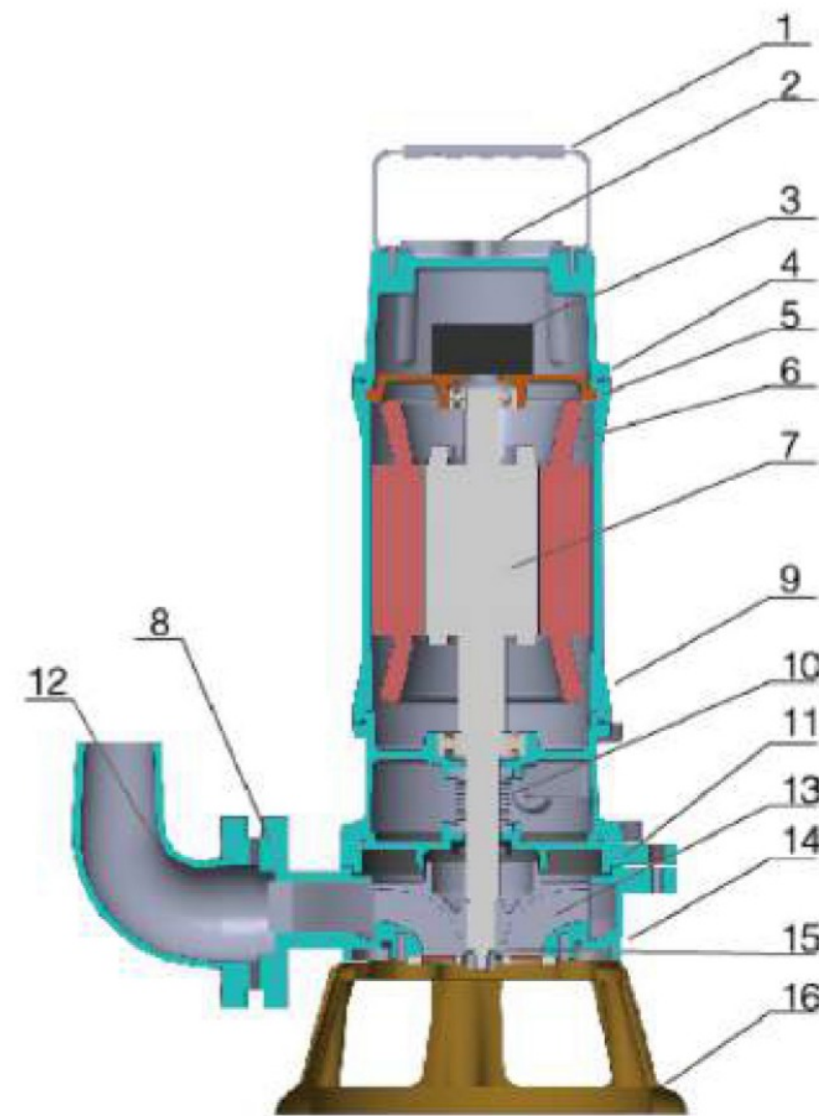


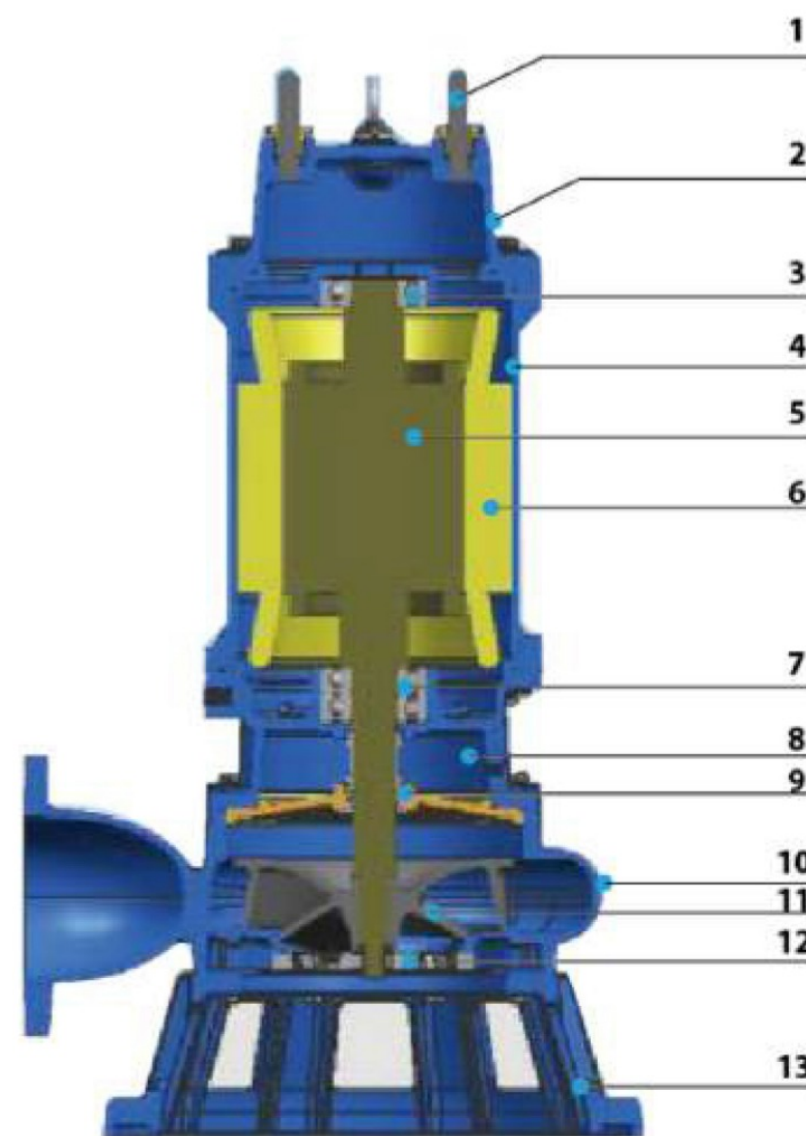
CONSTRUCTION · 2-POLE MODELS



1	Handle	9	Motor body
2	Cable	10	Mechanical seal
3	Capacitor	11	Screw
4	Cap	12	Elbow
5	Thermal protector	13	Impeller
6	Stator	14	Pump body
7	Rotor	15	Cutter ring
8	Outlet	16	Base

Items 3 and 5: single-phase models.

CONSTRUCTION · 4-POLE MODELS



1	Cable	8	Lubricant
2	Motor upper cover	9	Mechanical seal
3	Bearing	10	Pump casing
4	Motor frame	11	Impeller
5	Motor rotor	12	Cutter ring
6	Motor stator	13	Base
7	Bearing		

FEATURES

Cutter impeller with cutter ring

Vortex semi-open, non-clogging impeller. Solids in the wastewater are cut by the impeller and the cutter ring before being pumped out. Impeller and cutter ring are made of high-chromium stainless steel 420, hardness HRC 49–52, for good wear resistance.

Double mechanical seal

Two mechanical seals arranged in series. Seal faces in silicon carbide for superior abrasion resistance and the best sealing effect.

Epoxy-sealed cable entry

An epoxy resin seal at the cable base prevents moisture from entering the motor through the cable cores.

Auto-cut motor protector

Single-phase models have a built-in auto-cut thermal protector that switches the motor off automatically under abnormal electrical conditions or overheating.

Heavy-duty bearings

Heavy-duty ball bearings.

Dry motor, 100% copper winding

Protection IP68, for continuous submerged operation in wastewater and sewage.

SPECIFICATIONS

ITEM	2-POLE MODELS	4-POLE MODELS
Liquid temperature	0 – 40 °C	
Liquid	Wastewater, sewage	
Frequency	50 Hz	
Motor	Dry motor, 2-pole, n ≈ 2900 /min	Dry motor, 4-pole, n ≈ 1450 /min
Protection	IP68	
Motor protector	Auto-cut thermal protector on single-phase models	
Bearing	Ball type	
Mechanical seal	Double mechanical seal, silicon carbide	
Impeller	Vortex, non-clogging, with cutter ring	

APPLICATIONS

- Drainage of wastewater in rivers and wastewater treatment plants
- Commercial buildings, industrial areas and amusement places
- Schools, hospitals, government buildings and parks
- Chicken, cow, pig and fish farms, slaughterhouses

PRODUCT NOMENCLATURE

50	WC	15	15	1.5
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	1.5 – 7.5 kW
Poles	2
Discharge	DN50
Max. flow rate	50 m³/h
Max. head	45 m
Speed	n ≈ 2900 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

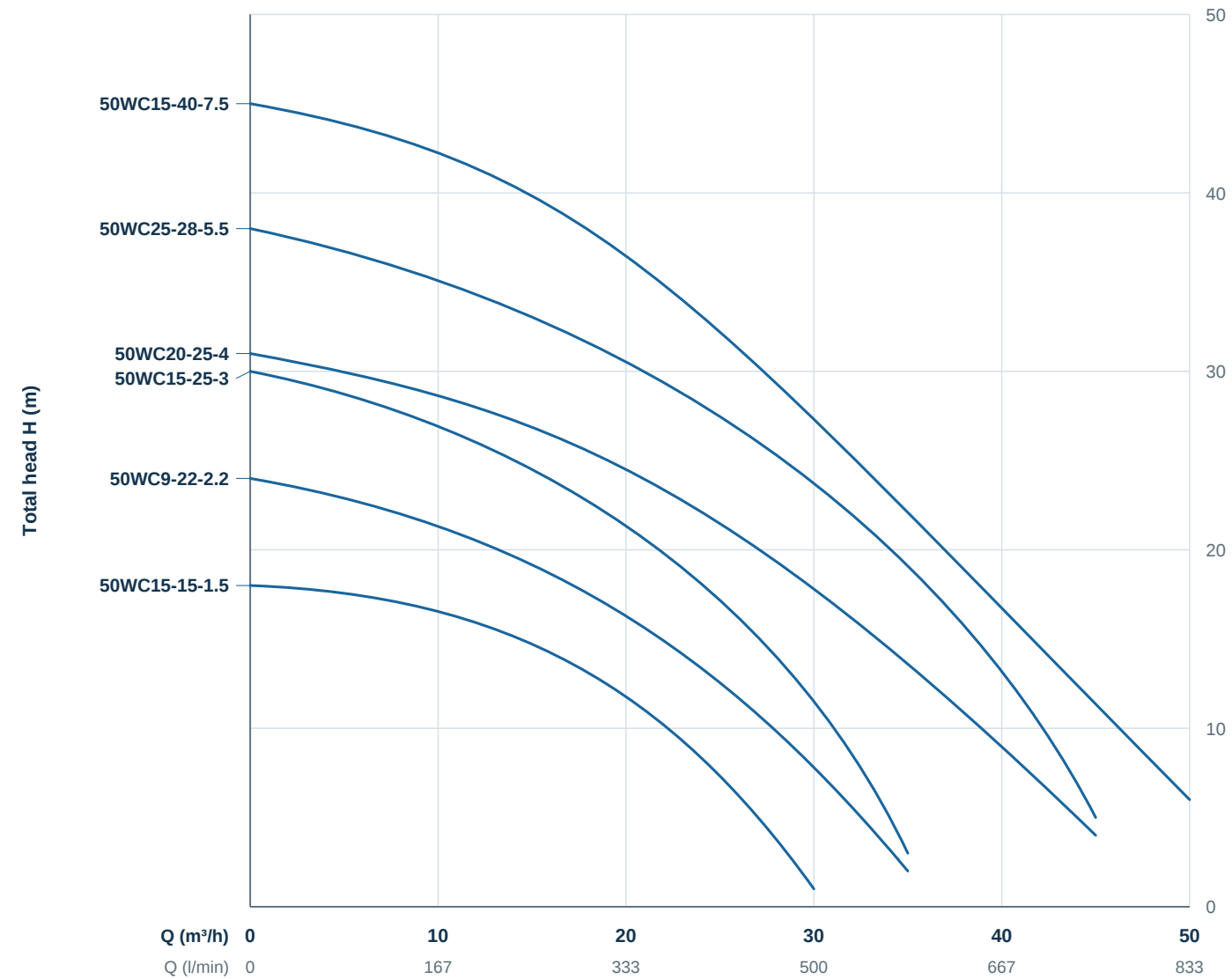
Maximum fluid temperature up to +40 °C

MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
It can work in water containing fiber
Curve tolerance according to ISO 9906



COMPONENT	MATERIAL
Diffuser	Cast-iron ASTM NO.30
Impeller	AISI 420S45
Motor external casing	Cast-iron ASTM NO.30
Mechanical seal	Silicon carbide (SiC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h l/min	0	5	10	15	20	25	30	35	40	45	50
3~ 380–415 V	1~ 220–240 V	kW	HP			0	83	167	250	333	417	500	583	667	750	833
50WC15-15-1.5	50WCD15-15-1.5	1.5	2	H (m)		18	18	17	15	12	7	1				
50WC9-22-2.2	50WCD9-22-2.2	2.2	3			24	23	22	19	16	12	8	2			
50WC15-25-3	–	3	4			30	29	28	25	21	17	11	3			
50WC20-25-4	–	4	5.5			31	31	29	28	25	22	18	13	9	4	
50WC25-28-5.5	–	5.5	7.5			38	38	36	34	32	28	23	19	13	5	
50WC15-40-7.5	–	7.5	10			45	44	42	40	36	32	28	22	16	11	6

PRODUCT NOMENCLATURE

65	WC	25	10	1.5
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	1.5 – 7.5 kW
Poles	2
Discharge	DN65
Max. flow rate	65 m³/h
Max. head	45 m
Speed	n ≈ 2900 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

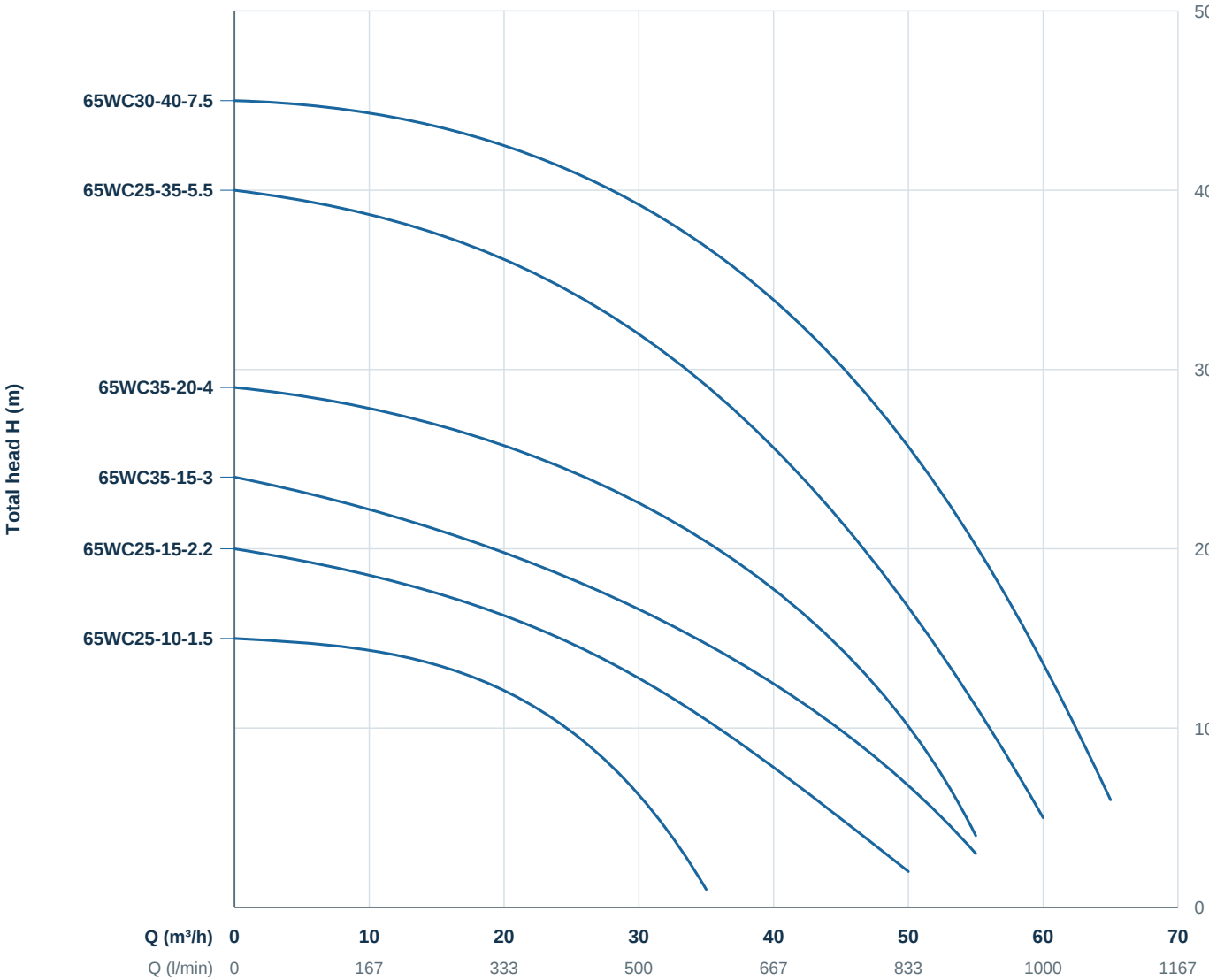
Maximum fluid temperature up to +40 °C

MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
It can work in water containing fiber
Curve tolerance according to ISO 9906



COMPONENT	MATERIAL
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Impeller	AISI 420S45
Motor external casing	Cast-iron ASTM NO.30
Mechanical seal	Silicon carbide (SiC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h	0	5	10	15	20	25	30	35	40	45	50	55	60	65
3~ 380–415 V	1~ 220–240 V	kW	HP			0	83	167	250	333	417	500	583	667	750	833	917	1000	1083
65WC25-10-1.5	65WCD25-10-1.5	1.5	2	H (m)		15	15	15	14	12	10	6	1						
65WC25-15-2.2	65WCD25-15-2.2	2.2	3			20	20	19	18	17	15	13	10	8	5	2			
65WC35-15-3	–	3	4			24	24	23	22	20	19	17	15	12	10	7	3		
65WC35-20-4	–	4	5.5			29	29	29	28	27	25	23	20	17	14	10	4		
65WC25-35-5.5	–	5.5	7.5			40	40	39	38	37	35	33	30	26	21	16	11	5	
65WC30-40-7.5	–	7.5	10			45	45	45	44	43	42	40	37	34	30	26	20	13	6

PRODUCT NOMENCLATURE

80	WC	45	9	2.2
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	2.2 – 9.5 kW
Poles	2
Discharge	DN80
Max. flow rate	120 m³/h
Max. head	40 m
Speed	n ≈ 2900 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

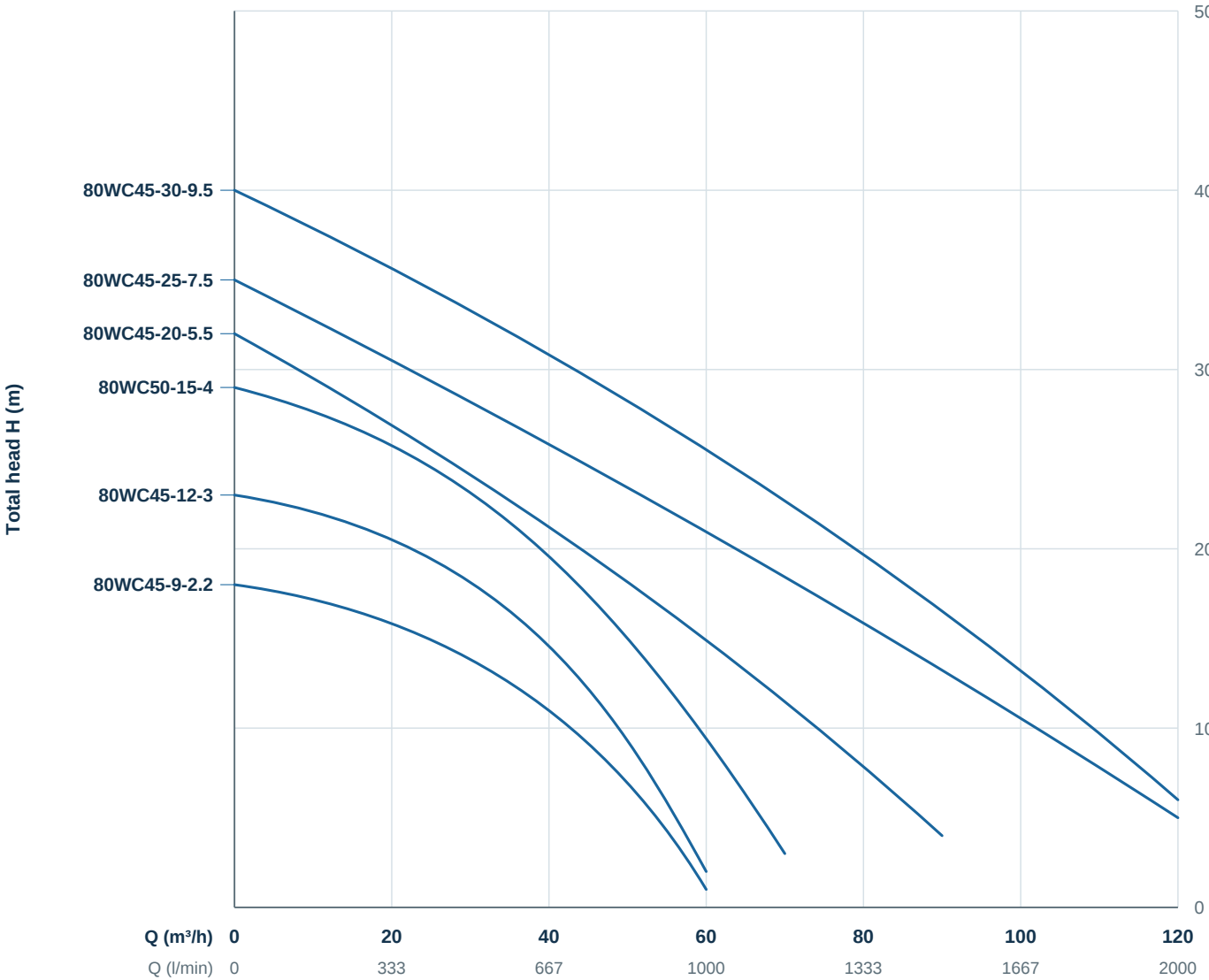
Maximum fluid temperature up to +40 °C

MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
It can work in water containing fiber
Curve tolerance according to ISO 9906



COMPONENT	MATERIAL
Diffuser	Cast-iron ASTM NO.30
Impeller	AISI 420S45
Motor external casing	Cast-iron ASTM NO.30
Mechanical seal	Silicon carbide (SiC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h	0	10	20	30	40	50	60	70	80	90	100	110	120
3~ 380–415 V	1~ 220–240 V	kW	HP			0	167	333	500	667	833	1000	1167	1333	1500	1667	1833	2000
80WC45-9-2.2	80WCD45-9-2.2	2.2	3	H (m)		18	18	16	14	11	7	1						
80WC45-12-3	–	3	4			23	23	21	19	15	9	2						
80WC50-15-4	–	4	5.5			29	28	27	24	20	15	9	3					
80WC45-20-5.5	–	5.5	7.5			32	30	28	25	22	18	15	11	8	4			
80WC45-25-7.5	–	7.5	10			35	33	31	29	26	24	21	18	16	13	11	8	5
80WC45-30-9.5	–	9.5	13			40	38	36	34	31	29	26	23	19	16	13	10	6

PRODUCT NOMENCLATURE

100	WC	65	12	4
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	4 – 22 kW
Poles	2
Discharge	DN100
Max. flow rate	240 m³/h
Max. head	65 m
Speed	n ≈ 2900 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

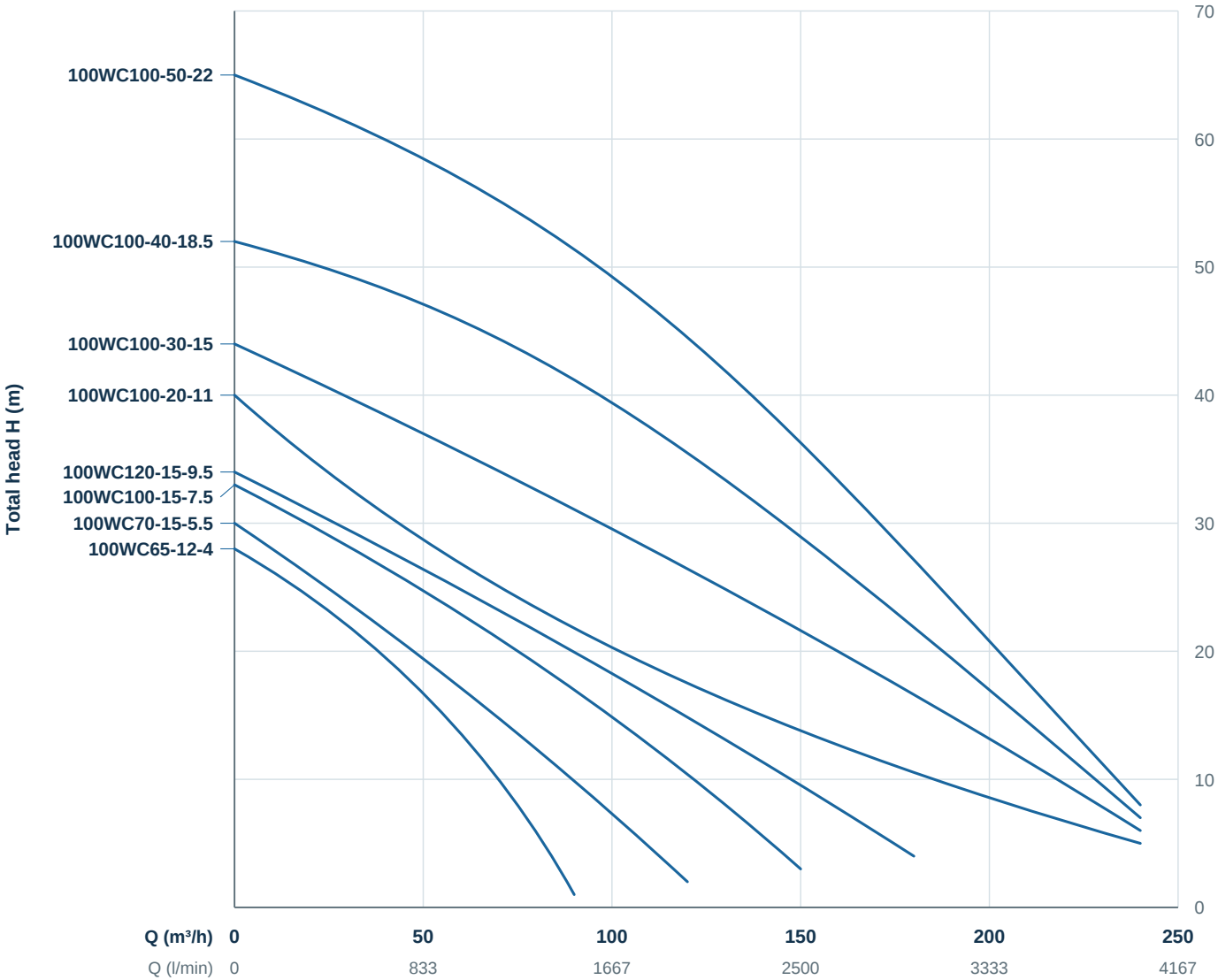
Maximum fluid temperature up to +40 °C

MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
It can work in water containing fiber
Curve tolerance according to ISO 9906



COMPONENT	MATERIAL
Diffuser	Cast-iron ASTM NO.30
Impeller	AISI 420S45
Motor external casing	Cast-iron ASTM NO.30
Mechanical seal	Silicon carbide (SiC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h l/min	0	30	60	90	120	150	180	210	240
3~ 380–415 V	1~ 220–240 V	kW	HP			0	500	1000	1500	2000	2500	3000	3500	4000
100WC65-12-4	–	4	5.5	H (m)		28	23	14	1					
100WC70-15-5.5	–	5.5	7.5			30	24	17	10	2				
100WC100-15-7.5	–	7.5	10			33	29	24	17	10	3			
100WC120-15-9.5	–	9.5	13			34	30	25	20	15	10	4		
100WC100-20-11	–	11	15			40	34	27	22	17	14	11	8	5
100WC100-30-15	–	15	20			44	40	36	32	27	21	17	11	6
100WC100-40-18.5	–	18.5	25			52	49	46	41	35	29	22	15	7
100WC100-50-22	–	22	30			65	62	58	52	45	37	26	17	8

PRODUCT NOMENCLATURE

150	WC	100	10	5.5
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	5.5 – 22 kW
Poles	2
Discharge	DN150
Max. flow rate	360 m³/h
Max. head	44 m
Speed	n ≈ 2900 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

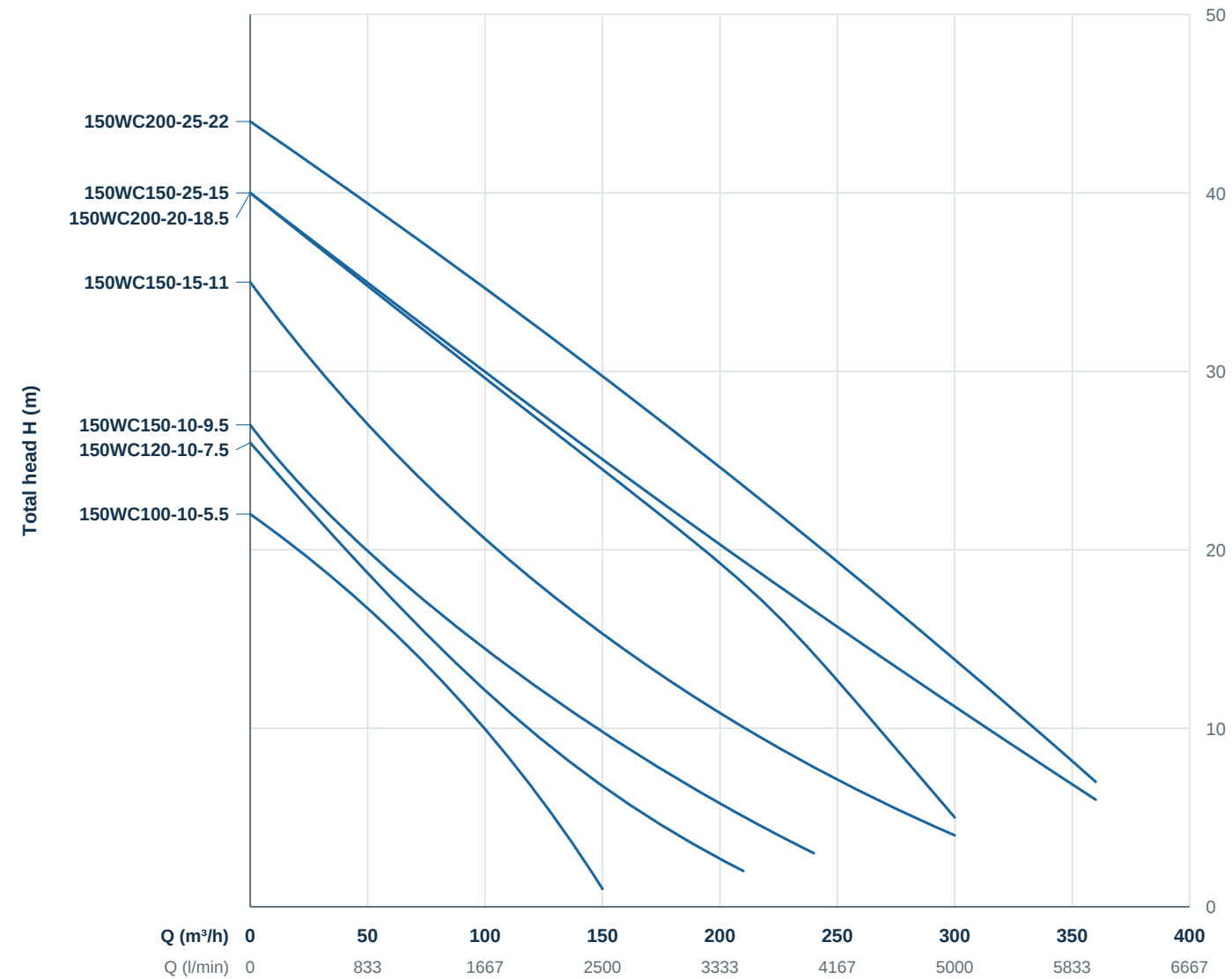
Maximum fluid temperature up to +40 °C

MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
It can work in water containing fiber
Curve tolerance according to ISO 9906



COMPONENT	MATERIAL
Diffuser	Cast-iron ASTM NO.30
Impeller	AISI 420S45
Motor external casing	Cast-iron ASTM NO.30
Mechanical seal	Silicon carbide (SiC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h	0	30	60	90	120	150	180	210	240	270	300	330	360
3~ 380–415 V	1~ 220–240 V	kW	HP			0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
150WC100-10-5.5	–	5.5	7.5			22	19	16	12	7	1							
150WC120-10-7.5	–	7.5	10			26	22	17	14	10	7	4	2					
150WC150-10-9.5	–	9.5	13			27	22	18	15	13	10	7	5	3				
150WC150-15-11	–	11	15	H (m)		35	30	26	22	18	15	12	10	8	6	4		
150WC150-25-15	–	15	20			40	37	34	31	28	25	21	18	14	10	5		
150WC200-20-18.5	–	18.5	25			40	37	34	31	28	25	22	19	17	14	11	9	6
150WC200-25-22	–	22	30			44	42	40	37	34	31	27	24	20	17	14	10	7

PRODUCT NOMENCLATURE

200	WC	200	9	11
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	11 – 30 kW
Discharge	DN200
Max. flow rate	600 m³/h
Max. head	32 m
Speed	n ≈ 1450 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

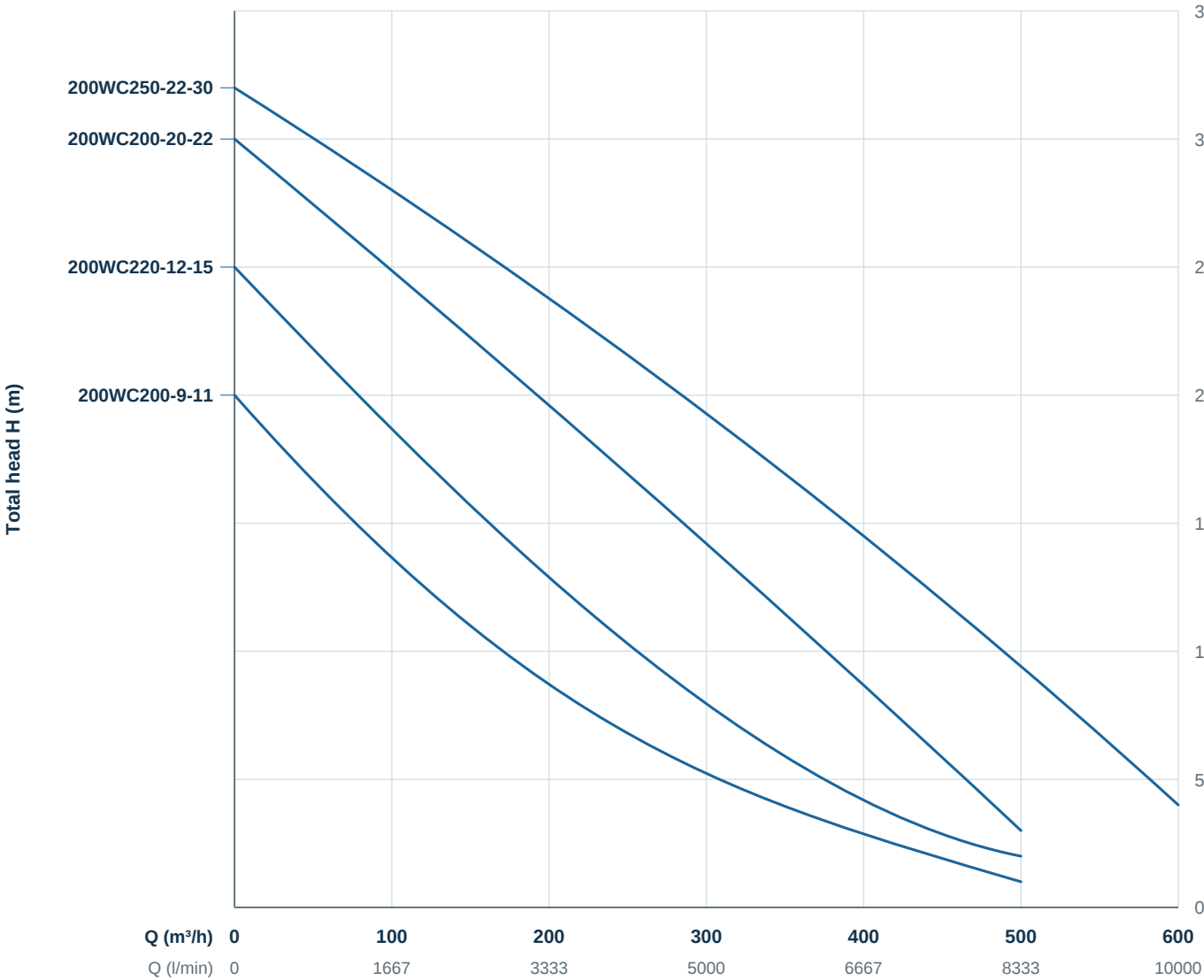
Maximum fluid temperature up to +40 °C

MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
It can work in water containing fiber
Curve tolerance according to ISO 9906



COMPONENT	MATERIAL
Diffuser	Cast-iron ASTM NO.30
Impeller	AISI 420S45
Motor external casing	Cast-iron ASTM NO.30
Mechanical seal	Silicon carbide (SiC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h	0	50	100	150	200	250	300	350	400	450	500	550	600
3~ 380–415 V	1~ 220–240 V	kW	HP			0	833	1667	2500	3333	4167	5000	5833	6667	7500	8333	9167	10000
200WC200-9-11	–	11	15	H (m)		20	17	14	11	9	7	5	4	3	2	1		
200WC220-12-15	–	15	20			25	22	19	16	13	10	8	6	4	3	2		
200WC200-20-22	–	22	30			30	28	25	23	20	17	14	11	9	6	3		
200WC250-22-30	–	30	40			32	30	28	26	24	22	19	17	14	12	9	7	4

PRODUCT NOMENCLATURE

250	WC	600	9	30
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	30 – 45 kW
Discharge	DN250
Max. flow rate	1100 m³/h
Max. head	24 m
Speed	n ≈ 1450 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

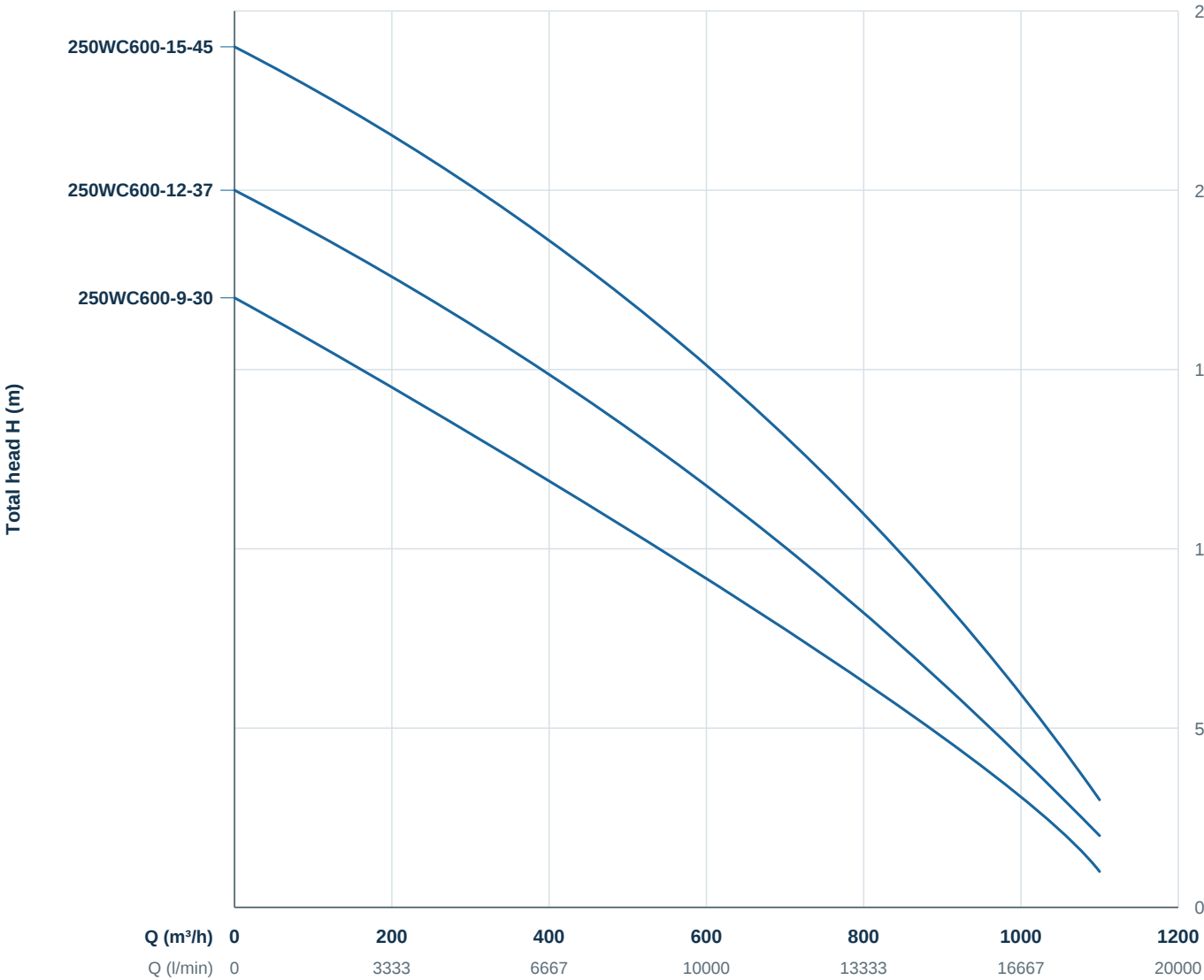
Maximum fluid temperature up to +40 °C

MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
It can work in water containing fiber
Curve tolerance according to ISO 9906



COMPONENT	MATERIAL
Diffuser	Cast-iron ASTM NO.30
Impeller	AISI 420S45
Motor external casing	Cast-iron ASTM NO.30
Mechanical seal	Silicon carbide (SiC)
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h	0	100	200	300	400	500	600	700	800	900	1000	1100
3~ 380–415 V	1~ 220–240 V	kW	HP			0	1667	3333	5000	6667	8333	10000	11667	13333	15000	16667	18333
250WC600-9-30	–	30	40	H (m)		17	16	15	13	12	11	9	8	6	5	3	1
250WC600-12-37	–	37	50			20	19	18	17	15	14	12	10	8	6	4	2
250WC600-15-45	–	45	60			24	23	22	21	19	17	15	13	11	9	6	3

PRODUCT NOMENCLATURE

300	WC	800	12	45
Outlet size (mm)	Model	Rated flow (m³/h)	Rated head (m)	Power (kW)
WC: three-phase 3~ WCD: single-phase 1~				

RANGE CHARACTERISTICS

Power	45 – 110 kW
Discharge	DN300
Max. flow rate	2600 m³/h
Max. head	34 m
Speed	n ≈ 1450 /min

APPLICATIONS

Sewage treatment plants
Industrial draining
Agriculture irrigation

OPERATING CONDITIONS

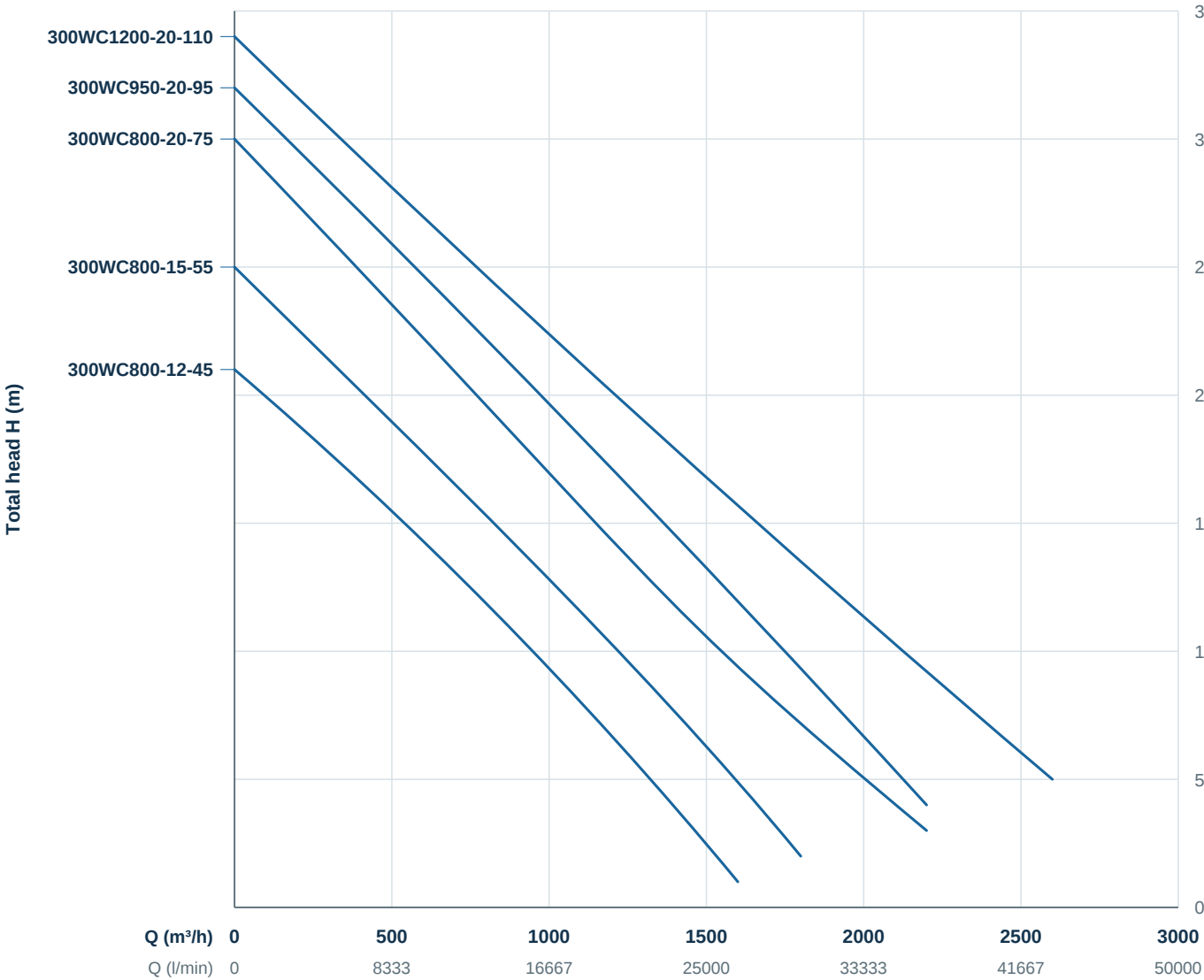
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MOTOR AND PUMP

Rewindable motor
Single-phase: 220–240 V / 50 Hz
Three-phase: 380–415 V / 50 Hz
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Seal lubricant oil	Oil for food machinery and pharmaceutical use



PERFORMANCE DATA

MODEL		P ₂		Q	m³/h l/min	0	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600
3~ 380–415 V	1~ 220–240 V	kW	HP			0	3333	6667	10000	13333	16667	20000	23333	26667	30000	33333	36667	40000	43333
300WC800-12-45	–	45	60	H (m)		21	19	17	14	12	9	7	4	1					
300WC800-15-55	–	55	75			25	23	20	18	15	13	10	8	5	2				
300WC800-20-75	–	75	100			30	28	25	23	20	17	15	12	9	7	5	3		
300WC950-20-95	–	95	130			32	30	27	25	22	19	17	14	12	9	7	4		
300WC1200-20-110	–	110	150			34	32	30	27	25	23	20	18	15	14	11	9	7	5