

ACTIVE DRIVER - VFD (VARIABLE FREQUENCY DRIVE)



The Active Driver variable speed integrated control system is capable of maintaining constant pump pressure with a variable flow rate. The feature pack Active Driver ensures the pump output is matched to the demand by using less energy under low flows, resulting in greater comfort and reduced running costs.

FEATURES:

Efficient

- Quiet in operation
- Ensures no pressure fluctuations for increased comfort
- Variable speed feature helps to reduce energy costs

Versatile

- Capable of controlling a range of pumps
- Can increase the lifespan of the pump

User friendly interface

- Customise pump settings and display operating status

Protective functions

- Over pressure protection
- Overheating protection
- Protection against abnormal power supply voltages
- Malfunction protection system
- Dry run protection to stop pump damage if no water is present
- Automatic restarts operation when normal conditions return

Easy installation

- Compact in size and easy to install

OPERATING CONDITIONS:

System pressure

Max. 16 bar (1600kPa)

Liquid temperature

0°C to +50°C

Maximum ambient temperature

+60°C



CONSTRUCTION:

Materials

- Composite body

Voltage

Controller Model	Voltage (V)	Pump Supply Voltage (V)
ACTIVE DRIVER M/M 1.1	1 x 240	1 x 240
ACTIVE DRIVER M/M 1.5	1 x 240	1 x 240
ACTIVE DRIVER M/T 2.2	1 x 240	3 x 240
ACTIVE DRIVER T/T 3.0	3 x 415	3 x 415
ACTIVE DRIVER T/T 5.5	3 x 415	3 x 415

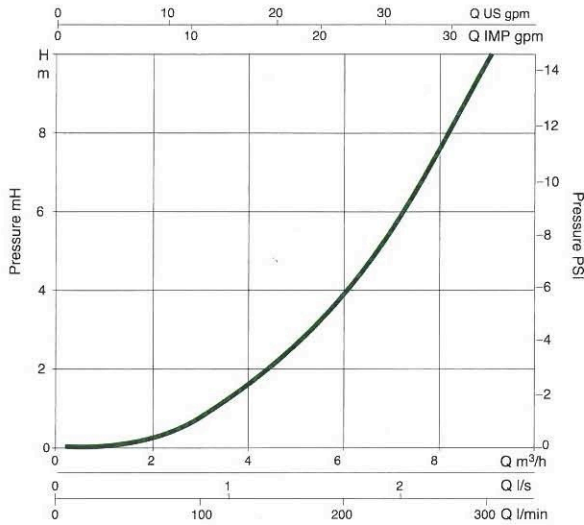
Protection level

IP44 (IP55 terminal board protection)

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PRESSURE LOSS:



TECHNICAL DATA:

Controller Model	P2 (kW)	Max. Motor Current (A)	Connections		Weight (kg)	Dimensions (mm)		
			Inlet	Outlet		L	H	D
ACTIVE DRIVER M/M 1.1	1.1	8.5	1 ¼" M	1 ½" F	5.3	220	280	180
ACTIVE DRIVER M/M 1.5	1.5	11.0	1 ¼" M	1 ½" F	5.3	220	280	180
ACTIVE DRIVER M/T 2.2	2.2	10.5	1 ¼" M	1 ½" F	5.3	220	280	180
ACTIVE DRIVER T/T 3.0	3.0	7.5	1 ¼" M	1 ½" F	5.3	220	280	180
ACTIVE DRIVER T/T 5.5	5.5	13.3	1 ¼" M	1 ½" F	5.3	220	280	180

ENERGY SAVINGS:

Test: 1 kW pump and head set at 30 mH2O					
Flow (l/min)	Statistic flow use	Energy used with traditional system (kW)	Energy used with PWM system (kW)	Power difference (kW)	Energy saved in 1 year (8760 hours) (kW/h)
5	20%	0.855	0.122	0.733	1
10	40%	0.916	0.366	0.549	1
20	20%	0.977	0.488	0.488	856
40	9%	1.038	0.733	0.305	241
70	6%	1.184	1.036	0.148	78
100	5%	1.221	1.221	0.000	0
Total Yearly Saving (kW/h)					4383

Note: The AD Euroinox is supplied with a separate 2 litre pressure tank and 3 way tee to be fitted into the discharge pipe.