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# AQUAJET

## AUTOMATIC SELF-PRIMING BOOSTER SETS



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## GENERAL DATA

### Applications

Automatic water lifting sets, particularly suitable for domestic use, small installations for civil, industrial and agricultural use, washing systems and hobbies.

These are characterised by the use of JET self-priming electropumps which can operate even when there is air, gas and small quantities of sand in the water.

The set is composed of a diaphragm tank with 20 litres capacity, pressure switch for automatic operation, pressure gauge, JET electropump complete with power cable and plug, kit for coupling the pump and the tank, all assembled and ready for installation.

### Constructional features of the pump

Die-cast aluminium pump body and motor support.

Technopolymer impeller, diffuser, Venturi tube and sand guard.

Stainless steel pressure discs.

Carbon/ceramic mechanical seal.

### Constructional features of the motor

Induction motor, closed and cooled with external ventilation.

Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.

Built-in thermal and current overload protection and a capacitor permanently in circuit.

Manufactured according to CEI 2-3 and CEI 61-69 standards (EN 60335-2-41).

Motor protection: IP 44

Terminal box protection: IP 55

Insulation class: F

Standard voltage: single-phase 220-240 V/50 Hz

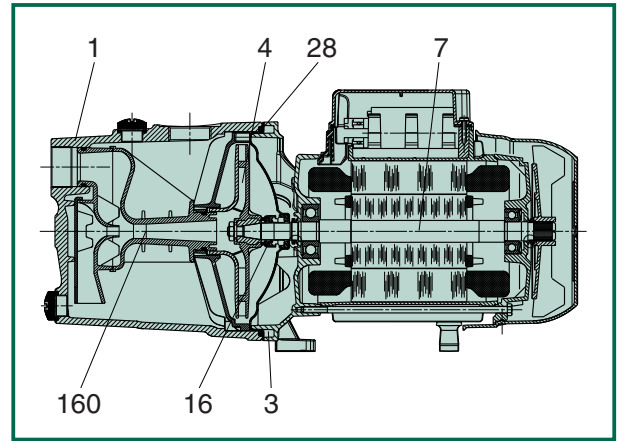
### Constructional features of the tank

Horizontal type, capacity 20 litres, with butyl diaphragm, complete with feet on the bottom and brackets for fixing the pump on top.

# TECHNICAL DATA

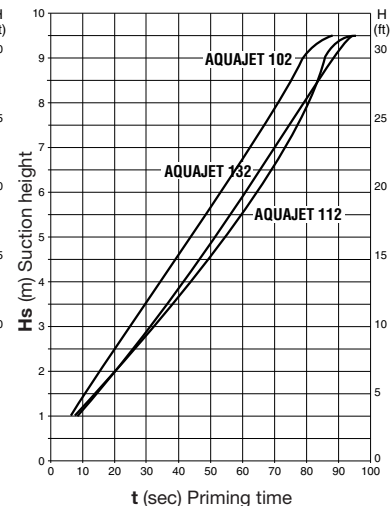
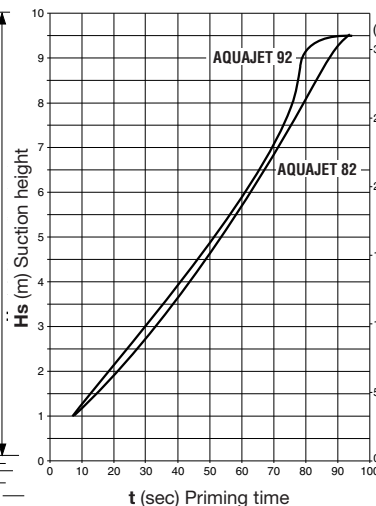
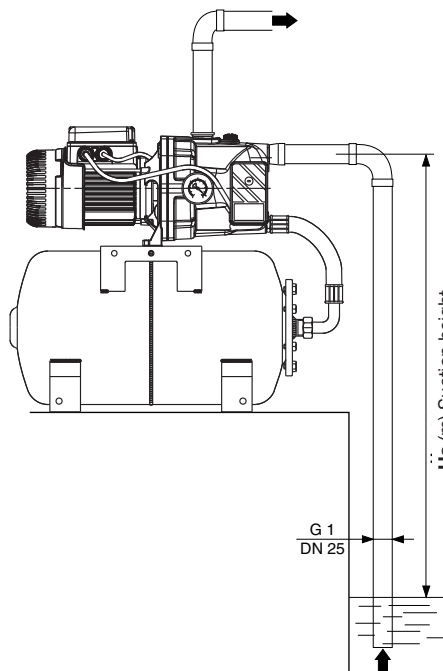
N.	PARTS*	MATERIALS
1	PUMP BODY	CAST IRON 200 UNI ISO 185
3	SUPPORT	DIE-CAST ALUMINIUM
4	IMPELLER	TECHNOPOLYMER A
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12 CrS13 - UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
28	OR GASKET	NBR RUBBER
160	NOZZLE-VENTURI DIFFUSER ASSEMBLY	TECHNOPOLYMER A

\* In contact with the liquid.



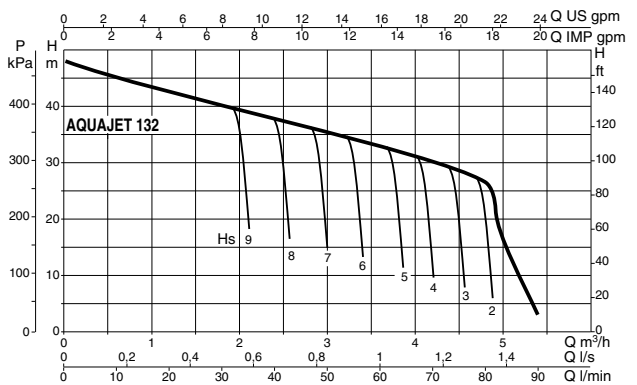
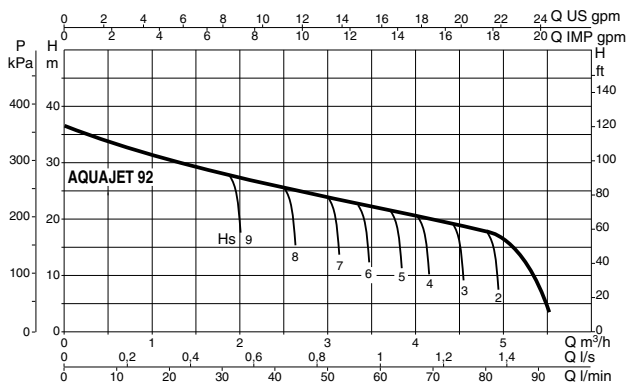
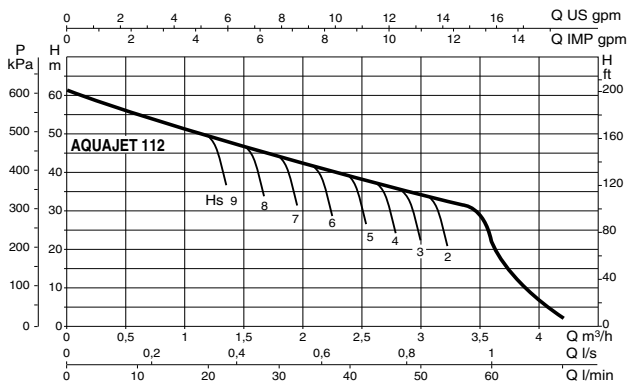
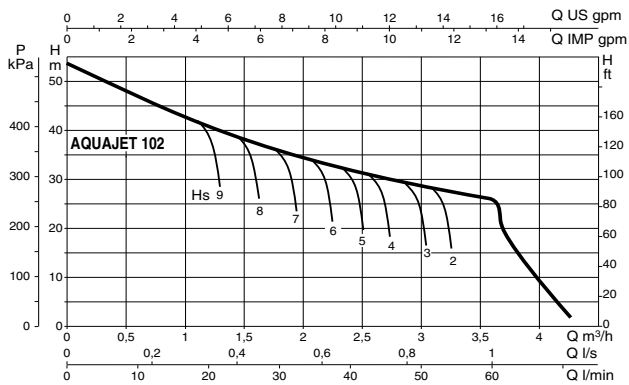
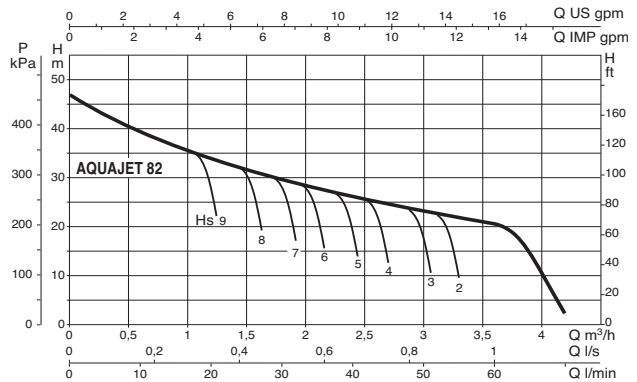
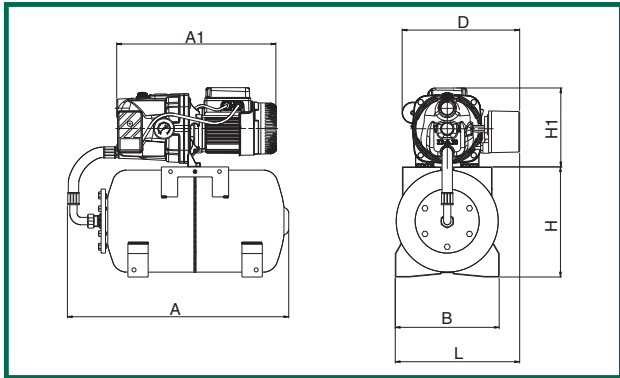
- Operating range: up to 5,4 m<sup>3</sup>/h with head up to 61 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +35°C for domestic use (EN 60335-2-41)  
from 0°C to +40°C for other uses.
- Maximum ambient temperature: +40°C
- Maximum operating pressure: 8 bar (800 kPa)
- Installation: fixed in a horizontal position

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The performance curves are based on the kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 Kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.  
Liquid temperature range: from 0 °C to +35°C  
Maximum ambient temperature: +40°C

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MODEL	A	A1	B	D	H	H1	L	PACKING DIMENSIONS			VOLUME m <sup>3</sup>	WEIGHT Kg
								L/A	L/B	H		
AQUAJET 82 M	543	390	255	288	270	239	305	566	360	510	0,104	18,2
AQUAJET 102 M	543	409	255	293	270	239	305	566	360	510	0,104	20,0
AQUAJET 112 M	543	409	255	293	270	239	305	566	360	510	0,104	21,0
AQUAJET 92 M	543	390	255	288	270	239	305	566	360	510	0,104	19,2
AQUAJET 132 M	543	409	255	293	270	239	305	566	360	510	0,104	21,0

MODEL	ELECTRICAL DATA						HYDRAULIC DATA (n = 2850 1/min)													
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR		Q												
			kW	HP		μF	Vc	m <sup>3</sup> /h	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8			
AQUAJET 82 M	1x220-240 V ~	0,85	0,6	0,8	3,8	12,5	450	H (m)	47	40	34	30	26,2	23,5	20,3					
AQUAJET 102 M	1x220-240 V ~	1,13	0,75	1	5,1	16	450		53,8	47	41	36,3	32,4	28,8	25,8					
AQUAJET 112 M	1x220-240 V ~	1,4	1	1,36	6,2	25	450		61	54	47,8	42,8	38,8	34,8	22					
AQUAJET 92 M	1x220-240 V ~	0,94	0,75	1	4,2	14	450		36,2	33,5	31	28,4	26	24	21,8	19,6	17,5			
AQUAJET 132 M	1x220-240 V ~	1,49	1	1,36	6,6	25	450		48	45,6	42,8	40	37,6	35	32,5	30	27			