

Fact sheet

UNISTAT 1016 A/W Small

Compact district heating substation from 16 to 30 kW*



Application

The UNISTAT 1016A(PN16) / W(PN25) is designed for use in district heating networks. Depending on type, it can be used both in micro- and macronetworks, in low temperature (LT) and high temperature (HT) ranges. The substation is an innovative product which sets industry standards.

Function

The communicative controller ECL 310 is used. This controller ensures optimum regulation of the energy distribution. The supply temperature for the domestic system is weather compensated. Energy consumption and temperatures can be remote monitored.

Construction

The built-in components are connected by means of precisionmanufactured stainless steel pipe connections produced with a special Danfoss end-forming connection technology for PN16, the PN25 version is featured with welded carbon steel pipes on primary side and stainless steel pipes on secondary side. High quality EPDM for PN16 is used as sealing material. The entire waterbearing part of the substation is thermally insulated (EPP). This design enables an easy and quick removal for service purposes.

The benefits of this design are:

- Minimal radiation heat losses
- High durability
- Mounting option for pressure and temperature measuring instruments is incorporated.

Assembly

The compact substation is easy to wall-mount.

FEATURES AND BENEFITS

- Thermal insulation
- Easy installation (by one person)
- Easy electrical connection
 - edgewise cable routing
 - plenty of space for wiring work
- High serviceability
- Compact and modern design
- Durability due to the use of precious metals
- PN16 / PN25 application
- Steel sheet cover
- New Danfoss ECL controller
- Easy operation of the ontrroller display

* Power levels and types are dependent on flow rate and spread

1 External sensor
 2 Thermometer
 3 Manometer
 4 Sensor
 5 Air vent
 6 Drainage
 7 Strainer
 8* Safety thermostat
 9 Connection for expansion vessel
 10 Controller
 11* Heat meter
 12 Ball valve
 13 Safety valve
 14 Plate heat exchanger
 15* Differential pressure sensor

Technical drawing of a mechanical assembly. The drawing shows a cross-section of a component with a hatched upper section. Dimensions are indicated at the top: 74.5, 59, 64.5, and 125. Below the dimensions, four vertical lines extend downwards to specific points on the assembly. These points are labeled A, B, D, and C from left to right. A small circle is also visible between points D and C. A vertical dimension line on the right side indicates a height of 125.

¹⁾ primary side / secondary side

Primary [°C]	95-65	90-60	90-50	95-60	95-55	80-50
Secondary [°C]	60-85 55-80	50-70 50-75 55-75 55-80	45-65 47-70 45-75	55-75 57-80 55-80	50-70 50-75 52-75	45-65

VL.GE.S3.02