



### Function

The NOVASOL DUO 7603 is a high-end solar circulation unit, designed to ensure the correct flow rate and head pressure of the heat transfer fluid in solar systems. It includes the supply and return branches and additional features such as thermometers, a non-return valve, safety functions, flow rate reading/regulation, an air vent, and a control unit. The design is customizable, compact, and functional, with options to choose connection sizes, flow meter calibration, and between 130mm or 180mm circulators. Additionally, it supports the integration of the most common control units on the market.

### Technical data

Nominal diameter	DN15
Max. pressure	6 bar safety valve
Max. working temperature	130° - 150° peak
Min. working temperature	+5°
Liquid	Water-water+glycol max 50%
Thermometer	0-160°C
Check valve opening	$\Delta P: 2 \text{KpA} (200 \text{mm c.a.})$
External dimensions	480x280x180 mm
IP protection grade	IPX0D
Pipes	Copper $\varnothing 18 \text{ mm}$
Interaxes	125 mm
Expansion vessel connection	3/4" M*
Fill connection	3/4" M - fast d.15
Flowmeter range	2 - 12 l/min*
Pump	Grundfos UPM3 Solar ERP Ready
Pump connections	1" M / 1"½ M - 130/180 mm*
Max. flow rate	720 l/h**
Electrical consumption	230V - 50Hz

\* Other values on request

\*\* ref. with residual pressure 2 m.c.a.

Without control unit window on the lid  
Circulator center distance: 130mm - G 1"

### Attacks available

Olive connection 15 - 18 - 22  
3/4" M - 3/4" F - 1" M - 1" F

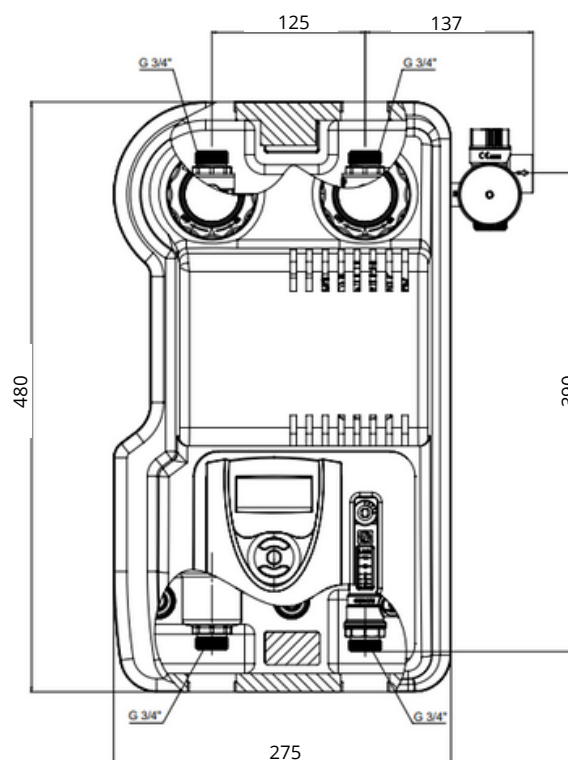
### Flow meters

1- 6, 2-12, 8-28, 8-38 l/min.

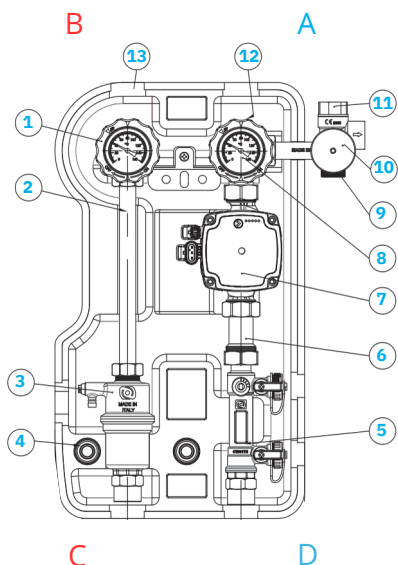
### Materials

Pipes	Copper
Insulation	EPP
Circulators	Cast iron
Components	Brass/CW617N

### Dimensions



## Composition



- 1) Supply valve with thermometer
- 2) Supply pipe
- 3) Manual air vent
- 4) Hose connection for filling/draining
- 5) Flow meter with filling/draining system
- 6) Adapter for circulator 130mm
- 7) Circulator pump
- 8) Return valve with thermometer
- 9) Non-return valve
- 10) Expansion vessel connection
- 11) Pressure gauge
- 12) Solar safety valve
- 13) Insulating cover

- A) Collector field flow
- B) Collector field return
- C) Tank flow
- D) Tank return

## Certifications

Product compliant with:  
 - EN 16297-2 / EN 16297-3:2012 ErPReady  
 - PED Directive - 2014/68/EU



## Accessories



**FLOW METER**  
 FLOW METER 1490  
 (Cod.10405595)



**SAFETY KIT 3098/N**  
 SAFETY KIT  
 (Cod.C0105110)



**GRUNDFOS SOLAR PUMP**  
 SOLAR PUMP 15-75/130  
 (Cod.R0105078)



**SOLAR SYSTEM CONTROLLER**  
 Resol CS4 Control unit  
 (Code: CF105184)