



MINIMAX

MOBILE SERVICES

PRESSURE BOOSTER

with feed tank BESV maximat MX1

PRODUCT

- ▶ When using this extinguishing water system the water supply line is „wet“ (filled with extinguishing water) indirectly connected by means of an open feed tank with free outlet to the drinking water supply. In case of emergency when actuating the hose connection valve of a wall hydrant (extinguishing water request) the pressure booster is activated and the wall hydrant station supplied with the necessary water quantity with continuous pressure. In case of extinction the DVGW-certified float valve guarantees big outflow rates with low loss of pressure as well as low pressure fluctuations and thus establishes the indirect connection from the drinking water supply to the fire extinguishing system. After termination of the extinguishing water request (closure of the hose connection valve), the pump resets automatically to the armed state.

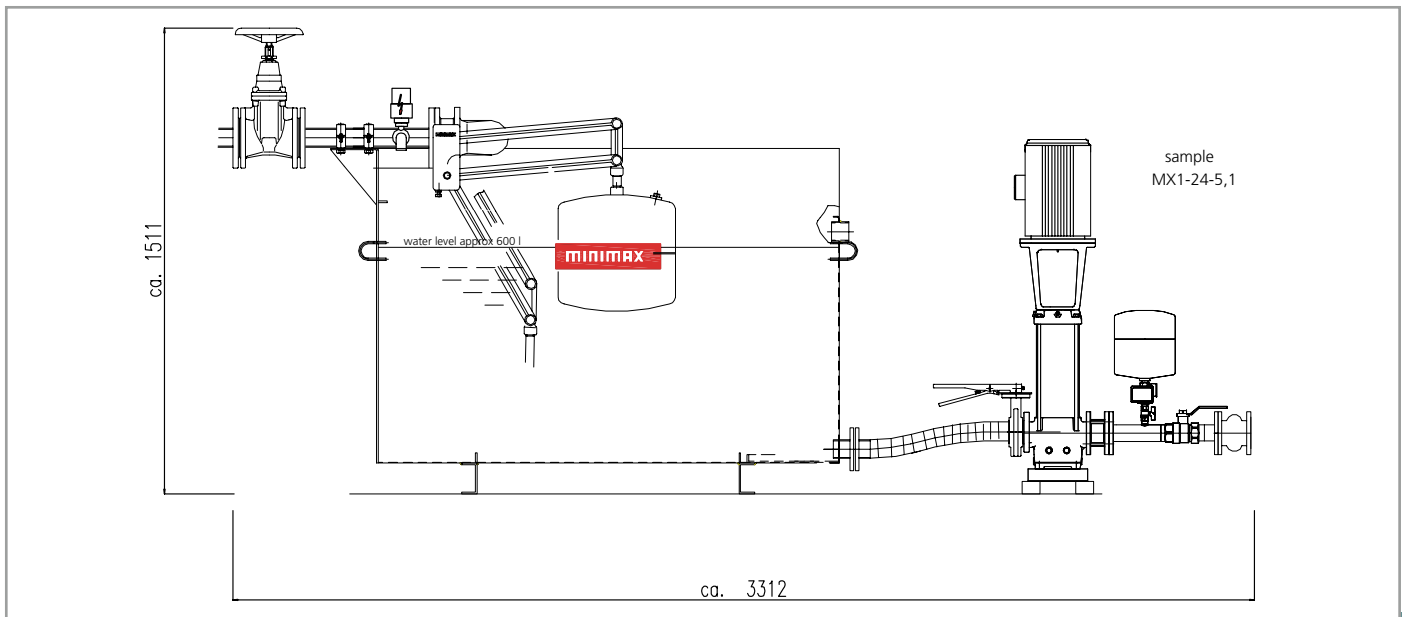
APPLICATION

- ▶ The pressure booster with feed tank maximat MX1 is applicable as well in the scope of new installation as for system separation of existing extinguishing water plants acc. to DIN 14462 and DIN 1988-600.
- ▶ Typical application areas without frost risk are:
 - high-rise buildings
 - places of public assembly
 - hospitals
 - shops
 - blocks of offices
 - schools
- ▶ The construction of the plant is effected each object-related in consideration of the piping network isometry, the resulting mathematical proof and all further technical requirements.

YOUR ADVANTAGES

- ▶ long-life cycle due to high-quality materials
- ▶ the modular construction allows high flexibility in the installation phase with minimum required space. The access is limited to one side. Therefore optimal space exploitation.
- ▶ suitability in terms of fire protection by construction according to DIN 1988-600:
 - free outlet (complete steel cylinder unit maximat BESV)*
 - float valve*
 - rinsing device*Thereby application also possible in fire load areas.
- ▶ simple expert acceptance due to conformance and DVGW-certified* components
- ▶ The aerodynamic construction of the float valve assures high flow rates with low loss of pressure
- ▶ damaging vibrations and pressure surges in the piping are avoided by means of the high mass inertia of the floater and the application of a shut-off flap as inflow control fittings
- ▶ an especially developed control cabinet for this case of operation with potential-free contacts and control and retransmission possibilities to the building control system
- ▶ high maintainability due to easy accessibility of all armatures and control elements

FUNCTION



TECHNICAL DATA

- ▶ container unpressurized, welded out of galvanized steel
- ▶ for 600L net volume: L 1750 x B 740 x H 1370 mm
- ▶ Float valve VdS-approved and DVGW-certified with KV Wert (l/min) 1000 nominal pressure PN10
- ▶ VdS-approval-no.: G-4880060/G-4960035
*DVGW-registration-no.: DW-0903AQ2013 for float valve
- ▶ DVGW-registration-no.: NW-6102BS0359 for rinsing device

RANGE EXAMPLES OF PRESSURE BOOSTER OF MX1

description	nominal voltage	P2 [kW]	In [A]	Q nenn [m³/h]	Q max [m³/h]	H nenn [m]	H null [m]	nominal width
MX 1-3-5,3 MX 1-3-5,7	3 x 380-415 V 3 x 380-415 V	1,1 1,5	4,5 4,5	3 3	4,5 4,5	53 57	73 79	DN25 (PN16) DN25 (PN16)
MX 1-18-4,2 MX 1-18-5,2 MX 1-18-6,5	3 x 380-415 V 3 x 380-415 V 3 x 380-415 V	4 4 5,5	8 8 11,2	18 18 18	23 23 23	42 52 65	58 71 83	DN50 (PN16) DN50 (PN16)
MX 1-24-5,1 MX 1-24-6,3 MX 1-24-7,3	3 x 380-415 V 3 x 380-415 V 3 x 380-415 V	5,5 7,5 7,5	11,2 15,2 15,2	24 24 24	29 29 29	51 63 73	73 88 102	DN50 (PN16) DN50 (PN16)
MX 1-36-4,2 MX 1-36-4,9 MX 1-36-5,6 MX 1-36-6,3	3 x 380-415 V 3 x 380-415 V 3 x 380-415 V 3 x 380-415 V	7,5 7,5 11 11	15,2 15,2 21,4 21,4	36 36 36 36	40 40 40 40	42 49 56 63	71 78 90 98	DN65 (PN16) DN65 (PN16)
MX 1-48-4,9 MX 1-48-5,6 MX 1-48-6,8	3 x 380-415 V 3 x 380-415 V 3 x 380-415 V	11 11 15	21,4 21,4 26,5	48 48 48	58 58 58	49 56 68	65 78 92	DN80 (PN16) DN80 (PN16)
MX 1-72-5,4 MX 1-72-6,2 MX 1-72-6,8	3 x 380-415 V 3 x 380-415 V 3 x 380-415 V	15 18,5 18,5	26,5 31,5 31,5	72 72 72	85 85 85	54 62 68	80 90 98	DN100 (PN16) DN100 (PN16)
MX 1-96-4,0 MX 1-96-4,7 MX 1-96-6,1	3 x 380-415 V 3 x 380-415 V 3 x 380-415 V	15 18,5 22	26,5 31,5 38,5	96 96 96	120 120 120	40 47 61	68 82 102	DN100 (PN16) DN100 (PN16)

The right is reserved to modify any specification without prior notice.

SERVICE

- ▶ The construction of the plant is effected each object-related in consideration of the piping network isometry, the resulting mathematical proof and all further technical requirements.
- ▶ Your Minimax service takes over all works for inspection, maintenance and repair.

SCOPE OF DELIVERY

The pressure booster with feed tank maximat MX1 consists of the following components:

- ▶ Open pressureless steel welded and hot-dip galvanized receiver tank with free outlet family A type B according to DIN EN 1717, with non-circular overflow (unrestricted)
- ▶ Covered by light metal lid to reduce external influences
- ▶ Extinguishing water pressure boosting system in compact design
- ▶ Fan and exhaust louvers according to DIN EN 61439 installed in the control cabinet
- ▶ VDS-approved and DVGW-certified float valve and stop valve
- ▶ Pressure transmitter for level monitoring
- ▶ Options for plant expansion on request

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ISO 14001:2004



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