

Grundfos IMpress Pressurisation Units

The New Generation of Microprocessor Controlled Pressurisation Units from Grundfos



IMpress



IMpress Advanced

Grundfos IMpress & IMpress Advanced

IMpress and IMpress Advanced

These microprocessor controlled pressurisation units form part of the extensive portfolio of packaged pumps sets available from Grundfos and are suitable for use in a wide range of residential, commercial and industrial applications, where pressurisation of a heating or chilled water system is required.

The new units incorporate Grundfos CH2-30 and CH2-50 multi-stage centrifugal compact horizontal pumps that provide cold fill pressure up to 2.5 bar and 4.3 bar respectively. These low noise, efficient pumps are specifically developed for applications such as pressurisation.

Available in single and twin pump configurations and in single phase as standard - three phase is available on request. Both the IMpress and IMpress Advanced offer a comprehensive range of features as standard.

Features	IMpress	IMpress Advanced
Microprocessor Control	●	●
Digital 2 Line Liquid Crystal Display	●	●
Display Backlight	●	●
Dual Colour Status LED	●	●
Audible Alarm	●	●
Alarm Mute	●	●
3-button User Interface	●	●
Customer Assigned Password Protection	●	●
Single or Twin Pump Versions	●	●
Manual Pump Run Control	●	●
Low Tank Water Level	●	●
Multiple Programmable Alarms	●	●
Service Due Feature	●	●
Programmable Volt Free Contact(s)	1	2*
History Event Log	●	●
Automatic Pump-Test		●
Pump Run Hours Counter		●
Real Time Clock with Battery Back-Up		●
Additional Thermal and Circuit Protection		●
240vAC 50Hz Single Phase Operation	●	●
380-415vAC 50 Hz Three Phase Operation	Optional	Optional
RS-232 Port		●

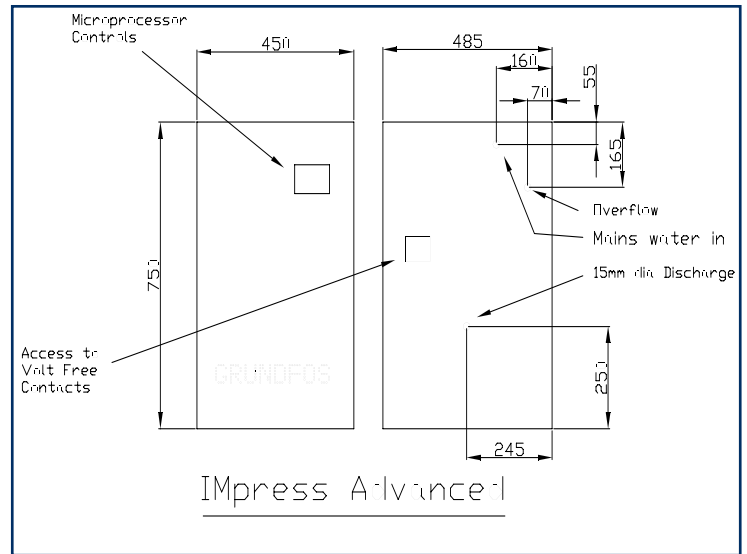
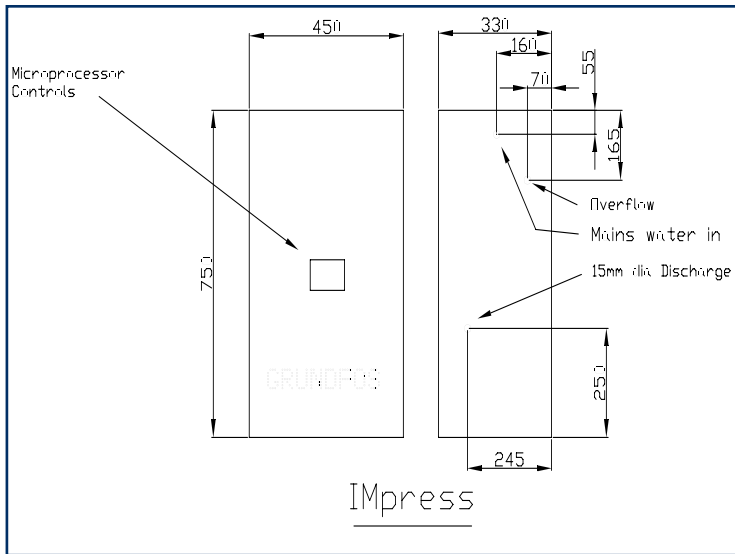
*In addition to the above IMpress Advanced offers an additional eight (8) volt free contacts specifically for BMS (Building Management System)

These can be used for: Pressure Low, Pressure High, Water Low, System Leak
Pump A Fault, Pump B Fault, Service Due, System Fault

Technical Data

Dimensional Drawings

All dimensions are in mm



Product Codes

IMpress	IMpress	IMpress	IMpress
1 Pump	1 Pump	2 Pump	2 Pump
CH2-30	CH2-50	CH2-30	CH2-50
MIMS 2301*	MIMS 2501*	DIMS 2301*	DIMS 2501*
IMpress Adv	IMpress Adv	IMpress Adv	IMpress Adv
1 Pump	1 Pump	2 Pump	2 Pump
CH2-30	CH2-50	CH2-30	CH2-50
MIMA 2301*	MIMA 2501*	DIMA 2301*	DIMA 2501*

* Product Code

Operation of Volt Free Contact(s), Audible Alarm, and LED Indicator (when being used as a standalone unit)

The new range of Grundfos IMpress and IMpress Advanced microprocessor controlled pressurisation units have the option of configuring the operation of: the volt free contacts, the audible alarm and the dual colour LED indicator.

Each of the above three functions can be assigned to operate with one or more of the following configurable parameters:

- Low Pressure, High Pressure, Low Water Level, System Leak, Pump Fault, Service Due, Controller Fault, Stop Relay Failsafe Operation.
- The IMpress is provided with one (1) programmable volt free contact. The IMpress would be specified where only system interlock or a fault indication is required.
- The IMpress Advanced is provided with two (2) programmable volt free contacts. The above parameters can be assigned to the operation of one or either volt free contacts as required. The IMpress Advanced would be specified where both a system interlock and a fault indication is required. There are also an additional eight (8) dedicated volt free contacts specifically to communicate with building management systems.

Product Specification & Pump Data

Pump Electrical Data

Type	Pump Type	Phase	Input Power (P1) W	FLC (A)	Start (A)
IMpress and IMpress Advanced	CH2-30	1ph	480	2.3	10.5
	CH2-50	1ph	680	2.9	10.5

Voltage: 220-240v/1ph/50Hz
Capacitor size: 10uF/400 V
Enclosure class: IP54
Insulation class: F

Pump Material Specification

Suction Chamber: Cast Iron BS 1452 Grade 180
Intermediate Chamber: Stainless Steel BS 1449 304 S15
Impellers: Stainless Steel BS 1449 304 S15
Pump Shaft: Stainless Steel BS 970 431 S29
Shaft Seal Face: Silicon carbide
Shaft Seal Seat: Silicon carbide
Shaft Seal 'O' Rings: FKM elastomer

Product Specification

Microprocessor controlled
7 bar pressure transducer
240v/1ph/50Hz
Digital pressure display with 0.1 bar resolution
CE marked
Grundfos name punched into the metalwork
450 (W) x 330 (D) x 750 (H) mm - IMpress
450 (W) x 485 (D) x 750 (H) mm - IMpress Advanced

Optional Features

In addition to both of the IMpress units, provisions have been made for customised features such as:-

- Network communications
- Connection to remote control display panel for adjustment and monitoring
- Stainless steel CHN units or other pump alternatives for high pressure systems

These options can be discussed with the Grundfos Sales Team

GRUNDFOS PUMPS LTD

Commercial Building Services

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Scottish & N. Ireland Region: Tel: 01506 461666, Fax: 01506 461555

Domestic Building Services

Tel: 01525 775402, Fax: 01525 775236

Water Projects Group

Tel: 01525 775449, Fax: 01525 370625

Water Distribution Group

Tel: 01525 775450, Fax: 01525 775224

Original Equipment Manufacturer

Tel: 01525 775444, Fax: 01525 853981

Pump Mechanical Data

Liquid temperature: 0-90 Deg C
Max ambient temperature: 55 Deg C
Pump speed: 2900 rpm

Connections

Mains supply cable length: 4m
Cold water supply connection: 1/2" BSP Male
Overflow connection: 3/4" BSP Male
System water connection: 15mm compression

Weights:

IMpress	IMpress Advanced
1 x CH2-30: 25 kg	29 kg
1 x CH2-50: 28 kg	32 kg
2 x CH2-30: 35 kg	42 kg
2 x CH2-50: 40 kg	47 kg

Spares

Tel: 01525 775401, Fax: 01525 370625
Email: ukspares@grundfos.com

Service

Mobile Service : Tel: 08450 508100, Fax: 01942 602830

Office Addresses

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