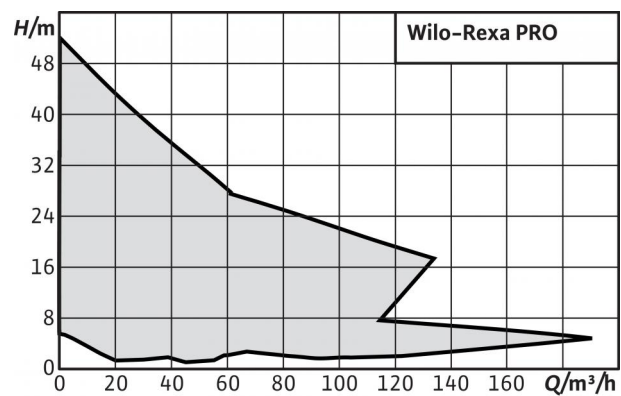


Series description: Wilo-Rexa PRO



Similar to figure

Design

Submersible sewage pump for continuous duty for stationary and portable wet well installation, as well as for stationary dry well installation.

Application

Pumping of

- Untreated sewage
- Sewage containing faeces in accordance with (DIN) EN 12050-1
- Wastewater

Type key

Type key

Example:

Wilo-Rexa PRO

Series description: Wilo-Rexa PRO

Type key

Example:

PRO

V

06

D

A

110

E

A

D

1

X

2

T

0015

5

40

O

Wilo-Rexa PRO
V06DA-110/EAD1X2-T0015-540-O
Series name
Impeller type:
V = Vortex impeller
C = Single-channel impeller
Nominal diameter of pressure connection e.g. DN 65
Hydraulic version
D = suction side drilled in accordance with DIN
N = suction side drilled in accordance with ANSI (North American Standard)
Material version, hydraulics
Hydraulics definition
Motor version
E = dry motor
R = power-reduced motor
Material version, motor
Seal version
D = with two independent mechanical shaft seals
IE efficiency class, e.g. 1 = IE1 (derived from IEC 60034-30)
Ex-approval
X = ATEX
F = FM
C = CSA
Number of poles
Mains connection version:
M = 1~
T = 3~
Value/10 = rated motor power P_2 in kW
Frequency (5 = 50 Hz, 6 = 60 Hz)
Code for rated voltage
Additional electrical equipment
O = with bare cable end
F = float switch with bare cable end
A = float switch with plug
P = with plug

Special features/product advantages

- Highly effective. Thanks to efficiency-optimized single-channel impellers
- Safe to operate due to low-clogging vortex impellers
- Verified safety: Ex-rated in accordance with ATEX as standard
- Energy-efficient IE3 motor technology available as an option

Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Immersed operating mode: S1
- Non-immersed operating mode: S2-30 min; S3 25%
- Protection class: IP 68
- Insulation class: F
- Fluid temperature: 3...40 °C, max. 60 °C for 3 min
- Max. immersion depth: 20 m
- Cable length: 10 m

Equipment/function

- Leakage detection for the motor compartment
- Winding temperature monitoring with bimetallic strip
- Optional external pencil electrode for sealing chamber control
- Single-phase version with capacitor switchgear

Description/design

Submersible sewage pump as submersible monobloc unit for stationary and portable wet well installation, as well as stationary dry well installation.

Hydraulics

The outlet on the pressure side is designed as horizontal flange connection. The maximum possible dry matter is 8 % (depending on the hydraulics) Vortex and single-channel impellers are used.

Motor

The motor versions used are single-phase current and three-phase current surface-cooled motors. For single-phase current motors, the condenser is installed in a separate switchgear. Depending on performance, activation is carried out via direct startup or star/delta startup.

The motor is cooled by the medium around it (pumped fluid or air). The waste heat is dissipated via the motor housing.

The motors can be immersed during continuous duty (S1). In submerged operation, the operating modes S1 (continuous duty), S2 (short-time duty) or S3 (intermittent) are possible depending on the rated motor power.

Furthermore the motors are equipped with the following monitoring devices:

- Leakage detection motor compartment. The leakage detection signals water ingress into the motor compartment.
- Thermal motor monitoring
The thermal motor monitoring protects the motor windings against overheating. Bimetallic strips are used for this as standard.

The motor can also be fitted with an external sealing chamber electrode to monitor the sealing chamber. This signals if there is water ingress into the sealing chamber through the mechanical seal on the fluid side.

The connection cable has bare cable ends, a length of 10 m as standard, and is longitudinally watertight.

Seal

Located between the motor and hydraulics is a sealing chamber with the seal on the fluid and motor side. This sealing chamber is filled with medicinal white oil. The fluid-side and motor-side seals are provided by two mechanical seals which rotate independently of each other.

Materials

- Motor housing: EN-GJL-250
- Hydraulics housing: EN-GJL 250
- Impeller: EN-GJL 250 or EN-GJS-500-7
- Static gaskets: NBR
- Sealing on pump side: SiC/SiC
- Sealing on motor side: C/MgSiO₄
- Shaft end: Stainless steel 1.4021

Scope of delivery

- Submersible sewage pump with 10 m cable
- Operating and maintenance manual

Accessories

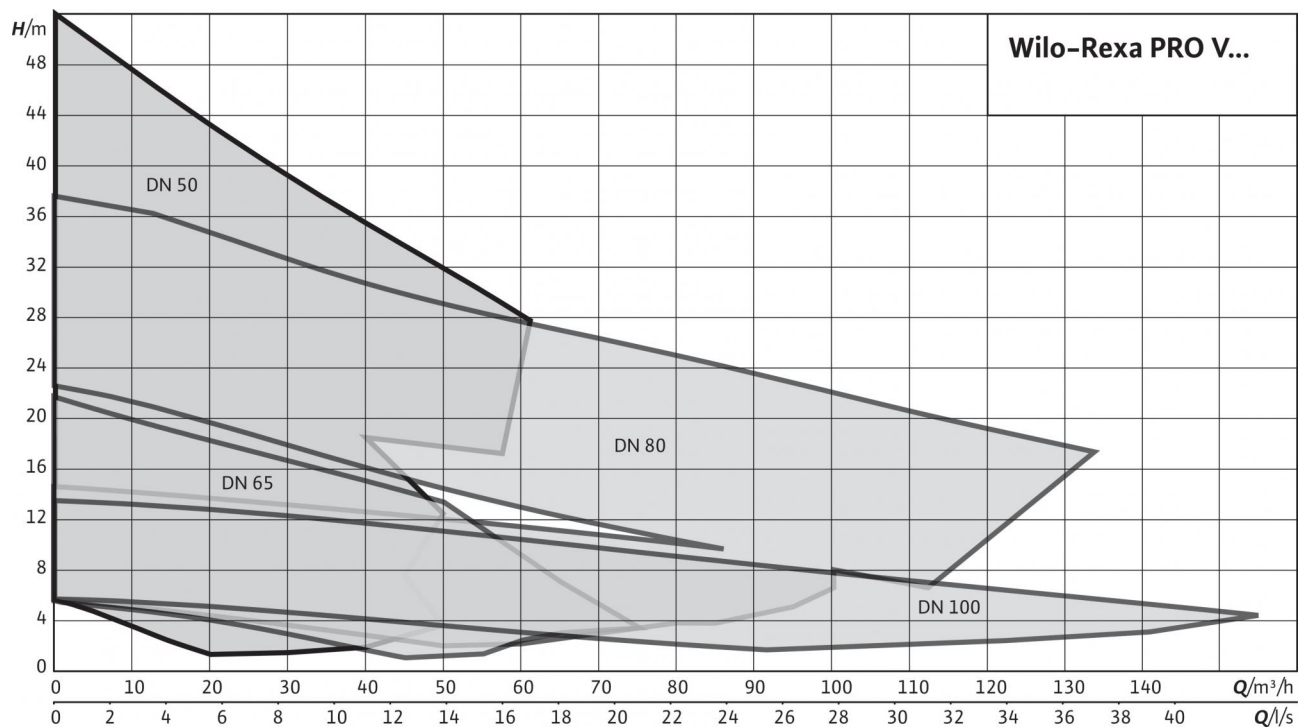
Series description: Wilo-Rexa PRO

Accessories

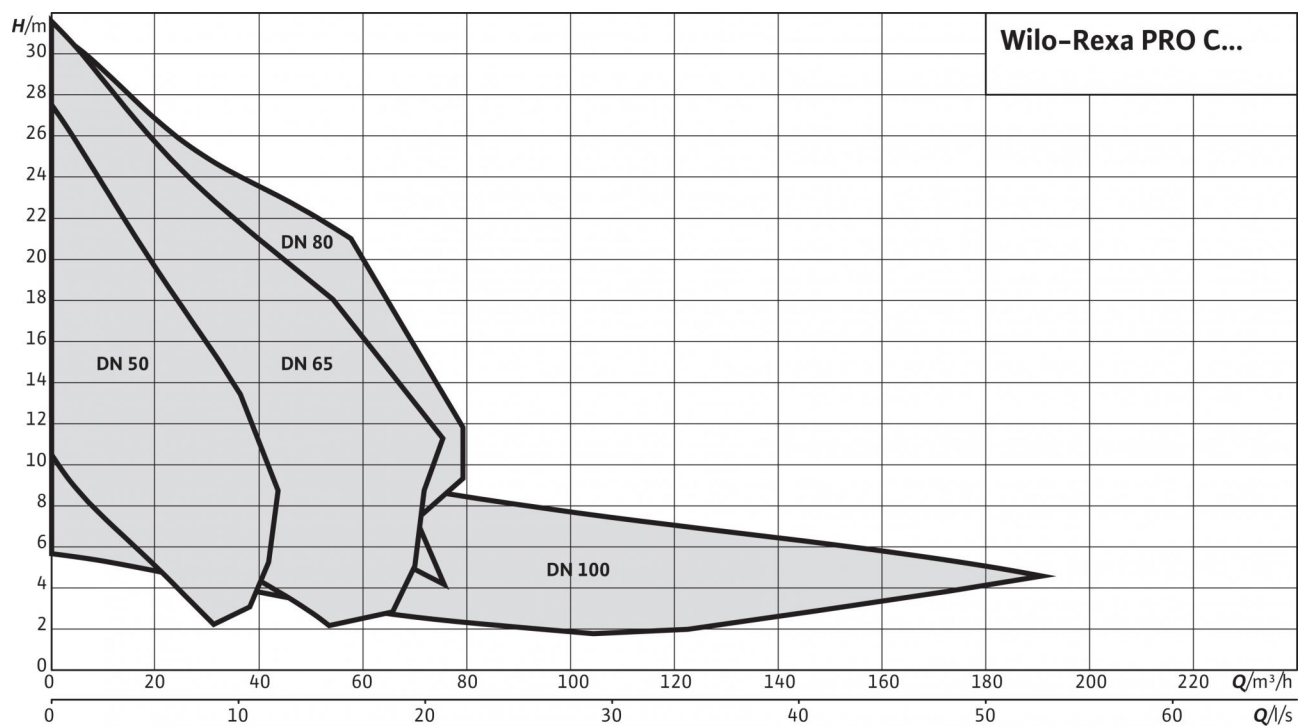
- Suspension unit or pump support foot
- External sealing chamber monitoring for monitoring the sealing chamber
- Switchgears, relays and plugs
- Fixation sets with anchor bolts
- Chains

Duty chart: Wilo-Rexa PRO

Duty chart - Vortex impeller



Duty chart - Semi-open single-channel impeller



Equipment/function: Wilo-Rexa PRO

Design

Submersible	•
Single-channel impeller	•
Vortex impeller	•
Multi-channel impeller	-
Open multi-channel impeller	-
Macerator	-
Turbulator	-
Sealing chamber	•
Leakage chamber	-
Sealing by mechanical seal on motor side	•
Sealing by rotary shaft seal on motor side	-
Sealing by mechanical seal on fluid side	•
AC motor	•
Three-phase motor	•
Direct activation	•
Star-delta activation	-
FC operation	•
dry motor	•
Motor with oil cooling	-
Dry motor with closed-circuit cooling	-

Application

Wet well installation, stationary	•
Wet well installation, portable	•
Dry well installation, stationary	•
Dry well installation, portable	-

Equipment/function

Motor leakage monitoring	•
Sealing chamber monitoring	°
Leakage chamber monitoring	-
Motor temperature monitoring, bimetal	•
PTC motor temperature monitoring	°
Explosion protection	•
Float switch	-
Capacitor box for 1~230 V	•
Ready-to-plug	°

Materials

Pump housing	Cast iron
Impeller	Cast iron
Motor housing	Cast iron

• = available, - = not available; ° = optional

Product list: Wilo-Rexa PRO

TYP	Pressure connection	Max. volume flow Q_{\max}	Max. delivery head H_{\max}	Optimum volume flow Q_{opt}	Optimal delivery head H_{opt}	Rated current I_N	Rated power P_2	Explosion protection	Art no.
PRO C05DA-32 DN 50 2/EAD0X2-M00 11-523-O		9 l/s	11 m	5 l/s	6 m	7.2 A	1.1 kW	ATEX	6076424
PRO C05DA-32 DN 50 2/EAD1X2-T001 1-540-O		9 l/s	11 m	5 l/s	6 m	2.9 A	1.1 kW	ATEX	6076425
PRO C05DA-32 DN 50 4/EAD0X2-M00 11-523-O		11 l/s	16 m	5 l/s	9 m	7.2 A	1.1 kW	ATEX	6076426
PRO C05DA-32 DN 50 4/EAD1X2-T001 1-540-O		11 l/s	16 m	5 l/s	9 m	2.9 A	1.1 kW	ATEX	6076427
PRO C05DA-32 DN 50 6/EAD0X2-M00 15-523-O		11 l/s	20 m	6 l/s	11 m	9.3 A	1.5 kW	ATEX	6076428
PRO C05DA-32 DN 50 6/EAD1X2-T001 5-540-O		11 l/s	20 m	6 l/s	11 m	3.6 A	1.5 kW	ATEX	6076429
PRO C05DA-32 DN 50 8/EAD1X2-T002 5-540-O		12 l/s	25 m	7 l/s	15 m	5.5 A	2.5 kW	ATEX	6076430
PRO C05DA-32 DN 50 9/EAD1X2-T002 5-540-O		10 l/s	28 m	7 l/s	17 m	5.5 A	2.5 kW	ATEX	6076431
PRO C06DA-34 DN 65/DN 80 2/EAD1X2-T002 5-540-O		15 l/s	12 m	9 l/s	6 m	5.5 A	2.5 kW	ATEX	6077700
PRO C06DA-34 DN 65/DN 80 4/EAD1X2-T002 5-540-O		18 l/s	16 m	10 l/s	8 m	5.5 A	2.5 kW	ATEX	6077701
PRO C06DA-34 DN 65/DN 80 5/EAD1X2-T002 5-540-O		19 l/s	21 m	11 l/s	10 m	5.5 A	2.5 kW	ATEX	6077702
PRO C06DA-34 DN 65/DN 80 6/EAD1X2-T003 9-540-O		19 l/s	26 m	13 l/s	13 m	8.5 A	3.9 kW	ATEX	6077703
PRO C06DA-34 DN 65/DN 80 8/EAD1X2-T003 9-540-O		20 l/s	29 m	14 l/s	16 m	8.5 A	3.9 kW	ATEX	6077704
PRO C06DA-34 DN 65/DN 80 9/EAD1X2-T003 9-540-O		14 l/s	32 m	14 l/s	19 m	8.5 A	3.9 kW	ATEX	6077705
PRO C08DA-41 DN 80 2/EAD0X2-M00 11-523-O		17 l/s	10 m	12 l/s	5 m	7.2 A	1.1 kW	ATEX	6078834

Product list: Wilo-Rexa PRO

TYP	Pressure connection	Max. volume flow Q_{\max}	Max. delivery head H_{\max}	Optimum volume flow Q_{opt}	Optimal delivery head H_{opt}	Rated current I_N	Rated power P_2	Explosion protection	Art no.
PRO C08DA-41 DN 80 2/EAD1X2-T001 1-540-O		17 l/s	10 m	12 l/s	5 m	2.9 A	1.1 kW	ATEX	6078833
PRO C08DA-41 DN 80 3/EAD0X2-M00 15-523-O		21 l/s	12 m	14 l/s	7 m	9.3 A	1.5 kW	ATEX	6078836
PRO C08DA-41 DN 80 3/EAD1X2-T001 5-540-O		21 l/s	12 m	14 l/s	7 m	3.6 A	1.5 kW	ATEX	6078835
PRO C08DA-41 DN 80 5/EAD1X2-T002 5-540-O		24 l/s	16 m	15 l/s	9 m	5.5 A	2.5 kW	ATEX	6078837
PRO C08DA-41 DN 80 7/EAD0X4-M00 11-523-O		16 l/s	6 m	10 l/s	4 m	7.3 A	1.1 kW	ATEX	6078839
PRO C08DA-41 DN 80 7/EAD1X4-T001 1-540-O		16 l/s	6 m	10 l/s	4 m	3.05 A	1.1 kW	ATEX	6078838
PRO C08DA-41 DN 80 8/EAD0X4-M00 15-523-O		18 l/s	7 m	12 l/s	5 m	9.4 A	1.5 kW	ATEX	6078841
PRO C08DA-41 DN 80 8/EAD1X4-T001 5-540-O		18 l/s	7 m	12 l/s	5 m	3.7 A	1.5 kW	ATEX	6078840
PRO C08DA-43 DN 80 2/EAD1X2-T002 5-540-O		21 l/s	14 m	13 l/s	8 m	5.5 A	2.5 kW	ATEX	6078110
PRO C08DA-43 DN 80 3/EAD1X2-T002 5-540-O		20 l/s	17 m	15 l/s	9 m	5.5 A	2.5 kW	ATEX	6078111
PRO C08DA-43 DN 80 4/EAD1X2-T003 9-540-O		22 l/s	21 m	17 l/s	12 m	8.5 A	3.9 kW	ATEX	6078112
PRO C08DA-43 DN 80 5/EAD1X2-T003 9-540-O		22 l/s	25 m	18 l/s	14 m	8.5 A	3.9 kW	ATEX	6078113
PRO C08DA-43 DN 80 6/EAD1X2-T005 0-540-O		19 l/s	28 m	18 l/s	17 m	9.8 A	5 kW	ATEX	6078153
PRO C08DA-43 DN 80 7/EAD1X2-T005 0-540-O		16 l/s	31 m	16 l/s	21 m	9.8 A	5 kW	ATEX	6078154
PRO C10DA-51 DN 100 2/EAD0X4-M00 11-523-O		29 l/s	6 m	19 l/s	3 m	7.3 A	1.1 kW	ATEX	6076766

Product list: Wilo-Rexa PRO

TYP	Pressure connection	Max. volume flow Q_{\max}	Max. delivery head H_{\max}	Optimum volume flow Q_{opt}	Optimal delivery head H_{opt}	Rated current I_N	Rated power P_2	Explosion protection	Art no.
PRO C10DA-51 DN 100 2/EAD1X4-T001 1-540-O		29 l/s	6 m	19 l/s	3 m	3.05 A	1.1 kW	ATEX	6076767
PRO C10DA-51 DN 100 3/EAD0X4-M00 15-523-O		33 l/s	7 m	23 l/s	3 m	9.4 A	1.5 kW	ATEX	6076768
PRO C10DA-51 DN 100 3/EAD1X4-T001 5-540-O		33 l/s	7 m	23 l/s	3 m	3.7 A	1.5 kW	ATEX	6076769
PRO C10DA-51 DN 100 4/EAD1X4-T002 5-540-O		40 l/s	9 m	27 l/s	4 m	5.8 A	2.5 kW	ATEX	6076770
PRO C10DA-51 DN 100 6/EAD0X4-T003 5-540-O		47 l/s	11 m	36 l/s	5 m	8.1 A	3.45 kW	ATEX	6076771
PRO C10DA-51 DN 100 8/EAD0X4-T003 5-540-O		43 l/s	13 m	39 l/s	6 m	8.1 A	3.45 kW	ATEX	6076772
PRO C10DA-51 DN 100 8/EAD0X4-T004 5-540-O		52 l/s	13 m	39 l/s	6 m	9.4 A	4.5 kW	ATEX	6076773
PRO V05DA-12 DN 50 2/EAD0X2-M00 11-523-O		6 l/s	6 m	3 l/s	3 m	7.2 A	1.1 kW	ATEX	6064718
PRO V05DA-12 DN 50 2/EAD1X2-T001 1-540-O		6 l/s	6 m	3 l/s	3 m	2.9 A	1.1 kW	ATEX	6064719
PRO V05DA-12 DN 50 4/EAD0X2-M00 11-523-O		8 l/s	9 m	4 l/s	5 m	7.2 A	1.1 kW	ATEX	6064720
PRO V05DA-12 DN 50 4/EAD1X2-T001 1-540-O		8 l/s	9 m	4 l/s	5 m	2.9 A	1.1 kW	ATEX	6064721
PRO V05DA-12 DN 50 6/EAD0X2-M00 15-523-O		11 l/s	13 m	5 l/s	8 m	9.3 A	1.5 kW	ATEX	6064722
PRO V05DA-12 DN 50 6/EAD1X2-T001 5-540-O		11 l/s	13 m	5 l/s	8 m	3.6 A	1.5 kW	ATEX	6064723
PRO V05DA-22 DN 50 2/EAD1X2-T002 5-540-O		14 l/s	16 m	6 l/s	11 m	5.5 A	2.5 kW	ATEX	6064724
PRO V05DA-22 DN 50 4/EAD1X2-T002 5-540-O		13 l/s	19 m	7 l/s	13 m	5.5 A	2.5 kW	ATEX	6064725

Product list: Wilo-Rexa PRO

TYP	Pressure connection	Max. volume flow Q_{\max}	Max. delivery head H_{\max}	Optimum volume flow Q_{opt}	Optimal delivery head H_{opt}	Rated current I_N	Rated power P_2	Explosion protection	Art no.
PRO V05DA-22 DN 50 6/EAD1X2-T003 9-540-O		14 l/s	24 m	11 l/s	16 m	8.5 A	3.9 kW	ATEX	6064726
PRO V05DA-22 DN 50 8/EAD1X2-T003 9-540-O		11 l/s	28 m	11 l/s	18 m	8.5 A	3.9 kW	ATEX	6064727
PRO V05DA-32 DN 50 3/EAD0X2-T006 8-540-O		14 l/s	37 m	9 l/s	23 m	12.8 A	6.75 kW	ATEX	6082575
PRO V05DA-32 DN 50 4/EAD0X2-T010 5-540-O		17 l/s	41 m	10 l/s	27 m	20.5 A	10.5 kW	ATEX	6082576
PRO V05DA-32 DN 50 5/EAD0X2-T010 5-540-O		17 l/s	44 m	10 l/s	30 m	20.5 A	10.5 kW	ATEX	6082577
PRO V05DA-32 DN 50 6/EAD0X2-T010 5-540-O		17 l/s	48 m	12 l/s	31 m	20.5 A	10.5 kW	ATEX	6082578
PRO V05DA-32 DN 50 8/EAD0X2-T010 5-540-O		16 l/s	52 m	14 l/s	31 m	20.5 A	10.5 kW	ATEX	6082579
PRO V06DA-21 DN 65/DN 80 2/EAD0X2-M00 11-523-O		10 l/s	8 m	5 l/s	5 m	7.2 A	1.1 kW	ATEX	6064728
PRO V06DA-21 DN 65/DN 80 2/EAD1X2-T001 1-540-O		10 l/s	8 m	5 l/s	5 m	2.9 A	1.1 kW	ATEX	6064729
PRO V06DA-21 DN 65/DN 80 4/EAD0X2-M00 15-523-O		13 l/s	12 m	6 l/s	8 m	9.3 A	1.5 kW	ATEX	6064730
PRO V06DA-21 DN 65/DN 80 4/EAD1X2-T001 5-540-O		13 l/s	12 m	6 l/s	8 m	3.6 A	1.5 kW	ATEX	6064731
PRO V06DA-21 DN 65/DN 80 6/EAD1X2-T002 5-540-O		17 l/s	16 m	8 l/s	11 m	5.5 A	2.5 kW	ATEX	6064732
PRO V06DA-22 DN 65/DN 80 2/EAD1X2-T003 9-540-O		18 l/s	18 m	10 l/s	13 m	8.5 A	3.9 kW	ATEX	6064733
PRO V06DA-22 DN 65/DN 80 4/EAD1X2-T003 9-540-O		14 l/s	22 m	12 l/s	15 m	8.5 A	3.9 kW	ATEX	6064734
PRO V06DA-62 DN 65/DN 80 2/EAD0X4-M00 11-523-O		13 l/s	5 m	7 l/s	4 m	7.3 A	1.1 kW	ATEX	6064735

Product list: Wilo-Rexa PRO

TYP	Pressure connection	Max. volume flow Q_{\max}	Max. delivery head H_{\max}	Optimum volume flow Q_{opt}	Optimal delivery head H_{opt}	Rated current I_N	Rated power P_2	Explosion protection	Art no.
PRO V06DA-62 DN 65/DN 80 2/EAD1X4-T001 1-540-O		13 l/s	5 m	7 l/s	4 m	3.05 A	1.1 kW	ATEX	6064736
PRO V06DA-62 DN 65/DN 80 3/EAD0X4-M00 15-523-O		15 l/s	7 m	8 l/s	5 m	9.4 A	1.5 kW	ATEX	6064737
PRO V06DA-62 DN 65/DN 80 3/EAD1X4-T001 5-540-O		15 l/s	7 m	8 l/s	5 m	3.7 A	1.5 kW	ATEX	6064738
PRO V06DA-62 DN 65/DN 80 5/EAD0X4-M00 15-523-O		17 l/s	8 m	9 l/s	6 m	9.4 A	1.5 kW	ATEX	6064739
PRO V06DA-62 DN 65/DN 80 5/EAD1X4-T001 5-540-O		17 l/s	8 m	9 l/s	6 m	3.7 A	1.5 kW	ATEX	6064740
PRO V06DA-62 DN 65/DN 80 6/EAD1X4-T002 5-540-O		18 l/s	10 m	10 l/s	7 m	5.8 A	2.5 kW	ATEX	6064741
PRO V06DA-62 DN 65/DN 80 8/EAD1X4-T002 5-540-O		21 l/s	12 m	11 l/s	8 m	5.8 A	2.5 kW	ATEX	6064742
PRO V08DA-24 DN 80/DN 100 3/EAD0X2-T006 8-540-O		31 l/s	23 m	20 l/s	11 m	12.8 A	6.75 kW	ATEX	6082820
PRO V08DA-24 DN 80/DN 100 4/EAD0X2-T010 5-540-O		32 l/s	27 m	21 l/s	15 m	20.5 A	10.5 kW	ATEX	6082821
PRO V08DA-24 DN 80/DN 100 5/EAD0X2-T010 5-540-O		34 l/s	31 m	22 l/s	18 m	20.5 A	10.5 kW	ATEX	6082822
PRO V08DA-24 DN 80/DN 100 6/EAD0X2-T010 5-540-O		35 l/s	34 m	24 l/s	20 m	20.5 A	10.5 kW	ATEX	6082823
PRO V08DA-24 DN 80/DN 100 8/EAD0X2-T010 5-540-O		37 l/s	38 m	26 l/s	23 m	20.5 A	10.5 kW	ATEX	6082824
PRO V08DA-42 DN 80/DN 100 3/EAD0X4-M00 11-523-O		14 l/s	6 m	9 l/s	4 m	7.3 A	1.1 kW	ATEX	6065933
PRO V08DA-42 DN 80/DN 100 3/EAD1X4-T001 1-540-O		14 l/s	6 m	9 l/s	4 m	3.05 A	1.1 kW	ATEX	6065934
PRO V08DA-42 DN 80/DN 100 4/EAD0X4-M00 11-523-O		17 l/s	7 m	11 l/s	4 m	7.3 A	1.1 kW	ATEX	6065935

Product list: Wilo-Rexa PRO

TYP	Pressure connection	Max. volume flow Q_{max}	Max. delivery head H_{max}	Optimum volume flow Q_{opt}	Optimal delivery head H_{opt}	Rated current I_N	Rated power P_2	Explosion protection	Art no.
PRO V08DA-42 DN 80/DN 100 4/EAD1X4-T001 1-540-O		17 l/s	7 m	11 l/s	4 m	3.05 A	1.1 kW	ATEX	6065936
PRO V08DA-42 DN 80/DN 100 6/EAD0X4-M00 15-523-O		19 l/s	9 m	12 l/s	6 m	9.4 A	1.5 kW	ATEX	6065937
PRO V08DA-42 DN 80/DN 100 6/EAD1X4-T001 5-540-O		19 l/s	9 m	12 l/s	6 m	3.7 A	1.5 kW	ATEX	6065938
PRO V08DA-42 DN 80/DN 100 8/EAD1X4-T002 5-540-O		22 l/s	10 m	14 l/s	7 m	5.8 A	2.5 kW	ATEX	6065939
PRO V08DA-52 DN 80/DN 100 4/EAD0X4-T003 5-540-O		26 l/s	11 m	17 l/s	8 m	8.1 A	3.45 kW	ATEX	6065941
PRO V08DA-52 DN 80/DN 100 6/EAD0X4-T003 5-540-O		22 l/s	13 m	19 l/s	9 m	8.1 A	3.45 kW	ATEX	6065942
PRO V08DA-52 DN 80/DN 100 6/EAD0X4-T004 5-540-O		27 l/s	13 m	19 l/s	9 m	9.4 A	4.5 kW	ATEX	6073819
PRO V08DA-52 DN 80/DN 100 8/EAD0X4-T004 5-540-O		23 l/s	15 m	19 l/s	11 m	9.4 A	4.5 kW	ATEX	6073820
PRO V08DA-52 DN 80/DN 100 8/EAD0X4-T006 5-540-O		27 l/s	15 m	19 l/s	11 m	13.5 A	6.5 kW	ATEX	6073801
PRO V10DA-42 DN 100 2/EAD1X4-T001 5-540-O		25 l/s	6 m	13 l/s	4 m	3.7 A	1.5 kW	ATEX	6081910
PRO V10DA-42 DN 100 4/EAD1X4-T002 5-540-O		30 l/s	7 m	15 l/s	5 m	5.8 A	2.5 kW	ATEX	6081911
PRO V10DA-42 DN 100 5/EAD1X4-T002 5-540-O		34 l/s	9 m	17 l/s	6 m	5.8 A	2.5 kW	ATEX	6081912
PRO V10DA-42 DN 100 6/EAD0X4-T003 5-540-O		39 l/s	11 m	19 l/s	8 m	8.1 A	3.45 kW	ATEX	6081913
PRO V10DA-42 DN 100 8/EAD0X4-T003 5-540-O		25 l/s	14 m	22 l/s	9 m	8.1 A	3.45 kW	ATEX	6081914
PRO V10DA-42 DN 100 8/EAD0X4-T004 5-540-O		43 l/s	14 m	22 l/s	9 m	9.4 A	4.5 kW	ATEX	6081915