

ACTIVE DRIVER

INVERTER



TECHNICAL DATA

Model: M/M model; M/T model; T/T model.

Max. motor phase current:

M/M model 14A; M/T model 10,5A; T/T model 13,5A.

Standard input voltage: M/M and M/T model 1x230V; M/M dual voltage 1x115V and 1x230V; T/T model 3x400V.

Electric pump voltage: M/M model 1x230V; M/M dual voltage model 1x115V and 1x230V; M/T model 3x230V; T/T model 3x400V.

Frequency: 50 Hz - 60 Hz.

Installation: vertical or horizontal. For T/T model only Vertical

Max. liquid temperature: 50°C.

Max. operational temperature: 60°C.

Max. pressure: 16 bar.

Aspiration diameter (DNA): 1 1/4" male.

Discharge diameter (DNM): 1 1/2" female.

Protection rating: IP55

Active Driver can also be used in parallel, Taht is a device for each electric pump (except model M/M 1.1)

APPLICATIONS

The units with Active Driver were designed and manufactured to meet the needs for **constant pressure** required by modern plumbing systems. Constant pressure regulation is applicable to many sectors: Water supply for irrigation, industry, hotels, housing construction, thermal baths. The basic concept that guided our Engineers in the development of these units was to manufacture a system that is **simple, flexible and reliable**.

ADVANTAGES

Constant pressure - Quiet operation - Economical - Reduced water consumption - Smaller footprint
(Expansion tanks not required) Less maintenance - dry-running protection

ACTIVE DRIVER NOTES

The Active Driver module is a complete system, which includes all fittings for connection to the plumbing plant, a pressure sensor, a flow sensor and an inverter. Active Driver, installed on the discharge side of **each electric pump** adjusts the rotation speed of its associated pump, to keep the water **pressure constant** even though the flow rate changes. The water flowing through the Active Driver fittings also aids in **cooling the heat** generated by the electronics.

OPERATION

Upon the first drop in pressure in the plant, caused by water being drawn, the pump is kept running to meet the required flow rate.

The pump pressure may be adjusted by the user using the + and - buttons on Active Driver (usually all of the pumps are set at the same pressure level).

The pumps stop automatically when there is:

Pump overload - dry-running - low voltage - Maximum pressure exceeded (adjustable) - Active Driver electronics overheating.

ACTIVE DRIVER FUNCTIONS DISPLAYED

Pump operational frequency (Hz) - Real-time pressure (bar) - Amperes absorbed by the pump - Alarms.

ACTIVE DRIVER EXTERNAL CONNECTIONS (models M/T 2.2 - T/T 3.0 - T/T 5.5 only)

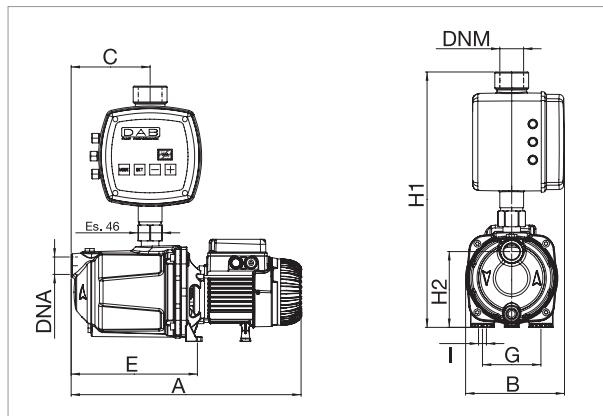
Inputs: pump disabling, pressure switch, float against dry operation, second pressure setpoint.

Outputs: two terminals with no potential for signaling alarms, pump stop, pump running.

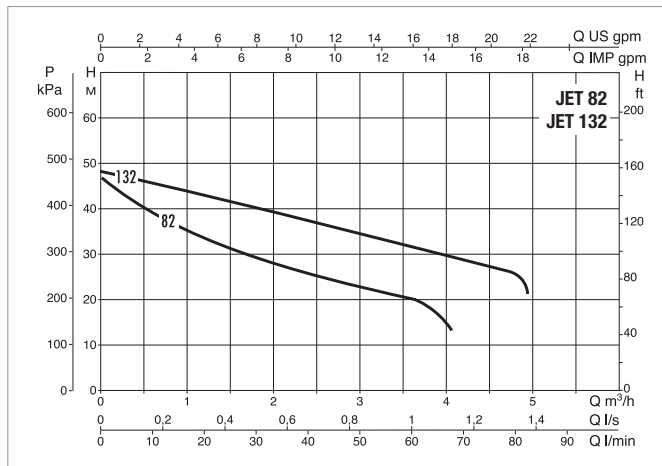
MODEL	MAX CURRENT MOTOR A	MAX POWER MOTOR KW	POWER SUPPLY 50 Hz	POWER SUPPLY ELECTRIC PUMP	DNA GAS	DNM GAS	INTERFACE FOR USE IN PARALLEL	USE WITH PUMP TYPE	ADJUSTMENT PRESSURE BAR
ACTIVE DRIVER M/M 1.1	8.5	1.1	SINGLE PHASE 1x230	SINGLE PHASE 1x230	1 1/4" M	1 1/2" F	NO	Surface pumps, submerged 4" and 5" with single phase motor with current draw up to 8.5 A	1-6
ACTIVE DRIVER M/M 1.5	11	0.55	SINGLE PHASE 1x115	SINGLE PHASE 1x115	1 1/4" M	1 1/2" F	SI	Surface pumps, submerged 4" and 5" with single phase motor with current draw up to 11 A	1-9
		1.5	1x230	1x230					
ACTIVE DRIVER M/M 1.8	14	1.0	SINGLE PHASE 1x115	SINGLE PHASE 1x115	1 1/4" M	1 1/2" F	SI	Surface pumps, submerged 4" and 5" with single phase motor with current draw up to 14 A	1-9
		1.8	1x230	1x230					
ACTIVE DRIVER M/T 1.0	4.7	1.0	SINGLE PHASE 1x230	Three-phase 3x230	1 1/4" M	1 1/2" F	SI	Surface pumps, submerged 4" and 5" with 230 V three-phase motor with current draw up to 4.7 A	1-5
ACTIVE DRIVER M/T 2.2	10.5	2.2	SINGLE PHASE 1x230	Three-phase 3x230	1 1/4" M	1 1/2" F	SI	Surface pumps, submerged 4" and 5" with 230 V three-phase motor with current draw up to 10.5 A	1-16
ACTIVE DRIVER T/T 3.0	7.5	3.0	Three-phase 3x400	Three-phase 3x400	1 1/4" M	1 1/2" F	SI	Surface pumps, submerged 4" and 5" with 400 V three-phase motor with current draw up to 7.5 A	1-16
ACTIVE DRIVER T/T 5.5	13.3	5.5	Three-phase 3x400	Three-phase 3x400	1 1/4" M	1 1/2" F	SI	Surface pumps, submerged 4" and 5" with 400 V three-phase motor with current draw up to 13.3 A	1-16

AD JET - AUTOMATIC INVERTER DRIVEN PRESSURISATION SYSTEM FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +40°C



The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

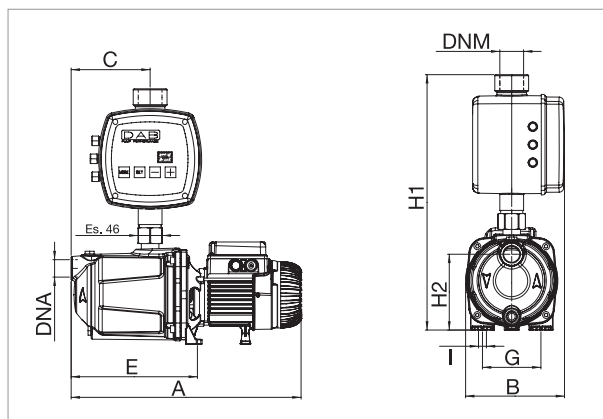


MODEL	POWER SUPPLY 50 Hz	P1 MAX kW	ELECTRICAL DATA				
			P2 NOMINAL		In A	CAPACITOR	
			kW	HP		µF	Vc
AD1.0 M/M JET 132M	1x220-240 V ~	1.49	1.0	1.36	6.6	25	450

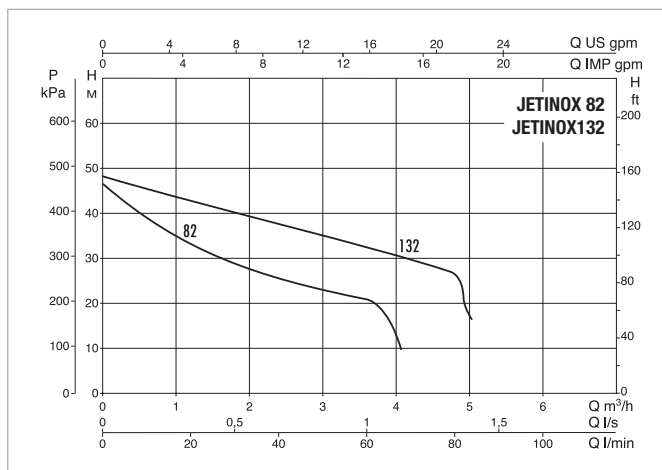
MODEL	A	B	C	E	G	I	H1	H2	DNA GAS	DNM GAS	PACK VOLUME (mc)	GROSS WEIGHT Kg
AD1.0 M/M JET 132M	414	185	108	192	111	9	485	144	1"	1 1/2"	0.54	18.8

AD JETINOX - AUTOMATIC INVERTER DRIVEN PRESSURISATION SYSTEM FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +40°C



The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

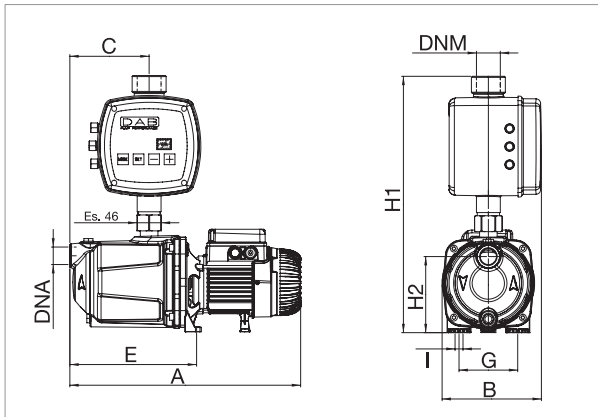


MODEL	POWER SUPPLY 50 Hz	P1 MAX kW	ELECTRICAL DATA				
			P2 NOMINAL		In A	CAPACITOR	
			kW	HP		µF	Vc
AD1.0 M/M JETINOX 132M	1x220-240 V ~	1.49	1	1.36	6.6	25	450

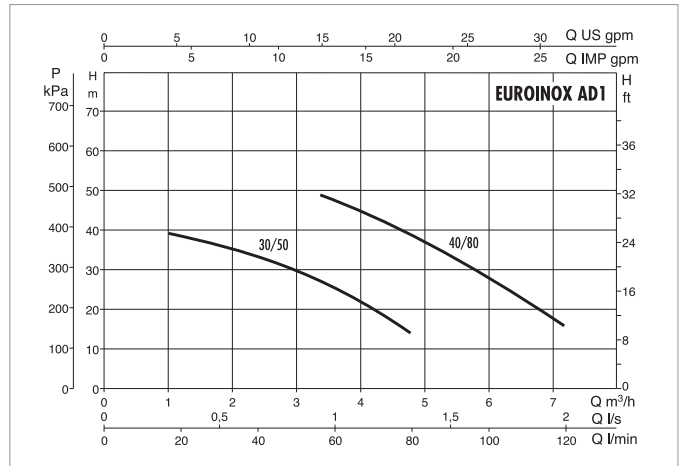
MODEL	A	B	C	E	G	I	H1	H2	DNA GAS	DNM GAS	PACK VOLUME (mc)	GROSS WEIGHT Kg
AD1.0 M/M JETINOX 132M	424	187	122	207	111	9	502	144	1"	1 1/2"	0.54	16.2

AD EUROINOX - AUTOMATIC INVERTER DRIVEN PRESSURISATION SYSTEM FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +40°C



The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.



MODEL	ELECTRICAL DATA						
	POWER SUPPLY 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR	
			kW	HP		µF	Vc
AD1.0 M/M EUROINOX 30/50M	1x220-240 V ~	0.88	0.55	0.75	3.9	12.5	450
AD1.0 M/M EUROINOX 40/80M	1x220-240 V ~	1.20	0.8	1.1	5.3	25	450

MODEL	A	B	C	E	G	I	H1	H2	DNA GAS	DNM GAS	PACK VOLUME (mc)	GROSS WEIGHT Kg
AD1.0 M/M EUROINOX 30/50M	378	187	95	235	111	9	485	144	1"	1" ¹ / ₂	0.54	16.8
AD1.0 M/M EUROINOX 40/80M	452	187	150	235	111	9	485	144	1"	1" ¹ / ₂	0.54	21.6