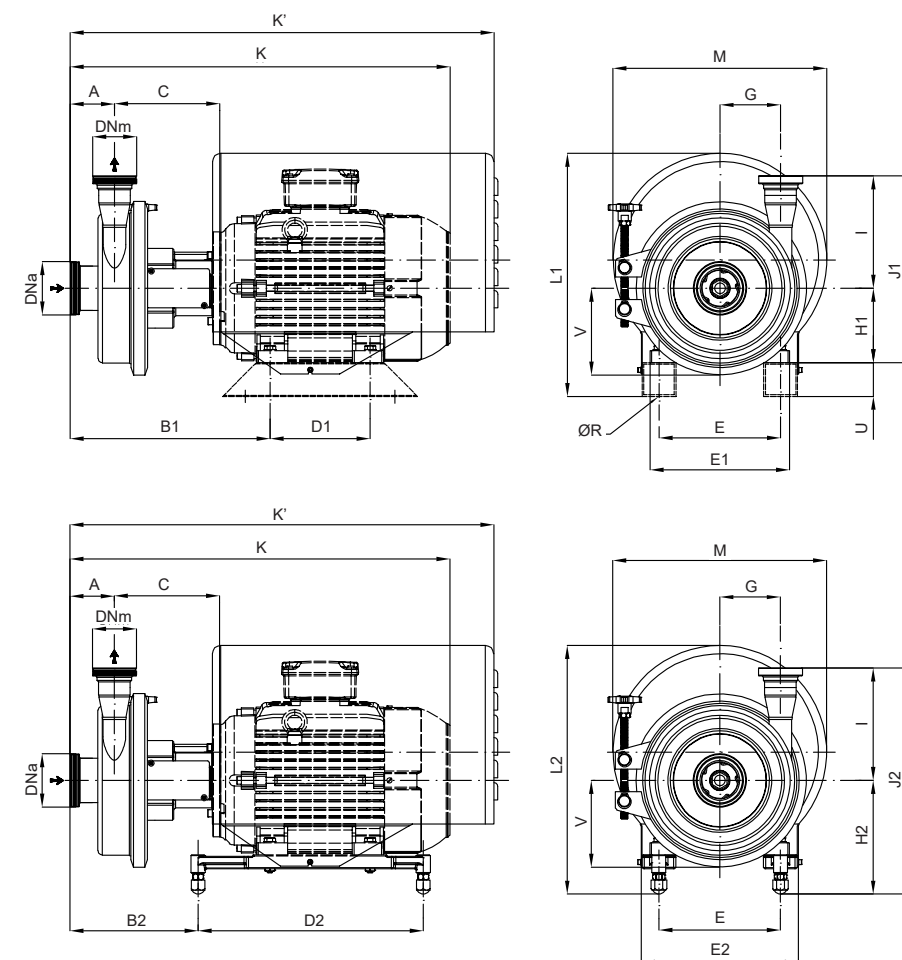
Elastomers (FDA Regulation (EC) No. 1935/2004):

Ethylene propylene (EPDM)
Special fluorocarbon seal
Fluorocarbon seal (FPM - FKM)
FFPM - FFKM

(Performance applies to H₂O at 20 °C, 1013 mbar, Data not binding)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

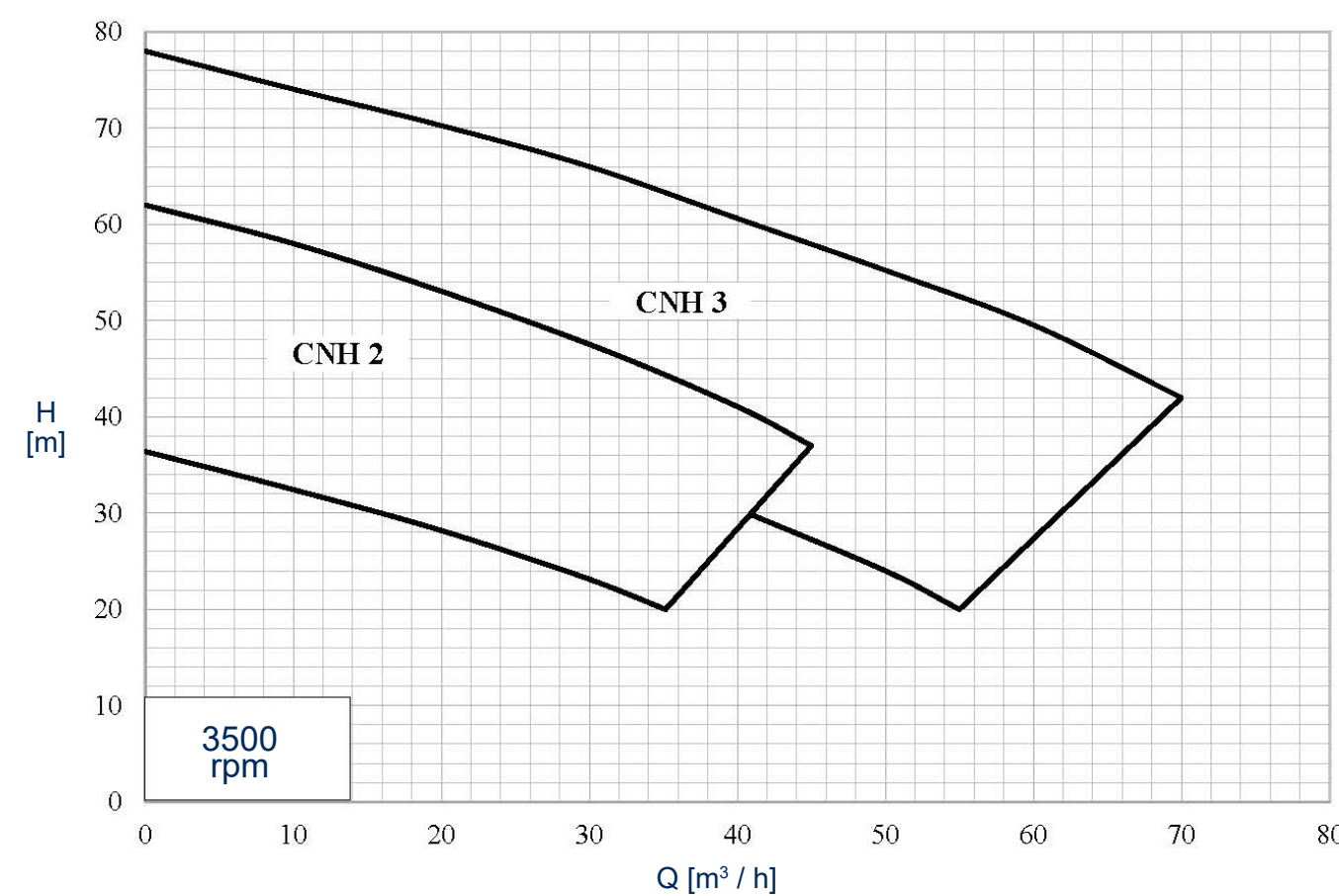
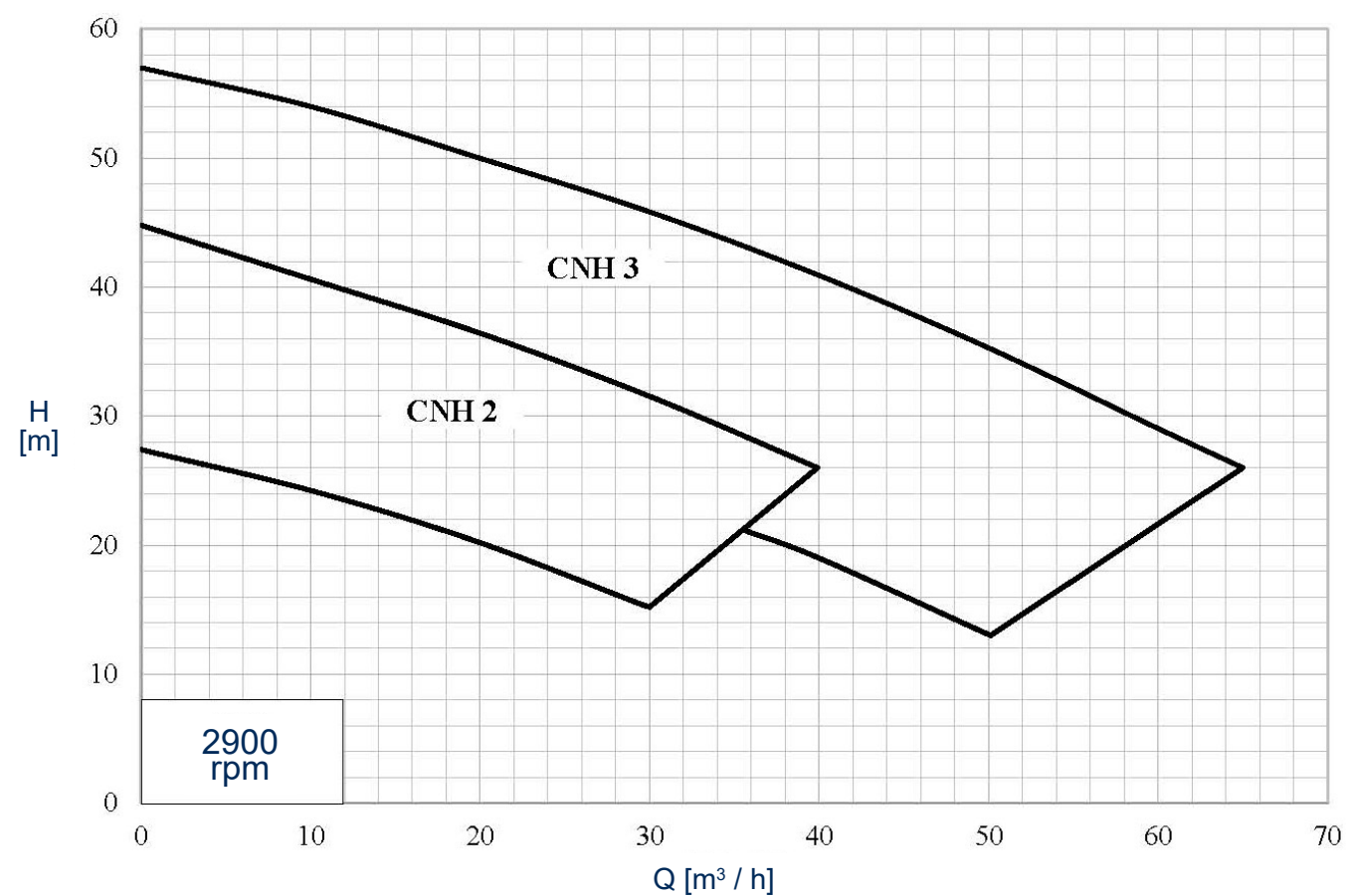


MOTOR "B3-B14"
EXEC. WITH SHIMS

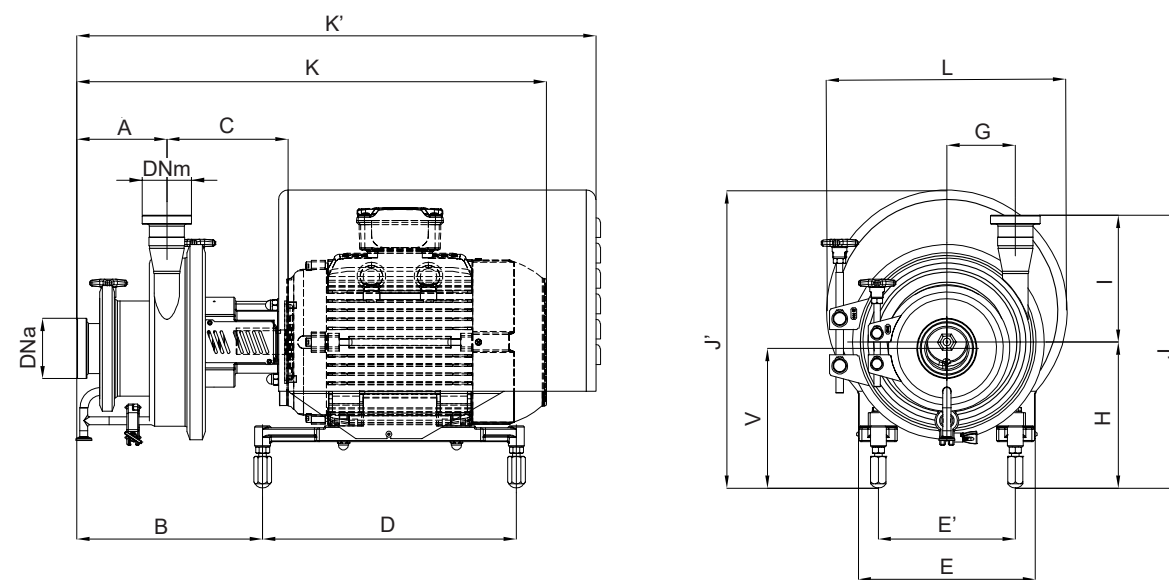
MOTOR "B3-B14"
EXEC. WITH ADJUSTABLE FEET

Pumps	IEC motors size:	DNa	DNm	A	B1	B2	C	D1	D2	E	E1	E2	G	H1	H2	K	K'	ØR	I	J1	J2	L1	L2	M	U	V	
CN 1	80	50	40	73	276	186	155	100	220	125	155	160	86	80	158	462	-	10	183	263	341	-	-	-	40	127	
	90				282	210		125	270	140	165	210		90	160	505,5	597			273	343	317,5	347,5	303			
	100				319	247		140	285	160	196	160		100	170	572	674			283	353	389,5	409,5	369	50		
	112				326	239		185	140	315	190	226		240	112	182	592			674	295	365	401,5	421,5	389		50
	132				345	218			178	400	216	256		276	132	202	666			744	315	385	432	442	380		60
CN 2	80	65	50	79	286	196	159	100	220	125	155	160	108	80	158	478	-	10	200	280	358	-	-	-	40	154	
	90				292	219		125	270	140	165	210		90	160	515	607			290	360	317,5	347,5	303	369		50
	100				329	257		140	285	160	196	240		100	170	582	684			300	370	389,5	432,5	369	50		
	112				336	249		189	140	315	190	226		240	112	182	600			684	312	382	401,5	444,5	369		50
	132				355	228			178	400	216	256		276	132	202	675			754	332	402	432	442	380		60
CN 3	80	80	65	81	404	251	219	254	475	254	300	326	129	160	210	821	912	14	25	360	410	536,5	526,5	473	70	179	
	90				295	223		159	125	270	140	165		210	90	160	521	611		315	415	317,5	378,5	303	40		
	100				332	260		140	285	160	196	240		100	170	587	688	355		425	389,5	440,5	369	50			
	112				339	252		189	140	315	190	226		240	112	182	606	688		367	437	401,5	452,5	369	50		
	132				358	231			178	400	216	256		276	132	202	678	758		387	457	432	473	380	60		
CN 10	80	65	50	79	407	217,5	219	254	475	254	300	326	80	160	210	823	793	15	180	415	465	536,5	536,5	473	70	127	
	90				287	197		100	220	125	155	160		80	158	474	-	260		338	-	-	-	40			
	100				286	215		125	270	140	165	210		90	160	517	608	270		340	317,5	347,5	303	369	50		
	112				320	252		140	285	160	196	240		100	170	583	686	280		350	389,5	429,5	369	50			
	132				237	244		185	140	315	190	226		240	112	182	601	686		292	362	401,5	421,5	369	50		
160	346	224	178	400	216	256	276		132	202	676	756	312	382	432	442	380	60									
CN 20	80	80	65	84	405	252	215	254	475	254	300	326	98	160	210	821	912	14	218	340	390	536,5	340	473	70	154	
	90				299	299		100	220	125	155	160		80	158	485	606	298		376	-	-	-	40			
	100				305	305		125	270	140	165	210		90	160	521	619	308		378	317,5	347,5	303	369	50		
	112				341	269		140	285	160	196	240		100	170	594	695	318		388	355	432,5	369	50			
	132				348	261		175	140	315	190	226		240	112	182	612	695		330	400	401,5	444,5	369	50		
160	367	240	178	400	216	256	276		132	202	687	765	350	420	432	442	380	60									
CN 30	80	100	80	88	416	263	205	254	475	254	300	326	127	160	210	832	923	14	273	378	428	546,5	526,5	473	70	179	
	90				449	198		225	279	600	282,5	350		354,5	180	240	912	-		398	458	-	-	-	60		
	100				310	238		147	125	270	140	165		210	90	160	534	624		363	433	317,5	378,5	303	40		
	112				347	275		140	285	160	196	240		100	170	600	701	373		443	389,5	440,5	369	50			
	132				354	267		177	140	315	190	226		240	112	182	618	710		385	455	401,5	452,5	369	50		
160	273	246	178	400	216	256	276		132	202	693	771	405	475	432	473	380	60									
CN 30	80	100	80	88	423	269	207	254	475	254	300	326	127	160	210	800	929	14	273	433	483	546,5	536,5	473	70	179	
	90				452	201		227	279	600	282,5	350		354,5	180	240	918	-		453	513	-	-	-	60		

(Performance applies to H₂O at 20 °C, 1013 mbar. Data not binding)



Dimensions not binding - DN = DIN 11851 female connection with standard IEC/EN motors



Pump type	IEC motor dimensions:	DNa	DWn	A	B	C	D	E	E'	G	H	K	K'	I	J	J'	L	V
CNH 2	112	65	50	142	314	189	315	230	180	108	205	666	749	200	405	445	369	195
	132 S				293		400	279	279		230	702	740		430	470	380	220
	132 M																	
CNH 3	132 S	80	65	164,5	314	188	400	216	216	129	230	723	840	255	455	470	380	217
	132 M											761						
	160				301		218	475	270	333		280	867	998		485	597	473