METTA

AQUAVERO

STAINLESS STEEL MULTISTAGE SUBMERSIBLE PUMPS

IN ACCORDANCE WITH
EN ISO 9906
& **EN 60335**
STANDARDS



PRODUCT TECHNICAL GUIDE

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1. Range Overview



The METTA AQUAVERO range comprises multistage submersible pumps made of AISI 304 stainless steel, designed for pumping clean water from boreholes, wells and tanks, as well as for network pressure-boosting applications.

Each model in the AQUAVERO family combines high hydraulic performance, robust construction and proven reliability.

The pump and motor body, handle, sleeve and suction strainer are made of AISI 304 stainless steel, while the impellers, diffusers and separators are made of glass-reinforced PPO with a stainless steel wear ring at each stage.

The multistage centrifugal hydraulic assembly delivers high heads, making the AQUAVERO range suitable for both shallow and medium-depth boreholes, as well as for pressure-boosting duties.

Each pump features an asynchronous single-phase 230 V / 50 Hz motor, with Class F insulation and IP68 protection, integrated thermal overload protection and a mechanical seal.

The range covers domestic water supply, agricultural irrigation, industrial water applications, irrigation water distribution and emergency water-supply backup.

1.1 Available Models

No.	Description	Code
1	AQUAVERO JET — 0.75 HP, port G 1", Ø 100 mm	MW10212101
2	AQUAVERO 60 — 1 HP, port G 1¼", Ø 127 mm	MW20312101
3	AQUAVERO PRESS 60 — 1 HP, integrated pressure controller, Ø 127 mm	MW90211101
4	AQUAVERO 80 — 1.6 HP, Ø 127 mm	MW20512101
5	AQUAVERO 160 — 1.2 HP, Ø 127 mm	MW20712101
6	AQUAVERO 170 — 1.6 HP, Ø 127 mm	MW20812101

2. General Technical Specifications

The following specifications apply to the entire AQUAVERO range, unless otherwise stated per model in Section 4.

Pump type	Multistage centrifugal submersible pump
Pump/motor body, handle, sleeve, suction strainer	AISI 304 stainless steel
Impellers, diffusers, separators	Reinforced PPO with stainless steel wear ring per stage
Motor shaft	AISI 420 stainless steel
Motor	Asynchronous, single-phase, 230 V / 50 Hz, with integrated starting capacitor
Rated speed	2850 rpm
Insulation class	F
Protection degree	IP68
Discharge port	G 1" (JET, PRESS 60) / G 1¼" (60, 80, 160, 170)
Outer diameter	Ø 100 mm (JET) / Ø 127 mm (60, 80, 160, 170, PRESS 60)
Maximum sand content	60 gr/m³
Maximum starts per hour	40
Maximum liquid temperature	+35 °C
Cable	20 m, type H07RN-F, standard equipment
Protection features	Thermal protection with automatic reset, mechanical seal, integrated non-return valve
Maximum immersion depth	17 m (with 20 m cable)

2.1 Materials of Construction

All components in contact with the pumped liquid are made of stainless steel or reinforced engineering polymer, ensuring corrosion resistance and a long service life.

Component	Material of construction
Pump body	AISI 304 stainless steel
Motor body	AISI 304 stainless steel
Carrying handle	AISI 304 stainless steel
Outer sleeve	AISI 304 stainless steel
Suction strainer	AISI 304 stainless steel
Impellers	Glass-reinforced PPO
Diffusers	Glass-reinforced PPO
Separators	Glass-reinforced PPO
Wear ring (per stage)	Stainless steel
Motor shaft	AISI 420 stainless steel
Shaft seal	Mechanical seal with carbon–ceramic friction faces in an oil chamber; NBR sealing elastomers
Non-return valve	Integrated (standard equipment)
Power supply cable	H07RN-F, 20 m length (standard equipment)

2.2 Special Features AQUAVERO PRESS 60

- Automatic start and stop according to water demand · restart pressure 2.5 bar
- Dry-run detection system
- Detection of the maximum number of operating cycles
- An expansion vessel with a minimum capacity of 3 litres is recommended on the delivery pipework for proper operation

Note: The AQUAVERO JET, AQUAVERO 60, 80, 160 and 170 models are factory-equipped with a float switch for automatic level control and dry-run protection. The AQUAVERO PRESS 60 does not have a float switch — it uses an electronic pressure controller.

2.3 Dimensions & Weight by Model

The following dimensions and weights refer to the standard configuration of each model (body outer diameter, overall length, discharge port and net weight).

Model	Body Ø (mm)	Overall length L (mm)	Discharge port	Net weight (kg)
AQUAVERO JET	100	585	G 1"	10
AQUAVERO 60	127	529	G 1¼"	13
AQUAVERO PRESS 60	127	610	G 1"	14
AQUAVERO 80	127	649	G 1¼"	15
AQUAVERO 160	127	605	G 1¼"	14
AQUAVERO 170	127	649	G 1¼"	15

3. Standards & Compliance

The performance of the AQUAVERO range is tested in accordance with EN ISO 9906, Annex A1, level 2.
The electrical safety of the motor and appliance is covered by CEI EN 60335-1, 60335-2-41. Electromagnetic compatibility is covered by EN 55014-1/-2 and EN 61000-3-2/-3-3. The AQUAVERO JET, 60, 80, 160 and 170 models comply with the Ecodesign Directive 2009/125/EC (ErP), MEI ≥ 0.4; this requirement does not apply to the AQUAVERO PRESS 60. The pumps bear CE marking in accordance with the applicable European Directives — Low Voltage 2014/35/EU, Electromagnetic Compatibility (EMC) 2014/30/EU and RoHS 2011/65/EU. Production is carried out under a quality management system certified to ISO 9001.

Performance standard	EN ISO 9906, Annex A1, level 2
Electrical safety standards	EN 60335-1 · CEI EN 60335-2-41
CE marking / Directives	Low Voltage Directive 2014/35/EU · EMC Directive 2014/30/EU · RoHS Directive 2011/65/EU
Quality management system	ISO 9001 (manufacturer)
EMC standards	EN 55014-1 · EN 55014-2 · EN 61000-3-2 · EN 61000-3-3
Ecodesign (ErP)	Directive 2009/125/EC · MEI ≥ 0.4 (JET, 60, 80, 160, 170; not applicable to PRESS 60)

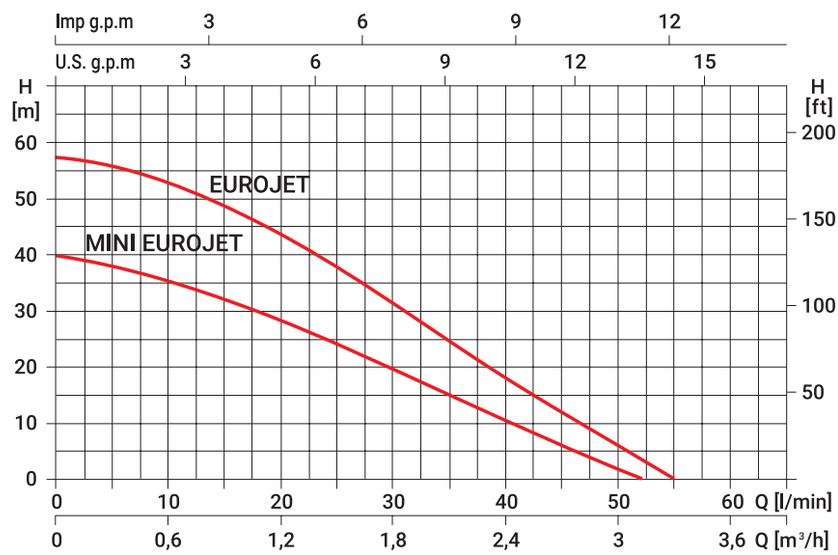
4. Models & Performance Curves

The following tables present the main electrical characteristics and the head–flow (H–Q) curve of each model, at 2850 rpm, for clean water, in accordance with the tolerances of EN ISO 9906 Annex A1 level 2.

AQUAVERO JET

METTA Code	MW10212101
Motor power	0.75 HP / 0.55 kW
Power supply	1~230 V
Rated current (230 V)	4.1 A
Discharge port	G 1"
Outer diameter	Ø 100 mm
Rotation speed	2850 rpm





H–Q performance curve (2850 rpm, clean water)

Q (m³/h)	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.3
Q (l/min)	0	10	15	20	25	30	35	40	45	55
H (m)	57	52.4	48.8	44.2	38.8	32.8	26.6	20.2	13.9	0

Note: the value at Q = 0 corresponds to the shut-off head.

AQUAVERO 60

METTA Code	MW20312101
Motor power	1 HP / 0.75 kW
Power supply	1~230 V
Rated current (230 V)	6 A
Discharge port	G 1¼"
Outer diameter	Ø 127 mm
Rotation speed	2850 rpm

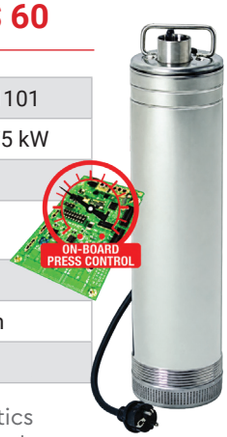
H–Q performance curve (2850 rpm, clean water)

Q (m³/h)	0	1.2	1.6	2.4	3.6	4.2	4.8	5.4	5.7
Q (l/min)	0	20	30	40	60	70	80	90	95
H (m)	57	53.1	49.4	45	33.6	26.2	17.5	7.2	0

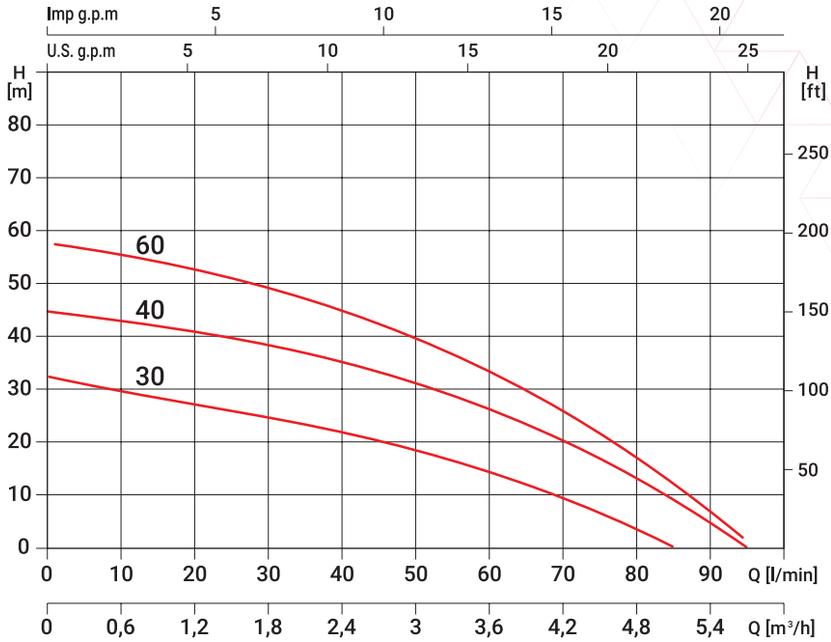
Note: the value at Q = 0 corresponds to the shut-off head.

AQUAVERO PRESS 60

METTA Code	MW90211101
Motor power	1 HP / 0.75 kW
Power supply	1~230 V
Rated current (230 V)	6 A
Discharge port	G 1"
Outer diameter	Ø 127 mm
Rotation speed	2850 rpm



Same hydraulic characteristics as AQUAVERO 60 · integrated electronic pressure controller



H–Q performance curve (2850 rpm, clean water)

Q (m³/h)	0	1.2	1.6	2.4	3.6	4.2	4.8	5.4	5.7
Q (l/min)	0	20	30	40	60	70	80	90	95
H (m)	57	53.1	49.4	45	33.6	26.2	17.5	7.2	0

Note: the value at Q = 0 corresponds to the shut-off head.

AQUAVERO 80

METTA Code	MW20512101
Motor power	1.6 HP / 1.2 kW
Power supply	1~230 V
Rated current (230 V)	8.5 A
Discharge port	G 1¼"
Outer diameter	Ø 127 mm
Rotation speed	2850 rpm

H–Q performance curve (2850 rpm, clean water)

Q (m³/h)	0	1.2	1.6	2.4	3.6	4.2	4.8	5.4	5.7
Q (l/min)	0	20	30	40	60	70	80	90	95
H (m)	82	74.6	68.6	61.9	45.4	35.4	24	11.1	0

Note: the value at Q = 0 corresponds to the shut-off head.

AQUAVERO 160

METTA Code	MW20712101
Motor power	1.2 HP / 0.9 kW
Power supply	1~230 V
Rated current (230 V)	7 A
Discharge port	G 1¼"
Outer diameter	Ø 127 mm
Rotation speed	2850 rpm

H–Q performance curve (2850 rpm, clean water)

Q (m³/h)	0	1.2	2.4	3	3.6	4.8	6	7.2	8.1
Q (l/min)	0	20	40	50	60	80	100	120	135
H (m)	55	50.5	46	43.1	39.7	31.9	22.8	12.6	0

Note: the value at Q = 0 corresponds to the shut-off head.

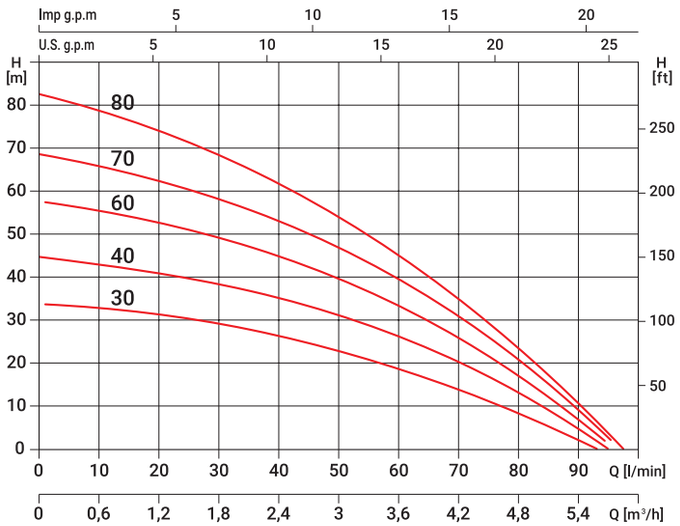
AQUAVERO 170

METTA Code	MW20812101
Motor power	1.6 HP / 1.2 kW
Power supply	1~230 V
Rated current (230 V)	8.5 A
Discharge port	G 1¼"
Outer diameter	Ø 127 mm
Rotation speed	2850 rpm

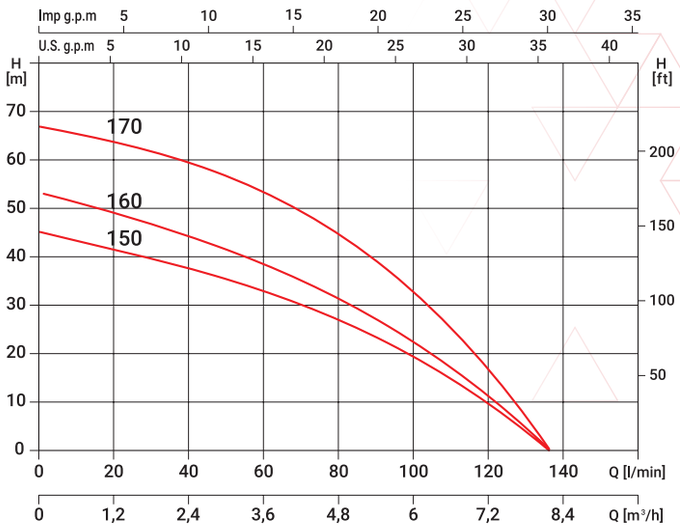
H–Q performance curve (2850 rpm, clean water)

Q (m³/h)	0	1.2	2.4	3	3.6	4.8	6	7.2	8.1
Q (l/min)	0	20	40	50	60	80	100	120	135
H (m)	65	63	57.7	54.5	51	42.5	32	18.8	0

Note: the value at Q = 0 corresponds to the shut-off head.



Family of H–Q curves — head classes 60 / 80 m



Family of H–Q curves — head classes 160 / 170 m

5. Range Advantages

- AISI 304 stainless steel construction, for corrosion resistance and a long service life
- High hydraulic performance across a wide range of head and flow, reducing energy consumption
- Ability to handle sand up to 60 gr/m³ for reliable operation in real borehole and well conditions
- IP68 motor with Class F insulation and integrated thermal overload protection
- Operation even with minimal water level, thanks to the motor cooled and lubricated in non-toxic oil
- Suitable for continuous operation
- Easy installation and transport thanks to the integrated handle and compact design
- Wide range of models covering domestic, agricultural, industrial and pressure-boosting needs
- AQUAVERO PRESS version with integrated electronic pressure controller and non-return valve
- Float switch (standard on JET, 60, 80, 160, 170) for automatic level control and dry-run protection

6. Applications

- Domestic water supply from wells and boreholes
- Agricultural irrigation
- Industrial applications
- Network pressure boosting
- Rainwater collection and reuse
- Water transfer and draining of flooded areas or tanks
- Backup / emergency water supply

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