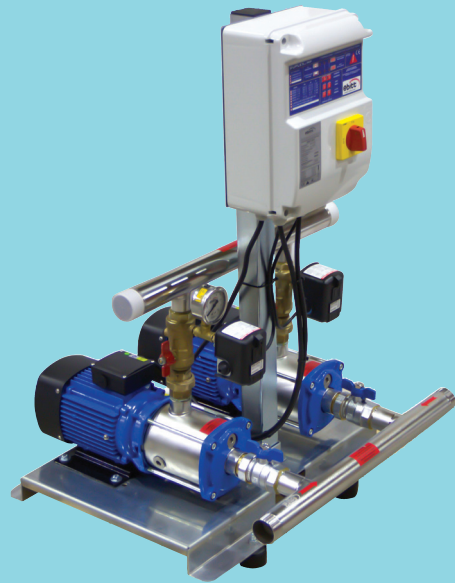


DCM2 / DC2 / DC3

Horizontal Automatic Water Boosters



CONSTRUCTION

Pressure boosting sets with automatic operation, consisting of 2 pumps on a common baseplate, with suction and delivery manifolds, isolation and non-return valves, pressure switches, pressure gauge and control panel. Suction and delivery manifolds are in AISI304 stainless steel. The unit includes one pressure gauge and two adjustable differential pressure switch.

OPERATION

According to the pressure decrease in the system, the control panel with electronic card, manages the pump operation, the change over of pump starting sequence and it stops the system when there is no water in the tank. Pumps starting in a cascade sequence, with a signal from the pressure switches. New electrical control panels for pressurization units, all with electronic card with microprocessor carries out continuous checks during all the various work phases of the pumps and incorporates all necessary functions, thus reducing electrical and electronic components inside the panel.

In particular;

- Pumps starting in a cascade sequence according to water demand
- Changeover of pump starting sequence
- Pumps stop when there is no water in the storage tank

Maximum clarity for all signals

The status of the units can easily be identified on the front of the electronic card with the following signals;

- Power on led
- Failure led (1 for each pump)
- No water led
- Pump running led (1 for each pump)

Maximum simplicity of control.

The front of electronic card features the following signals and controls;

- AUT-STOP-MAN button (1 for each pump)
- RESET push-button

APPLICATIONS

- Water supply
- Domestic water pressure boosting
- Sprinkling
- Irrigation and spraying
- Pumping water from wells and out of low-lying tanks.
- Industrial and manufacturing applications

TECHNICAL DATA

- Mains connections 1~230V/50 Hz/3~400V/50 Hz
- Inlet pressure max 4 bar
- Fluid temperature +5 °C to +40 °C
- Operating pressure max 10 bar
- Pressure switch setting range 1-8 bar
- Protection class IP54

MOTORS

2-pole induction motors, 50 Hz, n=2900 rpm
 Single-phase 230V ± %10, with thermal protector
 Three-phase 230/400V ± %10
 Insulation class F
 Protection IP54
 Constructed in accordance with IEC 60034
 Other voltages and frequencies on request.

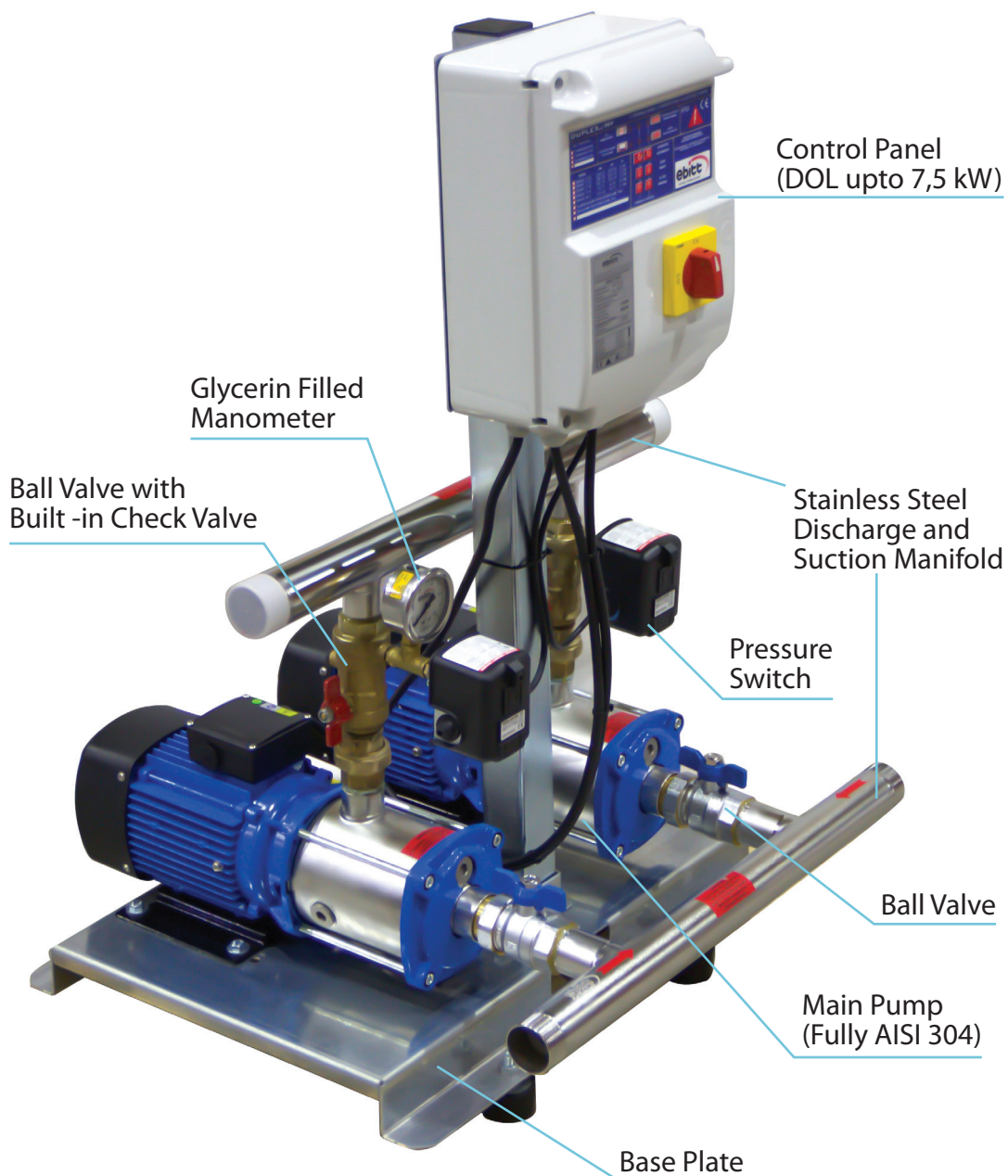
BENEFITS

- Reliable
- High efficient
- Low cost
- Service friendly
- Easy to install
- Low noise level
- Plug and run design

DCM2 / DC2 / DC3

Horizontal Automatic Water Boosters

Booster Set with XHC Series



**Automatic Water Boosters Fixed Speed Pump Units
(1 Main Pump +1 Stand By Application)**

DCM2 / DC2 / DC3

Horizontal Automatic Water Boosters

Performance Table

Model	Recommended Expansion Tank (lt)	Phase	Voltage (V)	Motor Power		Flow (m ³ /h)	Operating Pressure (mWC)	Diameter of Manifold	
				kW	HP			Suction	Discharge
DCM1 XHC 2-7	100/10-N.Incl.	1	230	1 x 1	1 x 1,36	1 x 2,8	46-62	1"	1"
DCM1 XHC 4-5	100/10-N.Incl.	1	230	1 x 1	1 x 1,36	1 x 5	30-42	1¼"	1"
DCM1 XHC 4-6	100/10-N.Incl.	1	230	1 x 1,3	1 x 1,7	1 x 5	40-52	1¼"	1"
DCM1 XHC 4-7	100/10-N.Incl.	1	230	1 x 1,5	1 x 2	1 x 5	49-64	1¼"	1"
DC1 XHC 2-6T	100/10-N.Incl.	3	400	1 x 0,75	1 x 1	1 x 2,8	35-50	1"	1"
DC1 XHC 2-7T	100/10-N.Incl.	3	400	1 x 1	1 x 1,36	1 x 2,8	46-62	1"	1"
DC1 XHC 4-7T	100/10-N.Incl.	3	400	1 x 1,5	1 x 2	1 x 5	49-64	1¼"	1"
DCM1 XHC 8-25	200/10-N.Incl.	1	230	1 x 1,5	1 x 2	1 x 8	30-45	1½"	1½"
DC1 XHC 8-30	200/10-N.Incl.	3	400	1 x 1,85	1 x 2,5	1 x 8	35-50	1½"	1½"
DC1 XHC 8-35	200/10-N.Incl.	3	400	1 x 2,2	1 x 3	1 x 8	40-55	1½"	1½"
DC1 XHC 8-40	300/10-N.Incl.	3	400	1 x 2,2	1 x 3	1 x 8	45-65	1½"	1½"
DC1 XHC 8-50	300/10-N.Incl.	3	400	1 x 3	1 x 4	1 x 8	60-80	1½"	1½"

DCM2 / DC2 / DC3

Horizontal Automatic Water Boosters

Performance curves

Model	Recommended Expansion Tank (lt)	Phase	Voltage (V)	Motor Power		Flow (m ³ /h)	Operating Pressure (mWC)	Diameter of Manifold		Pressure Switch
				kW	HP			Suction	Discharge	
DCM2 XHC 2-6 M	100/10-N.Incl.	1	230	2 x 0,75	2 x 1	2 x 2,8	35-50	1½"	1½"	BSK / DANFOSS KP35
DCM2 XHC 2-7 M	100/10-N.Incl.	1	230	2 x 1	2 x 1,36	2 x 2,8	46-62	1½"	1½"	BSK / DANFOSS KP35
DCM2 XHC 4-5	100/10-N.Incl.	1	230	2 x 1	2 x 1,36	2 x 5	30-42	2"	1½"	DANFOSS KP35/BSK/FYG
DCM2 XHC 4-6	100/10-N.Incl.	1	230	2 x 1,3	2 x 1,7	2 x 5	40-52	2"	1½"	DANFOSS KP35 / FYG22
DCM2 XHC 4-7	100/10-N.Incl.	1	230	2 x 1,5	2 x 2	2 x 5	49-64	2"	1½"	DANFOSS KP35 / FYG22
DC2 XHC 2-6T	100/10-N.Incl.	3	400	2 x 0,75	2 x 1	2 x 2,8	35-50	1½"	1½"	BSK / DANFOSS KP35
DC2 XHC 2-7T	100/10-N.Incl.	3	400	2 x 1	2 x 1,36	2 x 2,8	46-62	1½"	1½"	BSK / DANFOSS KP35
DC2 XHC 4-7T	100/10-N.Incl.	3	400	2 x 1,5	2 x 2	2 x 5	49-64	2"	1½"	DANFOSS KP35 / FYG22
DCM2 XHC 8-25	200/10-N.Incl.	1	230	2 x 1,5	2 x 2	2 x 8	30-45	2½"	2"	DANFOSS KP35/BSK/FYG
DC2 XHC 8-30	200/10-N.Incl.	3	400	2 x 1,85	2 x 2,5	2 x 8	35-50	2½"	2"	DANFOSS KP35 / FYG22
DC2 XHC 8-35	200/10-N.Incl.	3	400	2 x 2,2	2 x 3	2 x 8	40-55	2½"	2"	DANFOSS KP35 / FYG22
DC2 XHC 8-40	300/10-N.Incl.	3	400	2 x 2,2	2 x 3	2 x 8	45-65	2½"	2"	DANFOSS KP35 / FYG22
DC2 XHC 8-50	300/10-N.Incl.	3	400	2 x 3	2 x 4	2 x 8	60-80	2½"	2"	DANFOSS KP35 / FYG22

Model	Recommended Expansion Tank (lt)	Phase	Voltage (V)	Motor Power		Flow (m ³ /h)	Operating Pressure (mWC)	Diameter of Manifold		Pressure Switch
				kW	HP			Suction	Discharge	
DC3 XHC 4-7T	100/10-N.Incl.	3	400	3 x 1,5	3 x 2	3 x 5	49-64	2½"	2"	DANFOSS KP35
DC3 XHC 8-40	500/10-N.Incl.	3	400	3 x 2,2	3 x 3	3 x 8	45-65	3"	2½"	DANFOSS KP35
DC3 XHC 8-50	500/10-N.Incl.	3	400	3 x 3	3 x 4	3 x 8	60-80	3"	2½"	DANFOSS KP35

DCM2 / DC2 / DC3

Horizontal Automatic Water Boosters

Performance curves

