Communal Heating System (17931) for 6-10 Flats

A turn-key solution to the provision of domestic hot water and central heating in communal properties. Modular design using domestic boilers and storage, combined with commercial controls and monitoring facilities, makes this a very robust and cost effective solution.

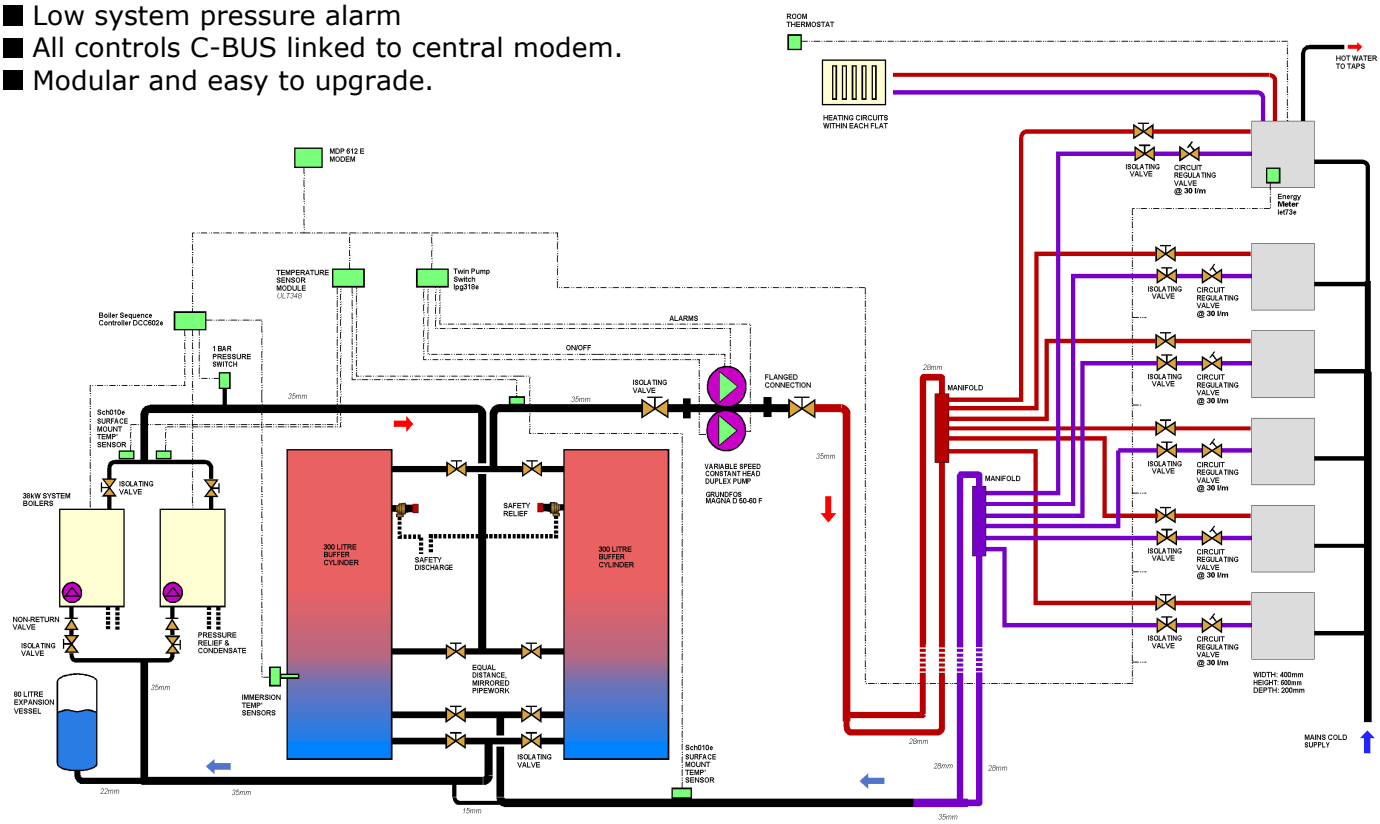
Benefits to User:
- Central heating
- Instantaneous mains pressure hot water up to 6 bar, 30 lpm
- No gas appliances or pressurised cylinders to maintain

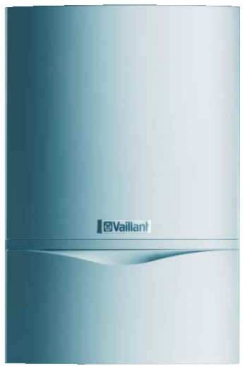
Benefits to Landlord:
- Off-site reading of individual energy usage for billing
- Off-site monitoring and control of all plant
- Automatic forwarding of alarms (e.g. to a mobile)
- Software required for monitoring provided FREE
- NO license fees or ongoing charges

Features of Plant:
- Redundancy on Boiler, Pumps, and Storage
- Twin 37kW Condensing Boilers (74kW peak)
- Boiler sequence controller
- Twin 300 litre Buffer Stores (600 litres total)
- Duplex (Duty/Standby) Modulating Primary Pump
- Up to 230 lpm (14m3/h) primary circulation
- Automatic pump changeover
- Low system pressure alarm
- All controls C-BUS linked to central modem.
- Modular and easy to upgrade.



DPS BoilerMaster
Plate Heat Exchange Technology:
Mains pressure hot water is heated locally within each flat through a plate heat exchanger at up to 30 litres per minute, and 6 bar pressure, without Legionella risks. Also provides central heating control and metering of energy used for billing purposes.





2 x Vaillant 37kW EcoTEC Plus Condensing System Boilers:
Together providing up to 74kW of energy input, the boilers have been selected for efficiency, quality, and after sales backup.



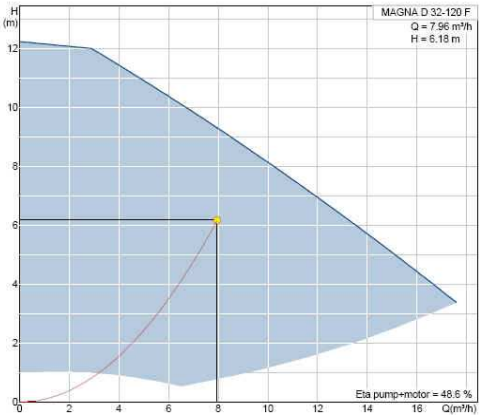
2 x Stainless Steel Buffer Stores:
As standard providing 600 litres of primary storage. Selection of sizes available to match space available. Options for electric backup and input from renewable sources.



Grundfos Duplex Magna 32-100 Variable Speed Pump:
Provides duty / standby operation that adjusts output to match demand. The pumps. Each head can supply up to 200 lpm at a head of 0.7 bar.



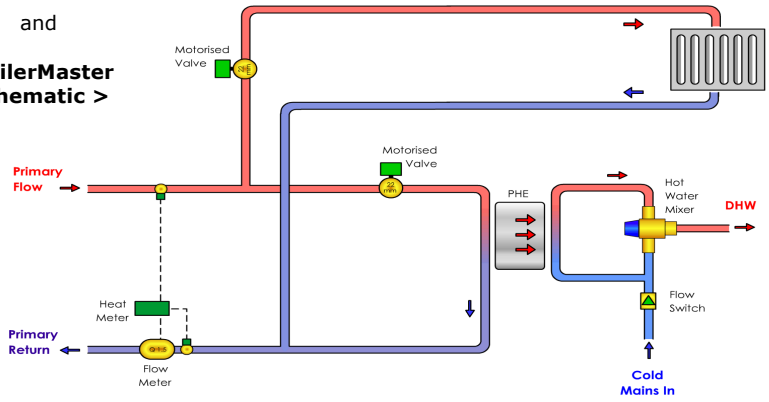
6 x BoilerMaster District Interface Units:
Provides 100kW mains pressure hot water within flats, as well as central heating control, and primary metering. Connects on C-BUS to plant room.



< Pump Graph

and

BoilerMaster Schematic >





Boiler Sequence Controller:
Manages the firing of the two boilers to match demand. Also includes timing function, as well as boiler lockout alarm, and control over set point temperatures.



Temperature Module:
Provides access to information from four temperature sensors, for boiler flow temperatures, as well as distributed primary flow and return temperatures.



Pump Changeover Module:
Provides duty / standby control over pump, with pump overload alarm. Automatically alternates the operation of pumps.



Energy Meter Module:
Fitted within each BoilerMaster the unit stores the energy used by each flat for billing purposes. Also records two auxiliary inputs for gas, electricity or water.



Modem Module:
Connects all the C-BUS modules to a telephone line to allow off-site monitoring and control, as well as access to billing information. GSM modem optional.

The software required to access the Coster modules remotely is provided free of charge, as is technical backup. Combined with the huge range of other modules available, you can be confident in connecting all possible plant equipment to the same remotely managed system, without hidden operating costs.

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