



Franklin Electric

VN-VL SERIES 50-60 HZ

VN - 5" CLOSE-COUPLED SUBMERSIBLE ELECTRIC PUMPS

VL - 5" CLOSE-COUPLED IN-LINE PORTS MULTISTAGE ELECTRIC PUMPS



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Notes: Franklin Electric reserves the right to amend specification without prior notice.

For the most up-to-date product information, visit franklinwater.eu.

PRODUCT OVERVIEW

FEATURES AND BENEFITS

APPLICATIONS



Water Distribution
Pressure boosting



Rainwater Recovery



Irrigation, Gardening,
Sprinklers



Wash down unit



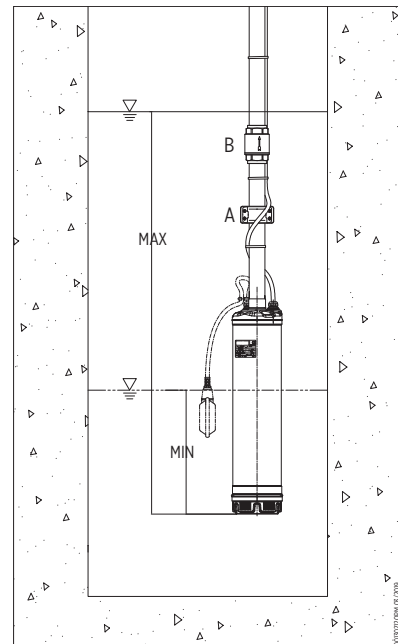
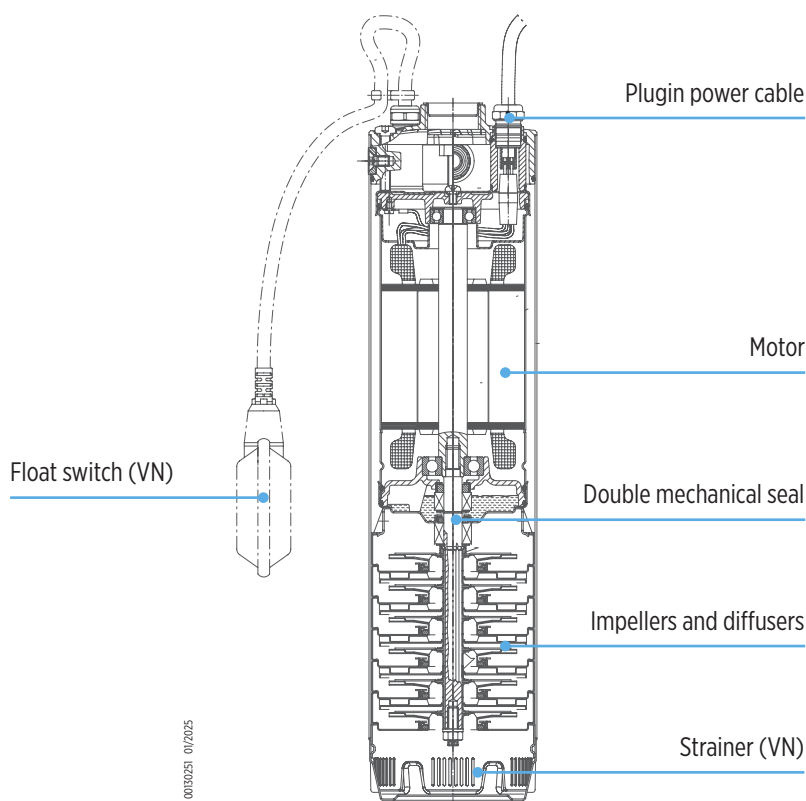
Slightly corrosive liquids

COMPACT CLOSE-COUPLED DESIGN

- Compact close-coupled design, robust and corrosion resistant, entirely made of stainless steel.
- Plug-in type power cable and level control (float) for easy replacement
- Electric pump fitted with threaded connections to allow for easy installation in narrow spaces or, more simply, in line with the pipeline
- Continuous operation either in vertical or horizontal position

HIGH QUALITY MATERIALS

- Heavy duty over size motor shaft
- Stainless steel water proof capsule to protect the motor
- Double mechanical seal separated by an oil chamber* for maximum motor protection
- * In compliance with FDA - Food, Drug Administration - and the annex to G.U. no. 104 of 20/04/73 for oils in contact with food stuffs
- SiC/SiC mechanical seal (VL pumps)



Minimum and maximum immersion

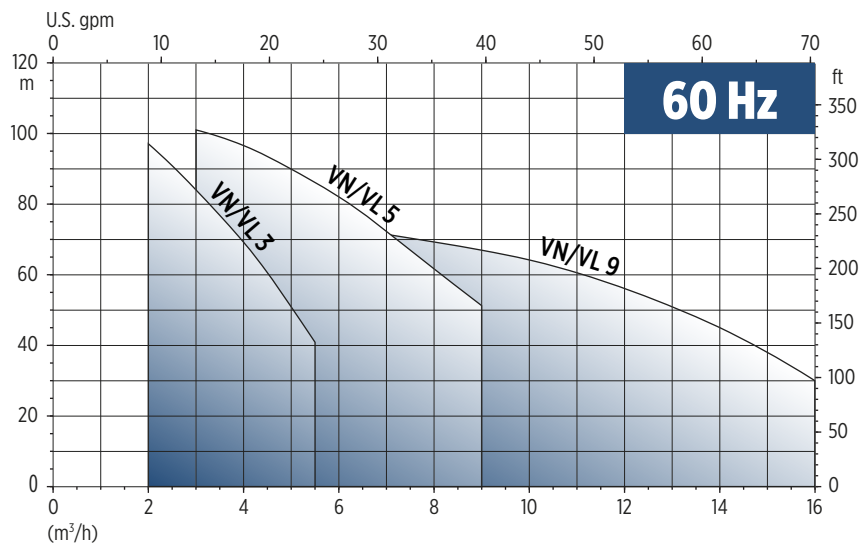
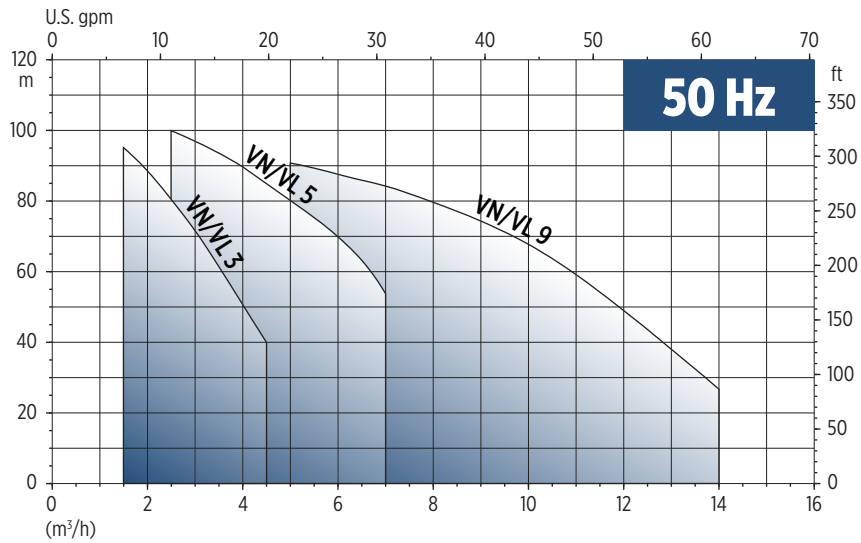
To prevent air from being sucked in through the filter, the electric pump must be immersed in the liquid at least half its height and in any case at least 30 cm from the bottom (MIN level in the figure above).

Ensure sufficient immersion to guarantee this condition when the liquid in the well reaches the minimum level. Dry running or air mixed with liquid can cause serious damage to the electric pump and loss of performance.

The maximum immersion depth (MAX level in the figure above) is indicated on the rating plate.

PRODUCT OVERVIEW

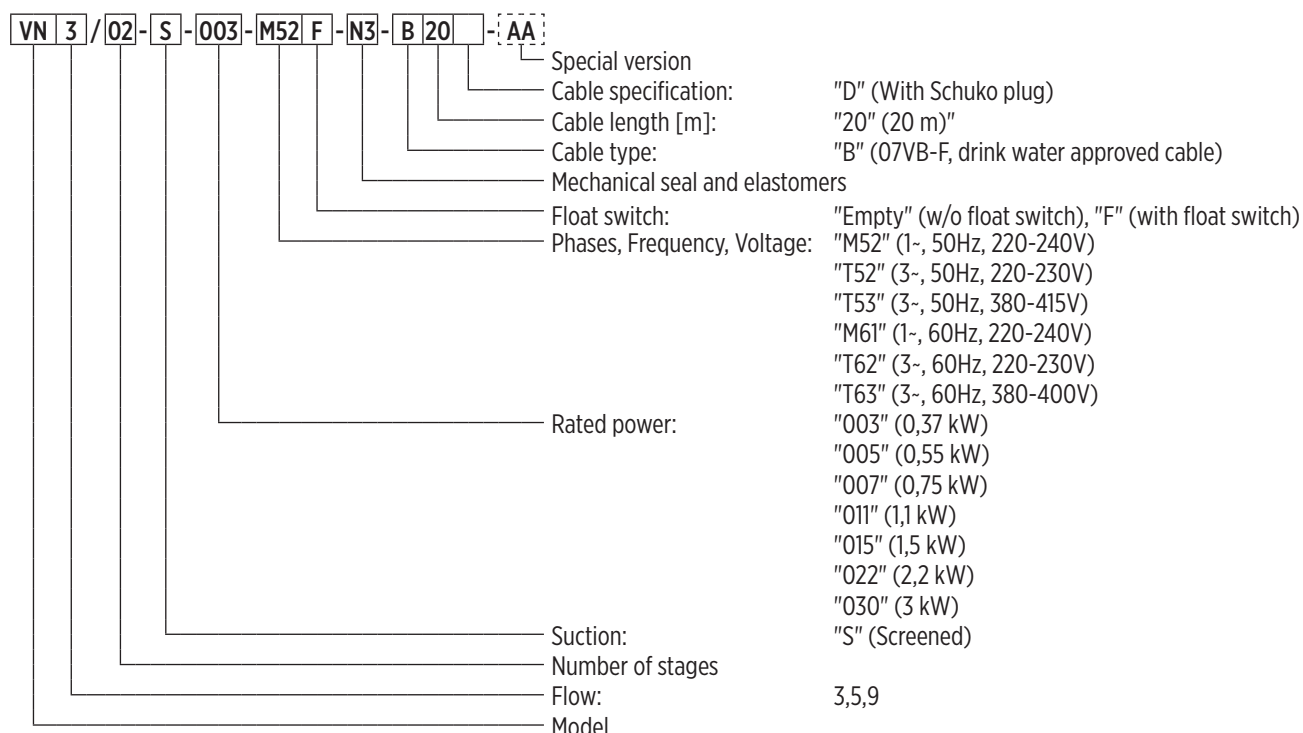
FAMILY CURVES



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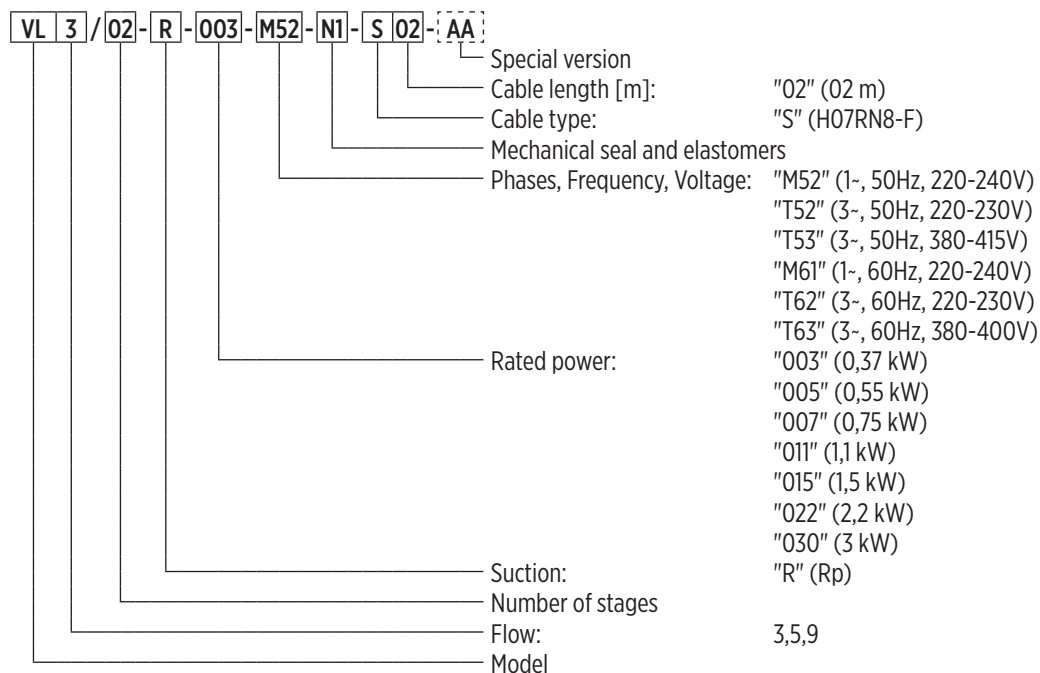
PRODUCT OVERVIEW

VN SERIES PRODUCT IDENTIFICATION CODE



0040073 12/2024

VL SERIES PRODUCT IDENTIFICATION CODE



0040073 12/2024

PRODUCT OVERVIEW

GENERAL FEATURES

Model:		3	5	9	3	5	9
Frequency:		50 Hz			60 Hz		
Nominal flow [m³/h]:		3	5	9	3	5	9
Liquid temperature range [°C]:		-5 / +40					
Max. D hydraulic [%]:		42,3	56,2	62	42,3	56,2	62
Range [m³/h]:		1,5 - 4,5	2,5 - 7,0	5,0 - 14,0	2,0 - 5,5	3,0 - 9,0	6,0 - 16,0
Max. head [m]:		98,5	100	91	97	101	74
Maximum operating pressure [bar]:	VN	12					
	VL	15					
Discharge outlet:	VN	1"¼ Rp					
	VL	Rp threaded for inlet and outlet					
Maximum immersion depth:	VN	17 (with 20 m power cable length) 20 (with power cable longer than 20 m)					
Maximum allowable amount of sand/ Maximum solids size:	VN	50 g/m³, up to 2 mm					
Power cable:	VL-VLi 3/2-10 5/4-10, 9/3-9 50 Hz, VL-VLi 3/3-7, 5/2-7, 9/2-6 60 Hz	2 m, type H07RN8-F 4G1					
	L = 20 m on the VN with absorption up to 10 A	20 m, type 07VB-F 4G1					
	L = 20 m on the VN which have absorption > 10 A	20 m, type 07VB-F 4G1,5					
Options single-phase version:	VN	with float switch					
		without float switch					
Motor power range [kW]:		0,55 - 1,5	0,75 - 2,2	1,1 - 3,0	0,55 - 1,5	0,75 - 2,2	1,1 - 3,0
Motor type:		Asynchronous Protection degree: IP68 Insulation class: F					
Motor standard voltage:	Single-phase (thermal protection built into the motor up to 1.1 kW)	220-240 V ± 5 %			220-230V ± 5 %		
	Three-phase (thermal protection to be provided into the starter panel by the Installer)	220-240 V ± 5 % 380-415 V ± 5 %			220-230V ± 5 % 380-400V ± 5 %		
Motor frequency of starts:		Max. 40 starts/hour (with min. 1 minutes resting time)					
Certificates:		  NSF International Food Safety & Quality in Europe BY Q2/2025					

PRODUCT OVERVIEW

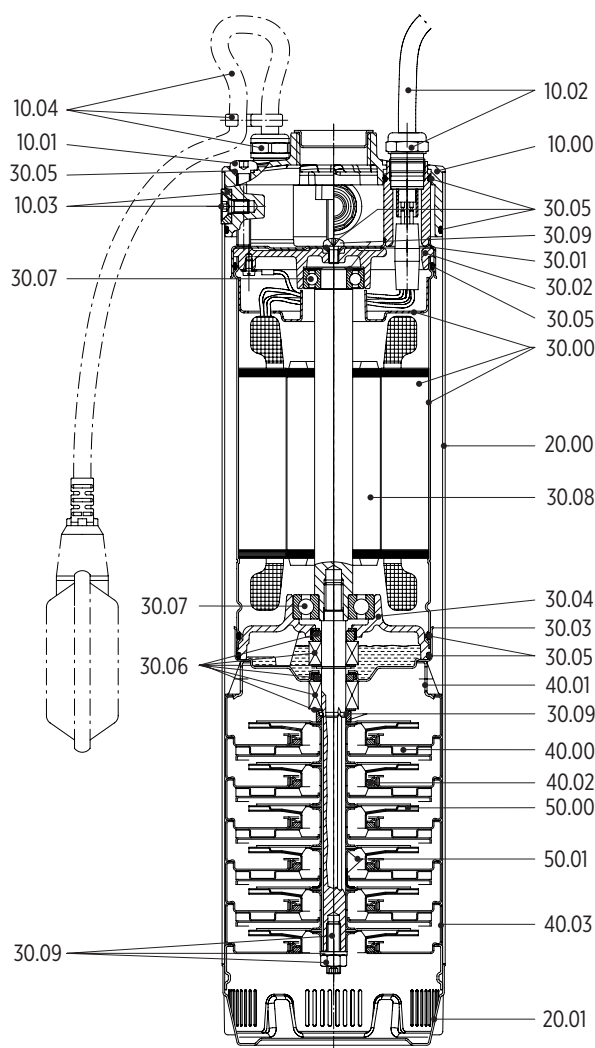
SPARE PARTS AND MATERIALS

Ref. No.	Parts description
10.00	Discharge head
10.01	Screws for pre-loading assembly
10.02	Power cable assembly
10.03	Screws and inserts
10.04	Level control assembly
20.00	Outer case
20.01	Suction head
30.00	Motor housing and stator
30.01	Upper motor cover
30.02	Upper bearing housing
30.03	Lower motor cover
30.04	Lower bearing cover
30.05	Kit O-Ring
30.06	Mechanical seal
30.07	Ball bearings
30.08	Rotor and pump shaft
30.09	Screws, nut and washers
40.00	Stage housing with diffuser
40.01	Spacer
40.02	Floating neck ring assembly
40.03	Initial stage housing
50.00	Impeller
50.01	Impeller spacers

Notes:

For VN-VL 9, diffusers = impellers + 1

Ex. VN-VL 9/4 = 4 impellers and 5 diffusers



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PARTS IN CONTACT WITH LIQUID

Ref. No.	Parts description	Material	Standard	
			AISI/ASME	DIN/EN
10.00	Discharge head	Nickel plated brass	-	A351 CF8/304
20.00	Outer case	Stainless steel	AISI 304	14301
20.01	Suction head	Stainless steel	AISI 304	14301
30.00	Motor housing and stator	Stainless steel	AISI 304	14301
30.01	Upper motor cover	Stainless steel	AISI 304	14301
30.03	Kit O-Ring	NBR	AISI 304	14301
30.05	Mechanical seal	VN: Silicon carbide / Silicon carbide / NBR (N3)	-	-
		VL: Silicon carbide / Carbon graphite / NBR (N1)	-	-
30.08	Rotor and pump shaft	Stainless steel	-	-
30.09	Screws, nut and washers	Stainless steel	AISI 304	14301
40.00	Stage housing with diffuser	Stainless steel	AISI 304	14301
40.01	Spacer	PPS	AISI 304	14301
40.02	Floating neck ring assembly	Stainless steel	AISI 304	14301
40.03	Initial stage housing	Stainless steel	AISI 304	14301
50.00	Impeller	Stainless steel	AISI 304	14301

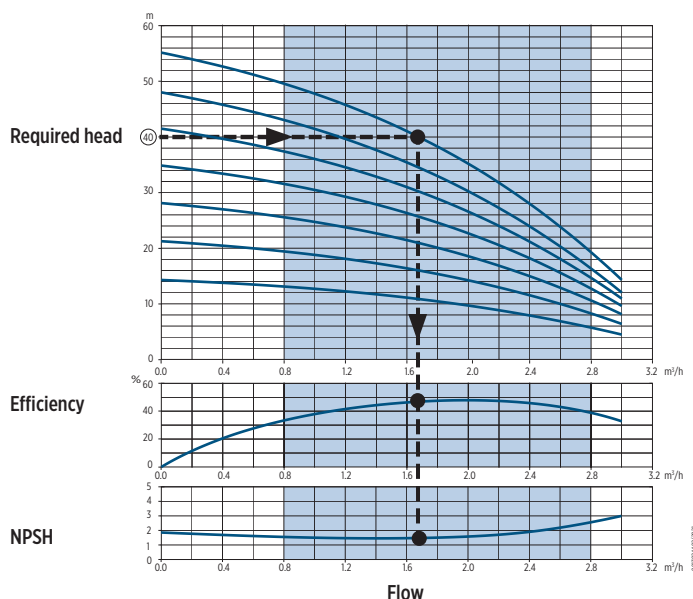
PERFORMANCE SELECTION

This section describes **how to select the pump model that better suits your needs.**

The required information are:

- The required flow
- The input and output pressure
- The fluid features (density, viscosity, temperature, chemical aggressiveness and presence of abrasive particles)
- The connection type

Check if the pump piping type selected is able to withstand the maximum working pressure required (pump nominal pressure $P_N \geq$ application nominal pressure).



The difference between the outlet required pressure and the input pressure allows to determine the head the pump must supply to the fluid. The duty point is determined crossing the values of flow and head.

For the best selection of multistage pump, proceed in this way:
Select the pump family according to the requested flow (close as much as possible to the best efficiency point).

1. Choose the number of stages nearest to the requested head.
2. Draw a vertical line from duty point to determine the absorbed power, the pump efficiency and the NPSH required.

If the viscosity of fluid is significantly different from clean water at ambient temperature, it's necessary to change the selection parameters (contact the manufacturer). Moreover, in case the density or viscosity are higher than water values, it will be necessary to consider a higher power sizing (contact the manufacturer).

NPSH check:

The available pump input NPSH value must be compared with the pump required value in order to avoid performance losses and wearing of the pump.

The maximum height of the pump from the liquid level (H) can be calculated with the following formula:

$$H = p_b \times 10.2 - NPSH - H_f - H_v - H_s$$

Where:

p_b : Absolute barometric pressure or absolute pressure of the liquid on suction side [bar].

NPSH: Suction head at maximum duty flow rate [m]

H_f : Pressure drop in the suction pipe at maximum flow rate [m]

H_v : Vapour pressure [m] depending on the temperature of the liquid [m]

H_s : Safety margin [m] (minimum 0.5)

If the calculated value is less than "0", the pump must be positioned below the liquid level by the value of H.



TECHNICAL DATA AND PERFORMANCE CURVES AT 50 HZ

HYDRAULIC PERFORMANCE

Pump model	Rated power		Q = Delivery													
			l/min 0	16,6	25	33,3	41,7	50	75	83,3	100	125	150	183,3	233,3	266,7
			m³/h 0	1	1,5	2	2,5	3	4,5	5	6	7,5	9	11	14	16
	gpm 0	4,4	6,6	8,8	11	13,2	19,8	22	26,4	33	39,6	48,4	61,6	70,4		
[kW]	[HP]	H = Total meters head of water column [m]														
VN-VL 3/3	0,55	0,75	34		30,5	28,5	26	24	14							
VN-VL 3/4	0,55	0,75	45		40	37,5	34	31	18							
VN-VL 3/5	0,75	1	56		49	46	42	38	22							
VN-VL 3/6	0,75	1	66		58,5	54	49	44	25							
VN-VL 3/7	0,9	1,2	77		67	62	56	50	28							
VN-VL 3/8	1,1	1,5	87		75,5	70	63	56	31							
VN-VL 3/9	1,5	2	99		87	80,5	73	65	37							
VN-VL 3/10	1,5	2	109		95	88	80	71	40							
VN-VL 5/4	0,75	1	46				40,5	39	34,5	33	28	18,5				
VN-VL 5/5	0,9	1,2	57				50	48	42	40	34	22				
VN-VL 5/6	1,1	1,5	67,5				58,5	56,5	49	46	39	24				
VN-VL 5/7	1,5	2	79				69	67	58,5	55	47	30				
VN-VL 5/8	1,5	2	90				78	75,5	65	61,5	52	32,5				
VN-VL 5/9	2,2	3	103				91	88	77	73,5	63	41,5				
VN-VL 5/10	2,2	3	114				100	97	85	80,5	69	45				
VN-VL 9/3	1,1	1,5	35							31	30	28	25,5	21	10	
VN-VL 9/4	1,5	2	47							41	39,5	37	34	28	13	
VN-VL 9/5	2,2	3	59							52,5	51	48	44,5	37	18	
VN-VL 9/6	2,2	3	70,5							62	60	56,5	52	42,5	20	
VN-VL 9/7	3	4	82,5							73	70	66	61	50	24	
VN-VL 9/8	3	4	94							82	79	74	68	55	25,5	
VN-VL 9/9	3	4	105							91	87	82	74,5	60	26,5	

Application range

VN/VL 3 - 50 HZ

TECHNICAL DATA

Electric Pump		Number of stages	Motor power		Input power	Capacitor		Rated current		
Single-phase	Three-phase		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
					[kW]			220-230 V	220-230 V	380-400 V
VN-VL 3/3	VN-VL 3/3T	3	0,55	0,75	0,71	20	450	3,6	3,2	1,8
VN-VL 3/4	VN-VL 3/4T	4	0,55	0,75	0,84	20	450	4,1	3,5	2
VN-VL 3/5	VN-VL 3/5T	5	0,75	1	0,99	20	450	4,7	3,6	2,1
VN-VL 3/6	VN-VL 3/6T	6	0,75	1	1,15	20	450	5,2	4	2,3
VN-VL 3/7	VN-VL 3/7T	7	0,9	1,2	1,34	30	450	6,7	4,3	2,5
VN-VL 3/8	VN-VL 3/8T	8	1,1	1,5	1,5	30	450	7,2	4,7	2,7
VN-VL 3/9	VN-VL 3/9T	9	1,5	2	1,73	35	450	9,2	5,2	3
VN-VL 3/10	VN-VL 3/10T	10	1,5	2	1,89	35	450	9,8	5,5	3,2

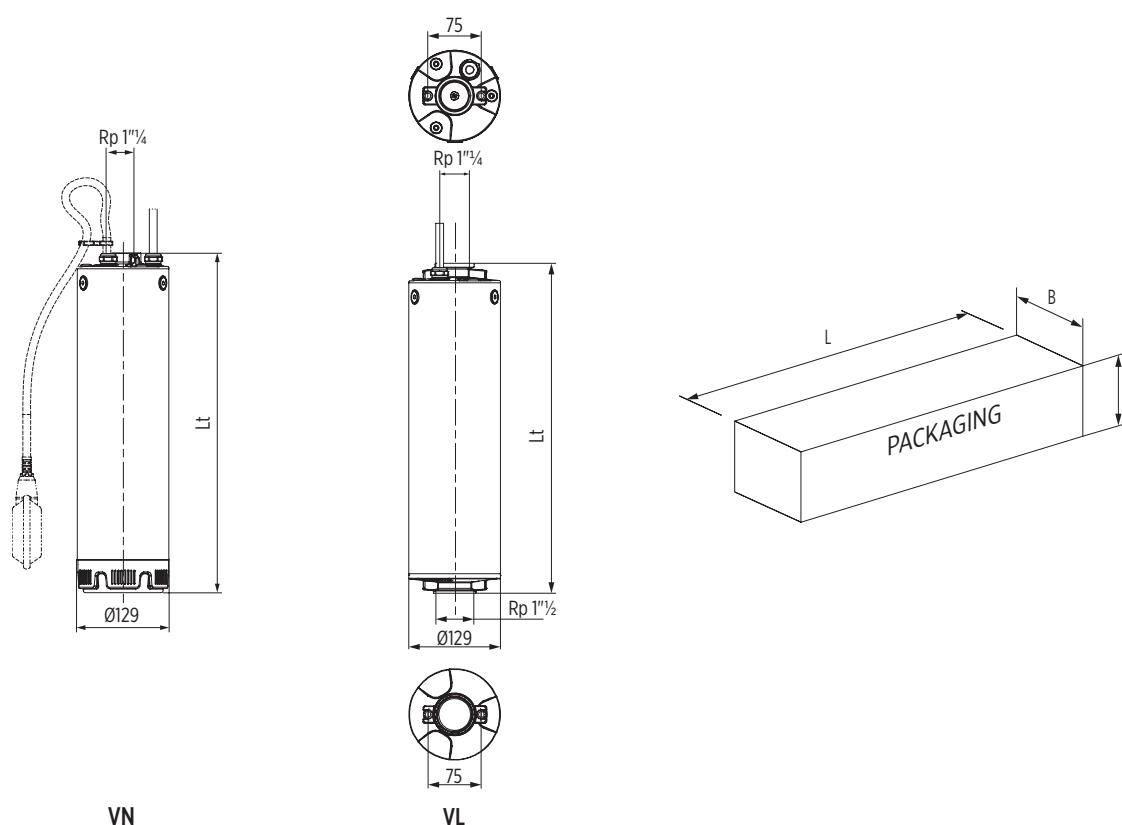
DIMENSIONS AND WEIGHTS

Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VN 3/3	VN 3/3T	456	14	15,5	720	230	175
VN 3/4	VN 3/4T	480	15	16,5	720	230	175
VN 3/5	VN 3/5T	504	16,8	17	720	230	175
VN 3/6	VN 3/6T	528	17,3	16,8	720	230	175
VN 3/7	VN 3/7T	552	19	18	720	230	175
VN 3/8	VN 3/8T	576	19,5	18,5	720	230	175
VN 3/9	VN 3/9T	650	22,5	20,5	800	230	195
VN 3/10	VN 3/10T	674	23	21	800	230	195

* Electric pump weight without float switch

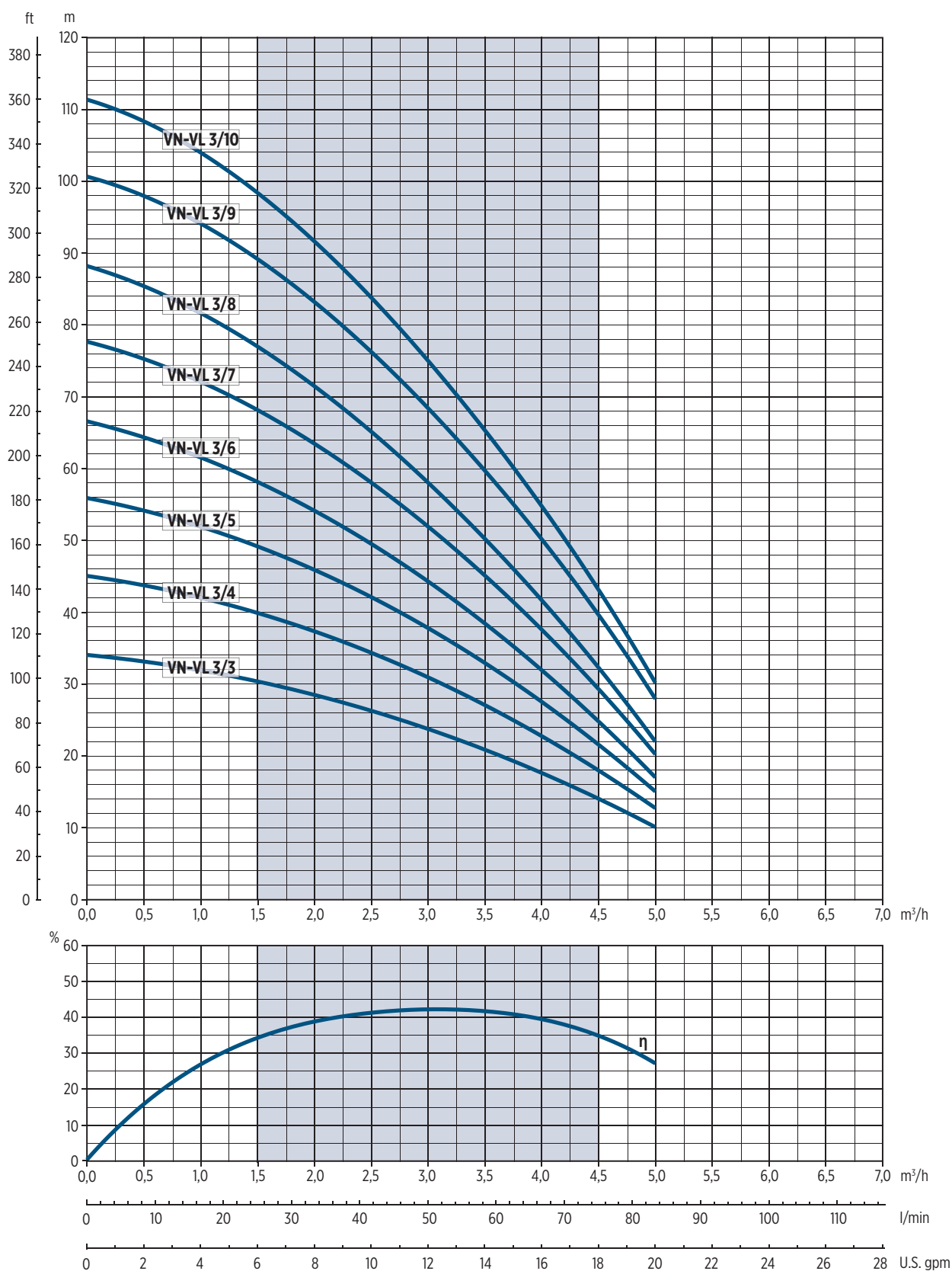
Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VL 3/3	VL 3/3T	440	13	14,9	720	230	175
VL 3/4	VL 3/4T	464	13,8	15,3	720	230	175
VL 3/5	VL 3/5T	488	15,3	15,3	720	230	175
VL 3/6	VL 3/6T	512	15,8	15,8	720	230	175
VL 3/7	VL 3/7T	536	17,5	16,3	720	230	175
VL 3/8	VL 3/8T	560	18	16,9	720	230	175
VL 3/9	VL 3/9T	634	20,9	18,8	800	230	195
VL 3/10	VL 3/10T	658	21,5	19,3	800	230	195

DIMENSIONAL DRAWINGS



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VN/VL 3 - PERFORMANCE CURVES AT 50 HZ



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VN/VL 5 - 50 HZ

TECHNICAL DATA

Electric Pump		Number of stages	Motor power		Input power	Capacitor		Rated current		
								Single-phase	Three-phase	
Single-phase	Three-phase		[kW]	[HP]	[kW]	μF	[V]	220-230 V	220-230 V	380-400 V
VN-VL 5/4	VN-VL 5/4T	4	0,75	1	1,07	20	450	5	3,8	2,2
VN-VL 5/5	VN-VL 5/5T	5	0,9	1,2	1,34	30	450	6,7	4,3	2,5
VN-VL 5/6	VN-VL 5/6T	6	1,1	1,5	1,56	30	450	7,5	4,8	2,8
VN-VL 5/7	VN-VL 5/7T	7	1,5	2	1,86	35	450	9,7	5,5	3,2
VN-VL 5/8	VN-VL 5/8T	8	1,5	2	2,08	35	450	10,5	6,1	3,5
VN-VL 5/9	VN-VL 5/9T	9	2,2	3	2,35	45	450	10,7	8,7	5
VN-VL 5/10	VN-VL 5/10T	10	2,2	3	2,56	45	450	11,5	9	5,2

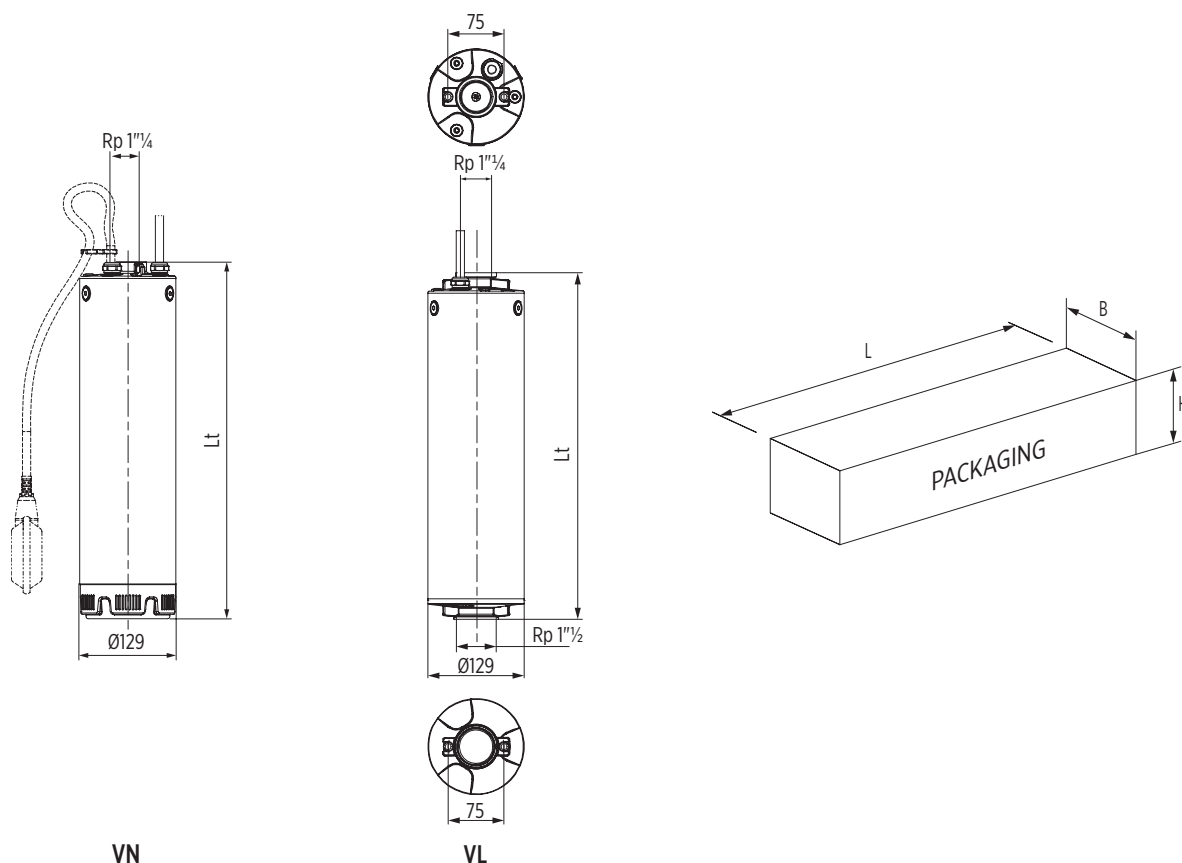
DIMENSIONS AND WEIGHTS

Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VN 5/4	VN 5/4T	480	15,3	16,5	720	230	175
VN 5/5	VN 5/5T	504	18	17	720	230	175
VN 5/6	VN 5/6T	528	18,8	17,8	720	230	175
VN 5/7	VN 5/7T	602	21,5	19,3	800	230	195
VN 5/8	VN 5/8T	626	21,9	20	800	230	195
VN 5/9	VN 5/9T	650	24	22,5	800	230	195
VN 5/10	VN 5/10T	674	24,5	23	800	230	195

* Electric pump weight without float switch

Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VL 5/4	VL 5/4T	464	13,8	15	720	230	175
VL 5/5	VL 5/5T	488	16,5	15,3	720	230	175
VL 5/6	VL 5/6T	512	17,3	16	720	230	175
VL 5/7	VL 5/7T	586	20	17,8	800	230	195
VL 5/8	VL 5/8T	610	20,3	18,3	800	230	195
VL 5/9	VL 5/9T	634	22	21	800	230	195
VL 5/10	VL 5/10T	658	22,5	21,5	800	230	195

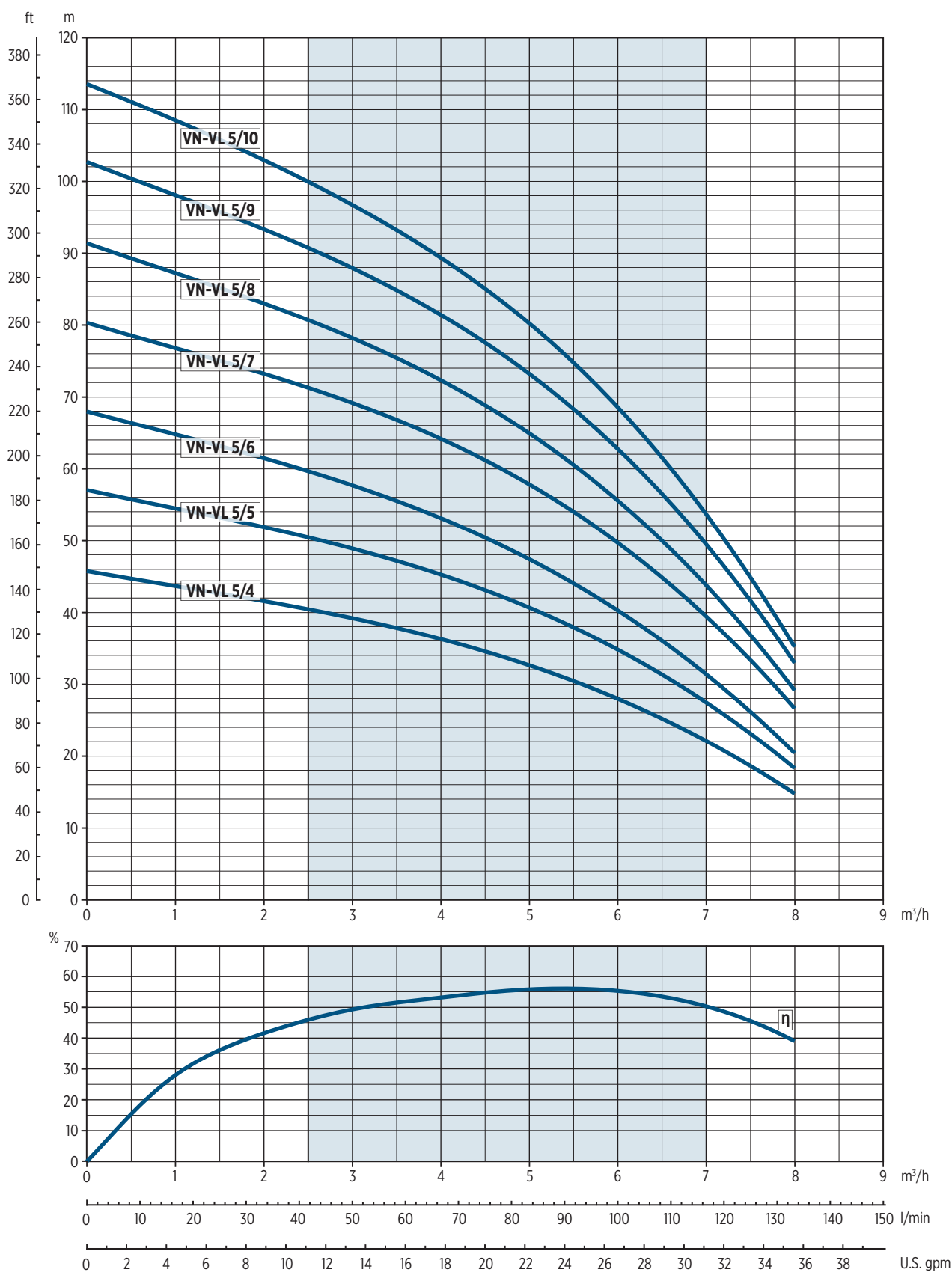
DIMENSIONAL DRAWINGS



VN

VL

VN/VL 5 - PERFORMANCE CURVES AT 50 HZ



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VN/VL 9 - 50 HZ

TECHNICAL DATA

Electric Pump		Number of stages	Motor power		Input power	Capacitor		Rated current		
Single-phase	Three-phase		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
					[kW]			220-230 V	220-230 V	380-400 V
VN-VL 9/3	VN-VL 9/3T	3	1,1	1,5	1,44	30	450	6,9	4,5	2,6
VN-VL 9/4	VN-VL 9/4T	4	1,5	2	1,86	35	450	9,7	5,5	3,2
VN-VL 9/5	VN-VL 9/5T	5	2,2	3	2,3	45	450	10,5	8,7	5
VN-VL 9/6	VN-VL 9/6T	6	2,2	3	2,68	45	450	11,9	9,2	5,3
-	VN-VL 9/7T	7	3	4	3,16	-	-	-	10,2	5,9
-	VN-VL 9/8T	8	3	4	3,54	-	-	-	10,9	6,3
-	VN-VL 9/9T	9	3	4	3,91	-	-	-	11,8	6,8

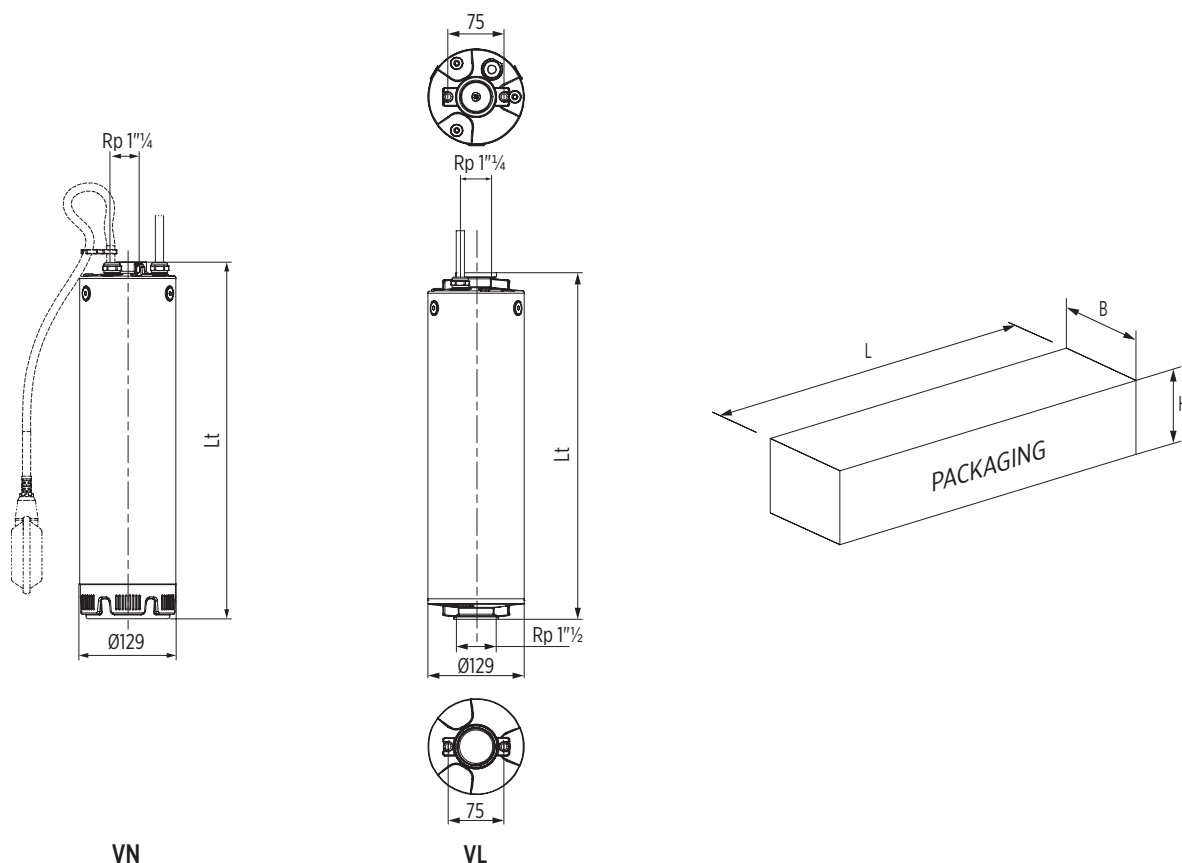
DIMENSIONS AND WEIGHTS

Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VN 9/3	VN 9/3T	504	17,3	16	720	230	175
VN 9/4	VN 9/4T	584	20,3	18,3	720	230	175
VN 9/5	VN 9/5T	614	22,3	21	800	230	195
VN 9/6	VN 9/6T	644	23	21,5	800	230	195
-	VN 9/7T	674	-	24	800	230	195
-	VN 9/8T	704	-	24,8	800	230	195
-	VN 9/9T	734	-	25,5	800	230	195

* Electric pump weight without float switch

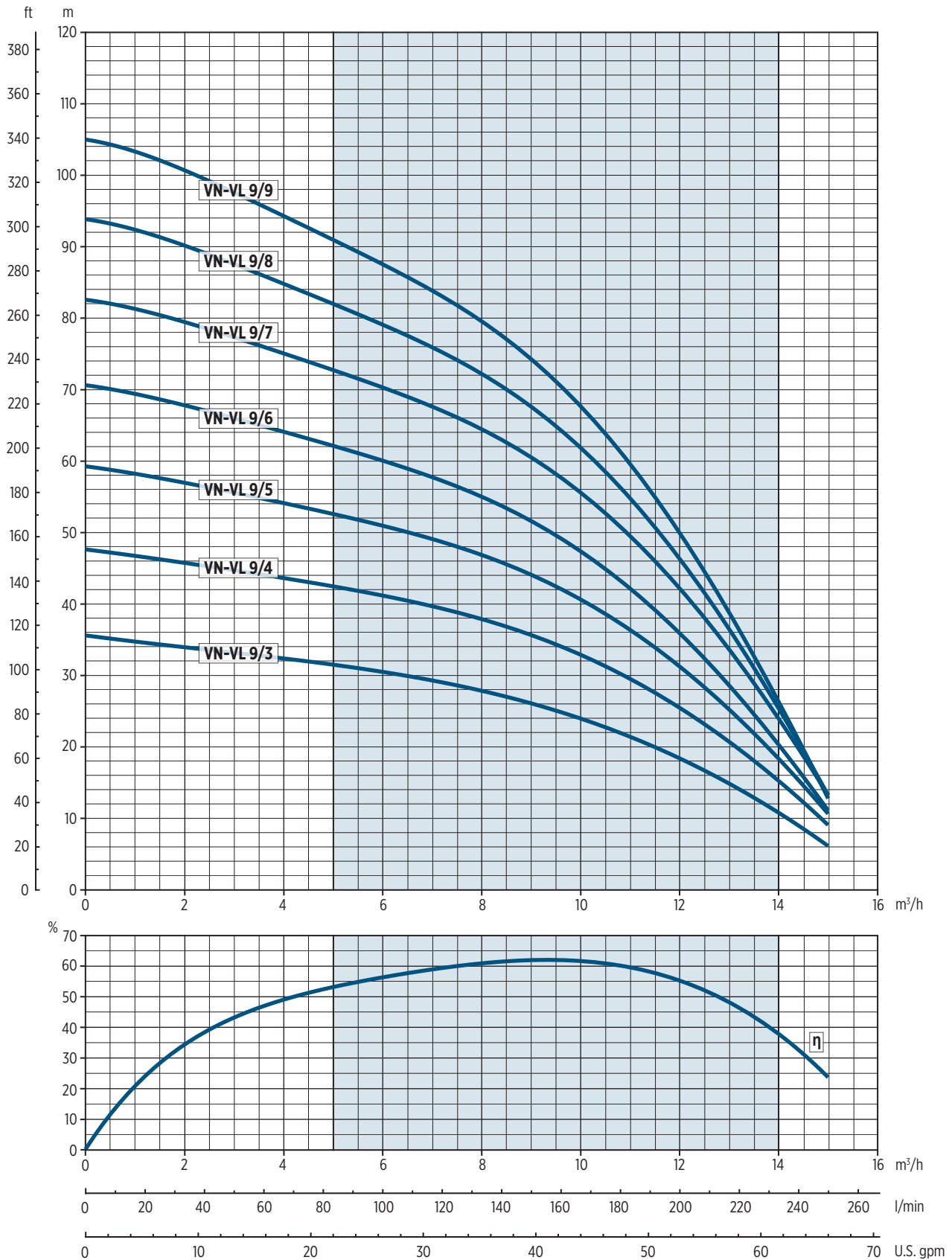
Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VL 9/3	VL 9/3T	488	15,8	14,6	720	230	175
VL 9/4	VL 9/4T	568	18,8	16,8	720	230	175
VL 9/5	VL 9/5T	598	20,5	19,4	800	230	195
VL 9/6	VL 9/6T	628	21,3	20	800	230	195
-	VL 9/7T	658	-	21,9	800	230	195
-	VL 9/8T	688	-	22,5	800	230	195
-	VL 9/9T	718	-	23	800	230	195

DIMENSIONAL DRAWINGS



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VN/VL 9 - PERFORMANCE CURVES AT 50 HZ



9/06/2019



TECHNICAL DATA AND PERFORMANCE CURVES AT 60 HZ

HYDRAULIC PERFORMANCE

Pump model	Rated power		Q = Delivery																
			l/min 0	25	29,2	41,7	50	58,3	75	91,7	100	116,7	133,3	150	175	208,3	241,7	266,7	300
			m³/h 0	1,5	1,8	2,5	3	3,5	4,5	5,5	6	7	8	9	10,5	12,5	14,5	16	18
	gpm 0	6,6	7,7	11	13,2	15,4	19,8	24,2	26,4	30,8	35,2	39,6	46,2	55	63,8	70,4	79,3		
	[kW]	[HP]	H = Total meters head of water column [m]																
VN-VL 3/3	0,75	1	49		44	40,5	37,5	34	27,5	19									
VN-VL 3/4	0,9	1,2	64.5		57,5	52,5	48,5	44,5	35	24,5									
VN-VL 3/5	1,1	1,5	80		70,5	64	59	54	42	29									
VN-VL 3/6	1,5	2	96		85	78	71,5	65,5	52	35,5									
VN-VL 3/7	1,5	2	111		98	89	82	75	58,5	39,5									
VN-VL 5/2	0,75	1	34				30	29,5	28	26	25	22,5	19	15					
VN-VL 5/3	0,9	1,2	50				44	43	40,5	37,5	36	32	27	20,5					
VN-VL 5/4	1,1	1,5	66				57,5	56	52	48	46	40,5	33,5	25					
VN-VL 5/5	1,5	2	82				72	70	65,5	60,5	58	51	42,5	32					
VN-VL 5/6	2,2	3	99				88	86	80,5	74,5	71,5	64	53	41					
VN-VL 5/7	2,2	3	115				101,5	99	92,5	85,5	82	72,5	60	46					
VN-VL 9/2	1,1	1,5	34								30	29	28,5	27,5	26	22	17,5	13	
VN-VL 9/3	1,5	2	51								45	43	42	40,5	38	33	25	18,5	
VN-VL 9/4	2,2	3	68								60	58,5	57	55	51,5	44,5	35	26	
VN-VL 9/5	3	4	84.5								74	71,5	69	67	62,5	53,5	41	30	
VN-VL 9/6	3,7	5	101.8								89,4	86,8	84,2	81,3	76,2	65,6	50,9	37,1	

Application range

VN/VL 3 - 60 HZ

TECHNICAL DATA

Electric Pump		Number of stages	Motor power		Input power	Capacitor		Rated current		
Single-phase	Three-phase		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
					[kW]			220-230 V	220-230 V	380-400 V
VN-VL 3/3	VN-VL 3/3T	3	0,75	1	1,05	20	450	5,2	4,2	2,4
VN-VL 3/4	VN-VL 3/4T	4	0,9	1,2	1,3	20	450	6,2	4,5	2,6
VN-VL 3/5	VN-VL 3/5T	5	1,1	1,5	1,61	25	450	8	5,2	3
VN-VL 3/6	VN-VL 3/6T	6	1,5	2	1,99	35	450	9,2	6,2	3,6
VN-VL 3/7	VN-VL 3/7T	7	1,5	2	2,26	35	450	10,4	6,8	3,9

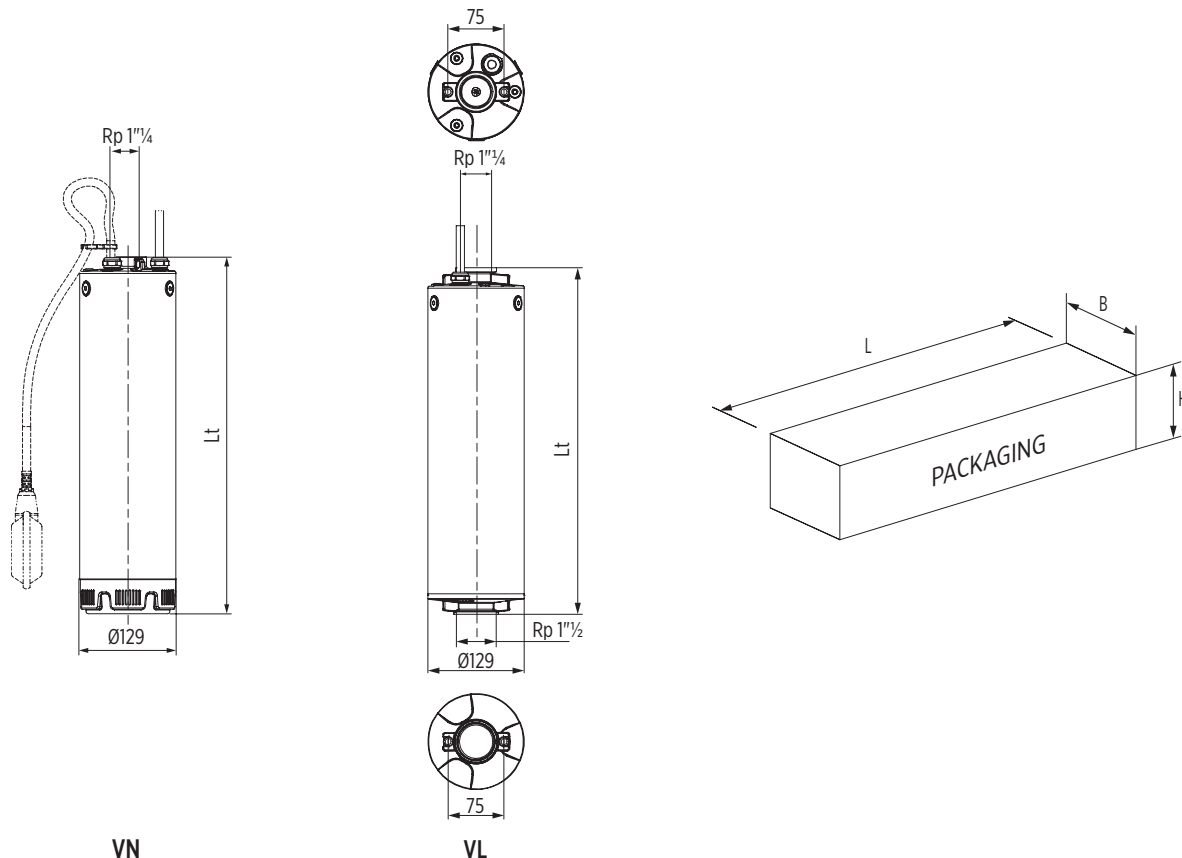
DIMENSIONS AND WEIGHTS

Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VN 3/3	VN 3/3T	456	15,8	16	720	230	175
VN 3/4	VN 3/4T	480	16,3	16,3	720	230	175
VN 3/5	VN 3/5T	504	18	16,8	720	230	175
VN 3/6	VN 3/6T	578	20,5	18,5	720	230	175
VN 3/7	VN 3/7T	602	21,3	19,3	800	230	195

* Electric pump weight without float switch

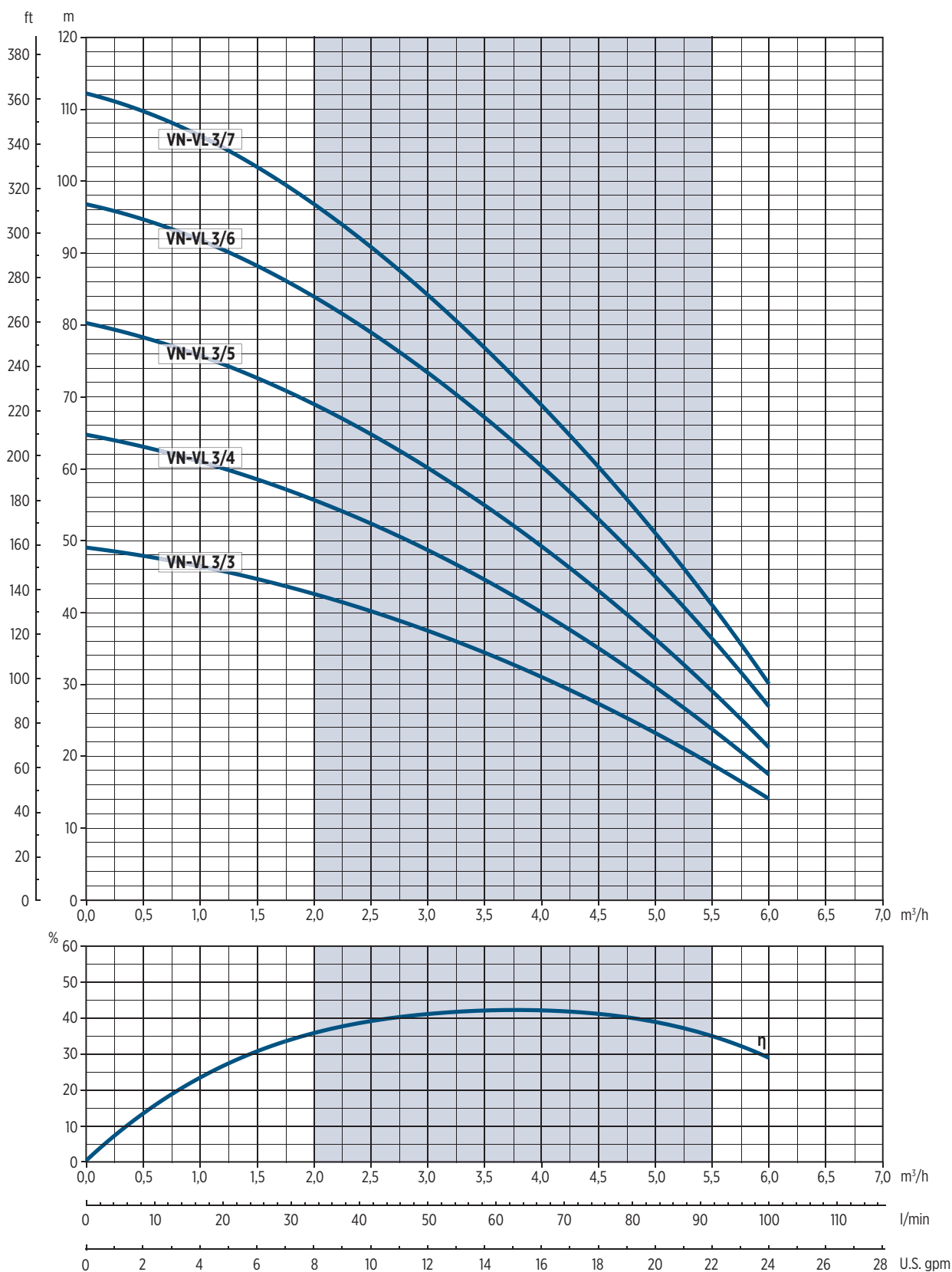
Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VL 3/3	-	440	14,2	-	720	230	175
VL 3/4	VL 3/4T	464	14,8	14,8	720	230	175
VL 3/5	VL 3/5T	488	16,4	15,3	720	230	175
VL 3/6	VL 3/6T	562	19	17,2	720	230	175
VL 3/7	VL 3/7T	586	19,6	17,7	800	230	195

DIMENSIONAL DRAWINGS



00150217 12/2024

VN/VL 3 - PERFORMANCE CURVES AT 60 HZ



00120240 06/2019

VN/VL 5 - 60 HZ

TECHNICAL DATA

Electric Pump		Number of stages	Motor power		Input power	Capacitor		Rated current		
Single-phase	Three-phase		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
					[kW]			220-230 V	220-230 V	380-400 V
VN-VL 5/2	-	2	0,75	1	1	20	450	5	-	-
VN-VL 5/3	VN-VL 5/3T	3	0,9	1,2	1,35	20	450	6,4	4,7	2,7
VN-VL 5/4	VN-VL 5/4T	4	1,1	1,5	1,78	25	450	8,6	5,5	3,2
VN-VL 5/5	VN-VL 5/5T	5	1,5	2	2,26	35	450	10,4	6,8	3,9
-	VN-VL 5/6T	6	2,2	3	2,78	-	-	-	9,9	5,7
-	VN-VL 5/7T	7	2,2	3	3,16	-	-	-	10,6	6,1

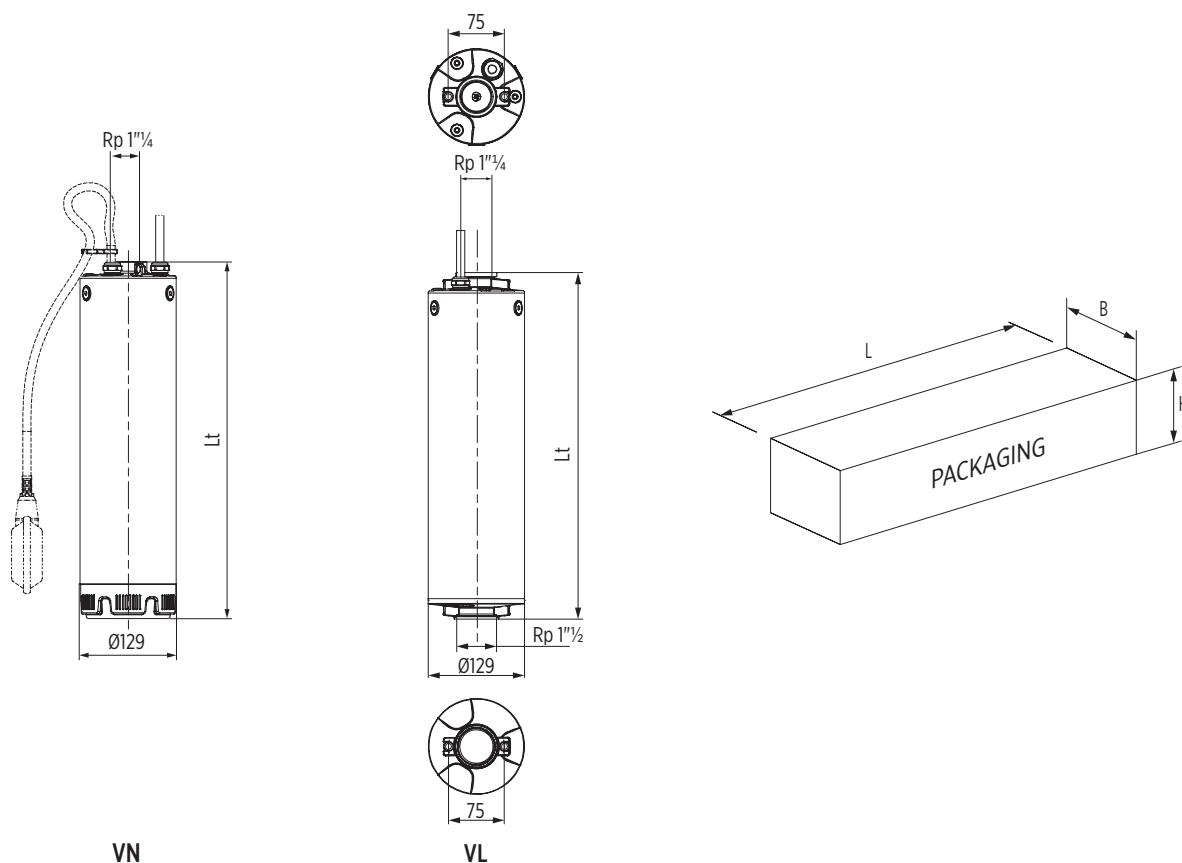
DIMENSIONS AND WEIGHTS

Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VN 5/2	-	432	15,3	-	720	230	175
VN 5/3	VN 5/3T	456	15,8	15,8	720	230	175
VN 5/4	VN 5/4T	480	17,5	16,3	720	230	175
VN 5/5	VN 5/5T	554	20,5	18,5	720	230	175
-	VN 5/6T	578	-	20,8	720	230	175
-	VN 5/7T	602	-	21,5	800	230	195

* Electric pump weight without float switch

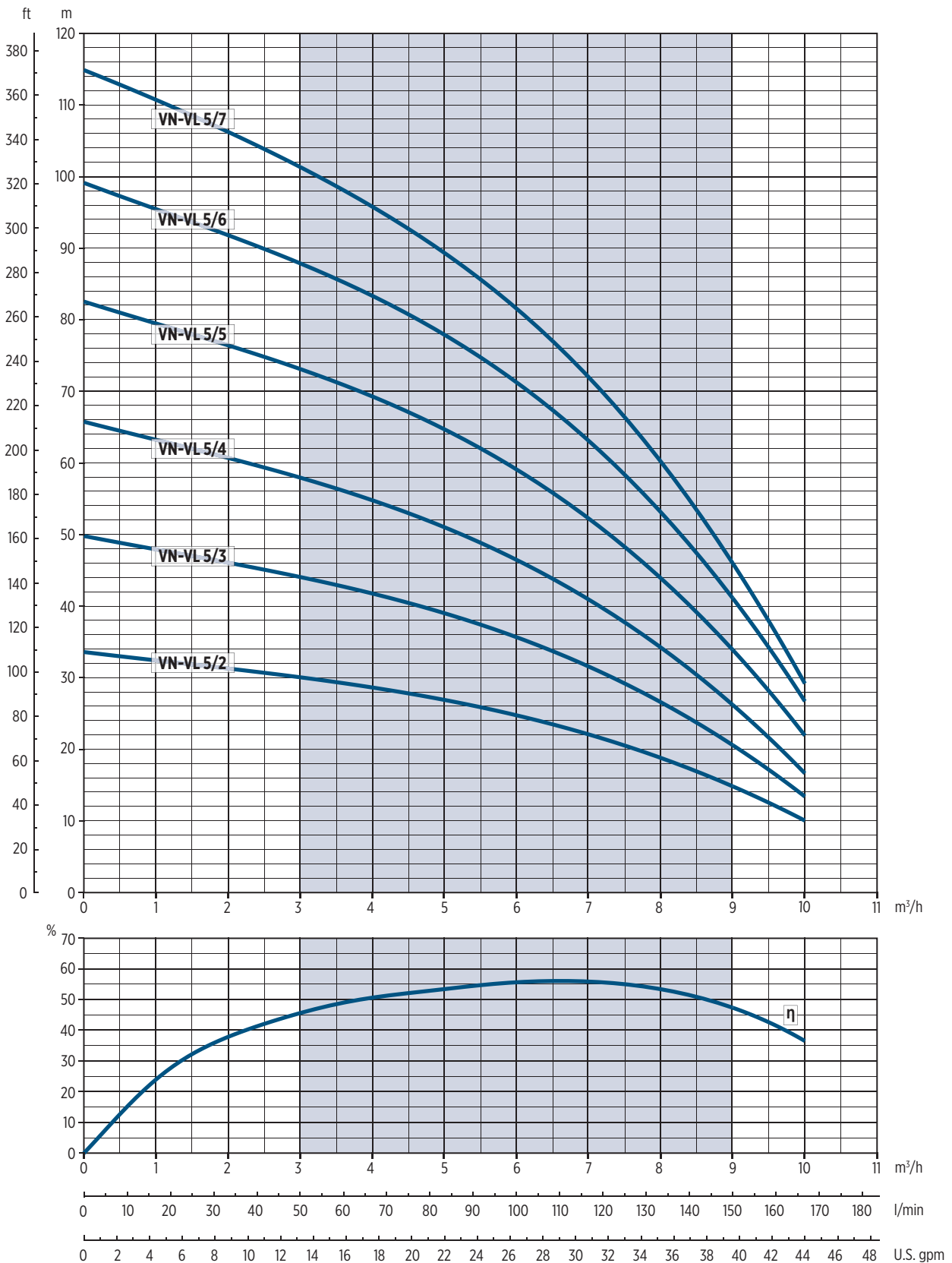
Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VL 5/2	-	416	13,6	-	720	230	175
VL 5/3	-	440	14,2	-	720	230	175
VL 5/4	VL 5/4T	464	15,9	14,8	720	230	175
VL 5/5	VL 5/5T	538	18,5	16,5	720	230	175
-	VL 5/6T	562	-	19,3	720	230	175
-	VL 5/7T	586	-	19,8	800	230	195

DIMENSIONAL DRAWINGS



00302712/2024

VN/VL 5 - PERFORMANCE CURVES AT 60 HZ



0120241 06/2019

VN/VL 9 - 60 HZ

TECHNICAL DATA

Electric Pump		Number of stages	Motor power		Input power	Capacitor		Rated current		
Single-phase	Three-phase		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
					[kW]			220-230 V	220-230 V	380-400 V
VN-VL 9/2	VN-VL 9/2T	2	1,1	1,5	1,59	25	450	7,9	5	2,9
VN-VL 9/3	VN-VL 9/3T	3	1,5	2	2,36	35	450	10,8	7,1	4,1
-	VN-VL 9/4T	4	2,2	3	3,17	-	-	-	10,6	6,1
-	VN-VL 9/5T	5	3	4	3,75	-	-	-	11,8	6,8
-	VN-VL 9/6T	6	3,7	5	4,55	-	-	-	14,7	8,5

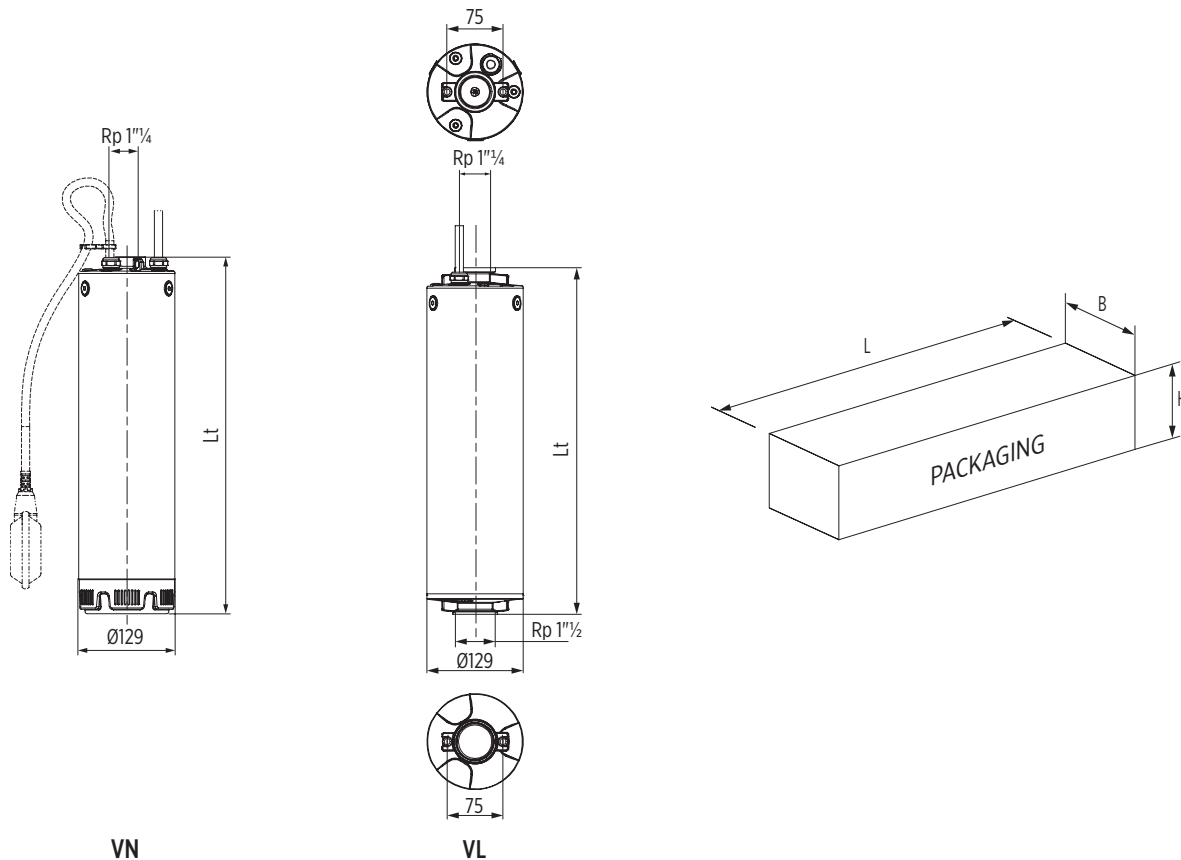
DIMENSIONS AND WEIGHTS

Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VN 9/2	VN 9/2T	474	16,8	15,5	720	230	175
VN 9/3	VN 9/3T	504	20	17,8	720	230	175
-	VN 9/4T	584	-	20,5	720	230	175
-	VN 9/5T	614	-	22	720	230	195
-	VN 9/6T	644	-	23,3	720	230	195

* Electric pump weight without float switch

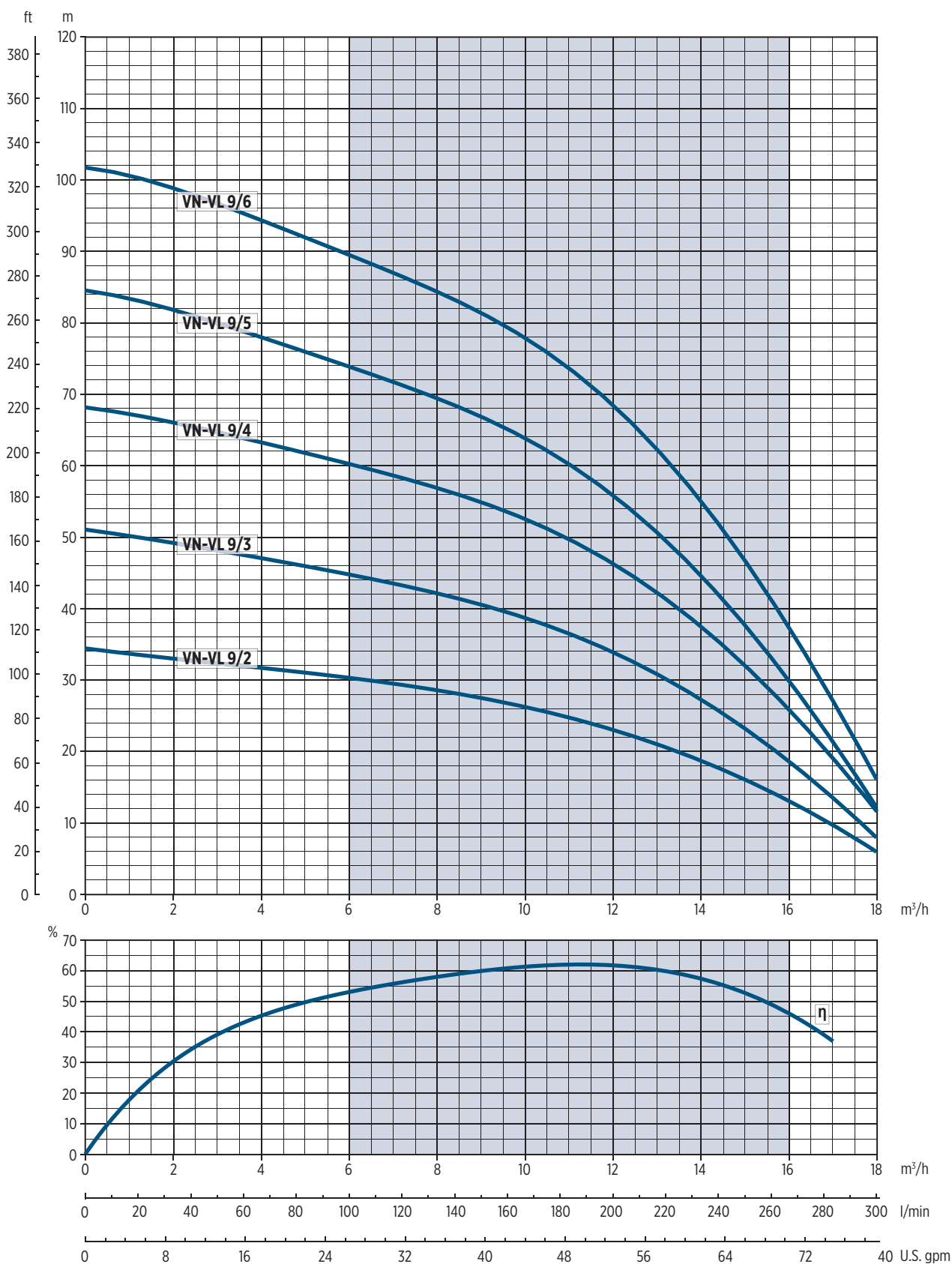
Electric Pump			Weight* [kg]		Packaging [mm]		
Single-phase	Three-phase	Lt [mm]	Single-phase	Three-phase	L	B	H
VL 9/2	VL 9/2T	458	15,1	14	800	230	175
VL 9/3	VL 9/3T	488	17,8	15,9	720	230	175
-	VL 9/4T	568	-	18,7	720	230	175
-	VL 9/5T	598	-	20,6	720	230	195
-	VL 9/6T	628	-	21,7	720	230	195

DIMENSIONAL DRAWINGS



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VN/VL 9 - PERFORMANCE CURVES AT 60 HZ



CATALOG REVISION CHANGES NOTICE

Rev. No.	Changes	Page
00	Undo and replace the catalogues 00105037 VN-VL 50-60 Hz (E-tech brand) and 10000011611 EN CN-CL 50-60 Hz (FPS brand)	all
	New "product identification code"	4
	"General features" table updated	5
	"Parts in contact with liquids " table updated	9
	Technical data tables updated	all
	Dimensional drawing updated	all



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