

# SPHERE UNITS, BLOCK UNIT AND DOMINOSYSTEM

## SMALL, PRESSURE VESSELS FULLY AUTOMATIC FOR WATER SUPPLY BOOSTING APPLICATIONS

These units consist of a single-phase electric pump, diaphragm tank, pressure switch, pressure gauge and various connectors.

Fully assembled and ready to be connected to the building's water systems.

- ❑ **CHOICE OF UNITS WITH PERIPHERAL (PM), SELF-PRIMING (BGM), HORIZONTAL SINGLE- (CEAM), DOUBLE- (CAM) AND MULTIPLE-IMPELLER (HM) CENTRIFUGAL PUMPS.**
- ❑ **AVAILABILITY OF THE "DOMINO" ELECTROMECHANICAL DEVICE FOR THE CONTROL AND COMMAND OF SINGLE-PHASE PUMPS. SEE RELATED SECTION IN THIS CATALOGUE.**

## APPLICATIONS

- Pressure boosting in water systems for domestic use, lawn sprinkling and washing.
- Handling of non-aggressive liquids in industrial plants.

## SPECIFICATIONS

- **Delivery: up to 110 l/min (6.6 m<sup>3</sup>/h).**
- **Head: up to 52 m (5.2 bar).**
- 220 V, 50 Hz single-phase power supply.
- From 0,30 to 1.10 kW installed power.
- For performance ratings (delivery – head) of these single-pump pressure boosting units, see information relating to the electric pump in this catalogue.



## AVAILABLE VERSIONS

- **Sphere unit, electric pump** with a 24 litre enamelled steel **ball tank** (AISI 304 stainless steel model available on request).
- **Block, electric pump** with a 25 litre enamelled steel **cylindrical tank**.



## TECHNICAL SPECIFICATIONS

UNIT TYPE	RATED POWER		INPUT CURRENT A	PRESSURE SWITCH SETTING bar	CAPACITY l/min	APPROX. OVERALL DIMENSIONS in mm			WEIGHT kg
	kW	HP				MINOR BASE	MAJOR BASE	HEIGHT	
Sphere group PM 16	0,30	0,40	2,4	1,4 - 2,8	15 - 28	390	470	635	15
Sphere group PM 30	0,50	0,70	4,0	2,0 - 3,5	20 - 38	390	470	635	17
Sphere group CEAM 70/5	0,55	0,75	4,2	1,8 - 2,8	40 - 80	390	580	720	17
Sphere group CEAM 80/5	0,75	1,00	4,8	1,8 - 2,8	60 - 110	390	580	720	11
Sphere group CAM 70/33	0,75	1,00	5,0	2,4 - 3,8	40 - 80	390	470	720	21
Sphere group CAM 70/45	1,10	1,50	8,1	3,6 - 5,2	40 - 80	390	470	720	25
* Sphere group BGM 5	0,55	0,75	4,0	2,5 - 3,5	18 - 56	390	580	720	17
* Sphere group BGM 7	0,75	1,00	4,8	2,8 - 4,1	12 - 54	390	580	720	18
* Sphere group BGM 9	0,90	1,20	5,6	3,2 - 4,2	22 - 52	390	580	720	20
* Sphere group BGM 11	1,10	1,50	6,8	3,4 - 4,7	20 - 64	390	580	720	23
Block CEAM 70/5	0,55	0,75	4,2	1,8 - 2,8	40 - 80	290	660	610	21
Block CEAM 80/5	0,75	1,00	4,8	1,8 - 2,8	60 - 100	290	660	610	22
Block CAM 70/33	0,75	1,00	5,0	2,4 - 3,8	40 - 80	290	660	610	25
* Block BGM 5	0,55	0,75	4,0	2,5 - 3,5	18 - 56	290	660	610	21
* Block BGM 11	1,10	1,50	6,8	3,4 - 4,7	20 - 64	290	660	610	26
Sphere group 2HM4	0,45	0,6	2,9	2,0 - 3,3	10 - 50	390	470	720	14
Sphere group 2HM5	0,55	0,75	3,6	3,2 - 4,4	10 - 50	390	470	720	15
Sphere group 2HM7	0,75	1	5,0	3,6 - 5,6	10 - 50	390	470	720	15
Sphere group 4HM5	0,55	0,75	3,8	1,8 - 3,0	40 - 95	390	470	720	15
Sphere group 4HM7	0,75	1	5,0	2,4 - 4,0	40 - 95	390	470	720	17
Sphere group 4HM9	0,9	1,2	5,7	2,8 - 5,0	40 - 100	390	470	720	17

\* Specially suited for suction from buried tanks or wells.

The suction port is threaded Rp 1" / 4 (Rp 1" for PM 16 and PM 30).

The delivery port is threaded Rp 1" for all pumps.

NB: after the unit has been installed, the diaphragm tank air precharge must be set to a value 0.2 bar lower than the minimum pressure switch set-point.