



Franklin Electric

VN SERIES 50-60 HZ

VN - 5" CLOSE-COUPLED SUBMERSIBLE ELECTRIC PUMPS



INDICE TEMATICO

VN Series - 5" Close-coupled Submersible electric pumps

VN Series - 5" Close-coupled Submersible electric pumps

Family curves.....	3
Product identification code.....	4
General features.....	5

Spare parts and materials

Parts in contact with liquid

Performance selection

Technical data and performance curves at 50 Hz

Hydraulic performance.....	9
VN3.....	10
VN5.....	12
VN9.....	14

Technical data and performance curves at 60 Hz

Hydraulic performance.....	17
VN3.....	18
VN5.....	20
VN9.....	22

Accessories

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

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

VN Series - 5" Close-coupled Submersible electric pumps

- Plug-in type power cable and level control (floater) for easy replacement
- Continuous operation either in vertical or horizontal position
- 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

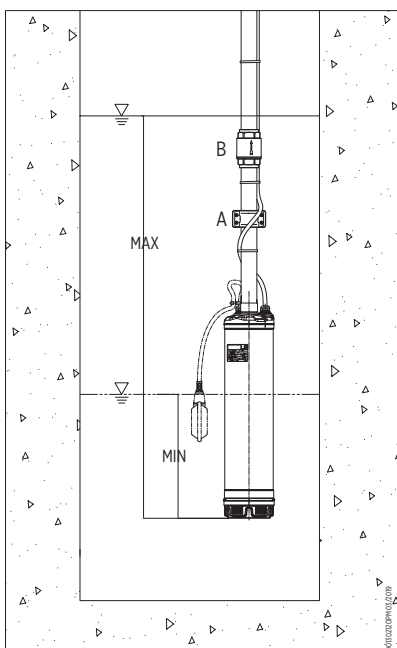
* In compliance with FDA - Food, Drug Administration - and the annex to G.U. no. 104 of 20/04/73 for oils in contact with food stuffs

Technical data

- Flow: up to 14 m³/h at 50 Hz, up to 16 m³/h at 60 Hz
- Head: up to 100 m at 50 Hz and 60 Hz

OPTIONS

- Control panel and inverter
- Floating suction for VN-L



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.

✓ Entirely made in stainless steel

✓ Robust and compact structure

✓ Ideal for rainwater harvesting and reuse

✓ Drinking water approvals



Plugin power cable

Motor

single-phase or three-phase

Float switch

version on request

Double mechanical seal

in oil chamber

Stainless steel impellers and diffusers

Lateral suction port (VN-L)

Strainer (VN-S)



Water Distribution



Rainwater Recovery



Irrigation, Gardening, Sprinklers



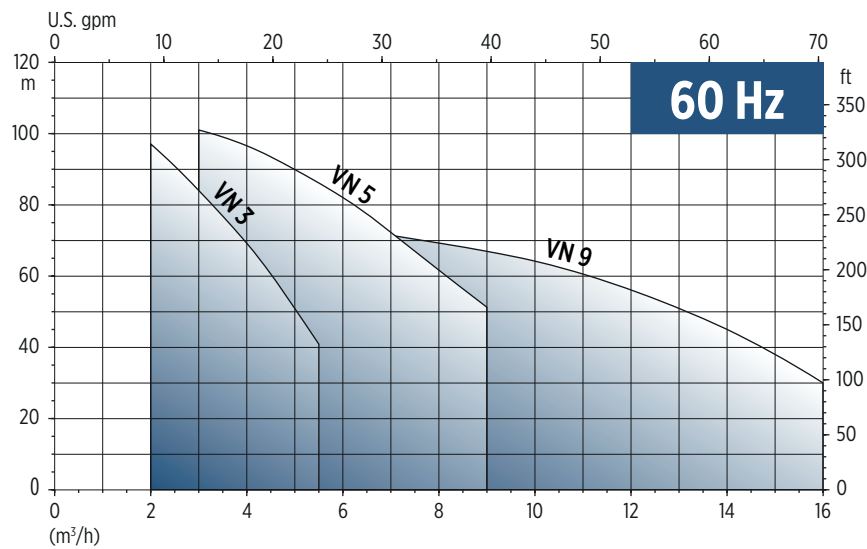
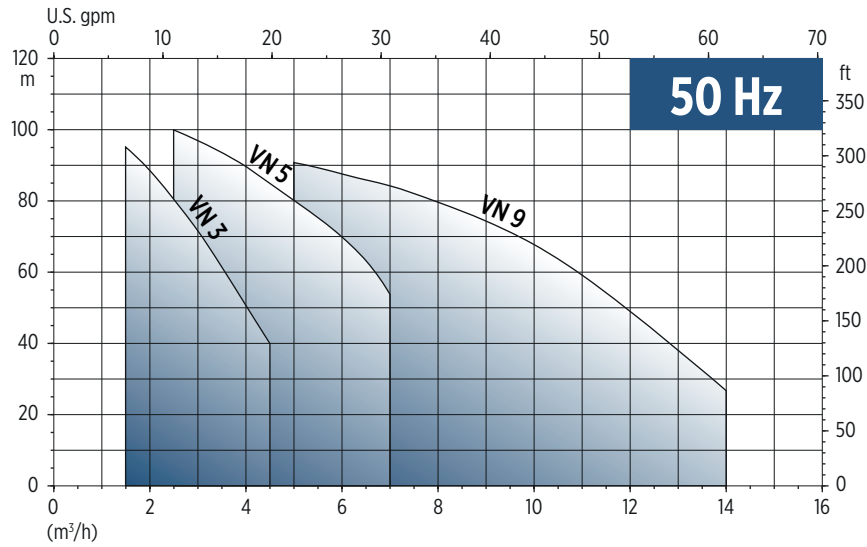
Wash down unit



Slightly corrosive liquids

VN Series - 5" Close-coupled Submersible electric pumps

FAMILY CURVES



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VN Series - 5" Close-coupled Submersible electric pumps

PRODUCT IDENTIFICATION CODE

VN 3 / 03 - S - 003 - M52 F - N3 - B 20 - AA

Special version	
Cable specification:	"D" (With Schuko plug)
Cable length [m]:	"20" (20 m)"
Cable type:	"B" (07VB-F, drink water approved cable)
Mechanical seal and elastomers	
Float switch:	"Empty" (w/o float switch), "F" (with float switch)
Phases, Frequency, Voltage:	"M52" (1-, 50Hz, 220-240V) "T52" (3-, 50Hz, 220-230V) "T53" (3-, 50Hz, 380-415V) "M62" (1-, 60Hz, 220-240V) "T62" (3-, 60Hz, 220-230V) "T63" (3-, 60Hz, 380-400V)
Rated power:	"003" (0,37 kW) "005" (0,55 kW) "007" (0,75 kW) "011" (1,1 kW) "015" (1,5 kW) "022" (2,2 kW) "030" (3 kW)
Suction:	"S" (Screened), "L" (Lateral suction)
Number of stages	
Flow:	3,5,9
Model	

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VN Series - 5" Close-coupled Submersible electric pumps

GENERAL FEATURES

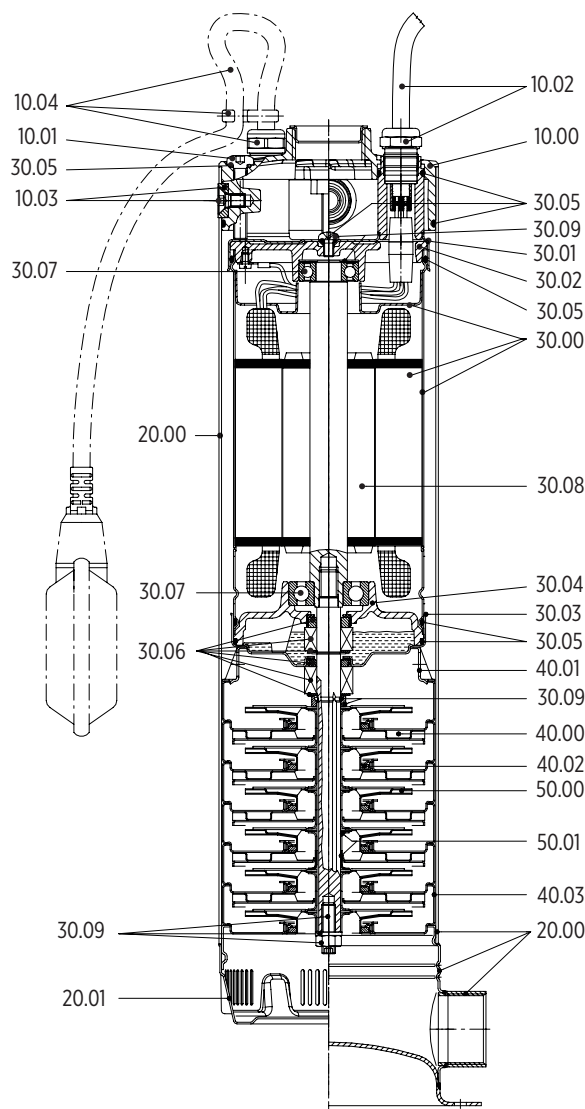
Model:		3	5	9	3	5	9
Frequency:		50 Hz			60 Hz		
Rated flow [m³/h]:		3	5	9	3	5	9
Liquid temperature range [°C]:		-5 / +40					
Max. η hydraulic [%]:		42.3	56.2	62	42.3	56.2	62
Flow range [m³/h]:		1,5 - 4,5	2,5 - 7,0	5,0 - 14,0	2,0 - 5,5	3,0 - 9,0	6,0 - 16,0
Max. head [m]:		98.5	100	91	97	101	74
Maximum operating pressure [bar]:		12					
Discharge outlet:		1"¼ Rp					
Maximum immersion depth:		17 (with 20 m power cable length) 20 (with power cable longer than 20 m)					
Maximum allowable amount of sand / Maximum solids size:		50 g/m³, up to 2 mm					
Power cable:	Rated current < 10 A	20 m, type 07VB-F 4G1					
	Rated current > 10 A	20 m, type 07VB-F 4G1,5					
Options single-phase version:		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:		WRAS WATER REGULATIONS ADVISORY SCHEME 					

VN Series - 5" Close-coupled Submersible electric pumps

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	Filter
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-Rings
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 9, diffusers = impellers + 1
Ex. VN 9/4 = 4 impellers and 5 diffusers



PARTS IN CONTACT WITH LIQUID

Ref. No.	Parts description	Material	Reference standard	
			AISI/ASME	DIN/EN
10.00	Discharge head	Stainless steel	-	A351 CF8/304
20.00	Outer case	Stainless steel	AISI 304	1.4301
20.01	Filter	Stainless steel	AISI 304	1.4301
30.00	Motor housing and stator	Stainless steel	AISI 304	1.4301
30.01	Upper motor cover	Stainless steel	AISI 304	1.4301
30.05	Kit O-Rings	NBR	-	-
30.06	Mechanical seal	Silicon carbide / Silicon carbide / NBR (N3)	-	-
30.08	Rotor and pump shaft	Stainless steel	-	-
30.09	Screws, nut and washers	Stainless steel	AISI 304	1.4301
40.00	Stage housing with diffuser	Stainless steel	AISI 304	1.4301
40.01	Spacer	Stainless steel	A01304	1.4301
40.02	Floating neck ring assembly	PPS	-	-
40.03	Initial stage housing	Stainless steel	AISI 304	1.4301
50.00	Impeller	Stainless steel	AISI 304	1.4301

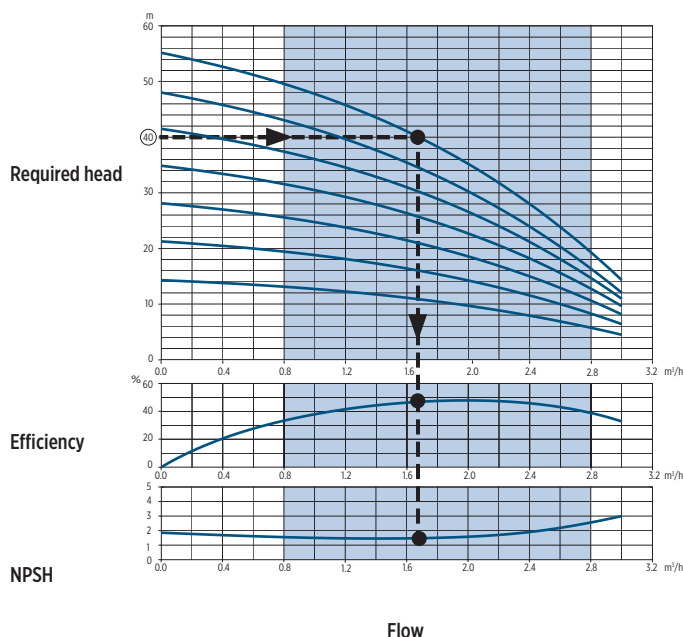
PERFORMANCE SELECTION

This section explains how to choose the pump model that best meets your needs.

The following information are required:

- Required flow
- Input and output pressure
- Fluid features: density, viscosity, temperature, chemical aggressiveness, and presence of abrasive particles.
- The connection type

Verify that the selected pump piping type can withstand the required maximum working pressure (pump nominal pressure $P_N \geq$ application nominal pressure).



The difference between the required outlet pressure and the input pressure determines the head that the pump must supply to the fluid. The duty point is determined by crossing the flow and head values.

To ensure you get the best multistage pump, follow these steps: Select the pump family according to the requested flow rate, choosing the one closest to the best efficiency point.

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

If the viscosity of the fluid differs significantly from that of clean water at ambient temperature, it is necessary to adjust the selection parameters (contact the manufacturer). Additionally, if the density or viscosity is higher than that of water, a higher power sizing will be necessary (contact the manufacturer).

NPSH check:

Compare the available pump input NPSH value with the required pump value to avoid performance losses and pump wear.

The maximum height of the pump above the liquid level (H) can be calculated using this 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.



Hydraulic performance - 50 Hz

VN3

Pump model	Rated power		Q = Delivery													
			[l/min] 0	16,8	25	33,3	41,7	50	75	83,3	100	125	150	183,3	233,3	241,7
			[m³/h] 0	1	1,5	2	2,5	3	4,5	5	6	7,5	9	11	14	14,5
			US gpm 0	4,4	6,61	8,8	11	13,21	19,82	22	26,42	33,03	39,63	48,4	61,6	63,8
			H = Total meters head of water column [m]													
	[kW]	[HP]														
VN3/03	0,55	0,75	34		30,5	28,5	26	24	14							
VN3/04	0,55	0,75	45		40	37,5	34	31	18							
VN3/05	0,75	1	56		49	46	42	38	22							
VN3/06	0,75	1	66		58,5	54	49	44	25							
VN3/07	0,9	1,2	77		67	62	56	50	28							
VN3/08	1,1	1,5	87		75,5	70	63	56	31							
VN3/09	1,5	2	99		87	80,5	73	65	37							
VN3/10	1,5	2	109		95	88	80	71	40							

Application range

VN5

Pump model	Rated power		Q = Delivery													
			[l/min] 0	16,8	25	33,3	41,7	50	75	83,3	100	125	150	183,3	233,3	241,7
			[m³/h] 0	1	1,5	2	2,5	3	4,5	5	6	7,5	9	11	14	14,5
			US gpm 0	4,4	6,61	8,8	11	13,21	19,82	22	26,42	33,03	39,63	48,4	61,6	63,8
			H = Total meters head of water column [m]													
	[kW]	[HP]														
VN5/04	0,75	1	46				40,5	39	34,5	33	28	18,5				
VN5/05	0,9	1,2	57				50	48	42	40	34	22				
VN5/06	1,1	1,5	67,5				58,5	56,5	49	46	39	24				
VN5/07	1,5	2	79				69	67	58,5	55	47	30				
VN5/08	1,5	2	90				78	75,5	65	61,5	52	32,5				
VN5/09	2,2	3	103				91	88	77	73,5	63	41,5				
VN5/10	2,2	3	114				100	97	85	80,5	69	45				

Application range

VN9

Pump model	Rated power		Q = Delivery													
			[l/min] 0	16,8	25	33,3	41,7	50	75	83,3	100	125	150	183,3	233,3	241,7
			[m³/h] 0	1	1,5	2	2,5	3	4,5	5	6	7,5	9	11	14	14,5
			US gpm 0	4,4	6,61	8,8	11	13,21	19,82	22	26,42	33,03	39,63	48,4	61,6	63,8
			H = Total meters head of water column [m]													
	[kW]	[HP]														
VN9/03	1,1	1,5	35							31	30	28	25,5	21	10	
VN9/04	1,5	2	47							41	39,5	37	34	28	13	
VN9/05	2,2	3	59							52,5	51	48	44,5	37	18	
VN9/06	2,2	3	70,5							62	60	56,5	52	42,5	20	
VN9/07	3	4	82,5							73	70	66	61	50	24	
VN9/08	3	4	94							82	79	74	68	55	25,5	
VN9/09	3	4	105							91	87	82	74,5	60	26,5	

Application range

VN3 - 50 HZ

TECHNICAL DATA

Electric Pump	Number of stages	Motor power		Input power	Capacitor		Rated current		
		[kW]	[HP]		μF	[V]	Single-phase 220-230 V	Three-phase 220-230 V 380-400 V	
VN3/03	3	0.55	0.75	0.71	20	450	3.6	3.2	1.8
VN3/04	4	0.55	0.75	0.84	20	450	4.1	3.5	2
VN3/05	5	0.75	1	0.99	20	450	4.7	3.6	2.1
VN3/06	6	0.75	1	1.15	20	450	5.2	4	2.3
VN3/07	7	0.9	1.2	1.34	30	450	6.7	4.3	2.5
VN3/08	8	1.1	1.5	1.5	30	450	7.2	4.7	2.7
VN3/09	9	1.5	2	1.73	35	450	9.2	5.2	3
VN3/10	10	1.5	2	1.89	35	450	9.8	5.5	3.2

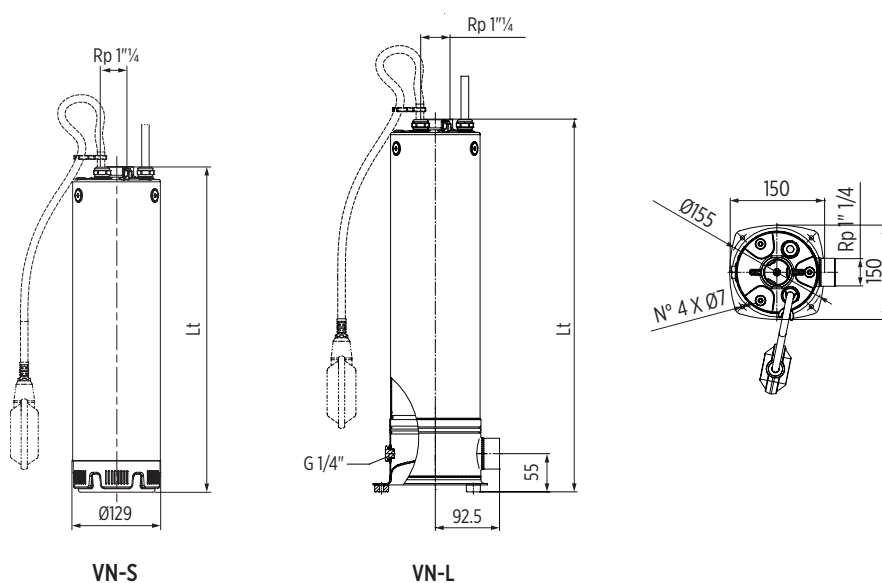
DIMENSIONS AND WEIGHTS

Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN3/03-S	456	14	15.5
VN3/04-S	480	15	16.5
VN3/05-S	504	16.8	17
VN3/06-S	528	17.3	16.8
VN3/07-S	552	19	18
VN3/08-S	576	19.5	18.5
VN3/09-S	650	22.5	20.5
VN3/10-S	674	23	21

* Electric pump weight without float switch

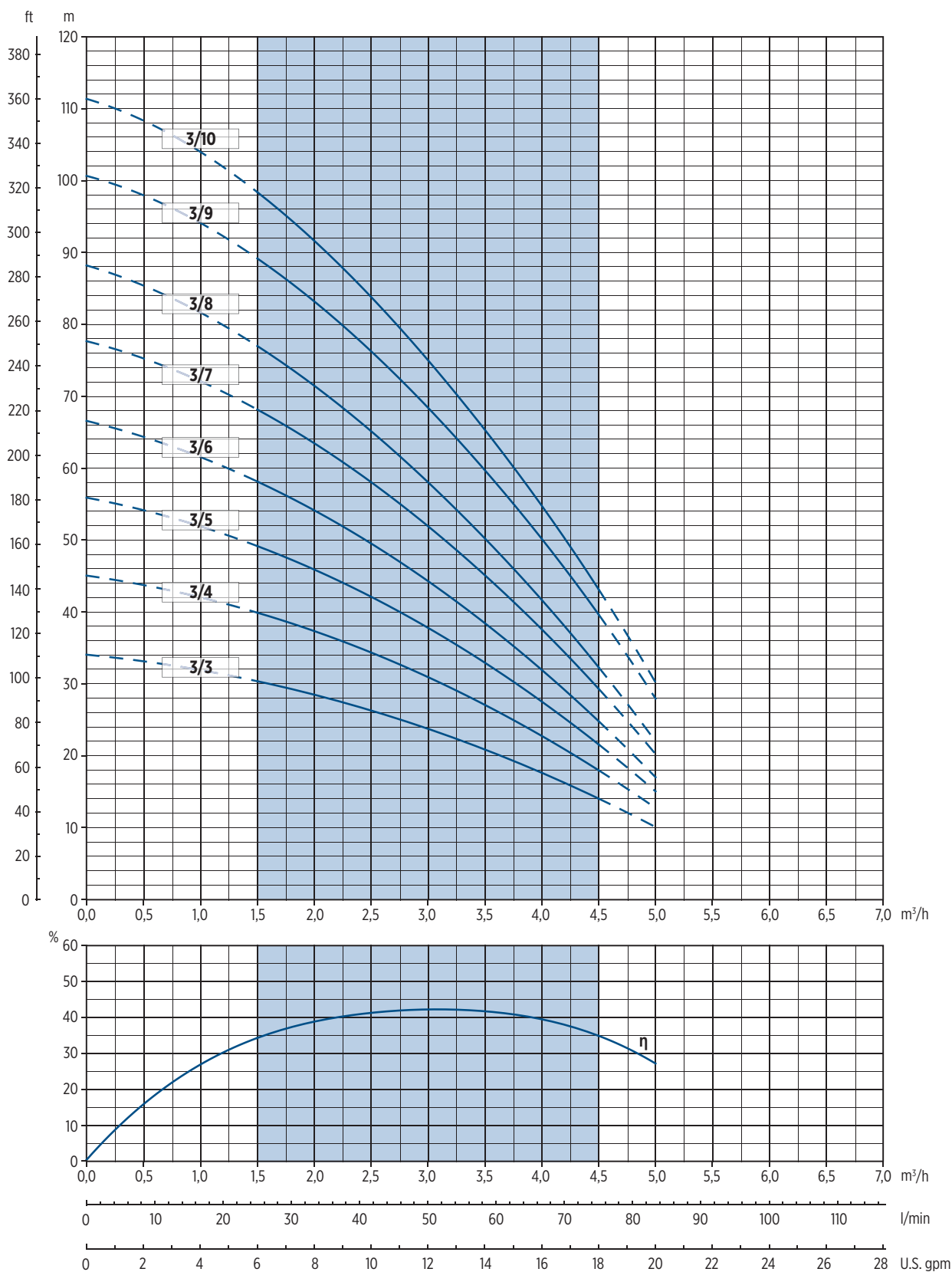
Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN3/03-L	516	14.7	16.2
VN3/04-L	540	15.7	17.2
VN3/05-L	564	17.5	17.7
VN3/06-L	588	18	18.2
VN3/07-L	612	19.7	18.7
VN3/08-L	636	20.2	19.2
VN3/09-L	710	23.2	21.2
VN3/10-L	734	23.7	21.7

DIMENSIONAL DRAWINGS



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VN3 - PERFORMANCE CURVES AT 50 HZ



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VN5 - 50 HZ

TECHNICAL DATA

Electric Pump	Number of stages	Motor power		Input power	Capacitor		Rated current		
		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
				[kW]			220-230 V	220-230 V	380-400 V
VN5/04	4	0.75	1	1.07	20	450	5	3.8	2.2
VN5/05	5	0.9	1.2	1.34	30	450	6.7	4.3	2.5
VN5/06	6	1.1	1.5	1.56	30	450	7.5	4.8	2.8
VN5/07	7	1.5	2	1.86	35	450	9.7	5.5	3.2
VN5/08	8	1.5	2	2.08	35	450	10.5	6.1	3.5
VN5/09	9	2.2	3	2.35	45	450	10.7	8.7	5
VN5/10	10	2.2	3	2.56	45	450	11.5	9	5.2

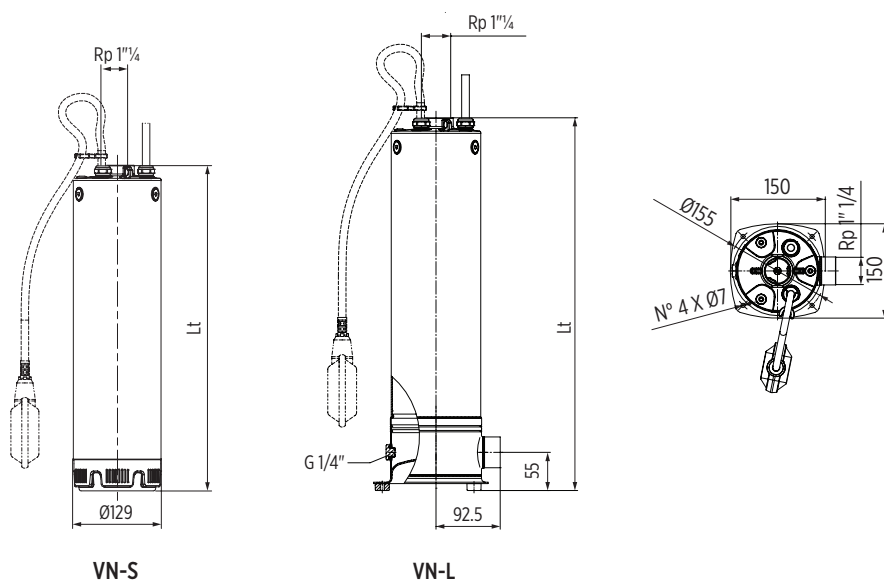
DIMENSIONS AND WEIGHTS

Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN5/04-S	480	15.3	16.5
VN5/05-S	504	18	17
VN5/06-S	528	18.8	17.8
VN5/07-S	602	21.5	19.3
VN5/08-S	626	21.9	20
VN5/09-S	650	24	22.5
VN5/10-S	674	24.5	23

* Electric pump weight without float switch

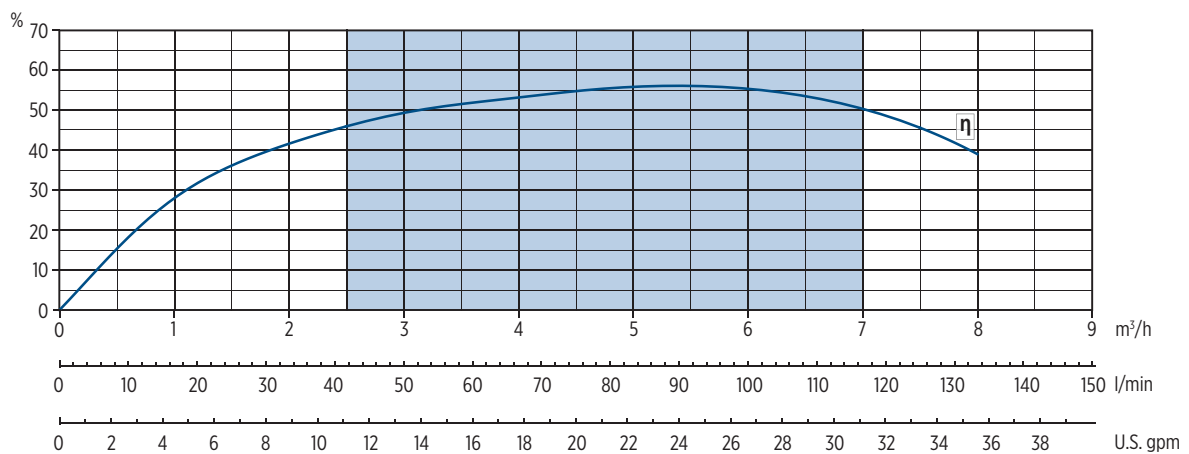
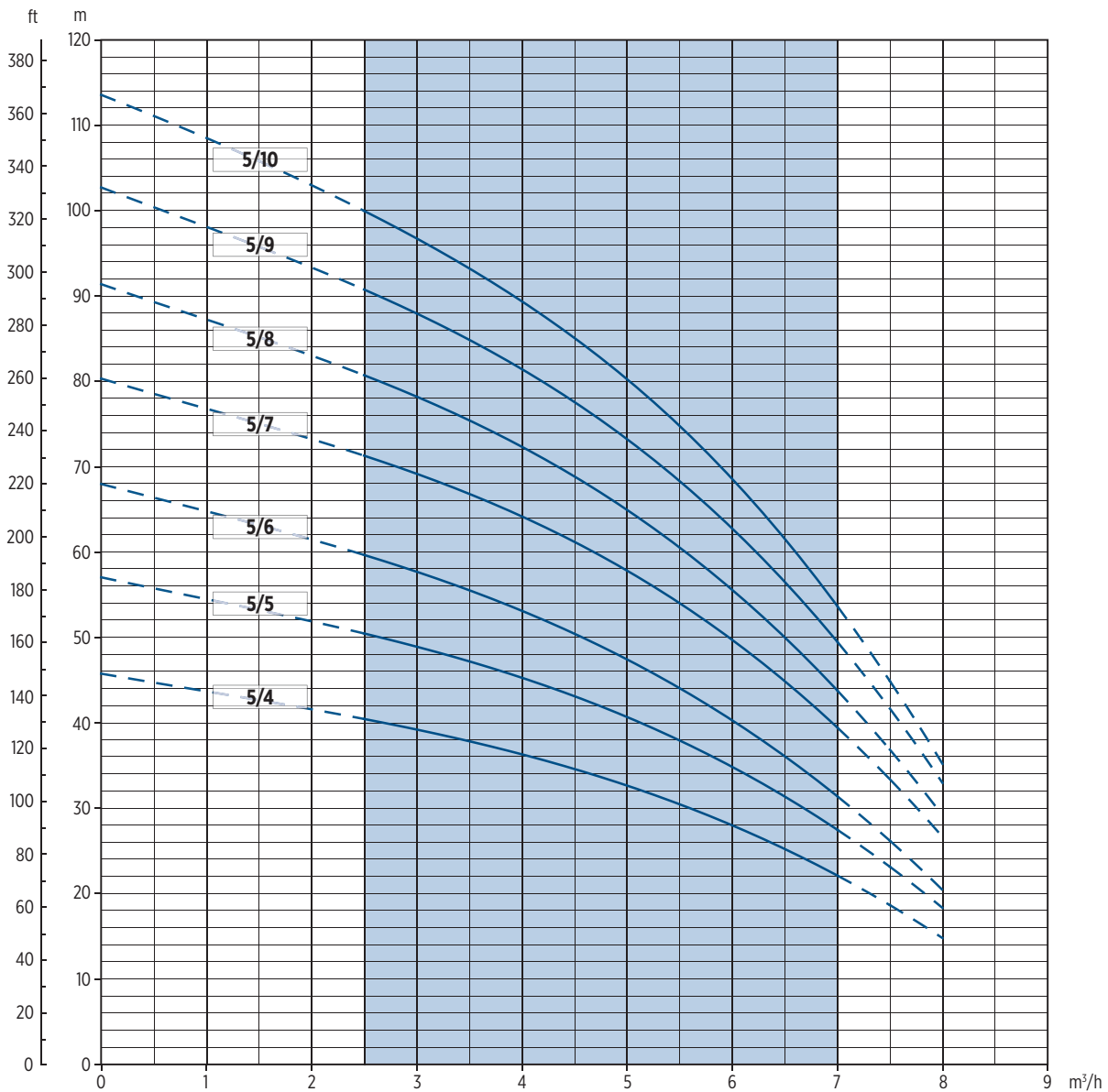
Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN5/04-L	540	16	17.2
VN5/05-L	564	18.7	17.7
VN5/06-L	588	19.5	18.5
VN5/07-L	662	22.2	20
VN5/08-L	686	22.6	20.7
VN5/09-L	710	24.7	23.2
VN5/10-L	734	25.2	23.7

DIMENSIONAL DRAWINGS



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VN5 - PERFORMANCE CURVES AT 50 HZ



00102050 06/2016

VN9 - 50 HZ

TECHNICAL DATA

Electric Pump	Number of stages	Motor power		Input power	Capacitor		Rated current		
		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
				[kW]			220-230 V	220-230 V	380-400 V
VN9/03	3	1.1	1.5	1.44	30	450	6.9	4.5	2.6
VN9/04	4	1.5	2	1.86	35	450	9.7	5.5	3.2
VN9/05	5	2.2	3	2.3	45	450	10.5	8.7	5
VN9/06	6	2.2	3	2.68	45	450	11.9	9.2	5.3
-	7	3	4	3.16	-	-	-	10.2	5.9
-	8	3	4	3.54	-	-	-	10.9	6.3
-	9	3	4	3.91	-	-	-	11.8	6.8

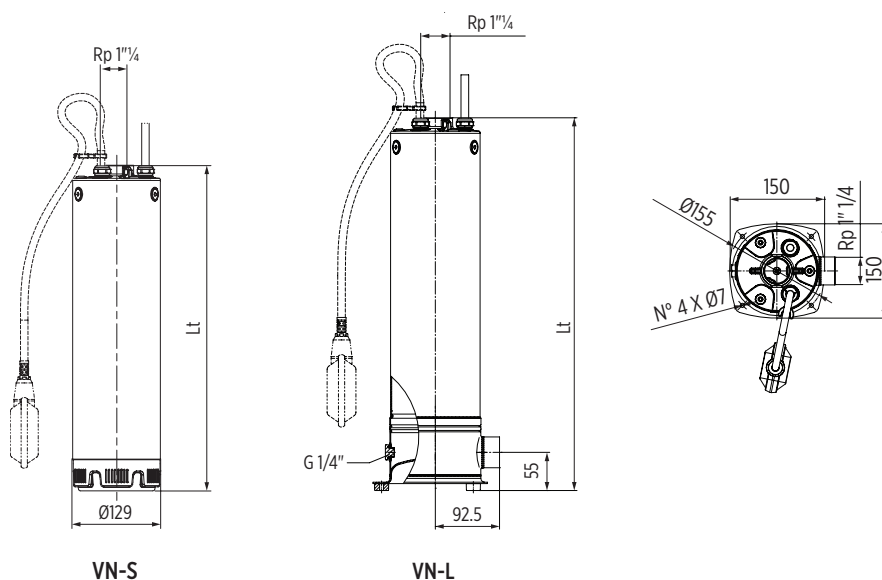
DIMENSIONS AND WEIGHTS

Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN9/03-S	504	17.3	16
VN9/04-S	584	20.3	18.3
VN9/05-S	614	22.3	21
VN9/06-S	644	23	21.5
VN9/07-S	674	-	24
VN9/08-S	704	-	24.8
VN9/09-S	734	-	25.5

* Electric pump weight without float switch

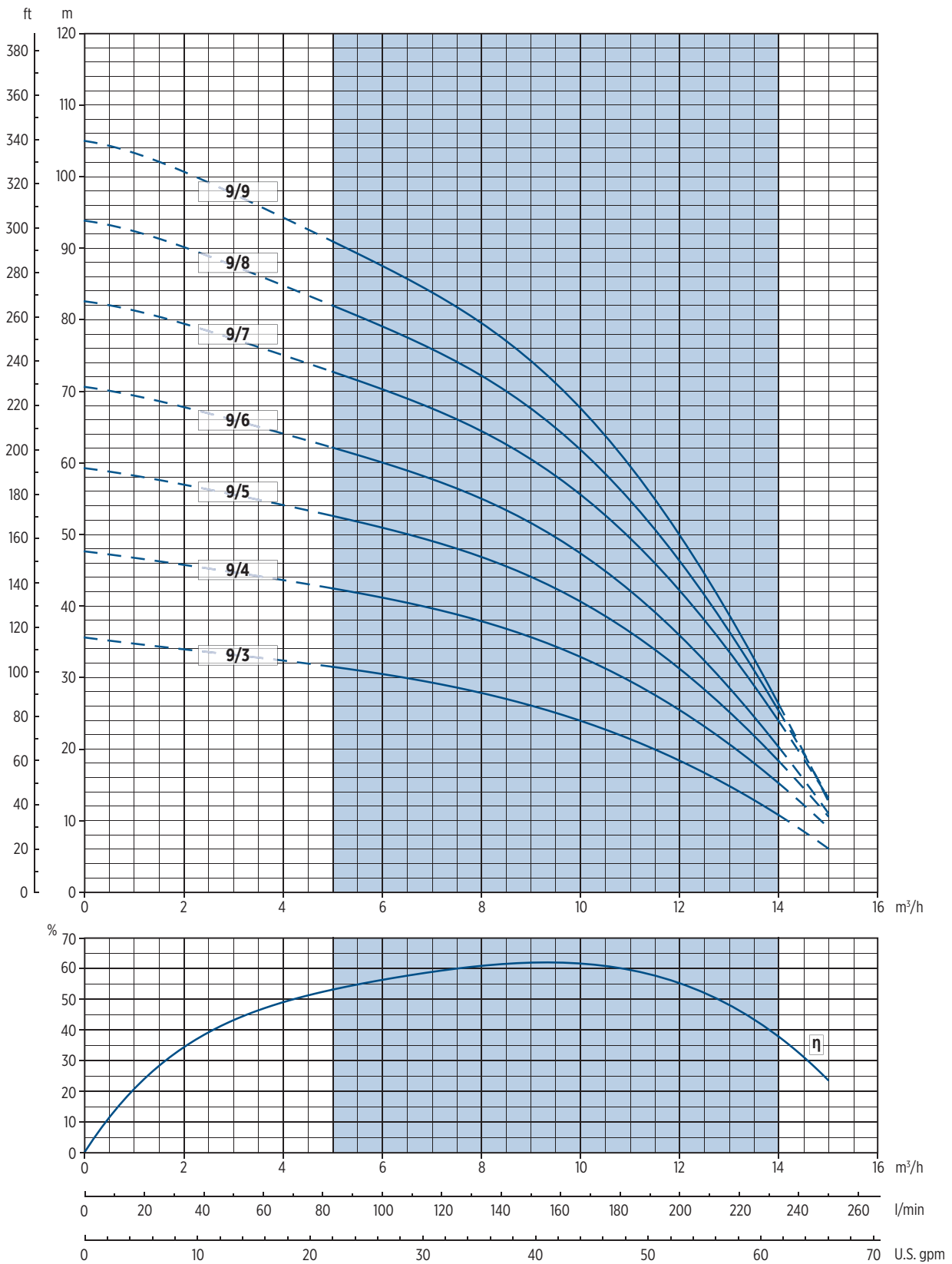
Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN9/03-L	564	18	16.7
VN9/04-L	644	21	19
VN9/05-L	674	23	21.7
VN9/06-L	704	23.7	22.2
VN9/07-L	734	-	24.7
VN9/08-L	764	-	25.5
VN9/09-L	794	-	26.2

DIMENSIONAL DRAWINGS



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VN9 - PERFORMANCE CURVES AT 50 HZ



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Hydraulic performance - 60 Hz

VN3

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	283
			[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	17
			US gpm	0	6,61	7,7	11	13,21	15,4	19,82	24,2	26,42	30,8	35,2	39,63	46,24	55	63,8	70,4	74,85
	[kW]	[HP]	H = Total meters head of water column [m]																	
VN3/03	0,75	1	49		44	40,5	37,5	34	27,5	19										
VN3/04	0,9	1,2	64,5		57,5	52,5	48,5	44,5	35	24,5										
VN3/05	1,1	1,5	80		70,5	64	59	54	42	29										
VN3/06	1,5	2	96		85	78	71,5	65,5	52	35,5										
VN3/07	1,5	2	111		98	89	82	75	58,5	39,5										

Application range

VN5

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	283
			[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	17
			US gpm	0	6,61	7,7	11	13,21	15,4	19,82	24,2	26,42	30,8	35,2	39,63	46,24	55	63,8	70,4	74,85
	[kW]	[HP]	H = Total meters head of water column [m]																	
VN5/02	0,75	1	34				30	29,5	28	26	25	22,5	19	15						
VN5/03	0,9	1,2	50				44	43	40,5	37,5	36	32	27	20,5						
VN5/04	1,1	1,5	66				57,5	56	52	48	46	40,5	33,5	25						
VN5/05	1,5	2	82				72	70	65,5	60,5	58	51	42,5	32						
VN5/06	2,2	3	99				88	86	80,5	74,5	71,5	64	53	41						
VN5/07	2,2	3	115				101,5	99	92,5	85,5	82	72,5	60	46						

Application range

VN9

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	283
			[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	17
			US gpm	0	6,61	7,7	11	13,21	15,4	19,82	24,2	26,42	30,8	35,2	39,63	46,24	55	63,8	70,4	74,85
	[kW]	[HP]	H = Total meters head of water column [m]																	
VN9/02	1,1	1,5	34								30	29	28,5	27,5	26	22	17,5	13		
VN9/03	1,5	2	51								45	43	42	40,5	38	33	25	18,5		
VN9/04	2,2	2,2	68								60	58,5	57	55	51,5	44,5	35	26		
VN9/05	3	3	84.5								74	71,5	69	67	62,5	53,5	41	30		
VN9/06	3,7	3,7	101.8								89.4	86.8	84.2	81.3	76.2	65.6	50.9	37.1		

Application range

VN3 - 60 HZ

TECHNICAL DATA

Electric Pump	Number of stages	Motor power		Input power	Capacitor		Rated current		
		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
							220-230 V	220-230 V	380-400 V
VN3/03	3	0.75	1	1.05	20	450	5.2	4.2	2.4
VN3/04	4	0.9	1.2	1.3	20	450	6.2	4.5	2.6
VN3/05	5	1.1	1.5	1.61	25	450	8	5.2	3
VN3/06	6	1.5	2	1.99	35	450	9.2	6.2	3.6
VN3/07	7	1.5	2	2.26	35	450	10.4	6.8	3.9

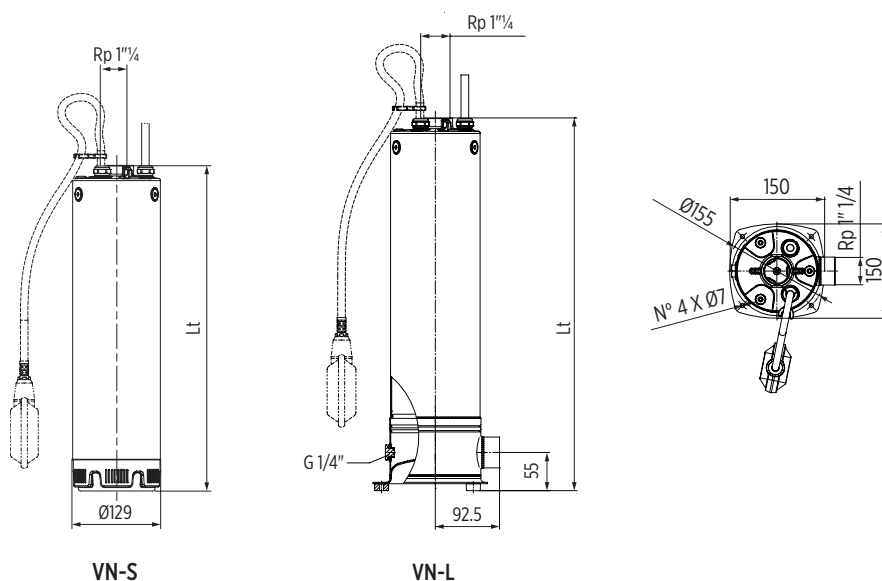
DIMENSIONS AND WEIGHTS

Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN3/03-S	456	15.8	16
VN3/04-S	480	16.3	16.3
VN3/05-S	504	18	16.8
VN3/06-S	578	20.5	18.5
VN3/07-S	602	21.3	19.3

* Electric pump weight without float switch

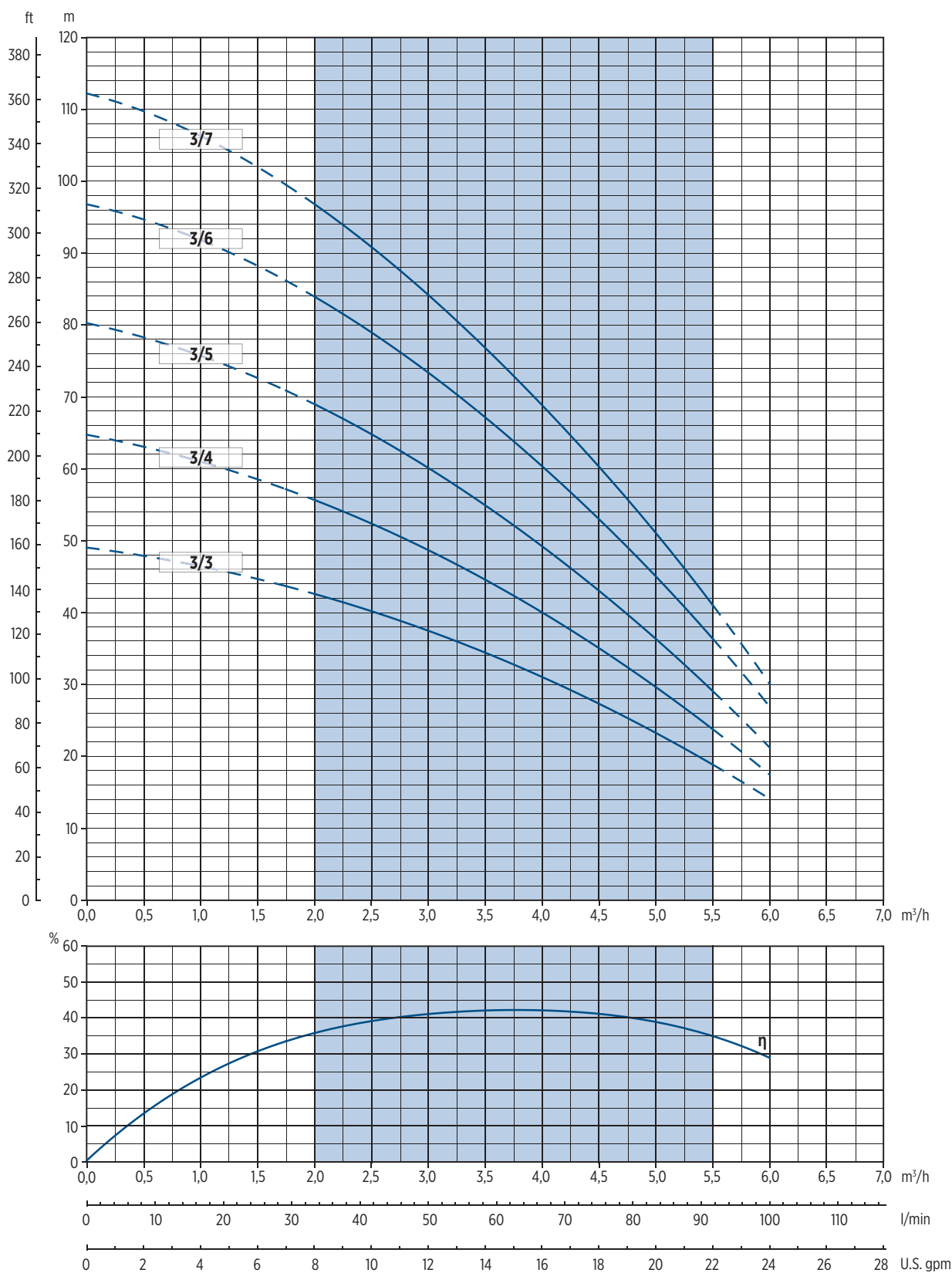
Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN3/03-L	516	16.5	16.7
VN3/04-L	540	17	17
VN3/05-L	564	18.7	17.5
VN3/06-L	638	21.2	19.2
VN3/07-L	662	22	20

DIMENSIONAL DRAWINGS



00130218 04/2016

VN3 - PERFORMANCE CURVES AT 60 HZ



0010252 06/2016

VN5 - 60 HZ

TECHNICAL DATA

Electric Pump	Number of stages	Motor power		Input power	Capacitor		Rated current		
		[kW]	[HP]		μF	[V]	Single-phase 220-230 V	Three-phase 220-230 V 380-400 V	
VN5/02	2	0.75	1	1	20	450	5	-	-
VN5/03	3	0.9	1.2	1.35	20	450	6.4	4.7	2.7
VN5/04	4	1.1	1.5	1.78	25	450	8.6	5.5	3.2
VN5/05	5	1.5	2	2.26	35	450	10.4	6.8	3.9
VN5/06-S	6	2.2	3	2.78	-	-	-	9.9	5.7
VN5/07-S	7	2.2	3	3.16	-	-	-	10.6	6.1

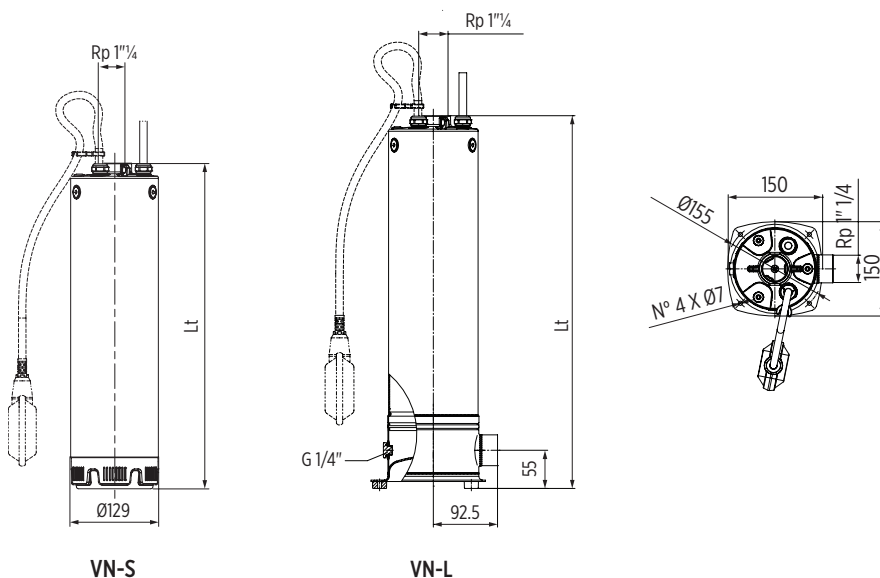
DIMENSIONS AND WEIGHTS

Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN5/02-S	432	15.3	-
VN5/03-S	456	15.8	15.8
VN5/04-S	480	16.3	16.3
VN5/05-S	554	18.5	18.5
VN5/06-S	578	20.8	20.8
VN5/07-S	602	21.5	21.5

* Electric pump weight without float switch

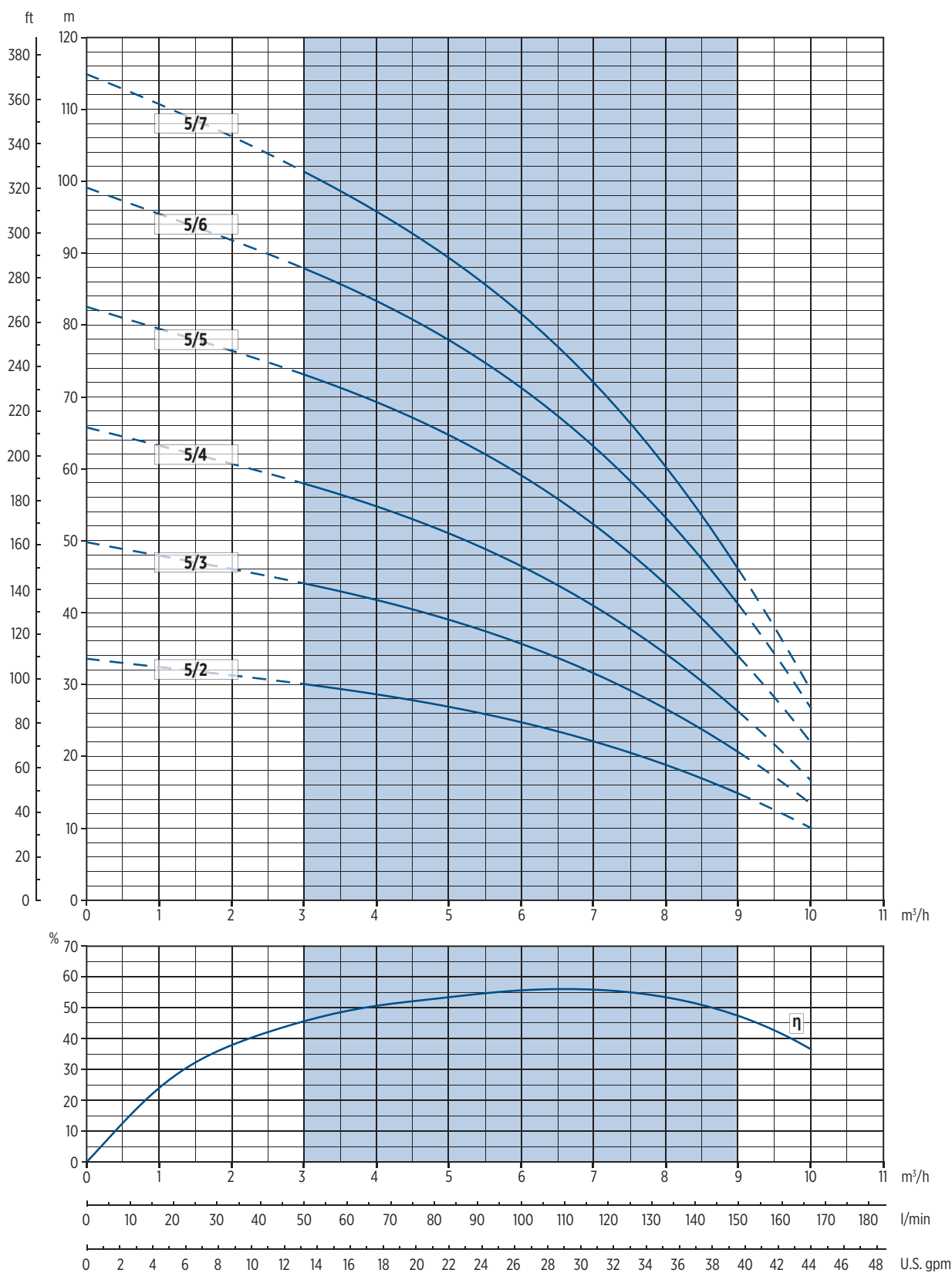
Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN5/02-L	492	16	-
VN5/03-L	516	16.5	16.5
VN5/04-L	540	18.2	17
VN5/05-L	614	21.2	19.2
VN5/06-L	638	-	21.5
VN5/07-L	662	-	22.2

DIMENSIONAL DRAWINGS



0030218 04/2016

VN5 - PERFORMANCE CURVES AT 60 HZ



0010253 06/2016

VN9 - 60 HZ

TECHNICAL DATA

Electric Pump	Number of stages	Motor power		Input power	Capacitor		Rated current		
		[kW]	[HP]		μF	[V]	Single-phase	Three-phase	
				[kW]			220-230 V	220-230 V	380-400 V
VN9/02	2	1.1	1.5	1.59	25	450	7.9	5	2.9
VN9/03	3	1.5	2	2.36	35	450	10.8	7.1	4.1
VN9/04	4	2.2	3	3.17	-	-	-	10.6	6.1
VN9/05	5	3	4	3.75	-	-	-	11.8	6.8
VN9/06	6	3.7	5	4.55	-	-	-	14.7	8.5

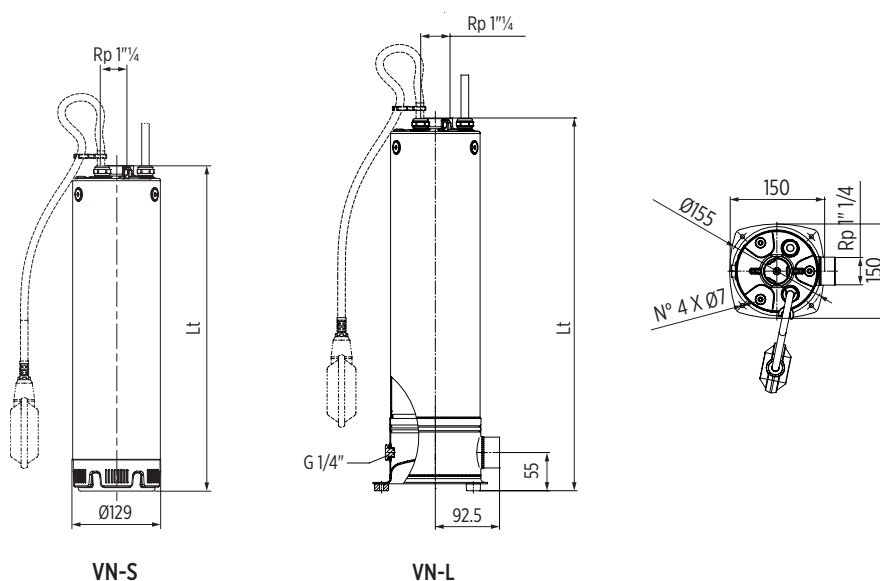
DIMENSIONS AND WEIGHTS

Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN9/02-S	474	16.8	15.5
VN9/03-S	504	20	17.8
VN9/04-S	584	-	20.5
VN9/05-S	614	-	22
VN9/06-S	644	-	23.3

* Electric pump weight without float switch

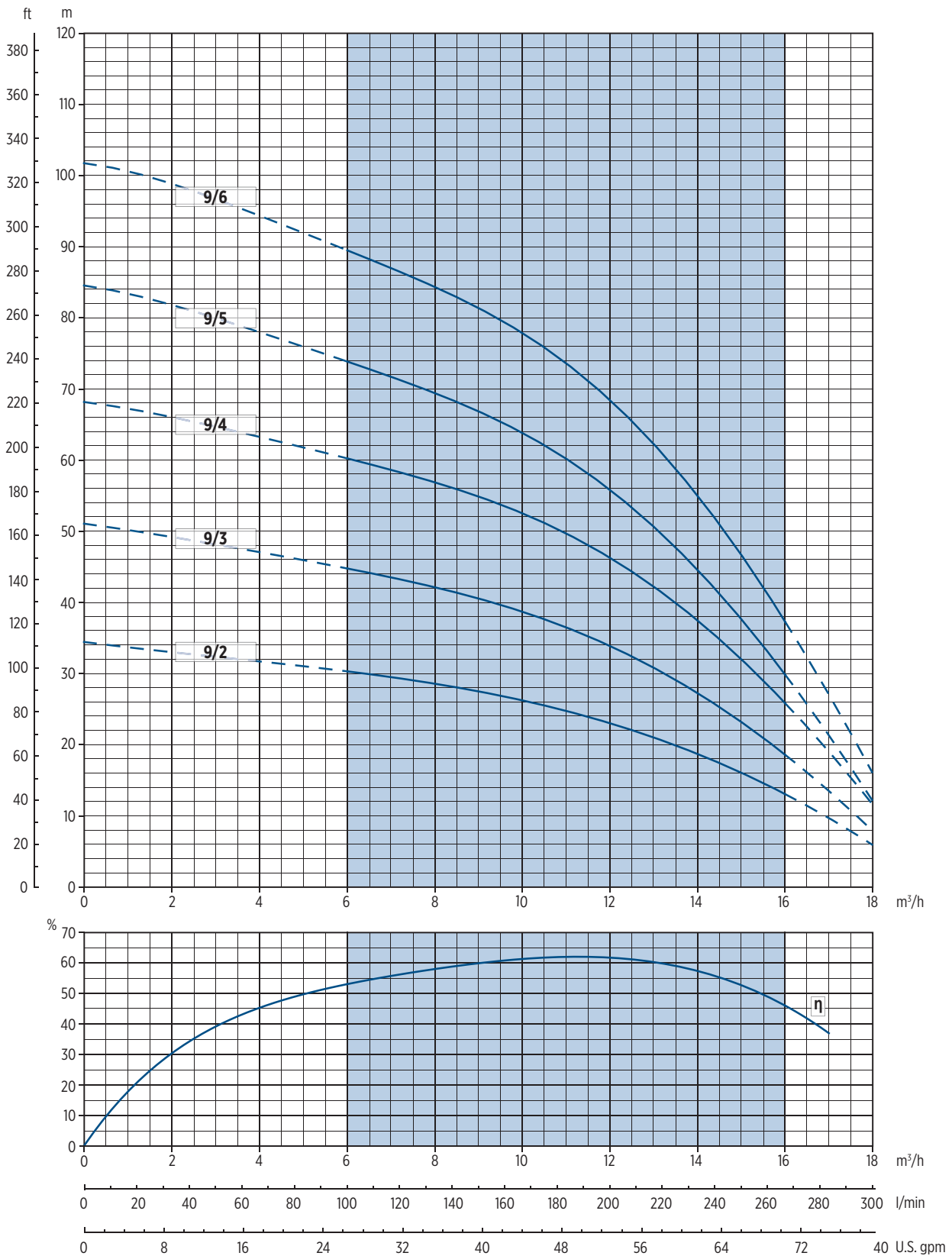
Electric Pump	Lt [mm]	Weight* [kg]	
		Single-phase	Three-phase
VN9/02-L	534	17.5	16.2
VN9/03-L	564	20.7	18.5
VN9/04-L	644	-	21.2
VN9/05-L	674	-	22.7
VN9/06-L	704	-	24

DIMENSIONAL DRAWINGS



0013028 04/2016

VN9 - PERFORMANCE CURVES AT 60 HZ



001025-1 06/2016

ACCESSORIES

FLOATING SUCTION KIT FOR VN-L

Accessories type	Code	Inlet	Outlet connection	Hose length [m]
Floating suction 1" 1/2M WOCV	14257110	Screend 1"	1" 1/4	1.2
Floating suction 1" 1/4 1M WOCV	14257120	Screend 1" 1/4	1" 1/4	1



PRODUCT-ACCESSORIES COMBINATION 50 HZ

Accessories type	Code	VN3	VN5	VN9
Floating suction 1" 1/2M WOCV	14257110	X	-	-
Floating suction 1" 1/4 1M WOCV	14257120	-	X	X

PRODUCT-ACCESSORIES COMBINATION 60 HZ

Accessories type	Code	VN3	VN5	VN9
Floating suction 1" 1/2M WOCV	14257110	-	-	-
Floating suction 1" 1/4 1M WOCV	14257120	X	X	X

CATALOG REVISION CHANGES NOTICE

Rev. No.	Changes	Page
00	Undo and replace the catalog 00105037 VN-VL 50-60 Hz (E-tech brand)	All
	New "product identification code"	4
	"General features" table updated	5
	Technical data tables updated	All
	Dimensional drawing updated	All
	Accessories section added	32







Franklin Electric

Franklin Electric Europa GmbH
Rudolf-Diesel-Str. 20 - 54516 Wittlich
GERMANY
Phone: +49 (0) 6571 - 105-0
Fax: +49 (0) 6571 - 105-510
Email: info@franklin-electric.de

Franklin Electric S.r.l.
Via Asolo, 7 - 36031 Dueville (Vicenza)
ITALY
Phone: +39 0444 361114
Fax: +39 0444 365247
Email: sales.it@fele.com



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