

# VX Series

Vortex Submersible Pumps

 **SolidsPro**





# Vortex Submersible Pump

VX50M1.520

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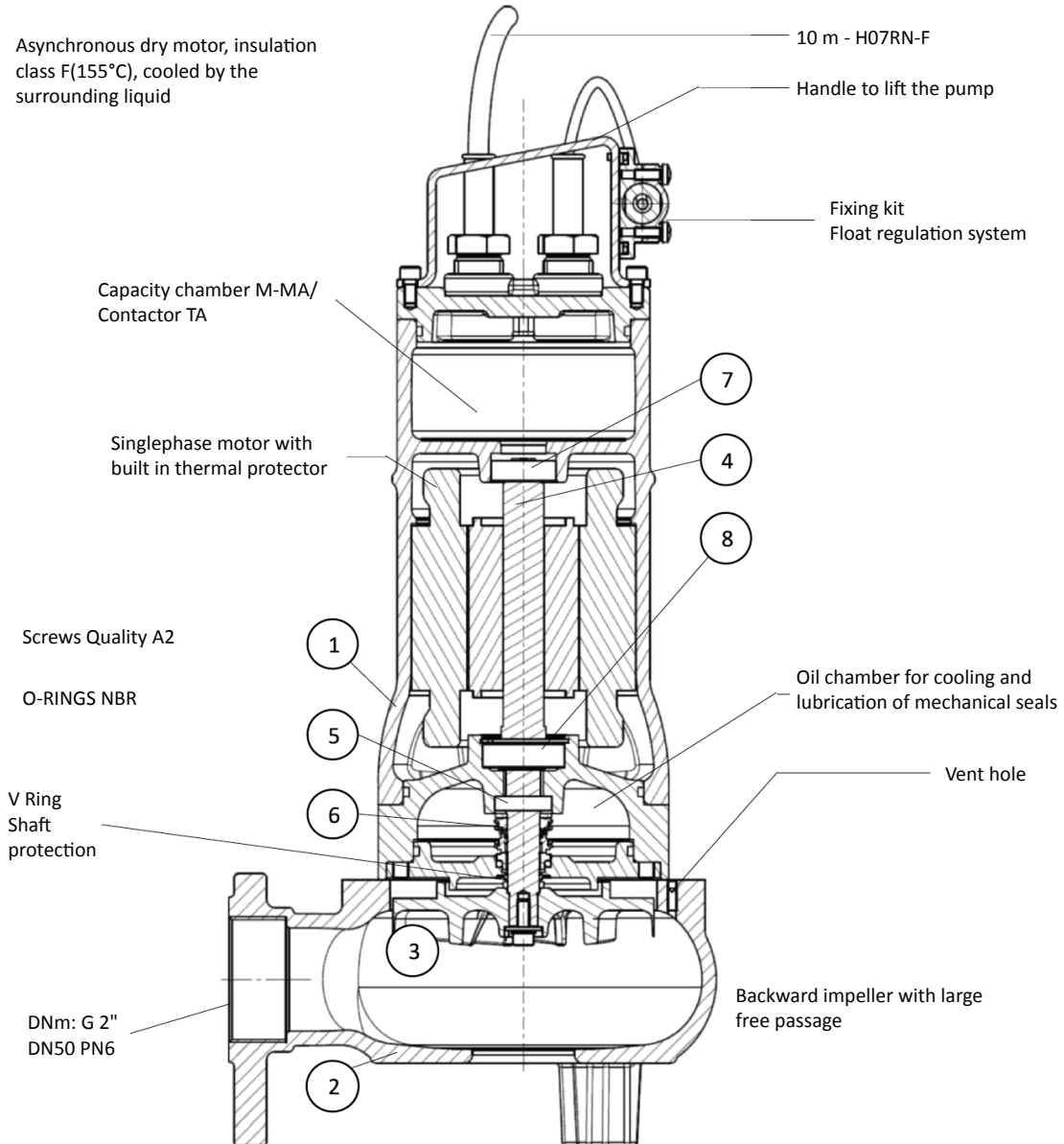


# Vortex Submersible Pump

## VX50M1.520



### Construction features



No.	Description	Material
1	Motor	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	Steel AISI 420B

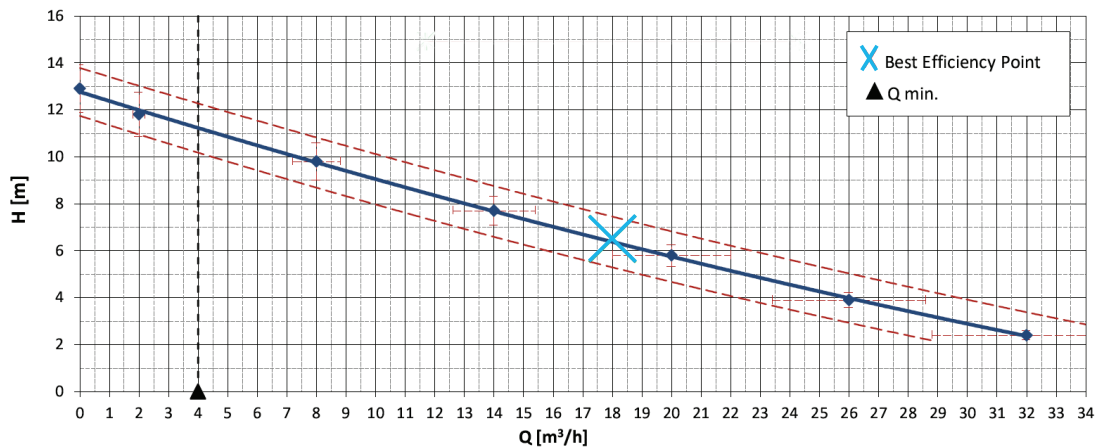
No.	Description	Material
5	Upper seal	NBR Lip Seal
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6201-2RS
8	Lower bearing	6203-2RS

# Vortex Submersible Pump

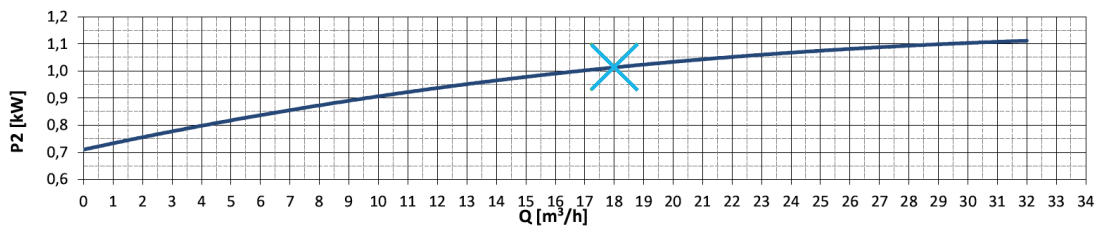
## VX50M1.520



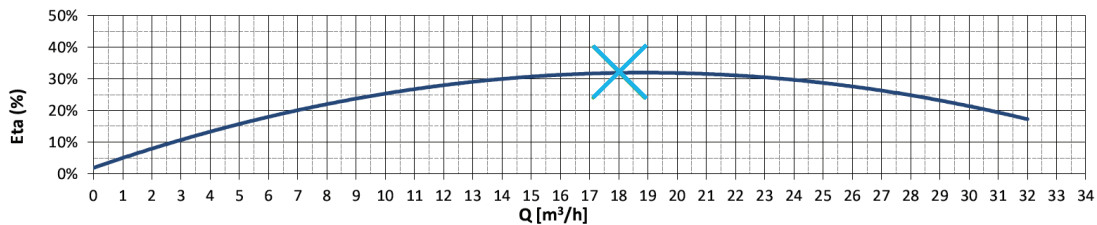
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	33,3	133,3	233,3	333,3	433,3	533,3					
	l/s	0,0	0,6	2,2	3,9	5,6	7,2	8,9					
	m <sup>3</sup> /h	0,0	2,0	8,0	14,0	20,0	26,0	32,0					
HEAD (H)	m	12,9	11,8	9,8	7,7	5,8	3,9	2,4					

## Specifications

Pump Type	VX50M	Discharge	50mm BSP	Float	Yes
Code	VX50M1.521	Power Supply	1ph 230V - 50Hz	Thermal Protection	Yes
Construction	Cast Iron	Nominal Speed	2900rpm	Humidity Probe	No
Impeller Type	Vortex	Rated Motor Power	1.5kW	Cable Length	10m
Weight	25kg	Starting Current	21.6A	Max Flow	32m3/hr
Impeller diameter	127mm	Rated Current	7.7A	Max Head	13m
Solids Passage	50	Capacitor	25µF	Ingress Rating	IP68



# Vortex Submersible Pump

## VX50M1.520



### Dimensions and installation

**S Installation mobile**

DN50-PN6  
UNI EN ISO 1092-1

G 2"

R55,0

4xR6,75 (M12)

**Packaging dimensions**

**Measures [mm]**

A	B	C
570	250	215

**FC With foot coupling**

80

REF.

357

182,5

Min. Level

539

373

90

65

54

2xR6,5

38

100

100

155

130,0

4xR6,50

**8FC000002 KG: 7,5**

- 1 3/4" guide rails bracket
- 2 Horizontal foot - 2"out
- 3 Sliding bracket complete
- 4 Not supplied

**D 260mm**

**E 175mm**

**F 195mm**

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 **SolidsPro**

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# Vortex Submersible Pump

VX50T322

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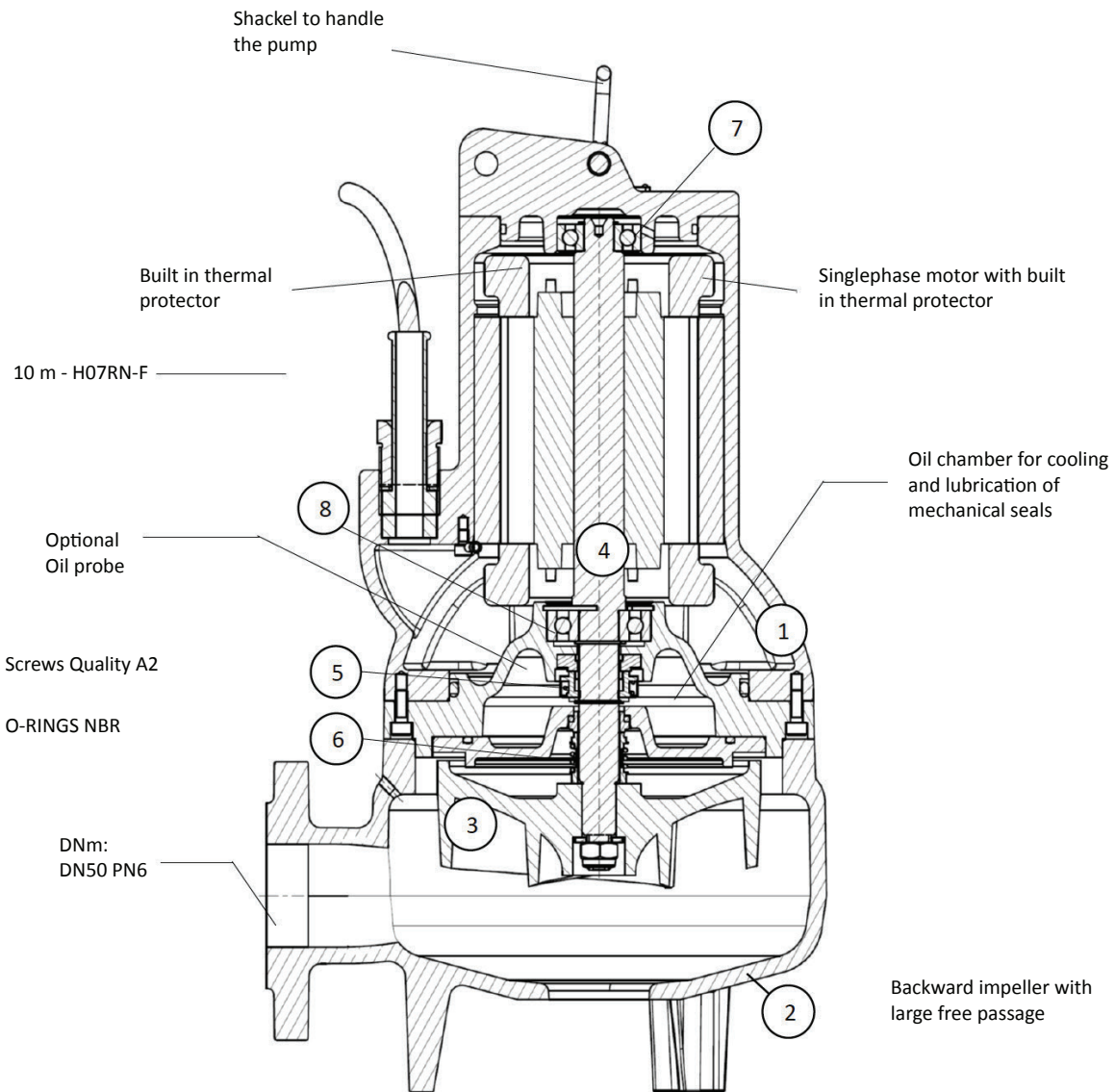
# Vortex Submersible Pump

## VX50T322



### Construction features

Asynchronous dry motor, insulation class F(155°C), cooled by the surrounding liquid



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Self cleaning propeller	Cast iron
4	Shaft	AISI 420B

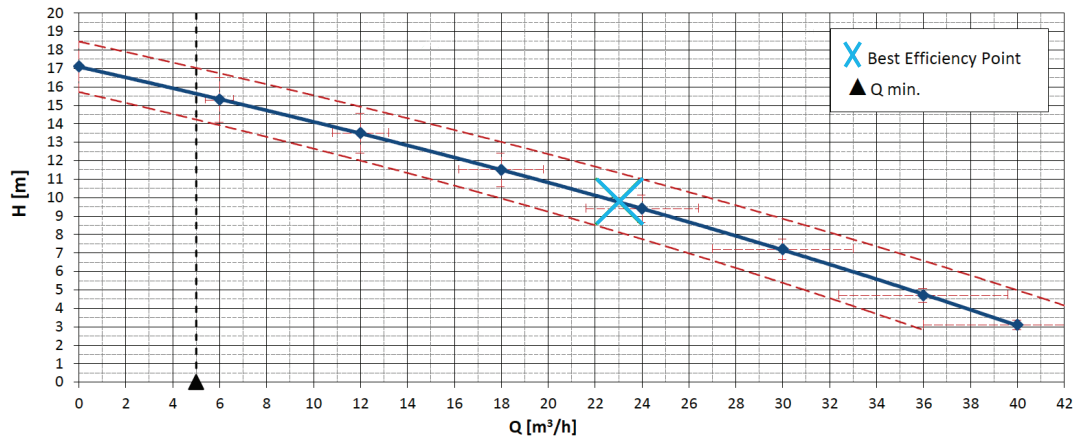
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

# Vortex Submersible Pump

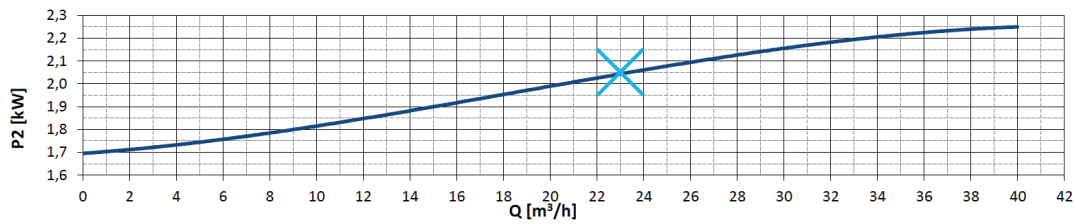
## VX50T322



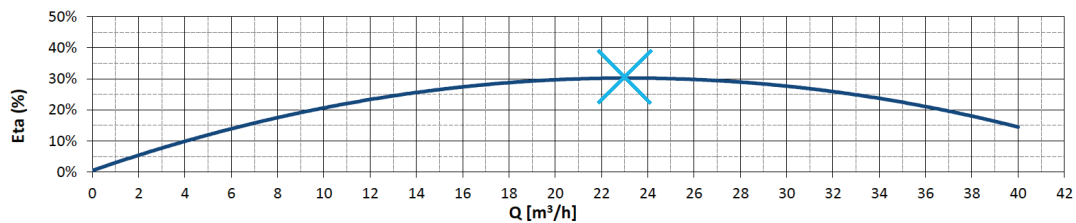
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	100,0	200,0	300,0	400,0	500,0	600,0	666,7				
	l/s	0,0	1,7	3,3	5,0	6,7	8,3	10,0	11,1				
	m <sup>3</sup> /h	0,0	6,0	12,0	18,0	24,0	30,0	36,0	40,0				
HEAD (H)	m	17,1	15,3	13,5	11,5	9,4	7,2	4,7	3,1				

## Specifications

Pump Type	VX50T	Discharge	50mm BSP	Humidity Probe	Yes
Code	VX50T322	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	2900rpm	Max Flow	40m <sup>3</sup> /hr
Impeller Type	Vortex	Rated Motor Power	3kW	Max Head	17.1m
Weight	36kg	Starting Current	24.2A	Ingress Rating	IP68
Impeller diameter	162mm	Rated Current	5.5A		
Solids Passage	48mm	Thermal Protection	Yes		

# Vortex Submersible Pump

## VX50T322



### Dimensions and installation

**S Installation mobile**

**Packaging dimensions**

**Measures [mm]**

A	B	C
600	240	290

**FC With foot coupling**

**8FC000002**

- 1 3/4" guide rails bracket
- 2 Horizontal foot - 2"out
- 3 Sliding bracket complete
- 4 Not supplied

**D**

D	260mm
E	175mm
F	195mm





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# Vortex Submersible Pump

VX65T2.242

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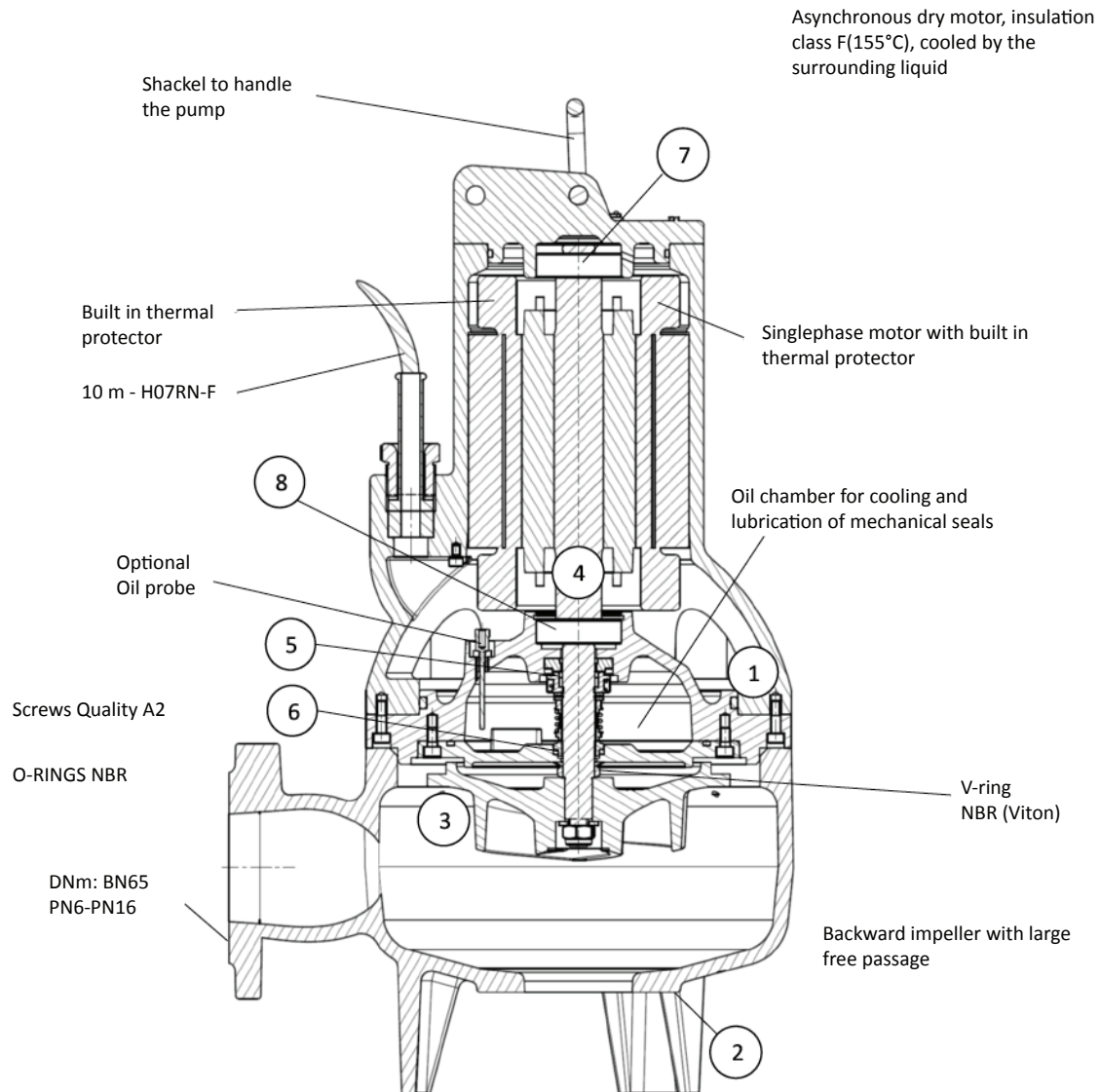


# Vortex Submersible Pump

VX65T2.242



## Construction features



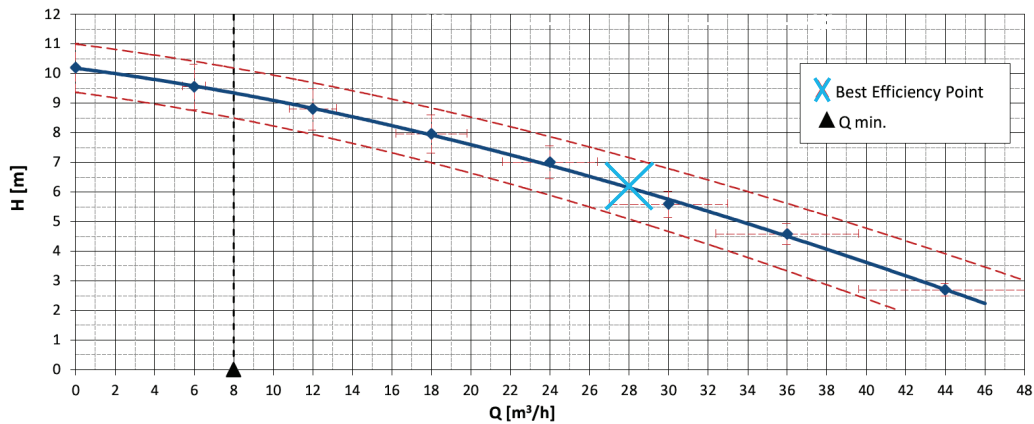
No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Self cleaning propeller	Cast iron
4	Shaft	AISI 420B

No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

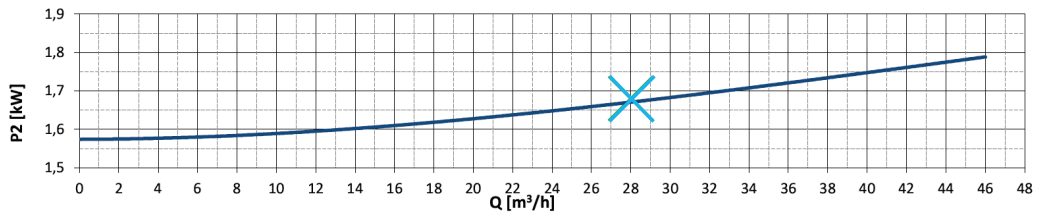
# Vortex Submersible Pump VX65T2.242



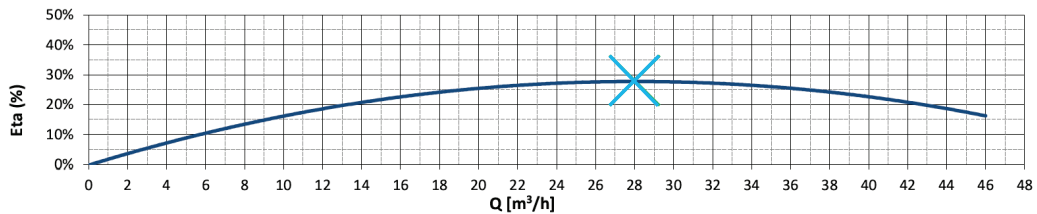
## PERFORMANCE CURVE



## SHAFT POWER



## HYDRAULIC EFFICIENCY



	l/min	0,0	100,0	200,0	300,0	400,0	500,0	600,0	733,3				
FLOW (Q)	l/s	0,0	1,7	3,3	5,0	6,7	8,3	10,0	12,2				
	m³/h	0,0	6,0	12,0	18,0	24,0	30,0	36,0	44,0				
HEAD (H)	m	10,2	9,6	8,8	8,0	7,0	5,6	4,6	2,7				

## Specifications

Pump Type	VX65T	Discharge	65mm BSP	Humidity Probe	Yes
Code	VX65T2.242	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	1450rpm	Max Flow	44m3/hr
Impeller Type	Vortex	Rated Motor Power	2.2kW	Max Head	10.2m
Weight	62kg	Starting Current	21A	Ingress Rating	IP68
Impeller diameter	190mm	Rated Current	4.4A		
Solids Passage	65mm	Thermal Protection	Yes		

# Vortex Submersible Pump

VX65T2.242



## Dimensions and installation

**S Installation mobile**

UNI EN 1092-1 DN65  
 PN6 Ø130 4XØ14  
 PN16 Ø145 4XØ18

**Packaging dimensions**

**Measures [mm]**

A	B	C
720	370	300

**FC With foot coupling**

REF. 80 475 264  
 S1  
 Ø26,9 sp.2  
 Ø3/4"  
 G 2"1/2  
 171  
 95 279 599  
 S3 15%  
 67 2XR6,5  
 55 38  
 Ø260  
 100 4xØ14  
 110

**8FC00003 KG: 10**

1	3/4" guide rails bracket
2	Horizontal foot - 2"1/2 out
3	Sliding bracket complete
4	Not supplied

**D** **D** 260  
**E** 175  
**F** 195



# Vortex Submersible Pump

VX80T2.942

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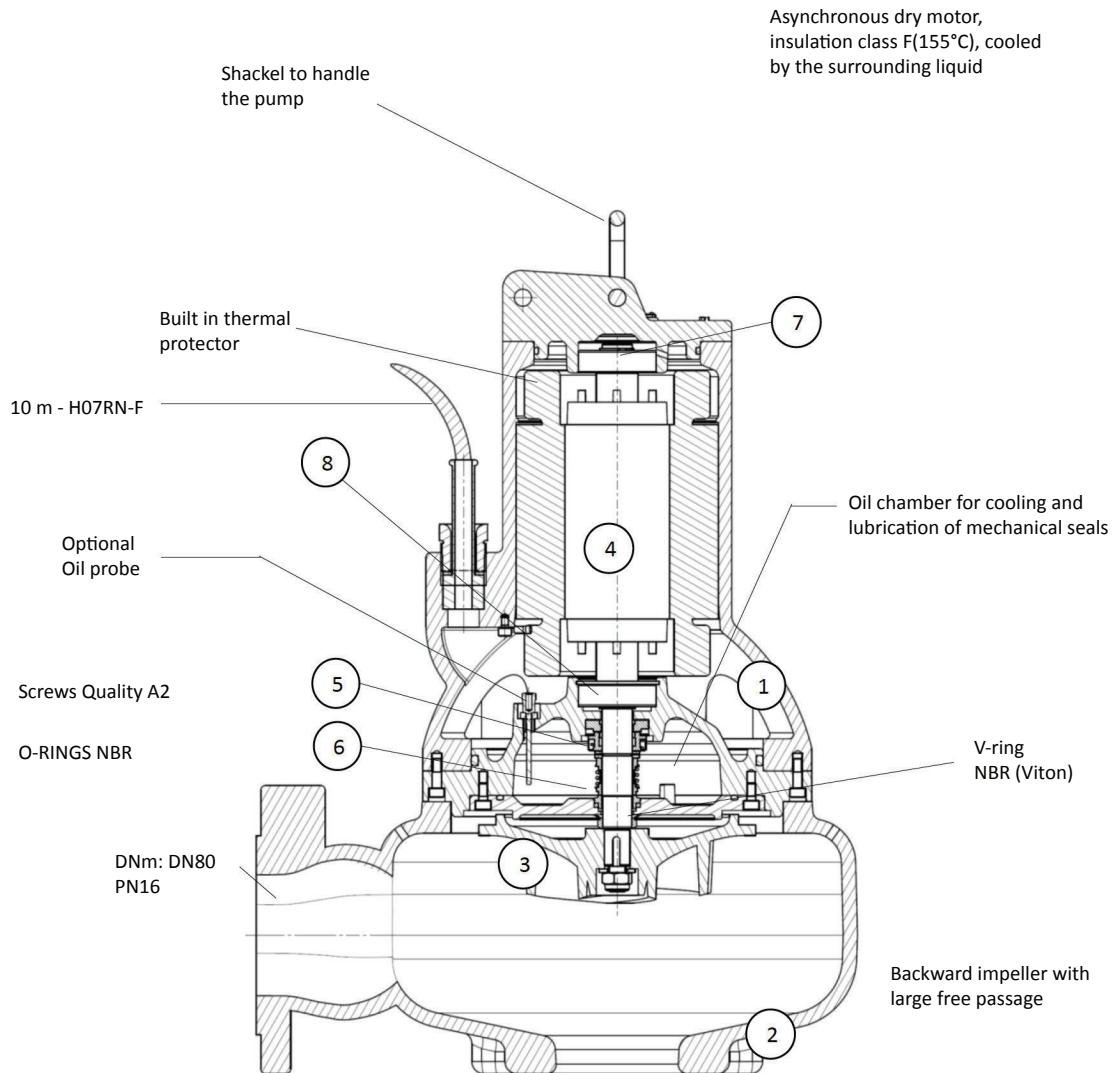


# Vortex Submersible Pump

## VX80T2.942



### Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Self cleaning propeller	Cast iron
4	Shaft	AISI 420B

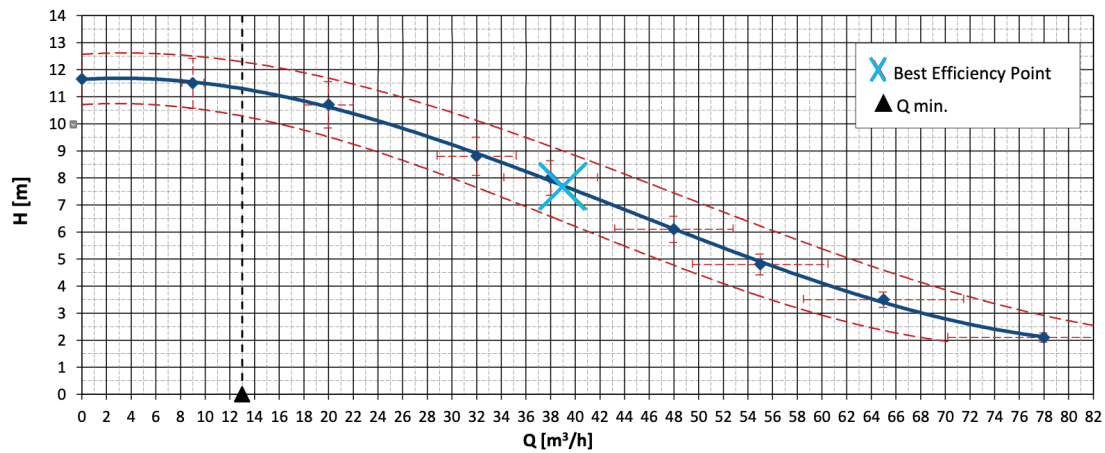
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

# Vortex Submersible Pump

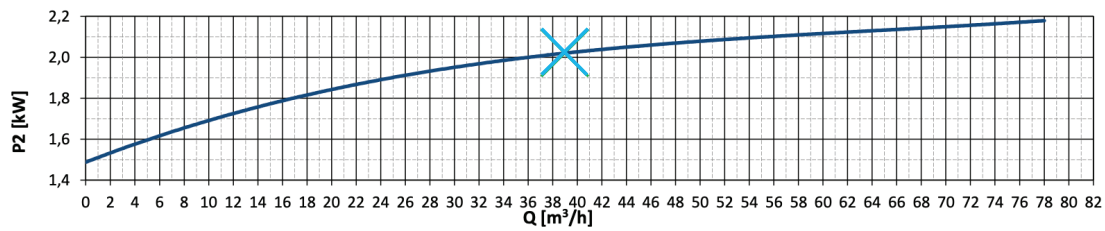
## VX80T2.942



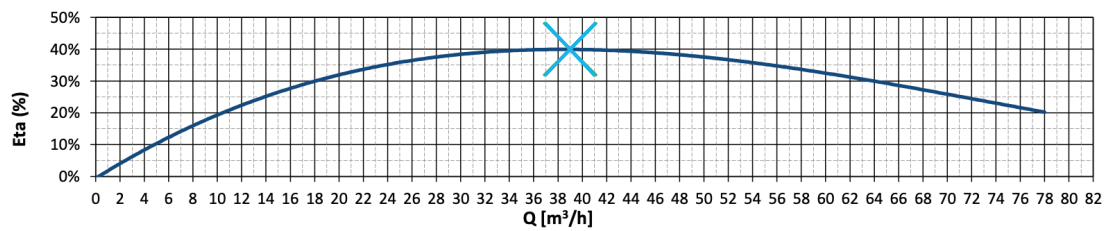
### PERFORMANCE CURVE



### SHAFT POWER



### HYDRAULIC EFFICIENCY



<b>FLOW (Q)</b>	<b>l/min</b>	0,0	150,0	333,3	533,3	633,3	800,0	916,7	1083,3	1300,0			
	<b>l/s</b>	0,0	2,5	5,6	8,9	10,6	13,3	15,3	18,1	21,7			
	<b>m³/h</b>	0,0	9,0	20,0	32,0	38,0	48,0	55,0	65,0	78,0			
<b>HEAD (H)</b>	<b>m</b>	11,7	11,5	10,7	8,8	8,0	6,1	4,8	3,5	2,1			

## Specifications

Pump Type	VX80T	Discharge	80mm BSP	Humidity Probe	Yes
Code	VX80T4.942	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	1450rpm	Max Flow	78m³/hr
Impeller Type	Vortex	Rated Motor Power	2.9kW	Max Head	11.7m
Weight	76kg	Starting Current	27A	Ingress Rating	IP68
Impeller diameter	219mm	Rated Current	5.2A		
Solids Passage	80mm	Thermal Protection	Yes		



# Vortex Submersible Pump

## VX80T2.942



### Dimensions and installation

**S** Installation mobile

**Packaging dimensions**

**Measures [mm]**

A	B	C
750	450	390

**FC** With foot coupling

**8FC000004**

1	1 1/2 guide rails bracket
2	Vertical foot - 3"out
3	Sliding bracket complete
4	Not supplied

**D**

D	550
E	600
F	400



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# Vortex Submersible Pump

VX80T3.722

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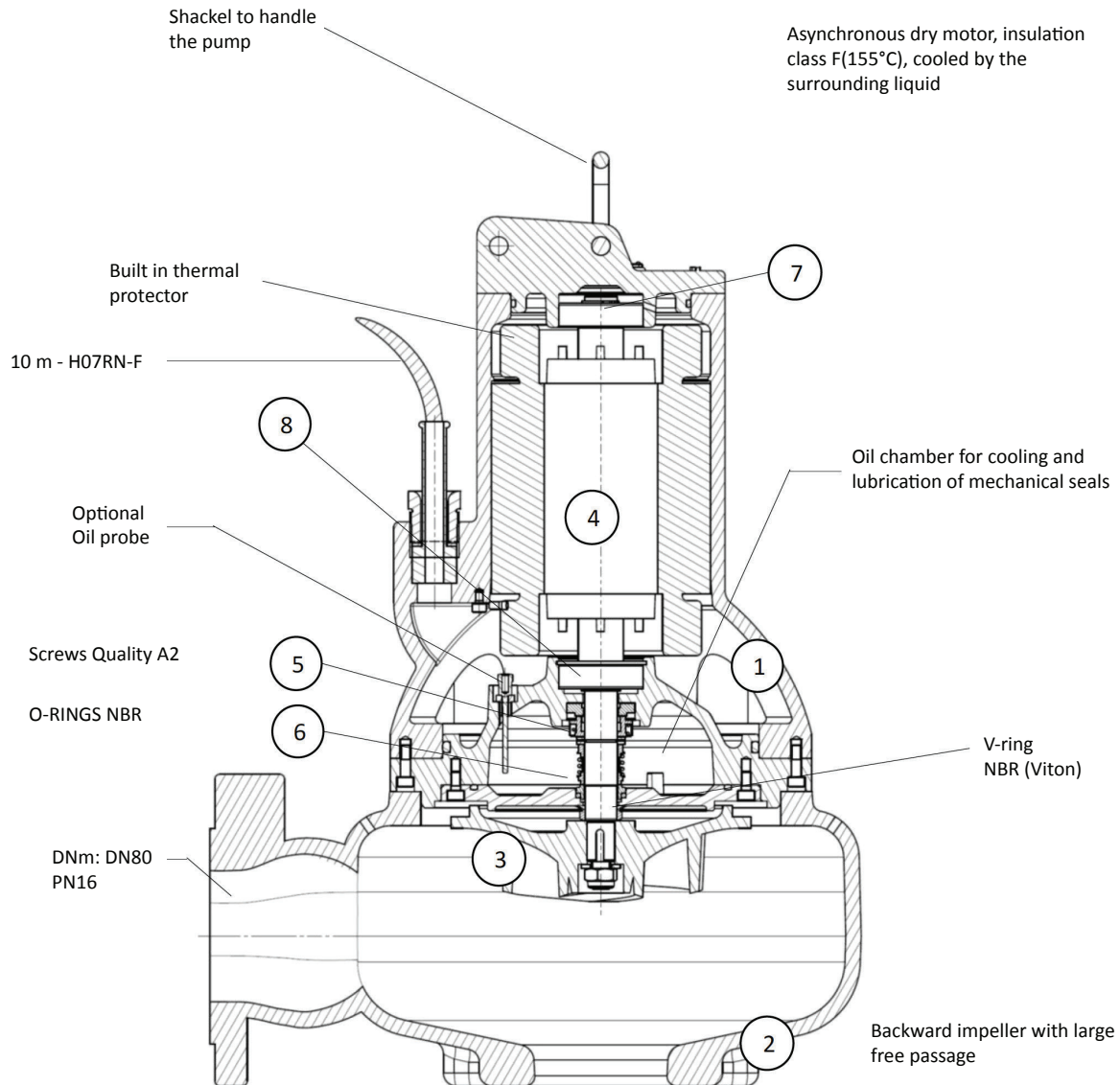


# Vortex Submersible Pump

## VX80T3.722



### Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Self cleaning propeller	Cast iron
4	Shaft	AISI 420B

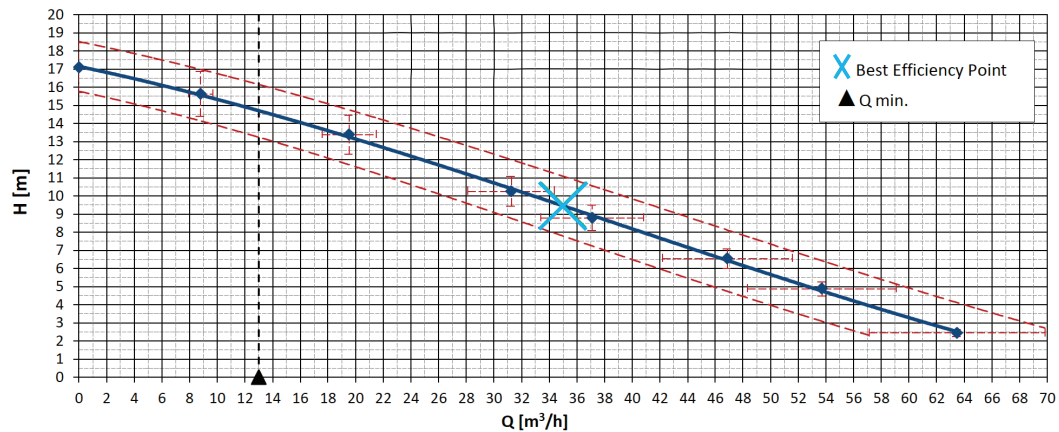
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

# Vortex Submersible Pump

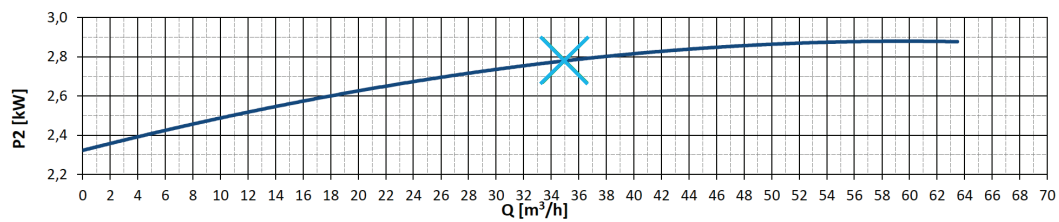
## VX80T3.722



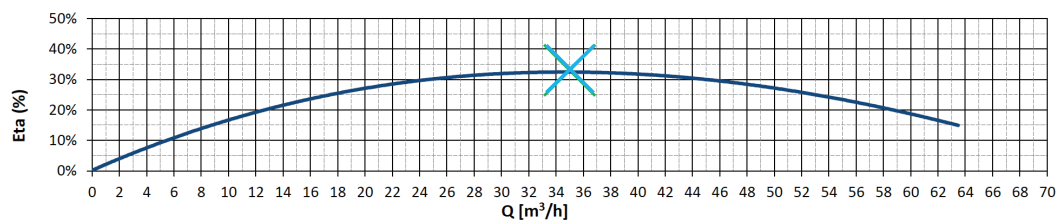
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	146,5	325,5	520,9	618,5	781,3	895,2	1058,0			
	l/s	0,0	2,4	5,4	8,7	10,3	13,0	14,9	17,6			
	m³/h	0,0	8,8	19,5	31,3	37,1	46,9	53,7	63,5			
HEAD (H)	m	17,1	15,6	13,4	10,3	8,8	6,5	4,9	2,4			

## Specifications

Pump Type	VX80T	Discharge	80mm BSP	Humidity Probe	Yes
Code	VX80T3.722	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	2900rpm	Max Flow	63.5m3/hr
Impeller Type	Vortex	Rated Motor Power	3.7kW	Max Head	17.1m
Weight	75kg	Starting Current	33A	Ingress Rating	IP68
Impeller diameter	168mm	Rated Current	6.6A		
Solids Passage	80mm	Thermal Protection	Yes		

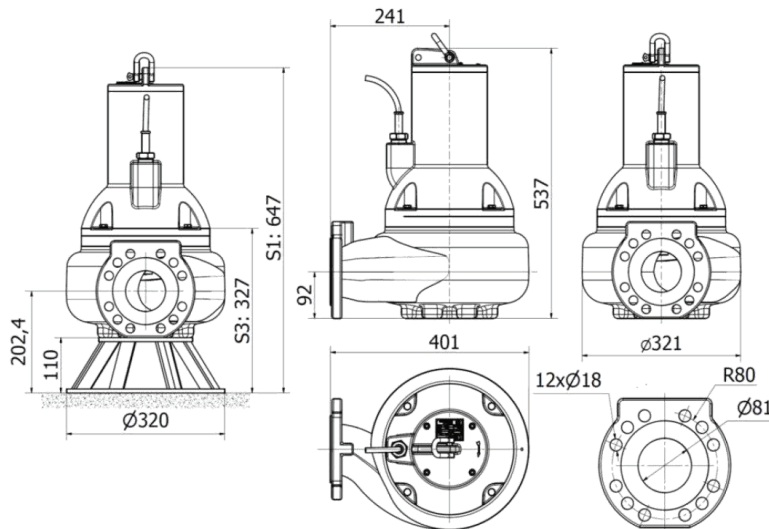
# Vortex Submersible Pump

## VX80T3.722

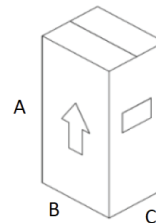


### Dimensions and installation

#### S Installation mobile - Installation



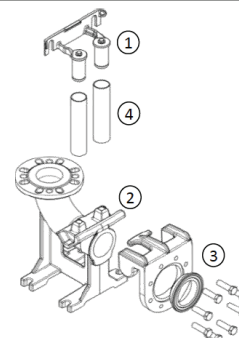
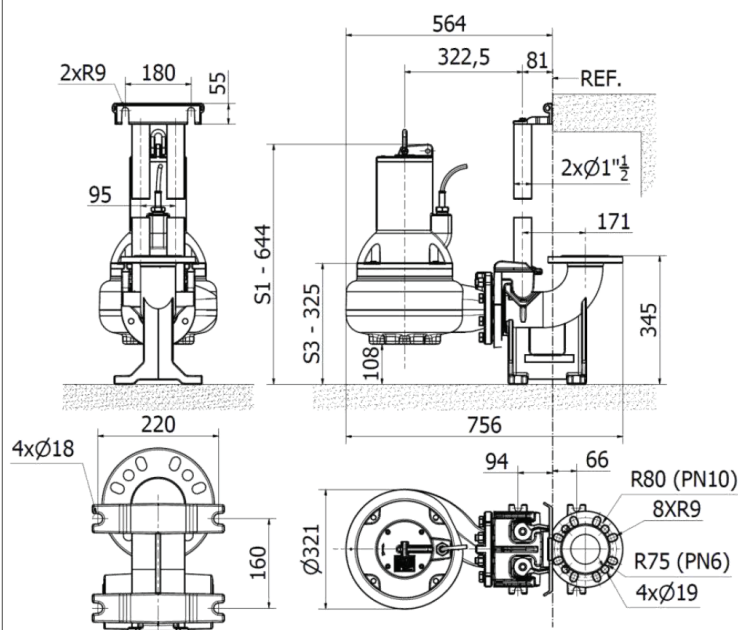
#### Packaging dimensions



#### Measures [mm]

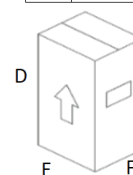
A	B	C
750	450	390

#### FC With foot coupling



#### 8FC000004

- 1 1 1/2" guide rails bracket
- 2 Vertical foot - 3" out
- 3 Sliding bracket complete
- 4 Not supplied



D	550
E	600
F	400



# Vortex Submersible Pump

VX80T4.942

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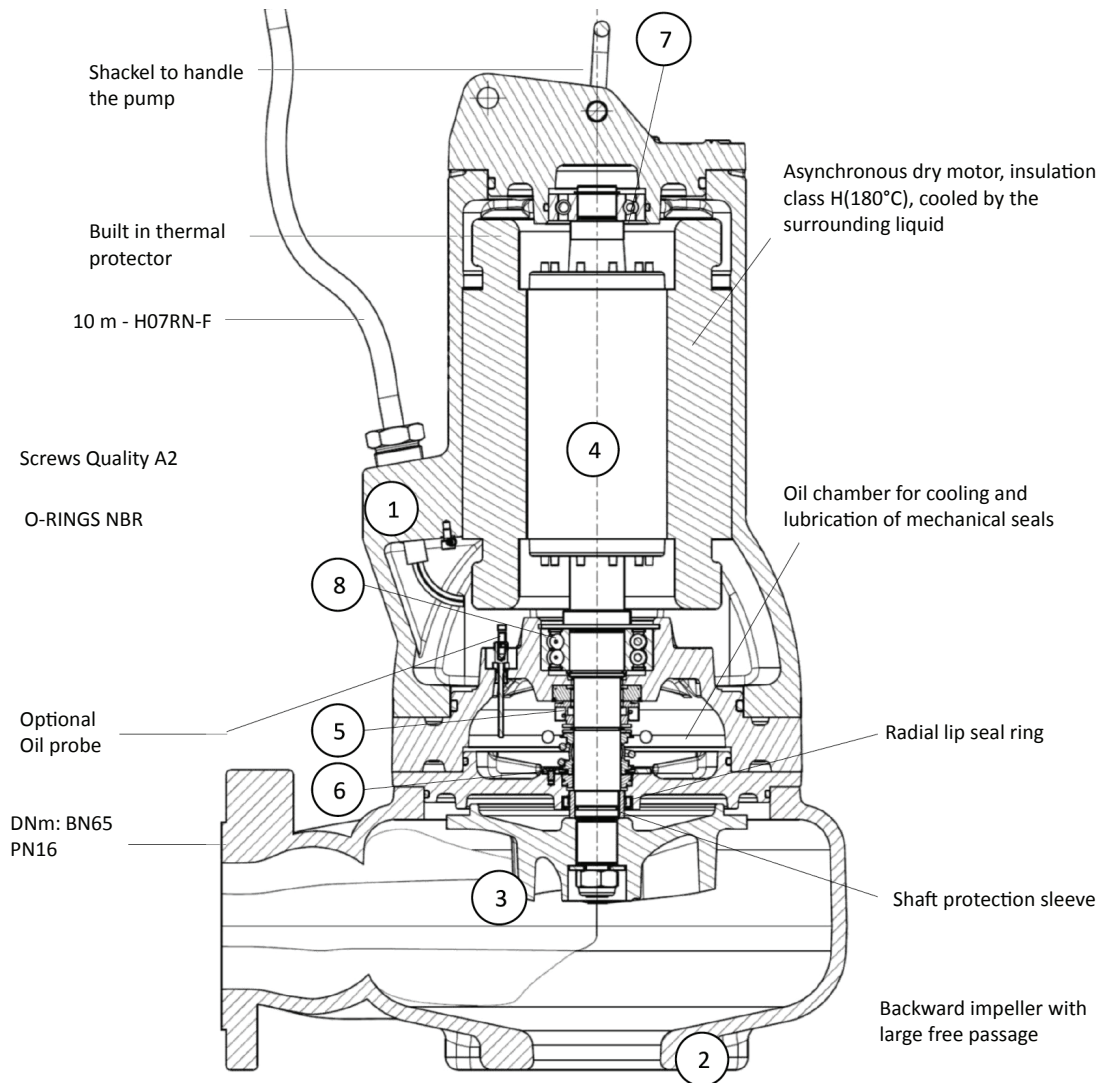


# Vortex Submersible Pump

## VX80T4.942



### Construction features

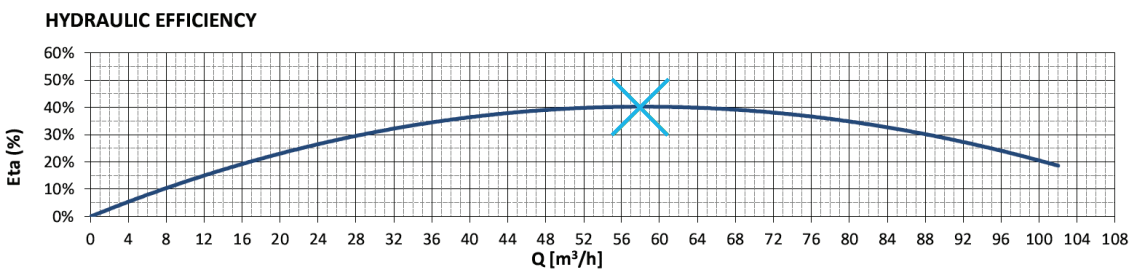
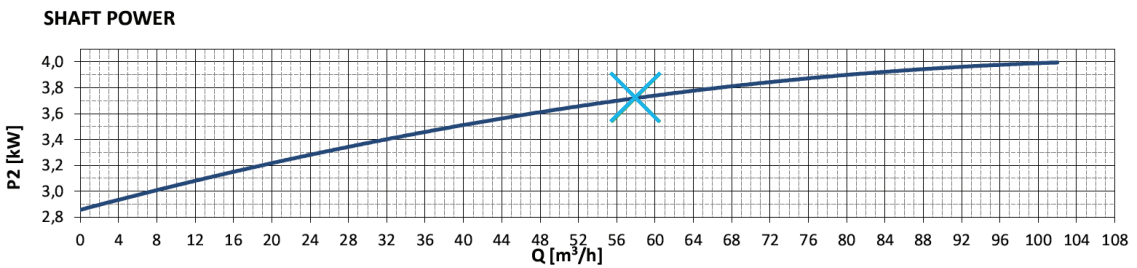
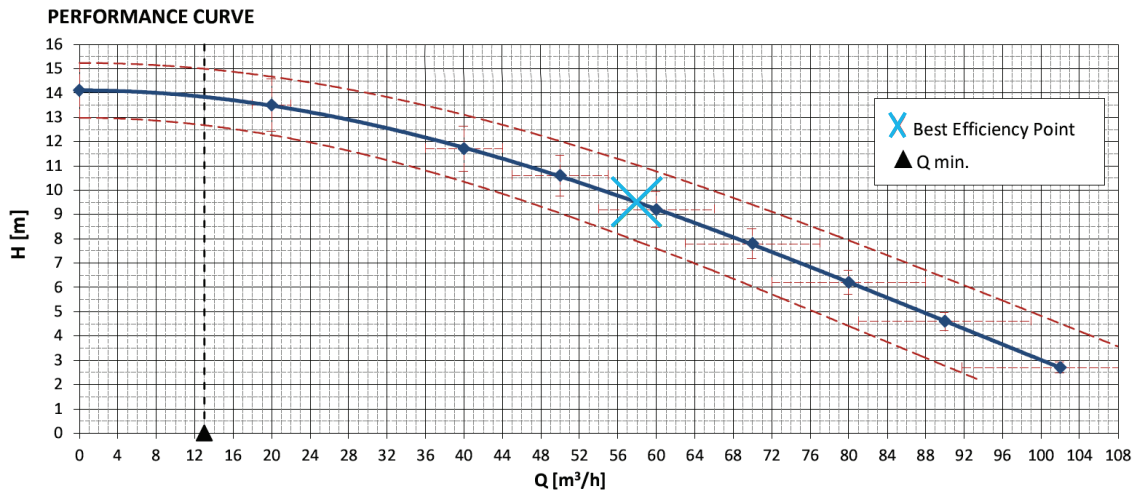


No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Self cleaning propeller	Cast iron
4	Shaft	AISI 420B

No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6305-2RS
8	Lower bearing	3207-2RS

# Vortex Submersible Pump

## VX80T4.942



<b>FLOW (Q)</b>	<b>l/min</b>	0,0	333,3	666,7	833,3	1000,0	1166,7	1333,3	1500,0	1700,0			
	<b>l/s</b>	0,0	5,6	11,1	13,9	16,7	19,4	22,2	25,0	28,3			
	<b>m³/h</b>	0,0	20,0	40,0	50,0	60,0	70,0	80,0	90,0	102,0			
<b>HEAD (H)</b>	<b>m</b>		14,1	13,5	11,7	10,6	9,2	7,8	6,2	4,6	2,7		

## Specifications

Pump Type	VX80T	Discharge	80mm BSP	Humidity Probe	Yes
Code	VX80T4.942	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	1450rpm	Max Flow	102m3/hr
Impeller Type	Vortex	Rated Motor Power	4.9kW	Max Head	14.1m
Weight	108kg	Starting Current	44.5A	Ingress Rating	IP68
Impeller diameter	220mm	Rated Current	8.1A		
Solids Passage	80mm	Thermal Protection	Yes		

# Vortex Submersible Pump

VX80T4.942



## Dimensions and installation

**S Installation mobile**

**Packaging dimensions**

Measures [mm]		
A	B	C
750	450	390

**FC With foot coupling**

**8FC000004 KG: 30**

1	1 1/2" guide rails bracket
2	Vertical foot - 3"out
3	Sliding bracket complete
4	Not supplied

**D** **D** 550  
**E** 600  
**F** 400



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# Vortex Submersible Pump

VX80T5.522

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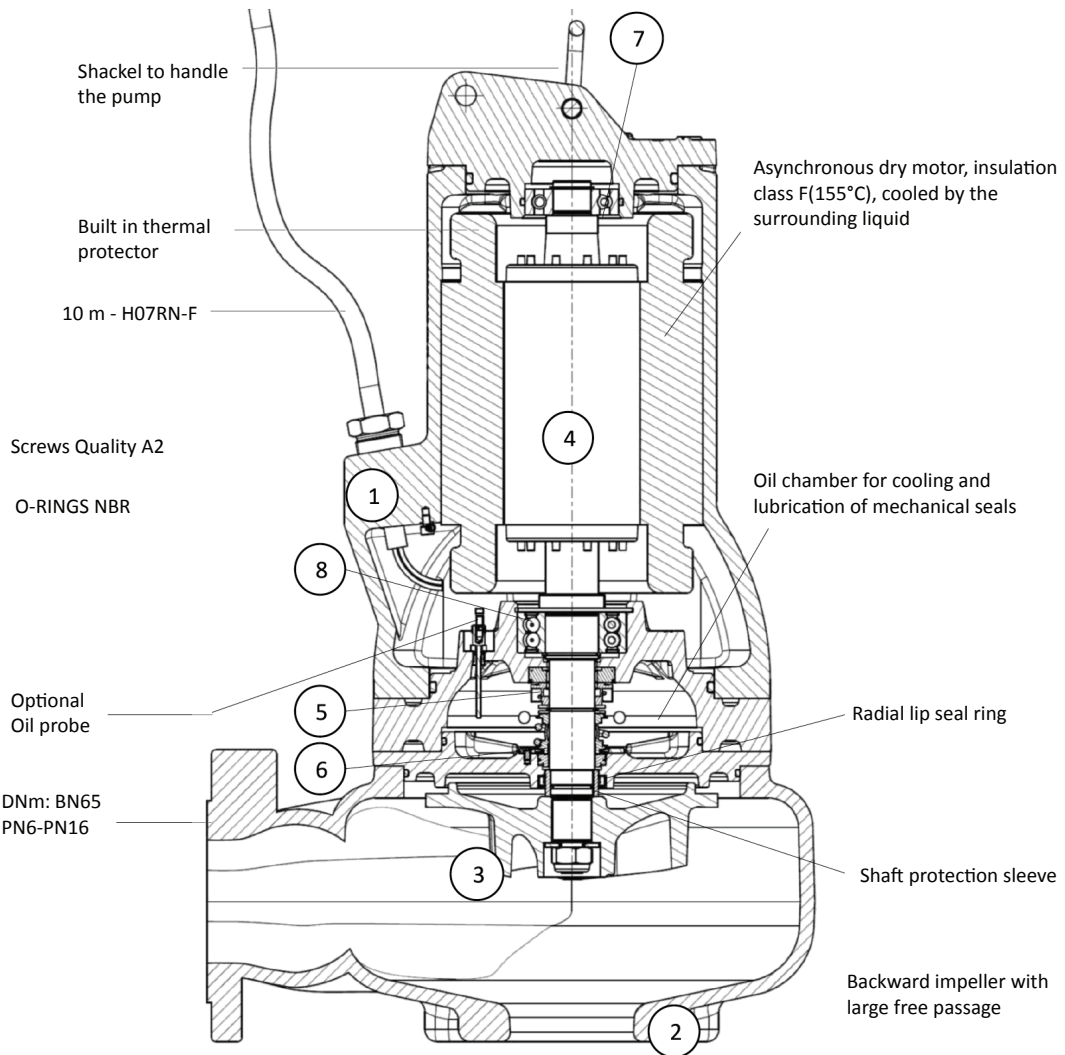


# Vortex Submersible Pump

## VX80T5.522



### Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Self cleaning propeller	Cast iron
4	Shaft	AISI 420B

No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6305-2RS
8	Lower bearing	3207-2RS

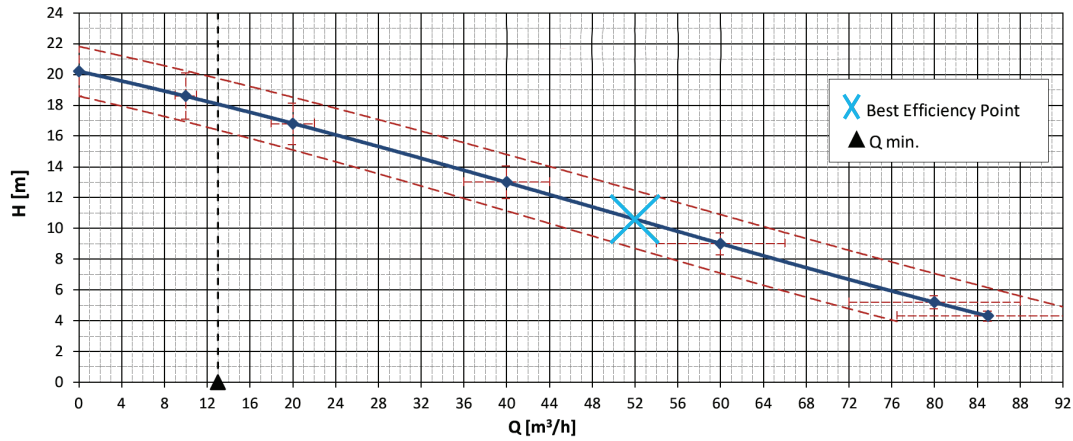
# Vortex Submersible Pump

## VX80T5.522

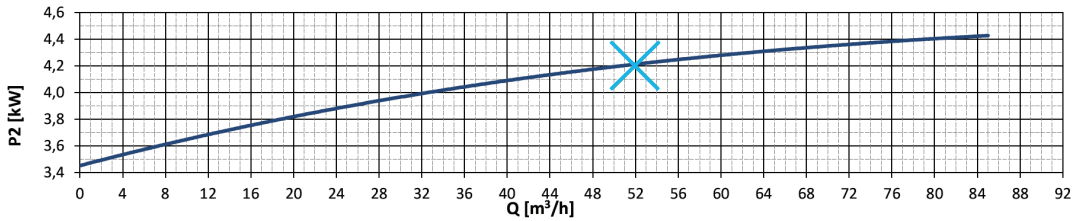


### Influence area

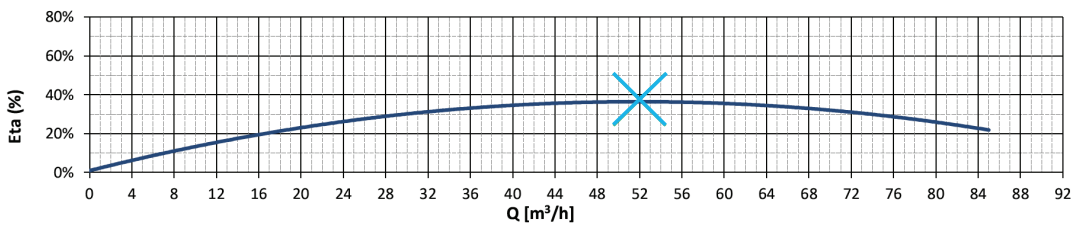
**PERFORMANCE CURVE**



**SHAFT POWER**



**HYDRAULIC EFFICIENCY**



FLOW (Q)	l/min	0,0	166,7	333,3	666,7	1000,0	1333,3	1416,7				
	l/s	0,0	2,8	5,6	11,1	16,7	22,2	23,6				
HEAD (H)	m³/h	0,0	10,0	20,0	40,0	60,0	80,0	85,0				
	m	20,2	18,6	16,8	13,0	9,0	5,2	4,3				

### Specifications

Pump Type	VX80T	Discharge	80mm BSP	Humidity Probe	Yes
Code	VX80T5.522	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	2900rpm	Max Flow	85m3/hr
Impeller Type	Vortex	Rated Motor Power	5.5kW	Max Head	20.2m
Weight	103kg	Starting Current	57A	Ingress Rating	IP68
Impeller diameter	161mm	Rated Current	10A		
Solids Passage	80mm	Thermal Protection	Yes		



# Vortex Submersible Pump

## VX80T5.522



### Dimensions and installation

<b>S</b>	<b>Installation mobile</b>		<b>Packaging dimensions</b>						
			<b>Measures [mm]</b>						
			<table border="1"> <tr> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>750</td> <td>450</td> <td>390</td> </tr> </table>	A	B	C	750	450	390
A	B	C							
750	450	390							

<b>FC</b>	<b>With foot coupling</b>								
			<p><b>8FC000004</b>      <b>KG: 30</b></p> <ul style="list-style-type: none"> <li>● 1 1"1/2 guide rails bracket</li> <li>● 2 Vertical foot - 3"out</li> <li>● 3 Sliding bracket complete</li> <li>4 Not supplied</li> </ul>						
			<table border="1"> <tr> <td>D</td> <td>550</td> </tr> <tr> <td>E</td> <td>600</td> </tr> <tr> <td>F</td> <td>400</td> </tr> </table>	D	550	E	600	F	400
D	550								
E	600								
F	400								