



# Oras

Installation and maintenance guide





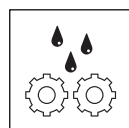
4



5-11



12-13



14-22



13



I (ISO 3822)  
100 - 1000 kPa  
max. +70°C



Frequency: 2,4 GHz  
Max power: 10 mW  
Radio range: 25 m



We declare that the Bluetooth products conform to the Radio Equipment Directive 2014/53/EU, the Low Voltage Directive 2014/35/EU, the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU.

For more information:  
<https://static.oras.com>



Oras App



[apps.oras.com](https://apps.oras.com)

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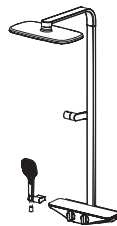
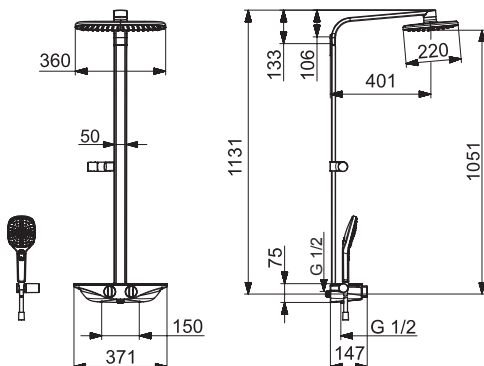
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## 7590-11

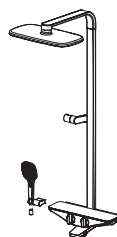
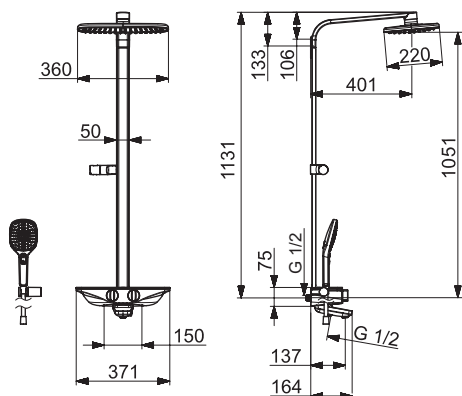
I (ISO 3822) Oras lab.  
EN 1111, EN 1112, EN 1113  
100 - 1000 kPa  
0.23 l/s (300 kPa)  
210 kPa (0.2 l/s)  
max. +80°C



[mpi.oras.com/7590-11](http://mpi.oras.com/7590-11)


## 7591-11

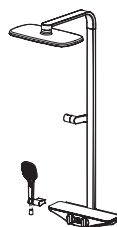
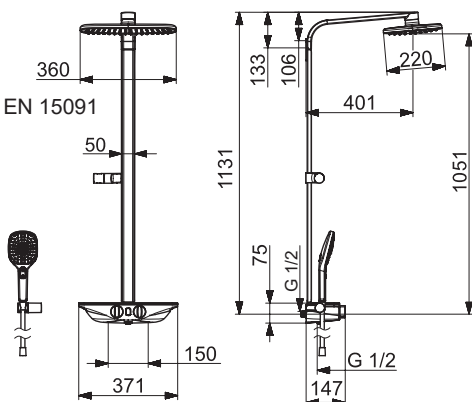
I (ISO 3822) Oras lab.  
EN 1111, EN 1112, EN 1113  
100 - 1000 kPa  
0.27 / 0.23 l/s (300 kPa)  
230 kPa (0.2 l/s)  
max. +80°C



[mpi.oras.com/7591-11](http://mpi.oras.com/7591-11)

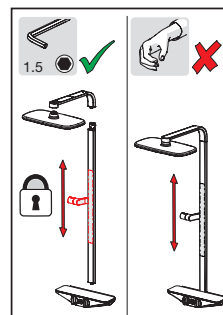
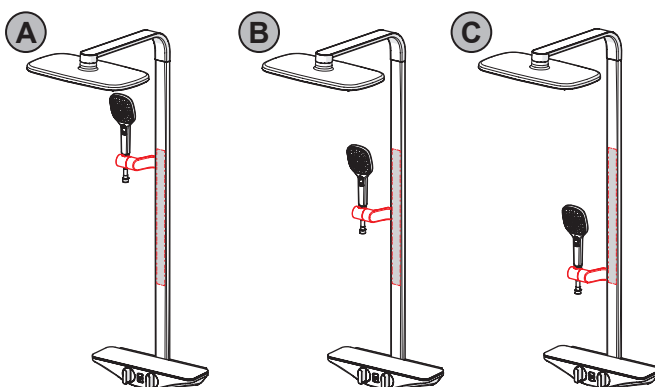
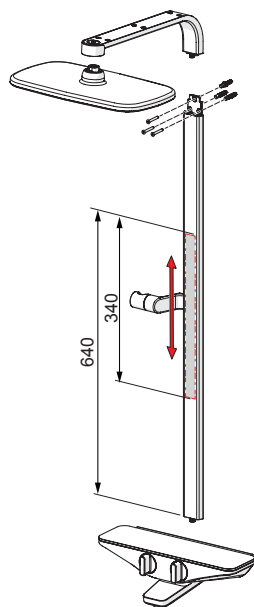
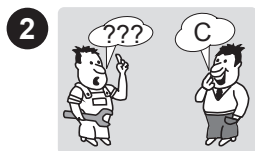
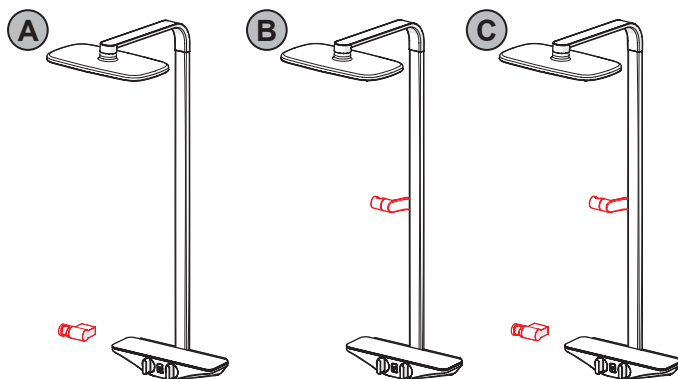
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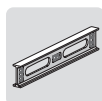
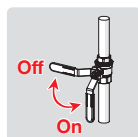
I (ISO 3822) Oras lab.  
EN 1111, EN 1112, EN 1113, EN 15091  
100 - 1000 kPa  
0.2 l/s (300 kPa)  
210 kPa (0.2 l/s)  
max. +70°C  
IP 55  
AA 1.5 V Lithium x 4  
 (EMC 2014/30/EU)



[mpi.oras.com/7592-11](http://mpi.oras.com/7592-11)



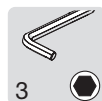




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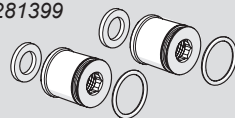


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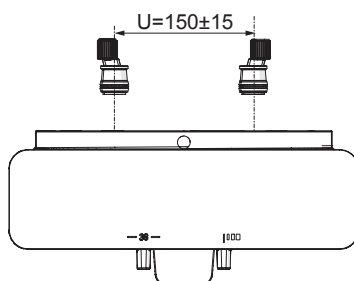
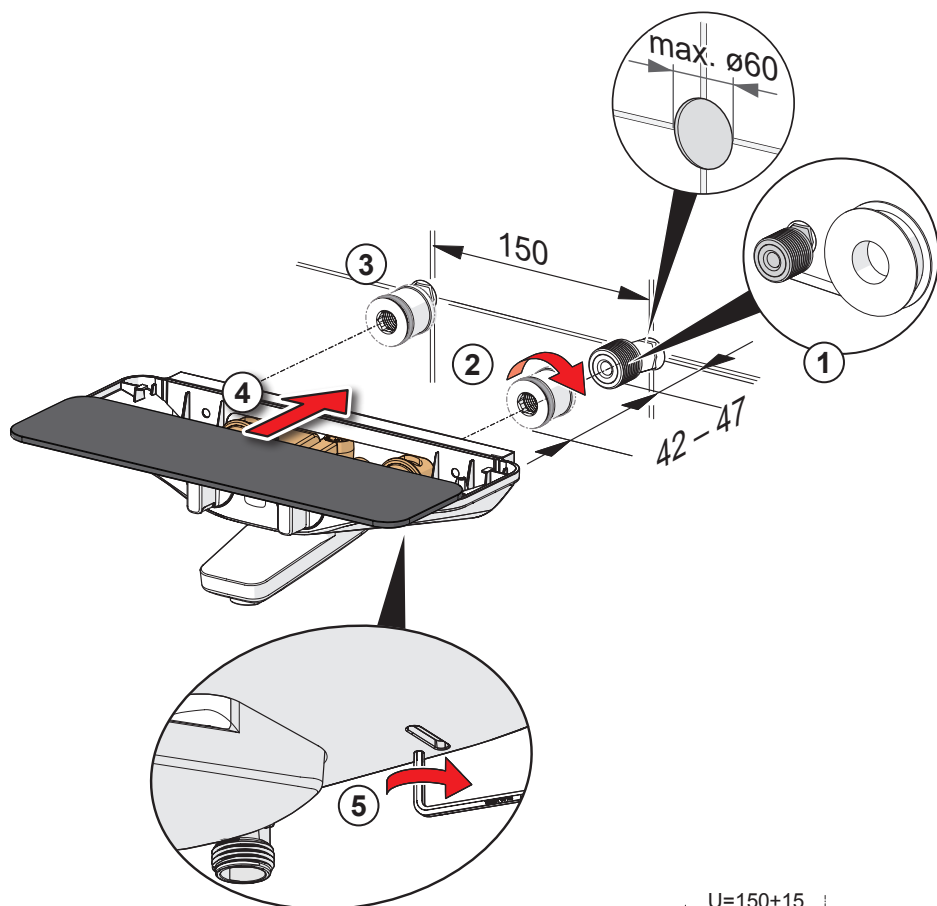


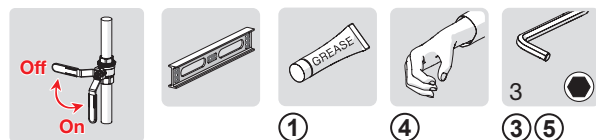
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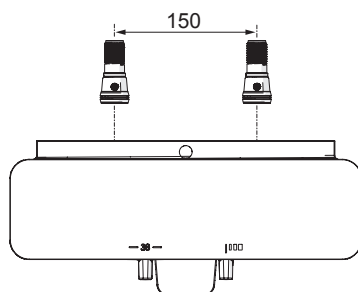
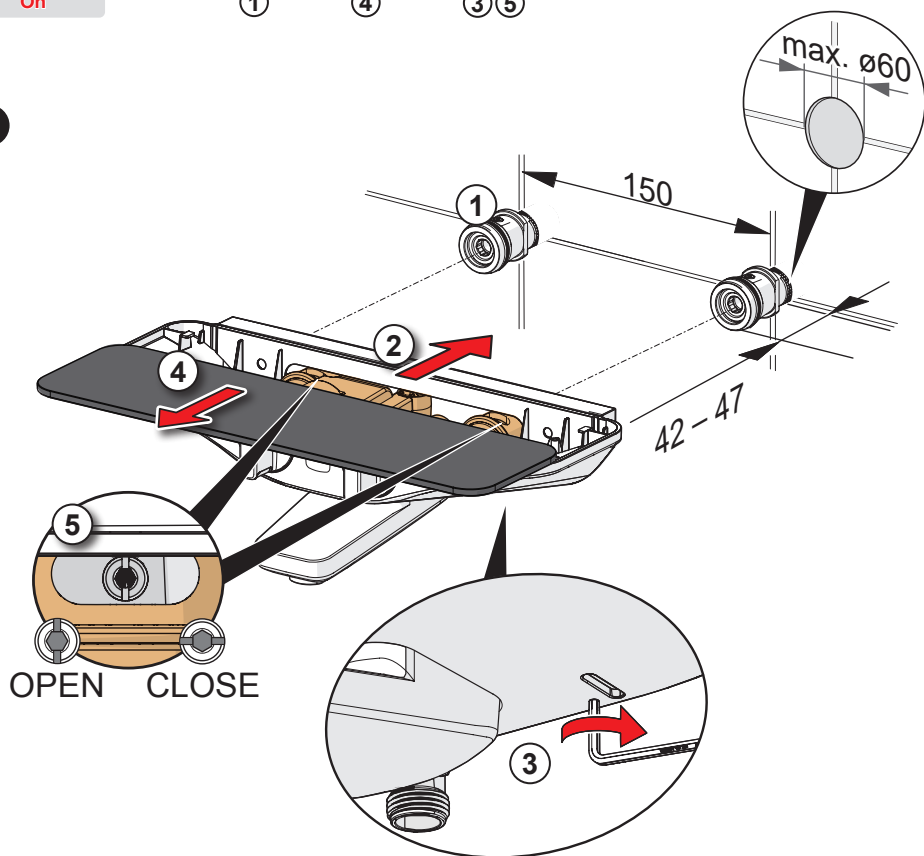


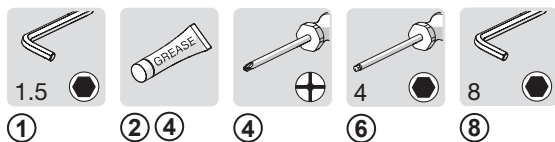
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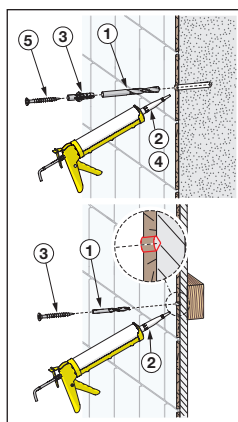
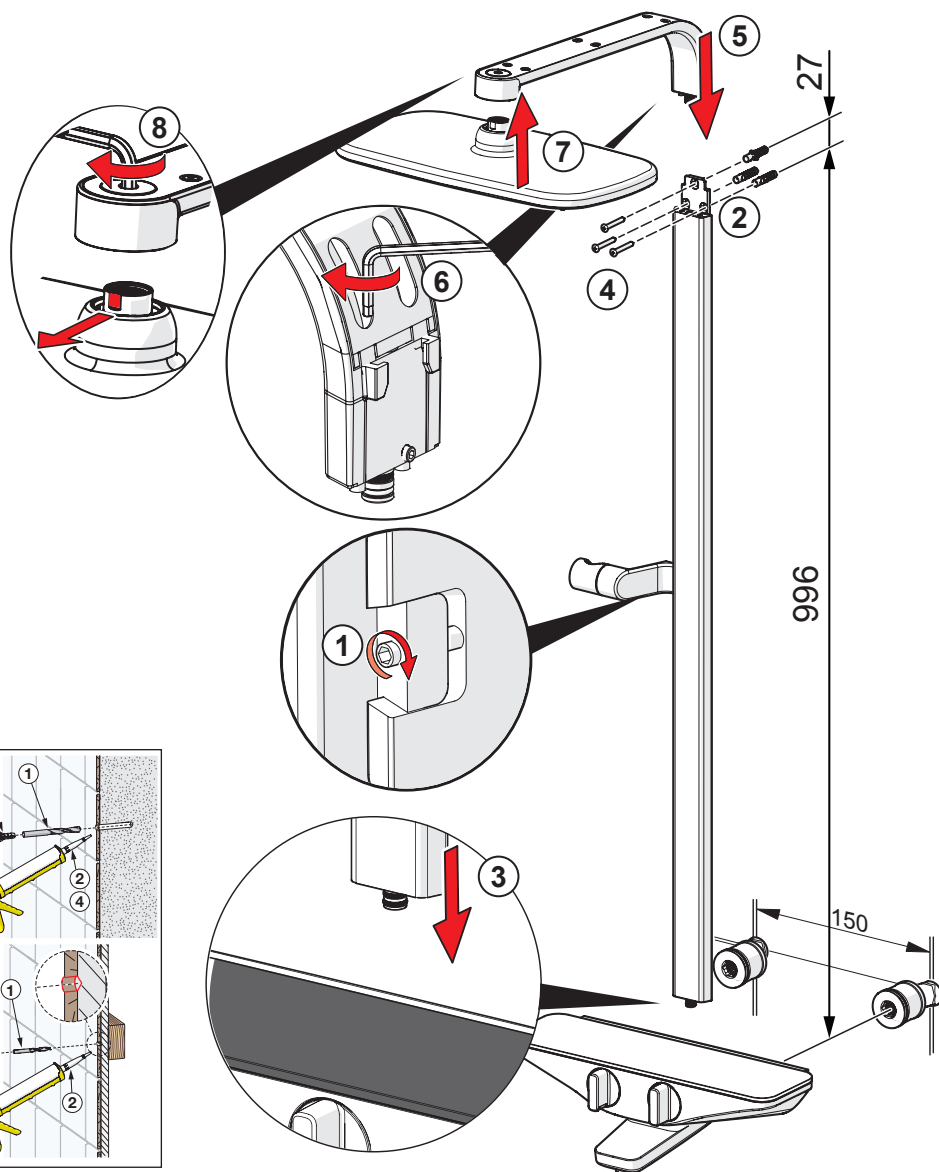


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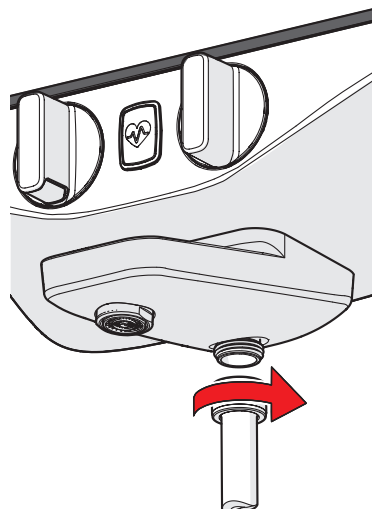
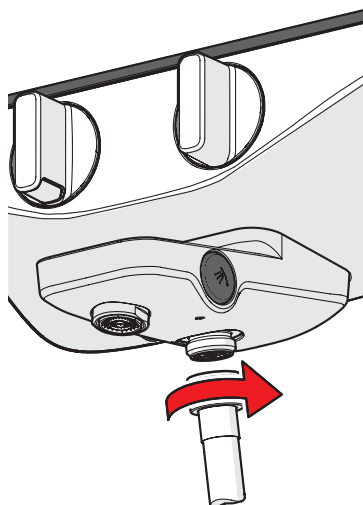
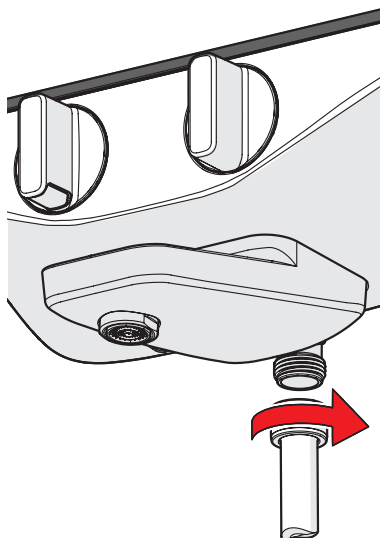
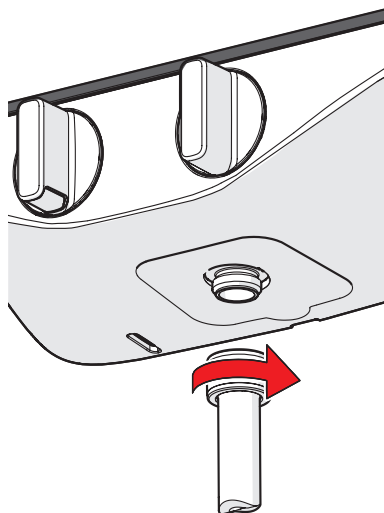
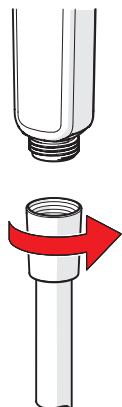


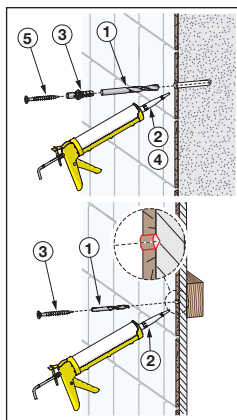
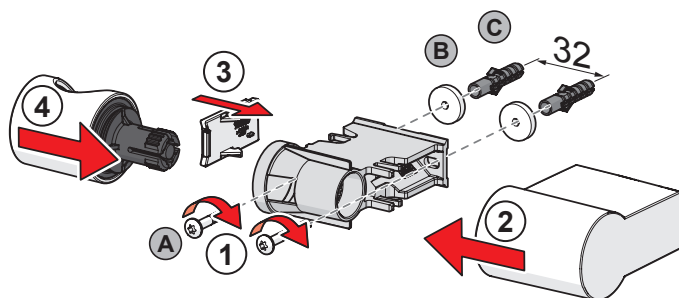
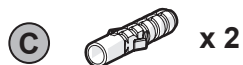


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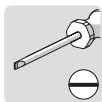
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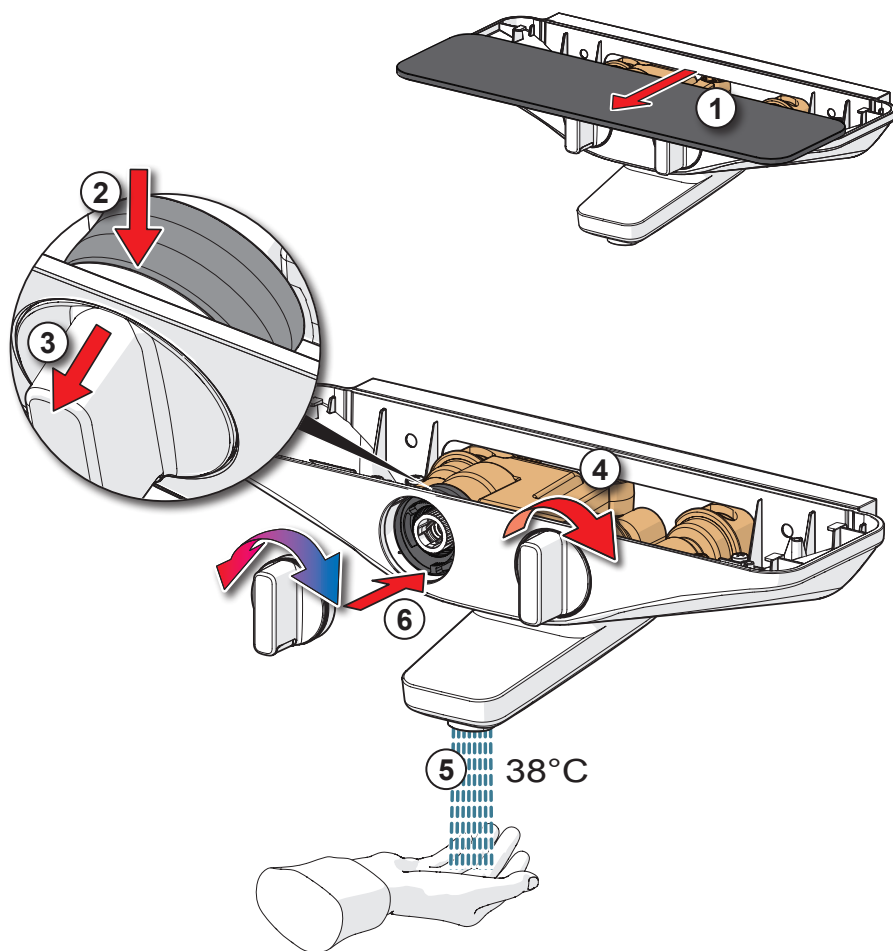




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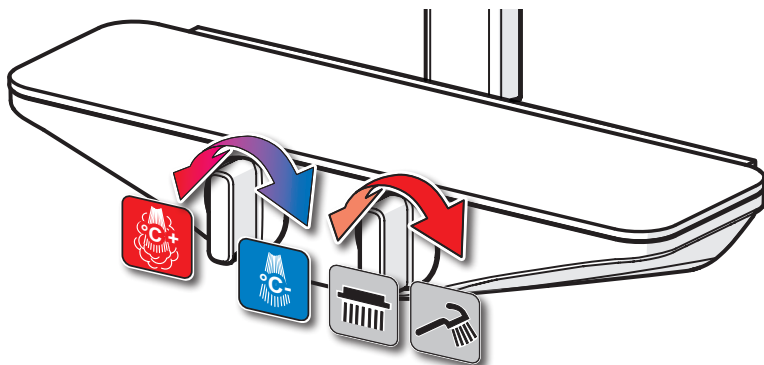


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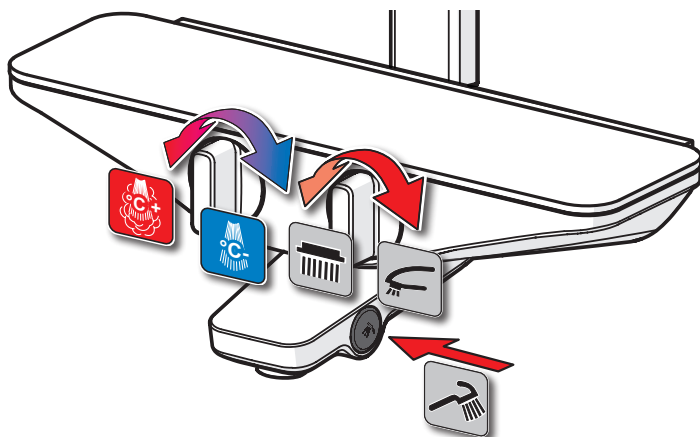




**7590**  
**7592**

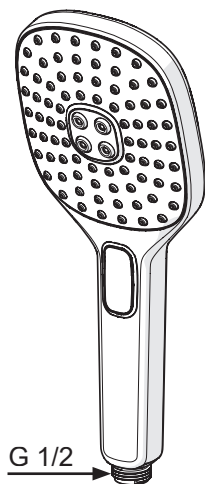


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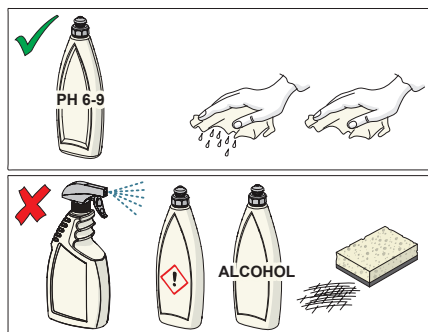
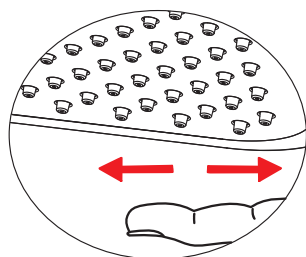
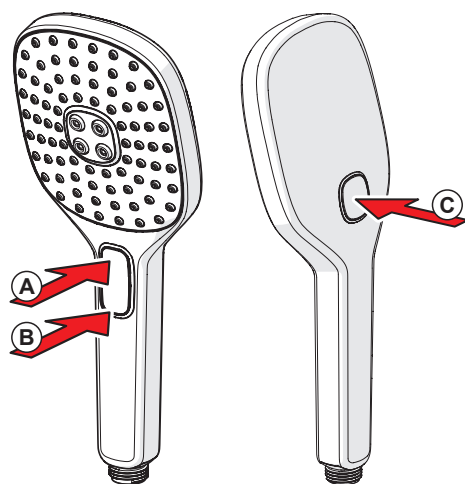
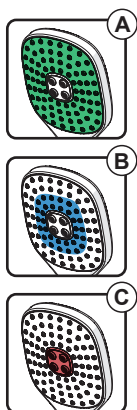




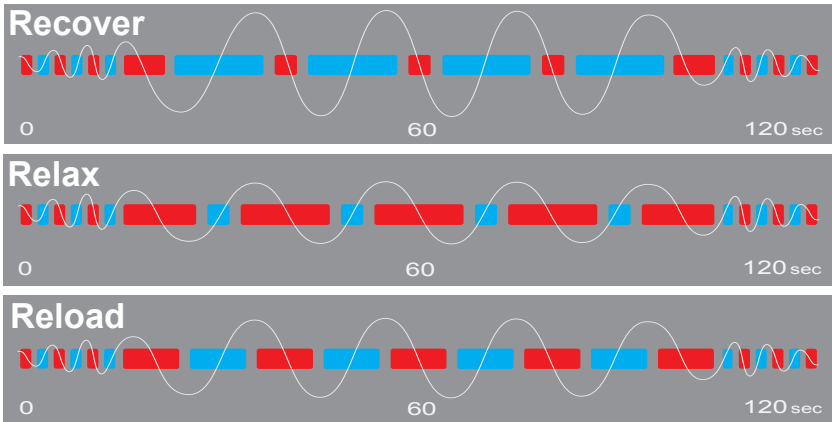
Max 65°C

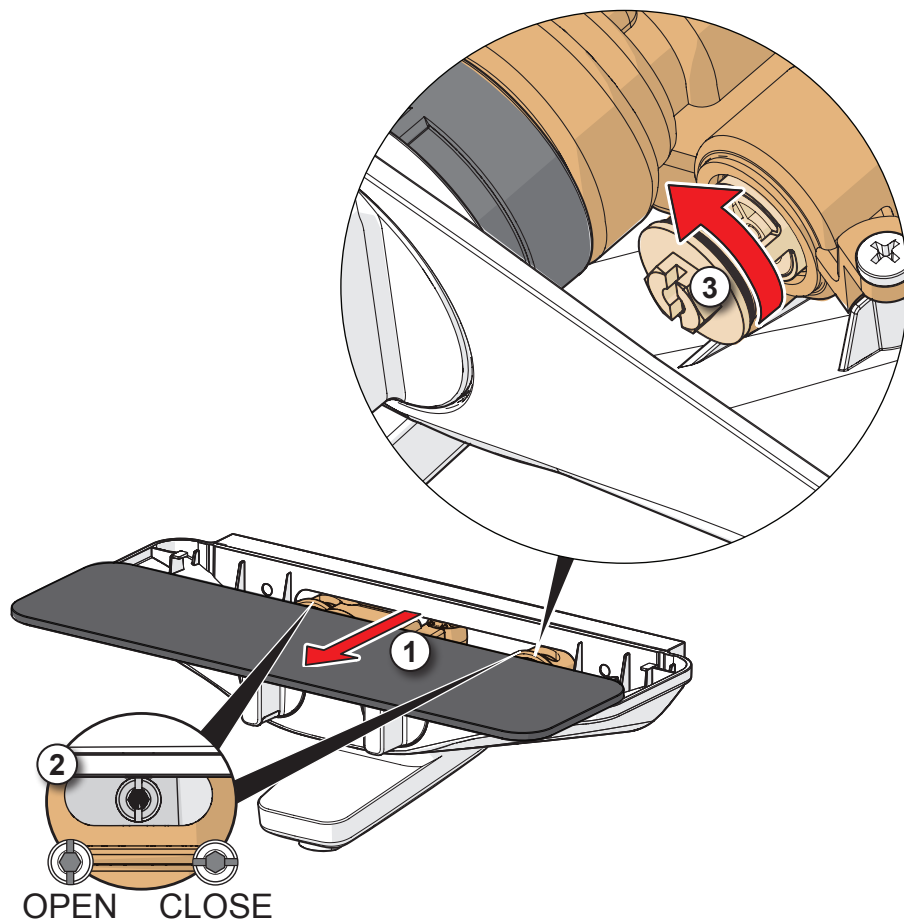
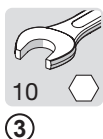


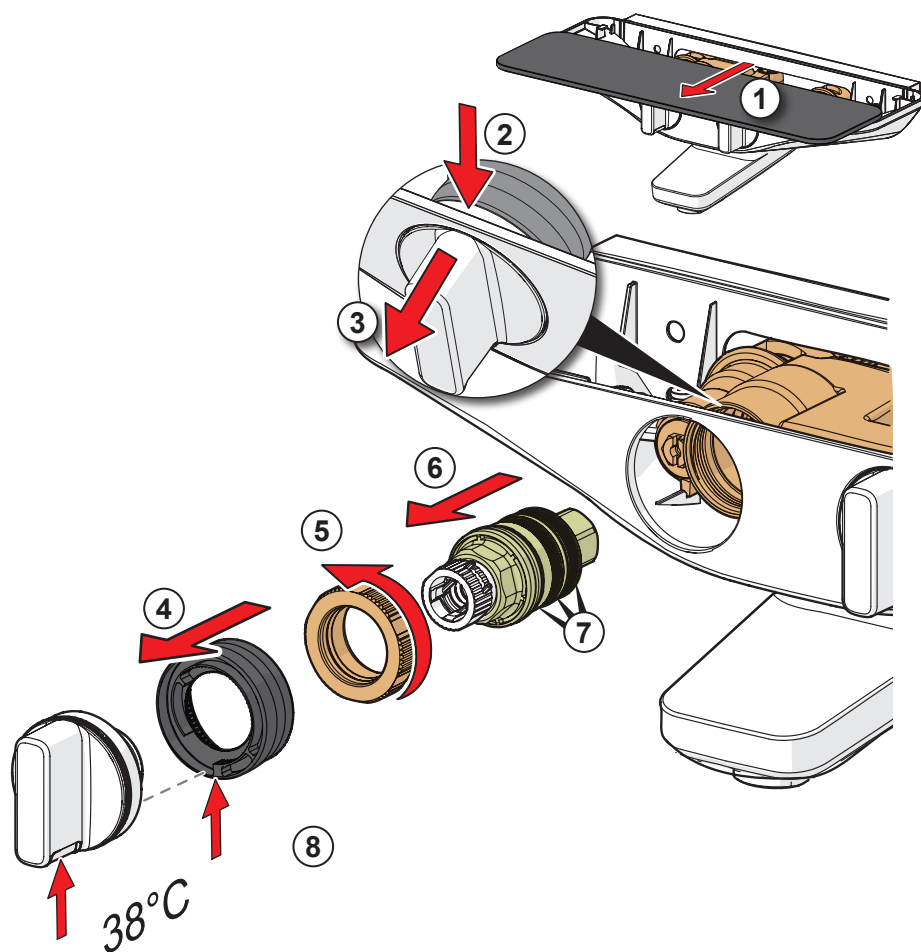
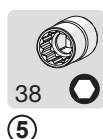
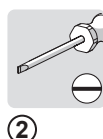
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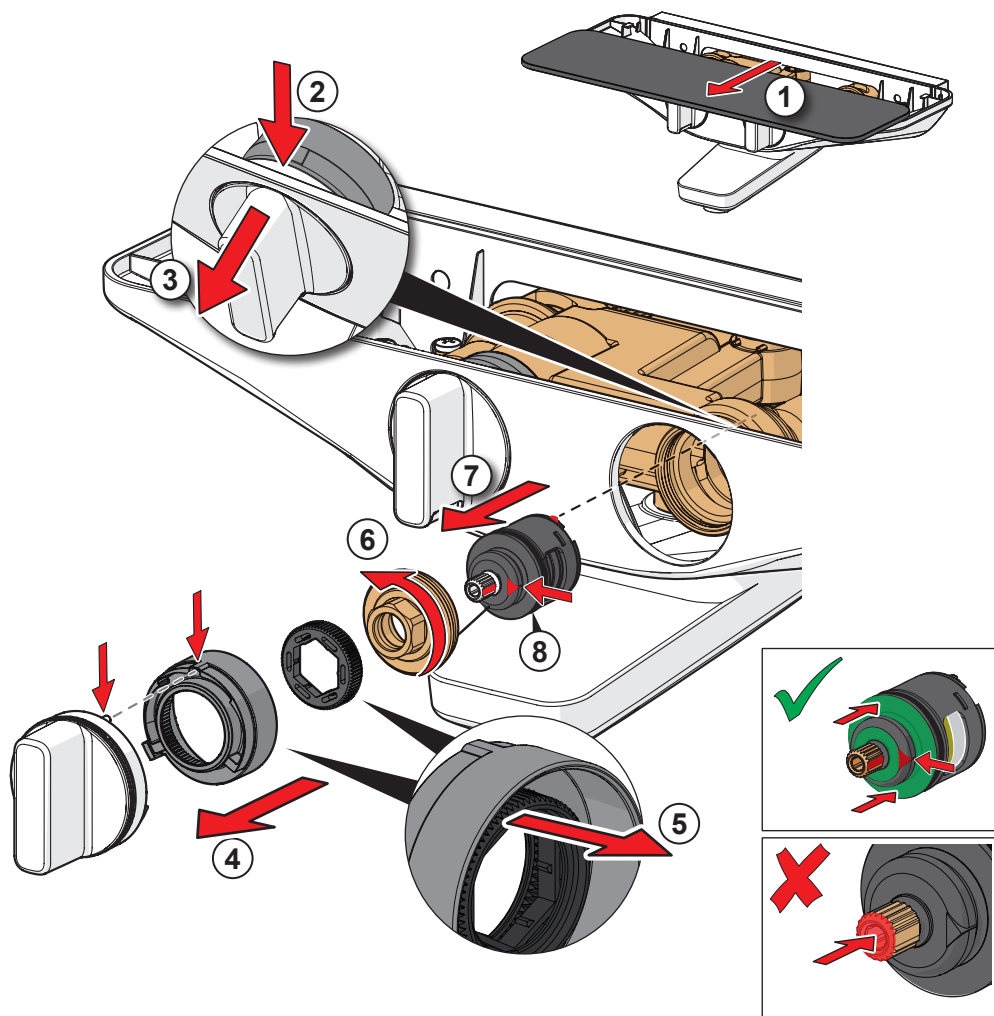
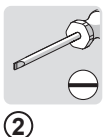


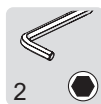
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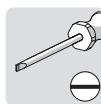




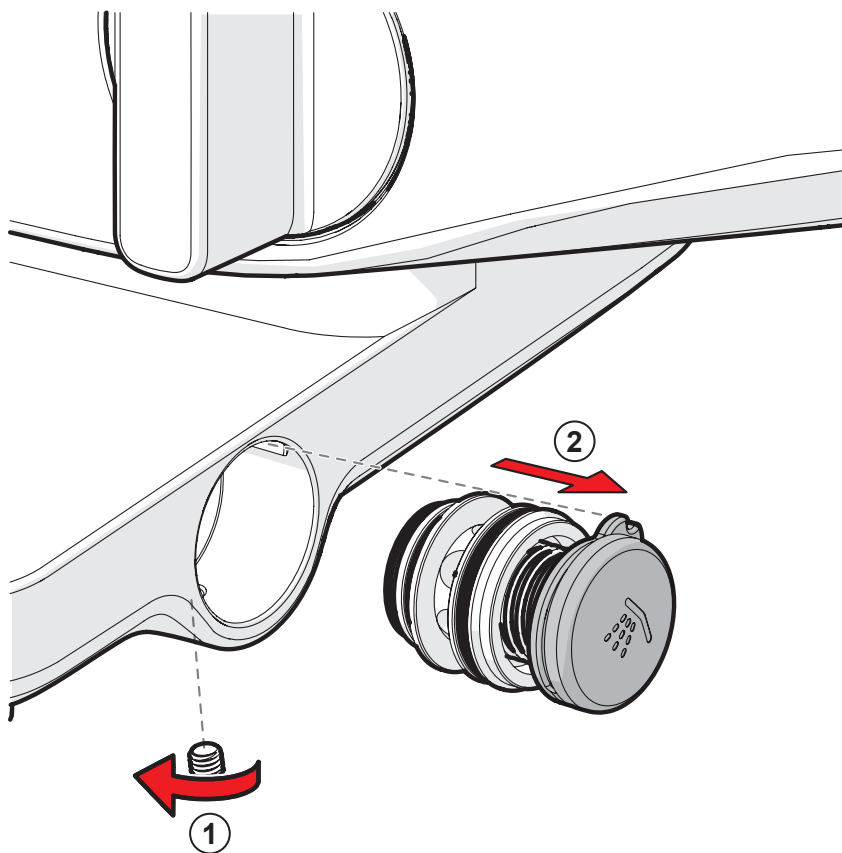




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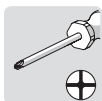


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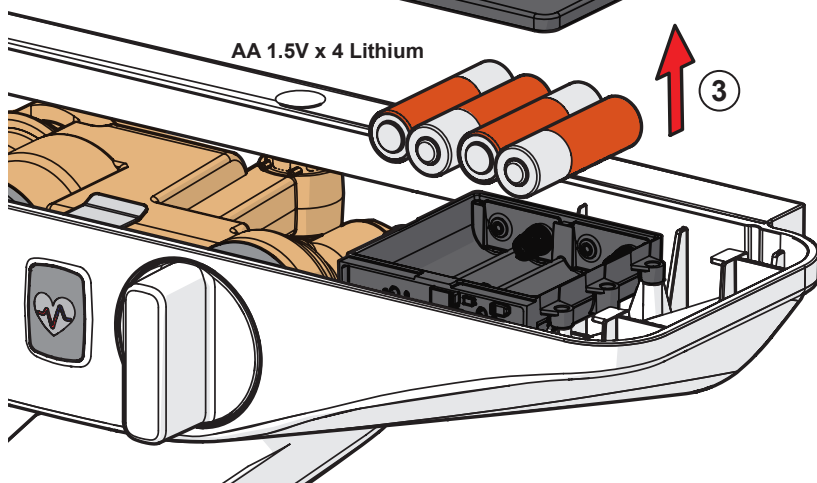
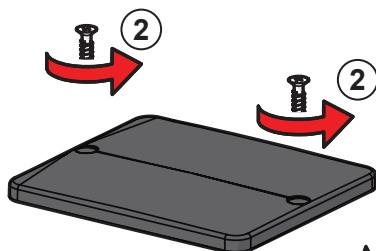
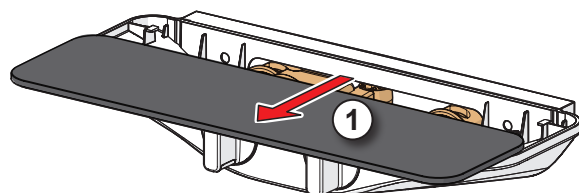
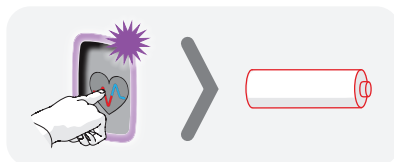


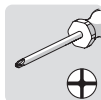


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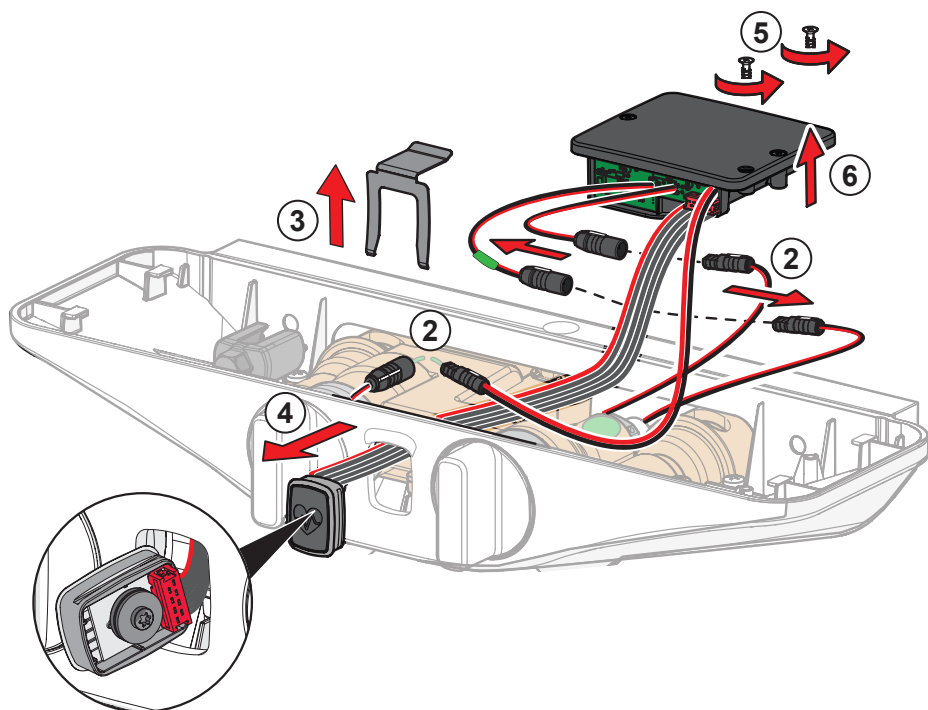
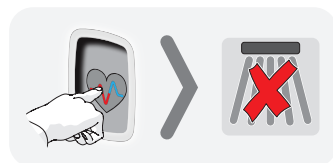
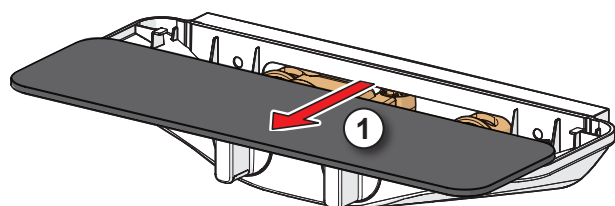




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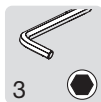
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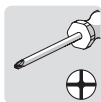




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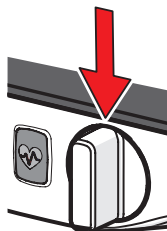


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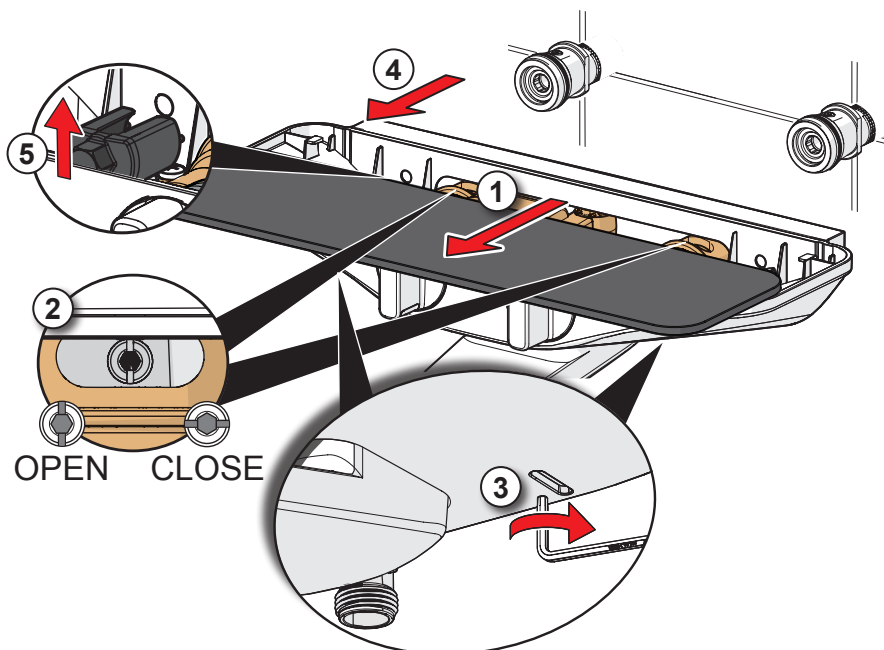


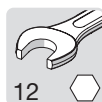
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1



2

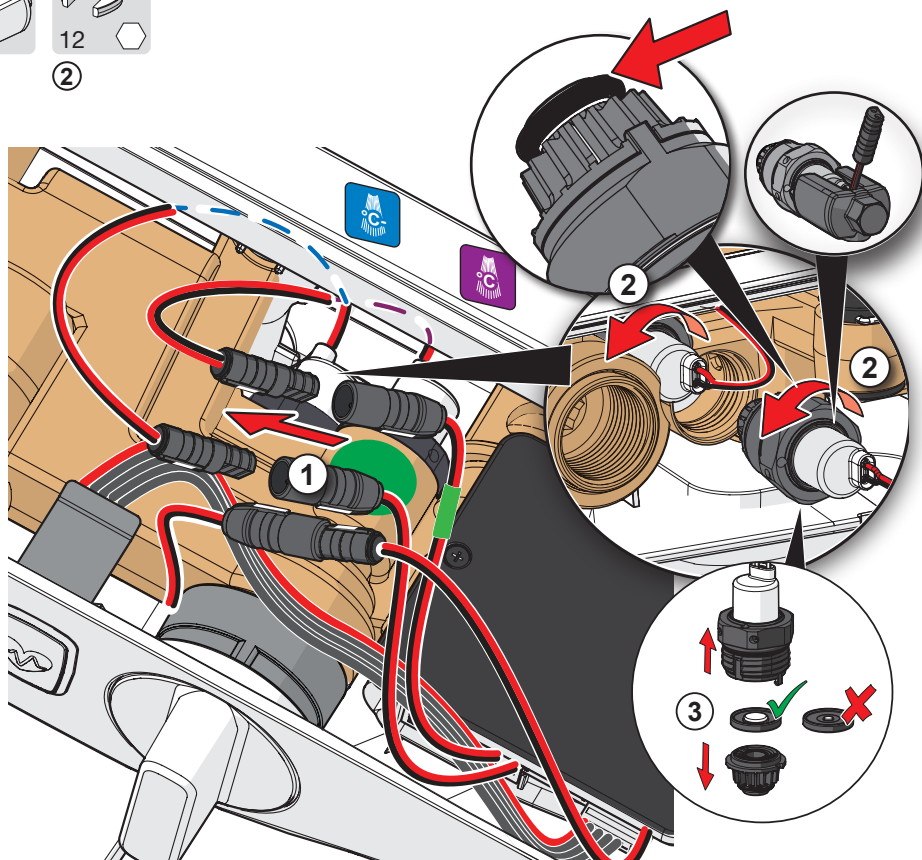




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③



④





#### About Oras Group

Oras Group is a significant European provider of sanitary fittings: the market leader in the Nordics and a leading company in Continental Europe.

The company's mission is to create the smartest water experiences for everyone and its vision is to become the Perfect Flow Company.

The Group has two strong brands, Oras and Hansa. Oras Group is owned by Oras Invest, a family company, and an industrial owner.

The domicile of Oras Ltd, the parent company of the Group, is located in Rauma, Finland, and the Group has three manufacturing sites: Kralovice (Czech Republic), Olesno (Poland) and Rauma (Finland).

The Group operates with its own staff in 17 markets. Oras Group's net sales were 233.5 million euros in 2021 and at the end of the period the company employed 1255 people.

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FI-26101 Rauma  
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[www.oras.com](http://www.oras.com)



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