

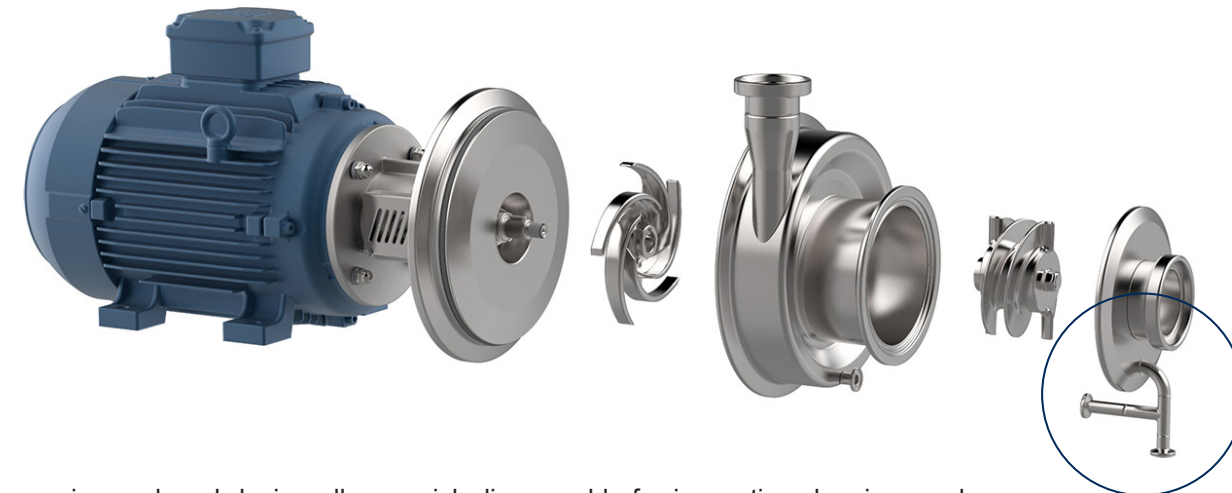
CNH series

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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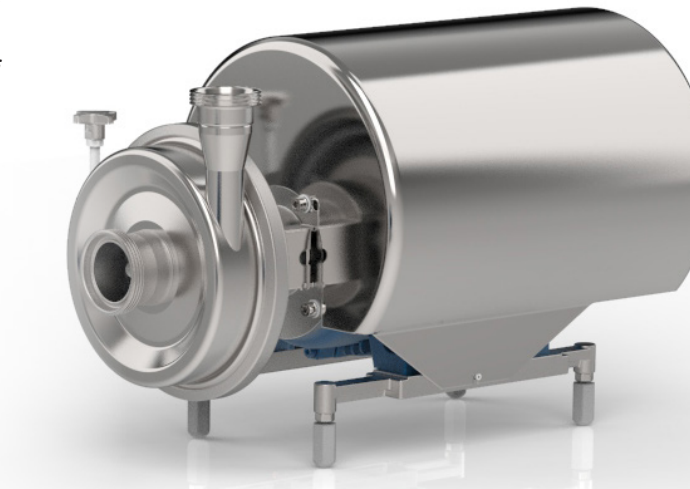
CENTRIFUGAL PUMPS CN series

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).

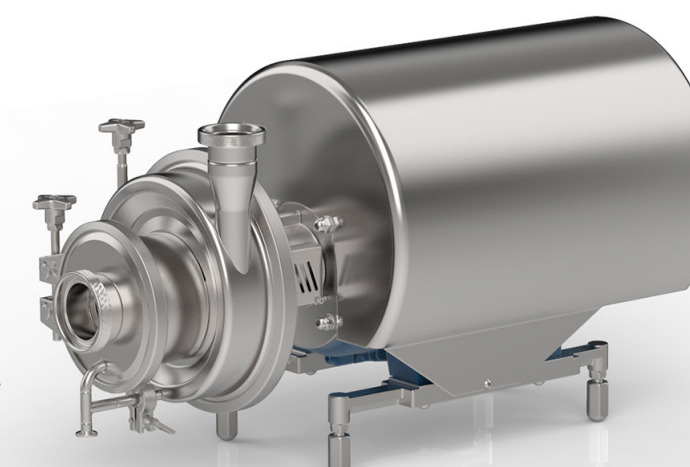
Investment casting and electrochemical polishing treatment guarantee excellent levels of surface finish.

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.

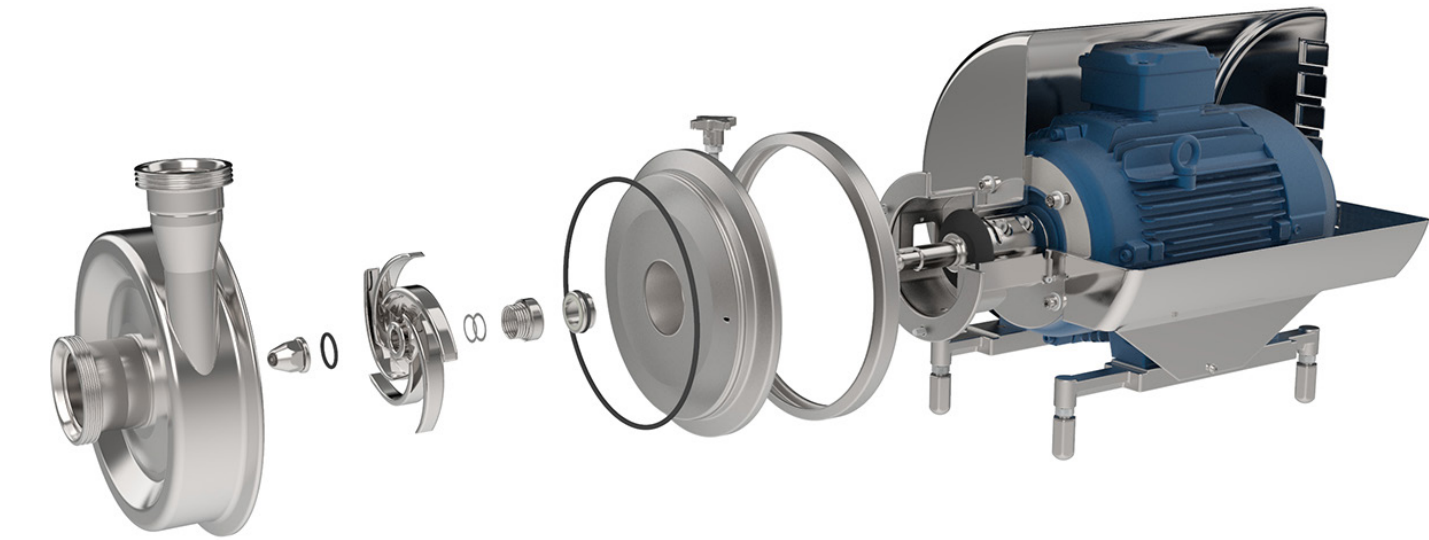
ATEX-compliant versions also available on request.

Applications

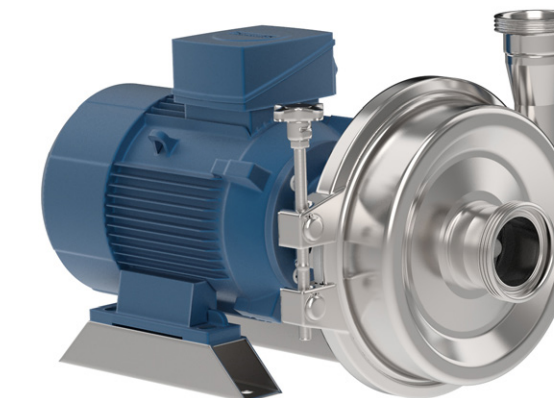
CNH self-priming centrifugal pumps can be used in industrial applications, for example in the food, dairy and beverage sectors, for tank emptying operations, CIP solution recirculation and for handling liquids with a high air content.



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 60 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.

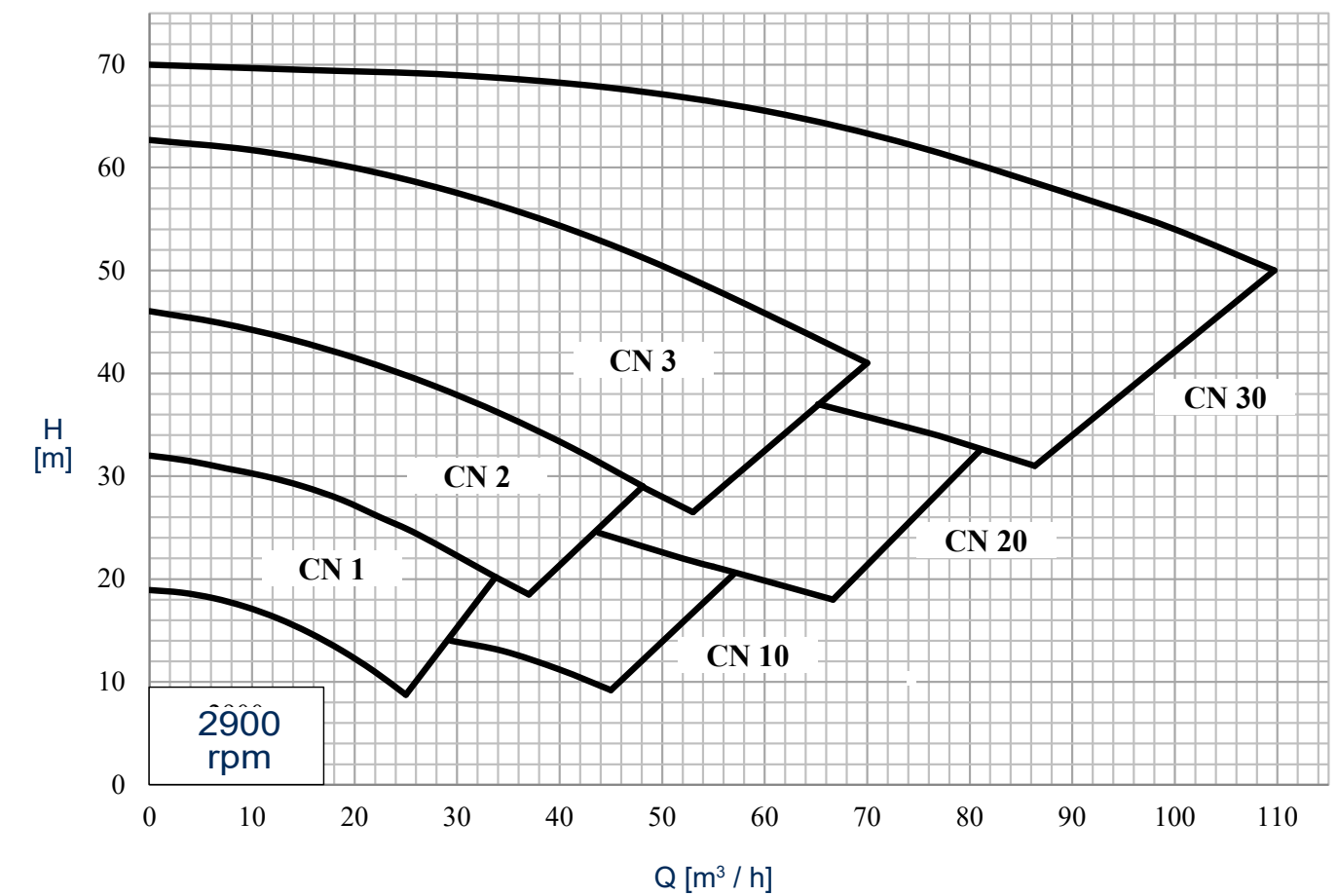
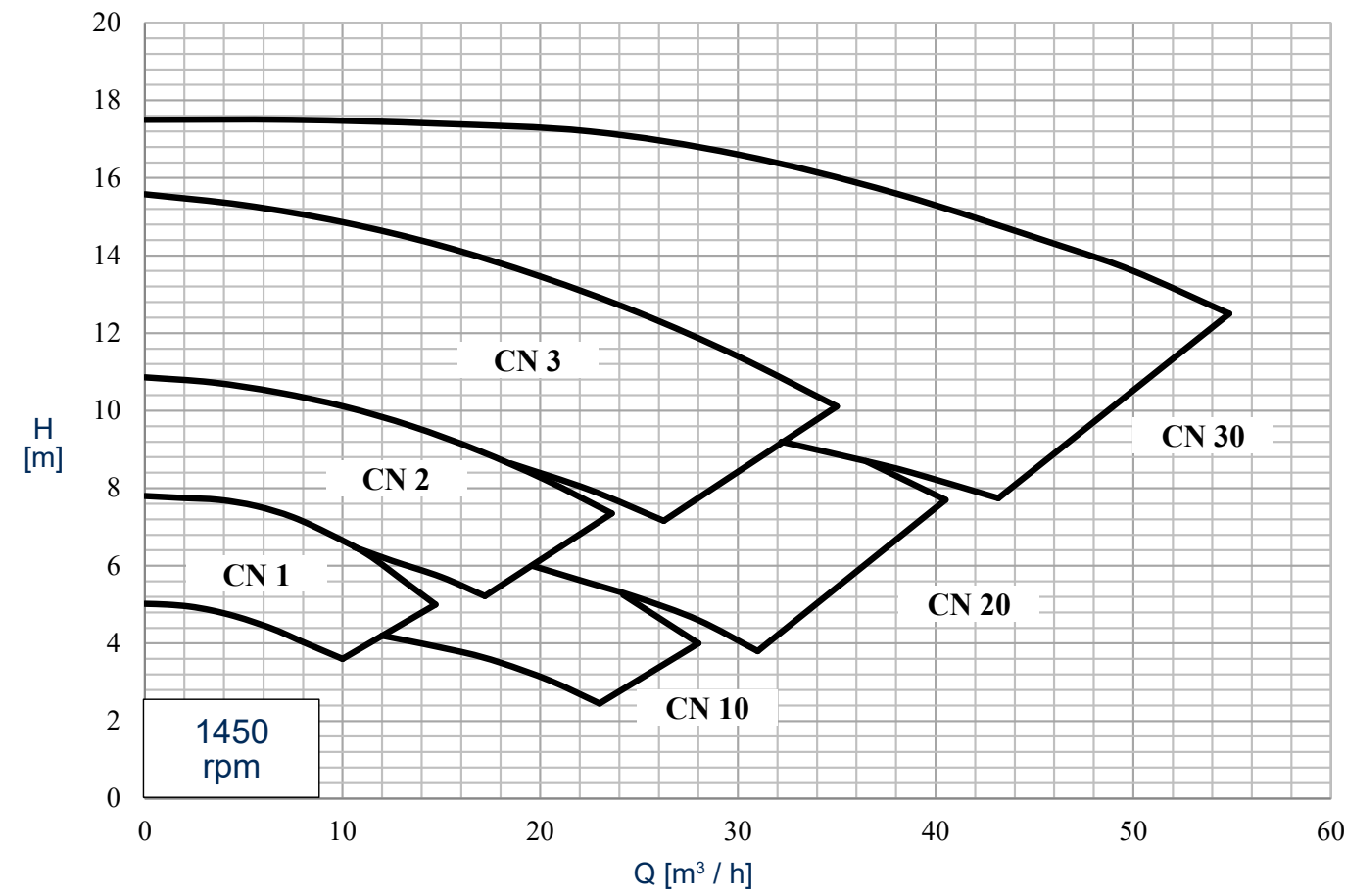
Connections:

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

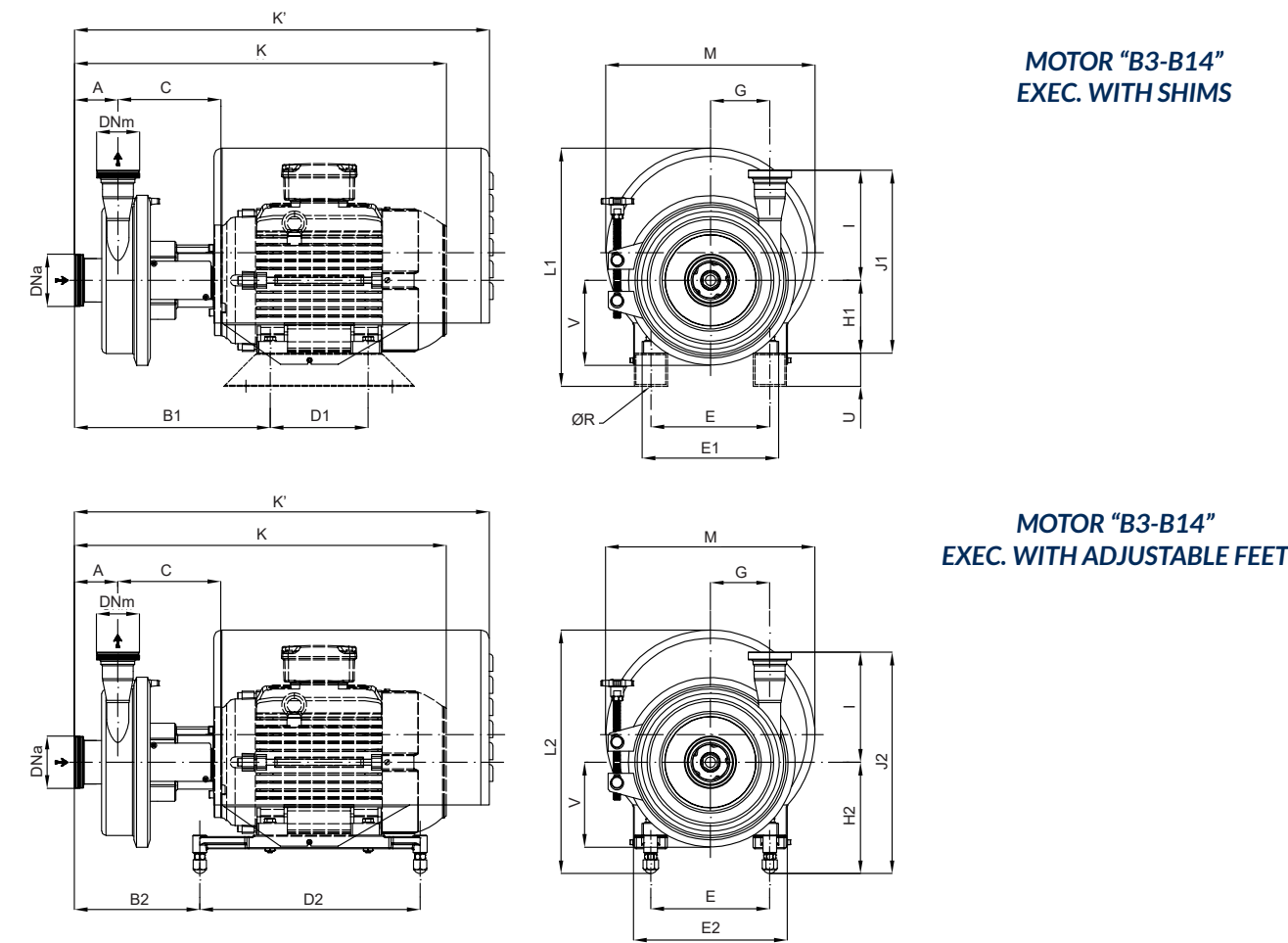
Elastomers (FDA Regulation (EC) No. 1935/2004):

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

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

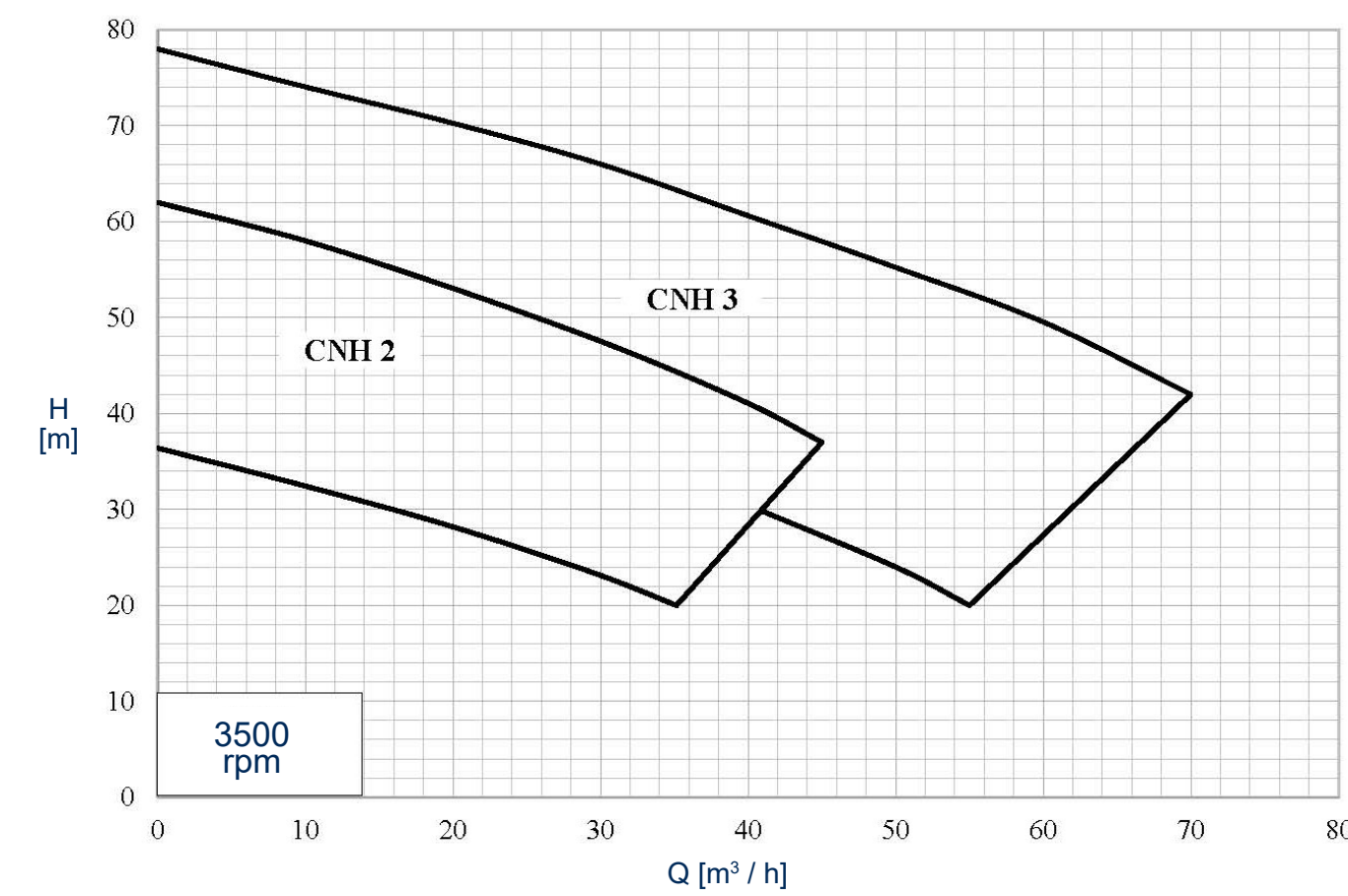
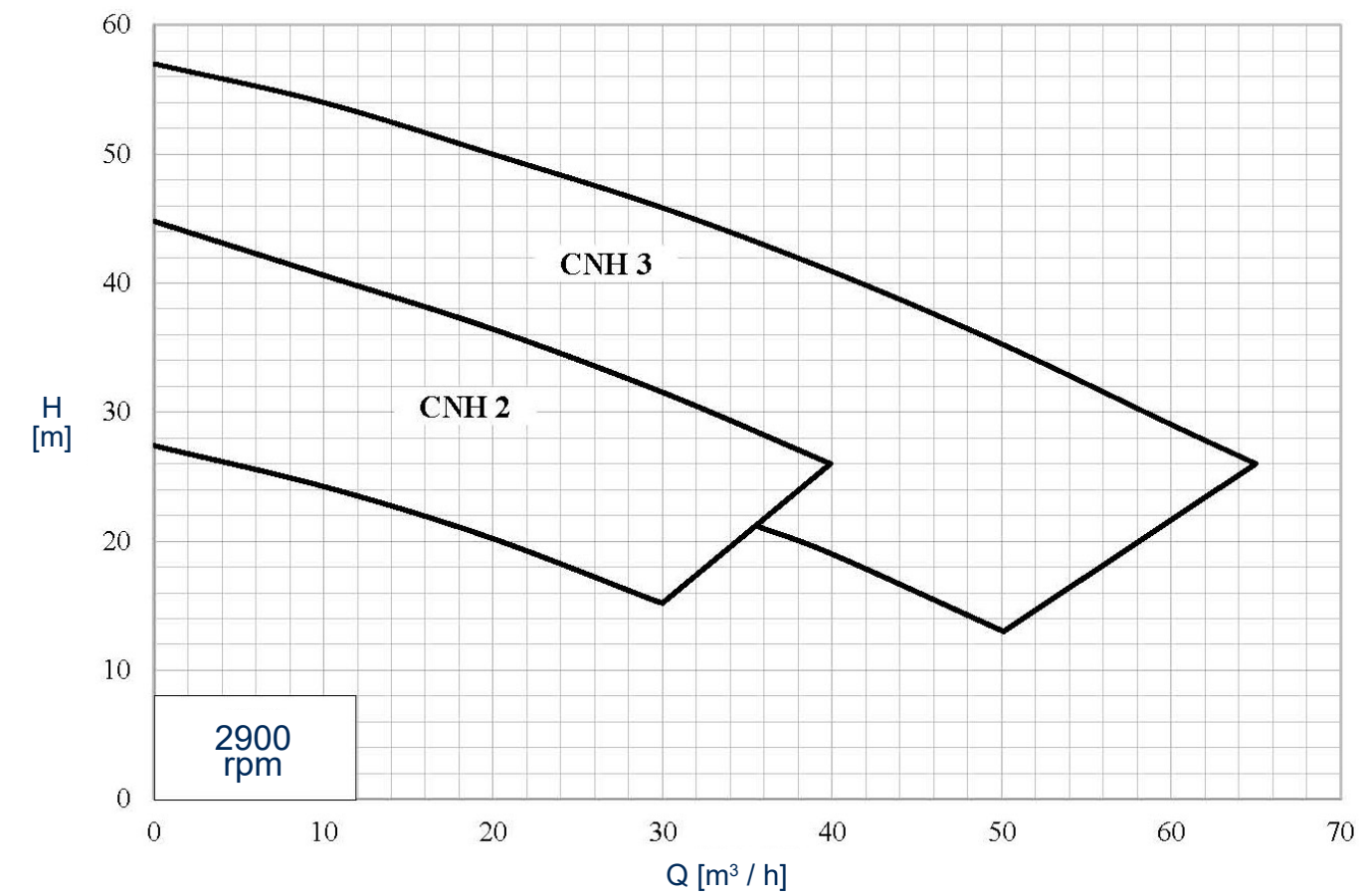


OVERALL DIMENSIONS CN series
Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

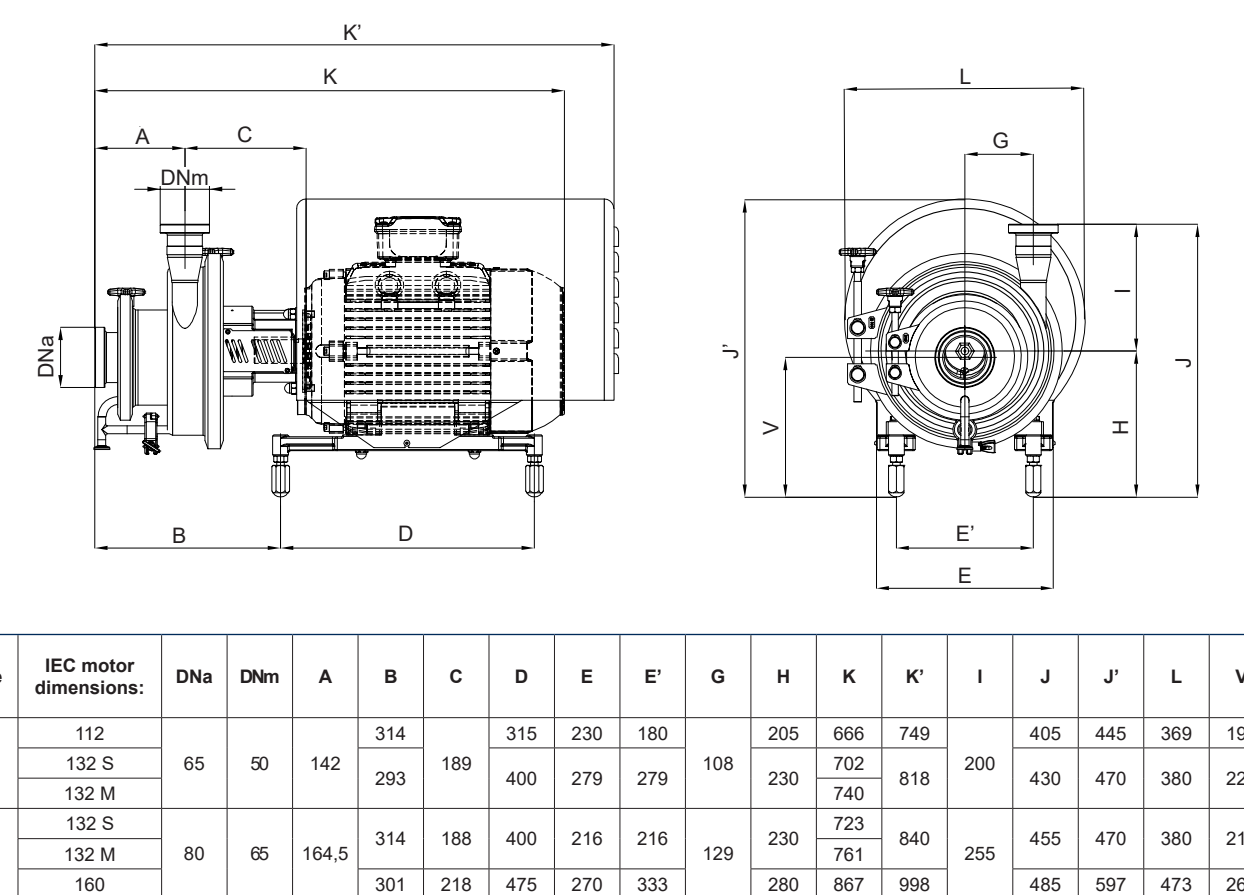


Pumps	IEC motors size:	DNa	DNm	A	B1	B2	C	D1	D2	E	E1	E2	G	H1	H2	K	K'	ØR	I	J1	J2	L1	L2	M	U	V	
CN 1	80	50	40	73	276	186	155	100	220	125	155	160	86	80	158	462	-	10	183	263	341	-	-	-	40	127	
	90				282	210		125	270	140	165	210		90	160	505,5	597			273	343	317,5	347,5	303			
	100				319	247		140	285	160	196	240		100	170	572	674			283	353	389,5	409,5	369			50
	112				326	239		185	315	190	226	240		112	182	592	674			295	365	401,5	421,5	369			60
	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			
	100				326	249		140	285	160	196	240		100	170	582	684			300	370	389,5	432,5	369			50
	112				336	249		189	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	255	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	178	400	216	256	276	100		170	587	688	355			425	389,5	440,5	369	50			
	112				339	252	189	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	155	100	220	125	155	160		80	158	474	-			280	338	-	-	40			
	100				286	215	125	270	140	165	210	90		160	517	608	270			340	317,5	347,5	303				
	112				320	252	140	285	160	196	240	100		170	583	686	280			350	389,5	409,5	369	50			
	132				346	224	178	400	216	256	276	112		182	601	686	292			362	401,5	421,5	369	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	145	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				
	112				341	269	140	285	160	196	240	100		170	594	695	318			388	355	432,5	369	50			
	132				348	261	175	400	216	256	276	112		182	612	695	330			400	401,5	444,5	369	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	400	216	256	276	112		182	618	711	385			455	401,5	452,5	369	60			
160	423	269	207	254	475	254	300	326	132	202	693	771	405	475	432	473	380	60									
180	452	201	227	279	600	282,5	350	354,5	160	210	800	929	433	483	546,5	536,5	473	70									
														180	240	918	-	15	453	513	-	-	-	60			

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



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



Pump type	IEC motor dimensions:	DNa	DNm	A	B	C	D	E	E'	G	H	K	K'	I	J	J'	L	V						
CNH 2	112	65	50	142	293	189	400	279	279	108	205	666	749	200	405	445	369	195						
	132 S																		702	818	430	470	380	220
	132 M																		740	818	430	470	380	220
CNH 3	112	80	65	164,5	314	188	400	216	216	129	230	723	840	255	455	470	380	217						
	132 S																		761	840	485	597	473	267
	160																		867	998	485	597	473	267