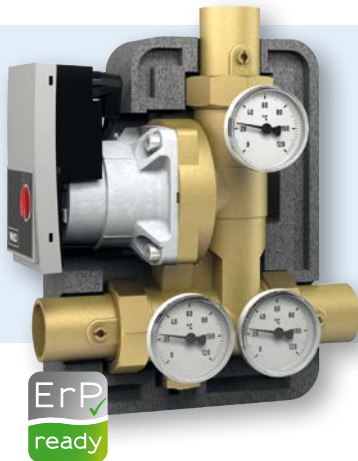


# Charging unit RTA 60 DN 25 WP03 G1



- For charging the storage of solid fuel boilers
- Compact unit for limited space conditions
- With temperature-controlled condensation protection valve
- Avoids deposits in the boiler and in the smoke vent

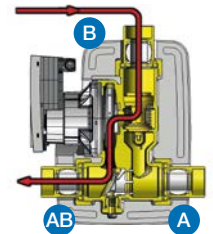


**Application** Charging unit for direct connection between a solid fuel boiler and a heating system or a buffer storage. The compact design allows for mounting to the pipes between the solid fuel boiler and the storage even if space is limited. Using the charging unit RTA 60 DN 25 WP03 G1 RTA keeps the temperature in the heating boiler above the condensation point in all operating states. This avoids deposits in the boiler and in the smoke vent and increases the efficiency and the service life of the system. The risk of corrosion damage to the boiler and chimney fires resulting from soot deposits is reduced.

**Description** Complete, pre-assembled and tightness-tested charging unit with all required functional components. The compact insulation contains a central carrier with a high energy efficiency pump. The probe systems of the three thermometers held by the insulation are in the corresponding receptacles of the carrier after mounting. The thermal condensation protection valve and a check valve that can be shut off are contained inside the carrier. Ball valves with connection threads G1 female are screwed to the three system connections.

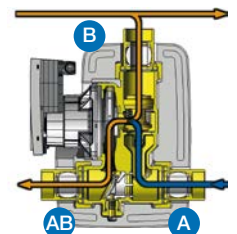
## Function principle Start mode (heating up of boiler)

When the boiler heats up, the condensation protection valve is fully closed in the direction of the consumer. The liquid coming from the boiler is recirculated in the small circuit via the bypass, which causes the boiler temperature to increase more rapidly.



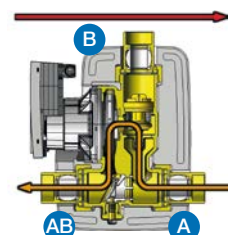
## Transition phase

When the opening temperature is reached (60 °C), the circuit to the consumer is opened proportionally and the bypass is reduced accordingly. The boiler temperature increases and heat is provided to the consumer; however, the return temperature will not fall below the set temperature.



## Regular operation

During further operation, the temperature increases until the condensation protection valve is fully open (return storage A). The bypass (B) is closed correspondingly. If the inlet temperature (return storage A) drops to approx 10 °C above the set opening temperature (e.g. 65 °C), the admixture via the bypass (B) is increased proportionally and outlet A is closed proportionally.



# Charging unit RTA 60 DN 25 WP03 G1

## Technical specifications

### System connections

G1 female thread

### Operating temperature range

Medium:  $T_{\max}$  100 °C

### System pressure

Max. 6 bar

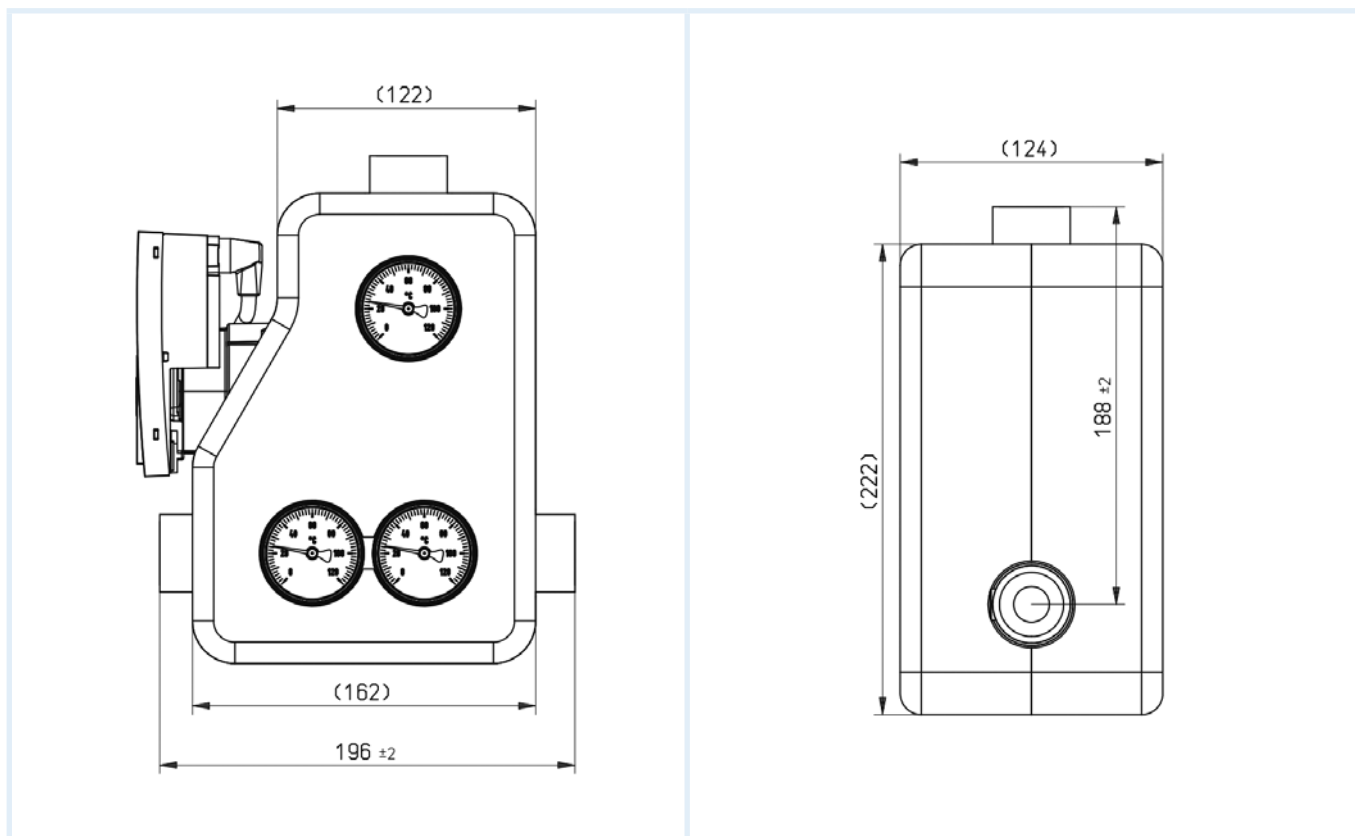
### System capacity

Max. 60 kW at a flow rate of 2,600 l/h and a temperature spread of  $\Delta t$  20 K

### Insulation

Polypropylene EPP

## Dimensions (mm)



DG: G, PG: 2	Opening temperature	Pump	Part no.	Price €
<b>Charging unit RTA 60 DN 25 WP 03 G1</b>	60 °C	WILO YONOS PARA RS/7.5-RKC	77548	
<b>Charging unit RTA 55 DN 25 WP 03 G1</b>	55 °C	WILO YONOS PARA RS/7.5-RKC	77547	
<b>Charging unit RTA 45 DN 25 WP 03 G1</b>	45 °C	WILO YONOS PARA RS/7.5-RKC	77546	