Equipment and solutions

PVT / PV-R / PV-A

Product technical datasheet

Submersible pumps for wastewater and drainage.



FT-P033 · Rev. 1

Submersible pumps for wastewater and drainage. Available in Vortex (PV-A) and Drainage (PV-R) versions. The PV-A model uses a vortex impeller for handling water with suspended solids, while the PV-R model is optimized for general drainage duties. Suitable for municipal drainage.

Applications

- Drainage of wastewater and sewage.
- Domestic and industrial applications.
- Drainage of flooded areas.
- Pumping of fluids with solids (Vortex).
- Shredding of fibers and suspended solids.

Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

Engineering note	Confirm the installation conditions, power supply and duty point before commissioning.
Complementary equipment	Contact JOVAL for compatible accessories and equipment.
Resources and support	Pump selection guide · JOVAL technical support
Contact	+351 253 490 740 · joval@joval.pt

Technical specifications

Protection

IP 68

Max Temperature

40 °C

Insulation

Class F

Electric cable length

10 m

Impeller

Vortex / Two-channel / Drainage / Grinder

Discharge

1" - 1" 1/4 - 2"

Applications

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- Drainage of flooded areas.
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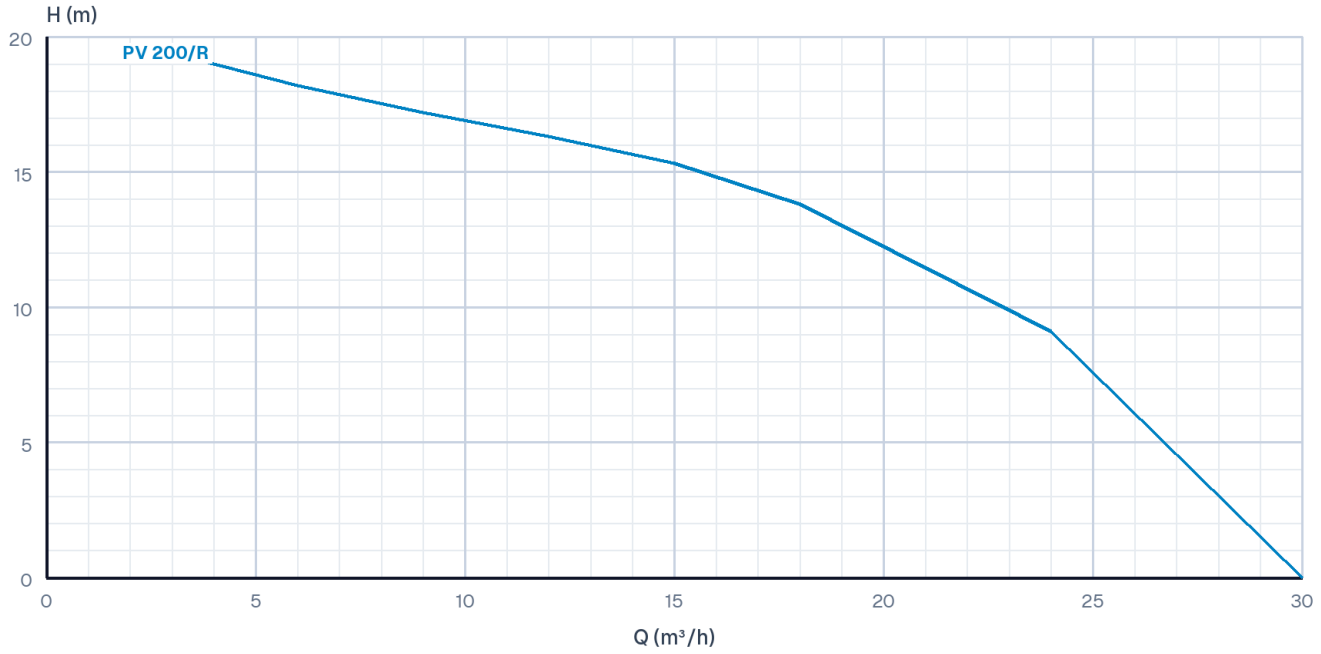
Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

Engineering note Confirm the installation conditions, power supply and duty point before commissioning.

Performance · PV-R

Performance curves



Electrical data

Rated values at 400 V

Model	kW	HP	A (400 V)
PV 200/R	1,5	2	11,7/4,5

Model	kW	HP	A (400 V)

Performance · PV-R

Hydraulic performance

Total head H in metres

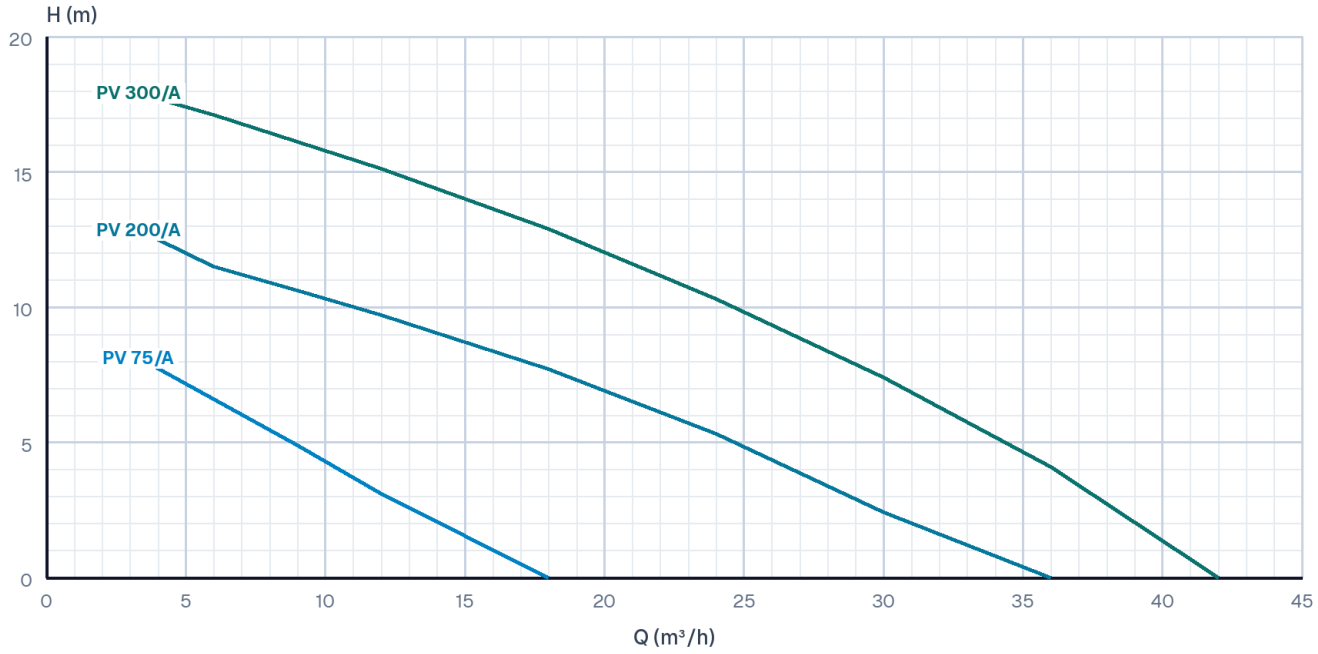
Q · Flow (m³/h)

Model	3	6	9	12	15	18	24	30
PV 200/R	19,4	18,2	17,2	16,3	15,3	13,8	9,1	0

Select the duty point at the intersection of Q and H.

Performance · PV-A

Performance curves



Electrical data

Rated values at 400 V

Model	kW	HP	A (400 V)
PV 75/A	0,58	0,8	3,3/-
PV 200/A	1,5	2	11/4,5

Model	kW	HP	A (400 V)
PV 300/A	2,2	3	-/5,5

Performance · PV-A

Hydraulic performance

Total head H in metres

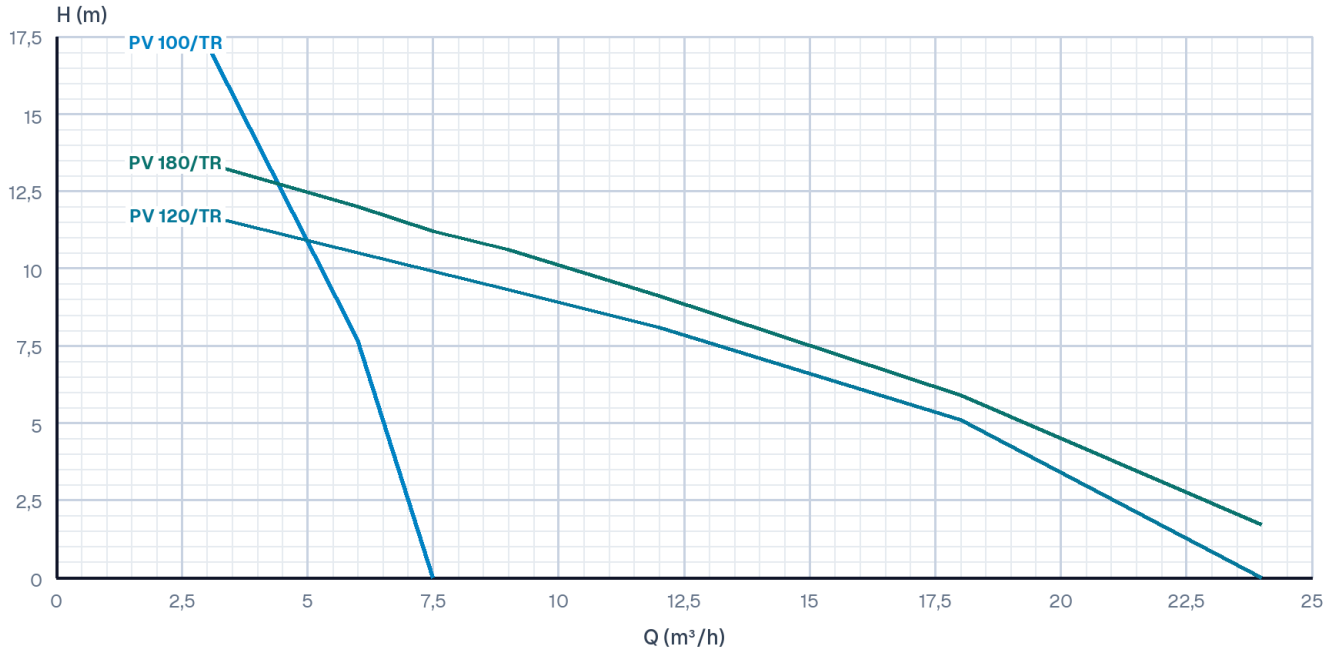
Q · Flow (m³/h)

Model	3	6	9	12	18	24	30	36	42
PV 75/A	8,3	6,6	4,9	3,1	0	—	—	—	—
PV 200/A	13	11,5	10,6	9,7	7,7	5,3	2,4	0	—
PV 300/A	18	17,1	16,1	15,1	12,9	10,3	7,4	4,1	0

Select the duty point at the intersection of Q and H.

Performance · PVT

Performance curves



Electrical data

Rated values at 400 V

Model	kW	HP	A (400 V)
PV 100/TR	0,75	1	5,6/3,2
PV 120/TR	0,9	1,2	8/3,4

Model	kW	HP	A (400 V)
PV 180/TR	1,3	1,8	9,5/4

Performance · PVT

Hydraulic performance

Total head H in metres

Q · Flow (m³/h)

Model	3	6	7,5	9	12	18	24
PV 100/TR	17,3	7,7	0	—	—	—	—
PV 120/TR	11,7	10,5	9,9	9,3	8,1	5,1	0
PV 180/TR	13,4	12	11,2	10,6	9,1	5,9	1,7

Select the duty point at the intersection of Q and H.

Dimensions and models

Dimensions and models

Model	HP	kW	230V (A)	400V (A)	uF	DN
PV 200/R	2	1.5	11.7	4.5	40	2"
PV 75/A	0.8	0.58	3.3	-	14	1" 1/4
PV 200/A	2	1.5	11	4.5	40	2"
PV 300/A	3	2.2	-	5.5	-	2"
PV 100/TR	1	0.75	5.6	3.2	25	1"
PV 120/TR	1.2	0.9	8	3.4	35	2"
PV 180/TR	1.8	1.3	9.5	4	40	2"