WALL HUNG GAS BOILER CIRCULATION PUMP

2025-2026
50/60Hz

www.flowoforce.com

Taizhou Flowforce AI Technology Co.,Ltd.
Add: Ganlin Town Industrial Park, Shengzhou, Shaoxing City,
Zhejiang Province, China

Phone: +86-576-80686267
Whatsapp/Wechat: +86-18067705066
info7@wassermann.cn
www.flowoforce.com

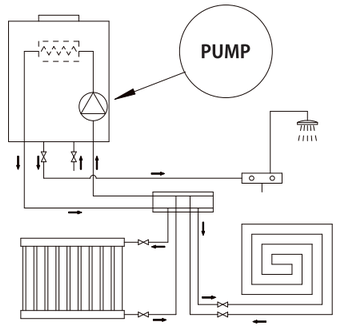
General information

FEATURES

The GHM range offers a number of important features and benefits:

- It is designed to be assembled in the hydraulic module in the gas boiler for the heating system.
- Integrated air venting system of the pump can automatically deposits the air out of the water.
- Internally or externally speed-controlled, high-efficiency circulator pump with electronically commutated motor (ECM) , permanent-magnet rotor and frequency converter.
- Improved motor technology and hydraulics for high pump efficiency.
- Meets all Ecodesign requirements of ErP regulation EU/622/2012.
- Functional design concentrating on the essentials, fitting in the smallest space.
- Easy operation and convenient setting via external control signals or button.
- Motor protected against condensed water by means of the unique encapsulated motor.
- Fits into the confined space inside boilers.
- Electrical compatibility with exisiting PWM controllers.
- Low ambient temperature constraints (EN 60335)
- Low flow noise.
- Standard delivery with plug for easy electrical connection and quick and safe installation.

SYSTEM APPLICATIONS



MECHANICAL SPECIFICATIONS

Ambient temperature

The ambient temperature must not exceed 55°C (near the pump surface).

Relative humidity

The relative humidity inside control box must not exceed 95 %. Condensation is acceptable if the cables on the control box point downwards.

Liquid temperature

- Max. 95°C at 55°C ambient temperature (continuously)
- Max. 110°C for short periods or at low load
- Min. -10°C (see validated temperature profile)

Note: For further lifetime evaluationthe temperatureprofile must be defined.

System pressure

Max. 0.5 Mpa (5 bar)

Minimum inlet pressure

To avoid cavitation noise and damage to the pump bearings, the following minimum pressures are required at the inlet port.

Liquid temperatur	75 ℃	95 ℃	110 ℃
Minimum inlet pressure	0.01 Mpa	0.05 Mpa	0.10 Mpa
	0.10 bar	0.50 bar	1.00 bar

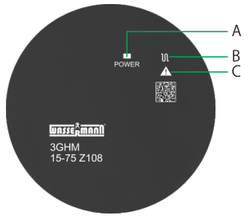
OPERATING PANEL AND SETTINGS

GHM control modes

GHM is externally controlled via a PWM signal.

GHM operating panel

The operating panel is designed with three indicators.



GHM operating panel

Pos.	Description
A	Running indicator
B	Signal established with the product. For PWM communicalion, the LED flashes when communication is established.
C	Fault indicator

The LED shows whether or not the pump is controlled externally or if the pump experiences an error.

Alarm status

If the pump detects an alarm, the LED switches to red. This means that the rotor is blocked or there is an electrical error.
The warnings can be read out via the PWM return signal.

Identification

Type key

Example: GHM 15 -90 Z108 PWM BMC

Type
GHM = Standard Code

Outlet nominal diameter
15 R 1/2" / G 3/4"
R 3/4" / G 1" , for pumps Z108

Max. head
60 6.0m
70 7.0m
80 8.0m
90 9.0m

Pump housing
Z108/Z107/Z106/Z178

Control variant
AUTO Internally controlled
PWM Externally controlled via PWM

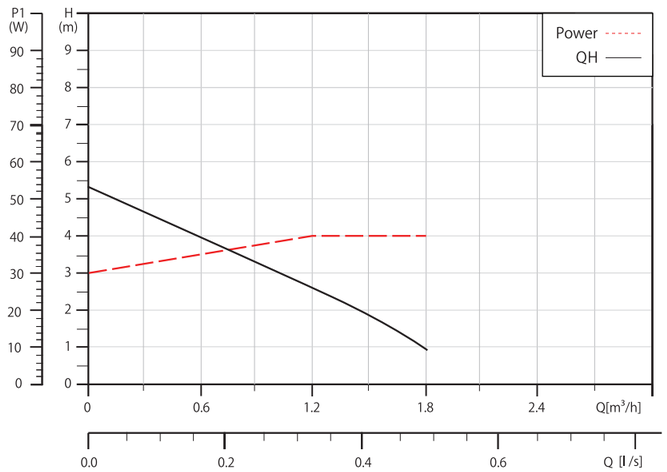
Motor type
= Encapsulated motor with aluminum case
BMC = BMC encapsulated motor

Pump Range

Model	Power P1 max(W)	Connection	Q.max (m^3/h)	H.max (m)	Housing
GHM15-50	40	G1″	1.9	5	Z108
GHM15-60	50	G1″	2.1	6.5	Z108
GHM15-70	60	G1″	2.3	7.5	Z108
GHM15-80	70	G1″	2.4	8.5	Z108
GHM15-90	80	G1″	2.6	9.5	Z108
GHM15-50	40	G3/4″	1.9	5	Z106/Z107/Z178
GHM15-60	50	G3/4″	2.1	6.5	Z106/Z107/Z178
GHM15-70	60	G3/4″	2.3	7.5	Z106/Z107/Z178
GHM15-80	70	G3/4″	2.4	8.5	Z106/Z107/Z178
GHM15-90	80	G3/4″	2.6	9.5	Z106/Z107/Z178

Pump Curve

3GHM 15-50 Z107/Z106/Z108/Z178 AUTO



ErP READY — APPLIES TO EUROPEAN DIRECTIVE FOR ENERGY RELATED PRODUCTS

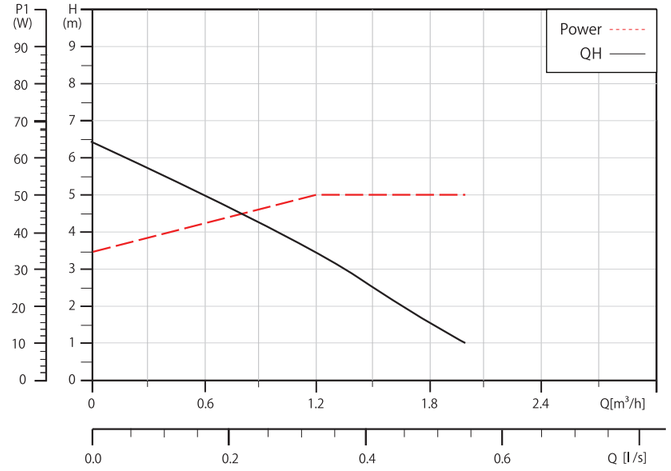
EEI≤0.20

Electrical data, 1 x 230 V, 50 Hz

Speed	P_1 [W]	$I_{1/1}$ [A]
Min	5	0.04
Max	40	0.40

Pump Curve

3GHM 15-60 Z107/Z106/Z108/Z178 AUTO



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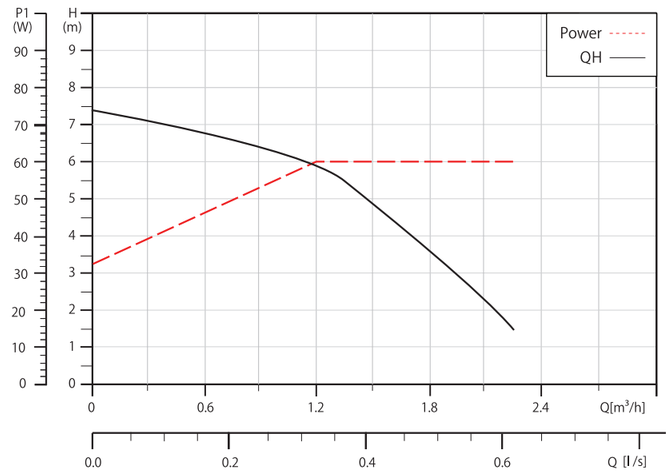
EEI≤0.20

Electrical data, 1 x 230 V, 50 Hz

Speed	P_1 [W]	$I_{1/1}$ [A]
Min	5	0.04
Max	50	0.46

3GHM 15-70 Z107/Z106/Z108/Z178 AUTO



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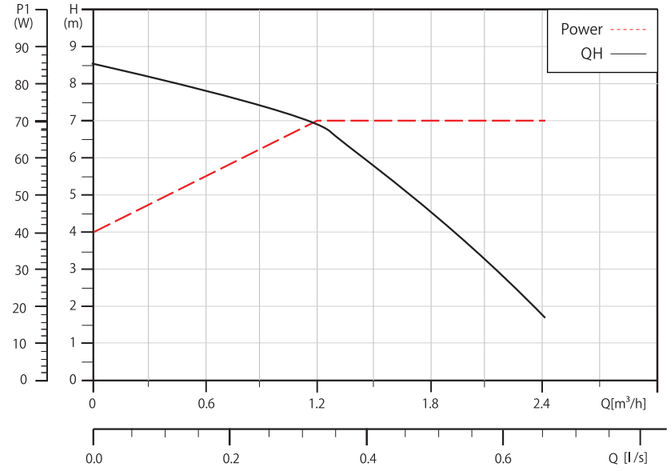
EEI≤0.20

Electrical data, 1 x 230 V, 50 Hz

Speed	P_1 [W]	$I_{1/1}$ [A]
Min	5	0.10
Max	60	0.53

Pump Curve

3GHM 15-80 Z107/Z106/Z108/Z178 AUTO



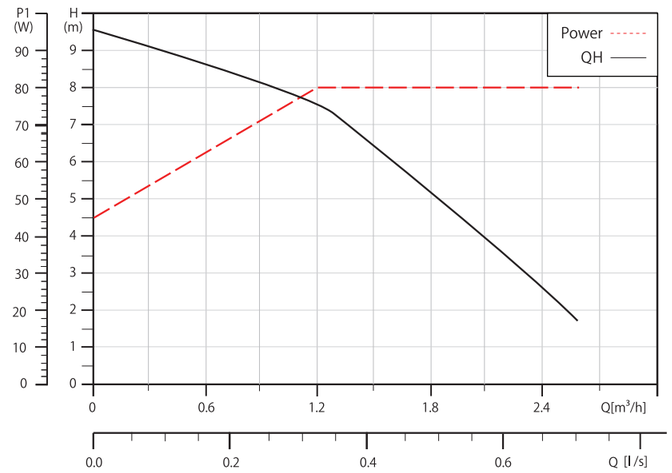
ErP READY — APPLIES TO EUROPEAN DIRECTIVE FOR ENERGY RELATED PRODUCTS

EEI≤0.20

Electrical data, 1 x 230 V, 50 Hz

Speed	P_1 [W]	$I_{1/1}$ [A]
Min	10	0.10
Max	70	0.65

3GHM 15-90 Z107/Z106/Z108/Z178 AUTO



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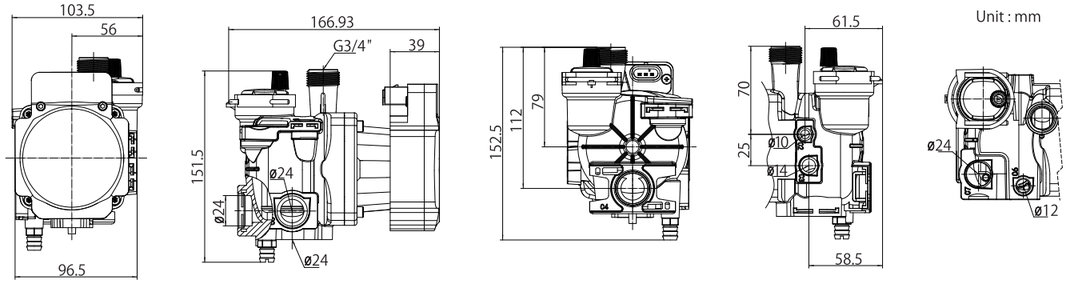
EEI≤0.20

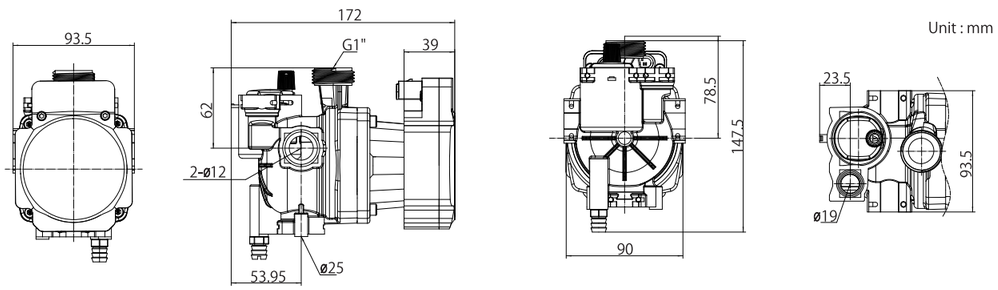
Electrical data, 1 x 230 V, 50 Hz

Speed	P_1 [W]	$I_{1/1}$ [A]
Min	10	0.10
Max	80	0.70

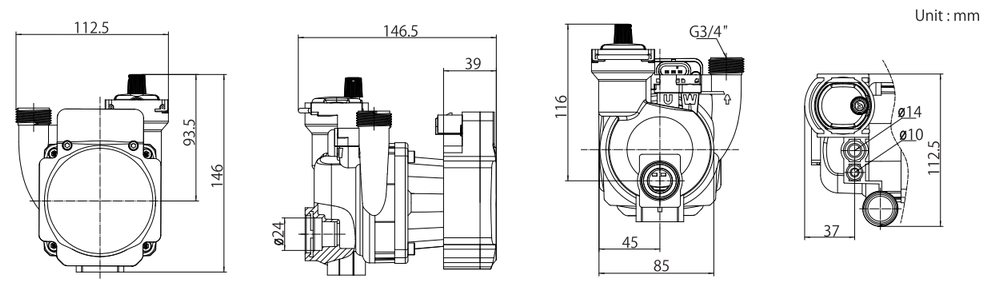
3GHM15-xx/Z107 Dimensions

3GHM15-xx/Z108 Dimensions

3GHM15-xx/Z106 Dimensions

3GHM15-xx/Z178 Dimensions