

# Instant hot water Maximum energy savings



## GRUNDFOS COMFORT 15-14

Product brochure

  
Hot Water  
Recirculation



**GRUNDFOS** 

Possibility in every drop

# Discover Grundfos COMFORT 15-14

COMFORT hot water recirculation pumps are perfect for one- or two-family houses, and can also be installed in multi-family homes depending on the pipe layout. With all components built-in, COMFORT pumps are easy to install.



#### Easy sizing

Small flow rate suitable for small or large houses.



#### Cost-effective

Detachable plug-and-play design, universal head connection.



#### Reliable

Drinking-water certified, dry-run protected.



#### Energy-saving

Timer, temperature and AUTOADAPT smart control.

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- 3 What is hot water recirculation?
- 4 Pump overview
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 COMFORT pumps are made in Germany.

## Reliable pumps from a reliable partner



**20,000 employees**  
in over 60 countries



**Founded**  
in 1945



**15m pumps**  
produced annually



**Over 5% revenue**  
reinvested in R+D

Innovation has always been the driving force behind Grundfos, a world leader in water and pump solutions. For decades our solutions have been setting the standard in energy efficiency, reliability and connectivity.

We take the time to understand your specific requirements to deliver state-of-the-art pumps you can rely on, and take pride in delivering premium quality in everything we do.

With a global presence, we're close to you, wherever you are. With Grundfos, you can be sure of competitive lead times, fair pricing and support from local experts who understand your needs.

Get to know us at [grundfos.com/about-us](https://grundfos.com/about-us)



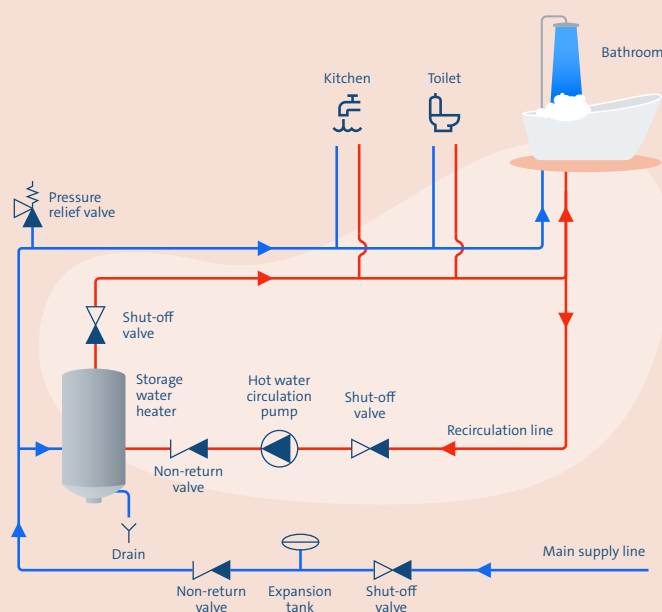




## Instant hot water, instant comfort

A hot water recirculation (HWR) system provides residents with instant access to hot water. A dedicated pump circulates hot water between the taps and water heater, keeping the water hot. This setup requires a dedicated recirculation line within the hot water supply system.

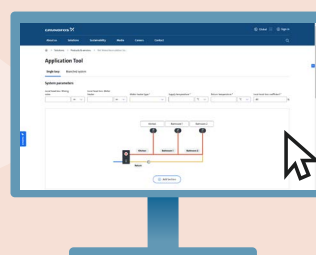
Hot water in pipes gradually loses heat to its surroundings and cools down. When hot water is needed again, the cooled water between the heater and the tap must be drained, wasting time, water, and energy. Additionally, stagnant water can increase the risk of Legionella bacteria due to insufficient sanitization. An HWR system effectively addresses these issues.



## Requirements for HWR circulator pumps

1. Corrosion-resistant materials for water-exposed parts.
2. The ability to maintain hot water temperature by circulating it at an optimal flow rate.
3. Smart operation with intelligent control modes to reduce energy consumption.

Initial data:  
Supply T = 60° C  
Return T = 55° C  
Total L = 70 m











Calculated values:  
Flow (Q) = 0.17 m<sup>3</sup>/h  
Head (H) = 0.52 m  
Heat loss = 953 W

Try our online tool to size an HWR pump!



# Pump overview

								
Product name	COMFORT 15-14 B	COMFORT 15-14 BX	COMFORT 15-14 B T	COMFORT 15-14 BX T	COMFORT 15-14 B TDT	COMFORT 15-14 BX TDT	COMFORT 15-14 B TA	COMFORT 15-14 BX TA
Product no.	97916771	97916772	93093854	93094846	93093537	93093665	97916757	97916749
Pump housing	B	BX	B	BX	B	BX	B	BX
Connection size	Rp ½"	G 1"	Rp ½"	G 1"	Rp ½"	G 1"	Rp ½"	G 1"
Port to port dimensions	80 mm	140 mm	80 mm	140 mm	80 mm	140 mm	80 mm	140 mm
Control modes	<div></div> <div><b>Basic</b></div> <div><ul style="list-style-type: none"><li>Continuous operation</li></ul></div>		<div></div> <div><b>Temperature</b></div> <div><ul style="list-style-type: none"><li>Temperature control mode</li><li>Built-in temperature sensor</li><li>No manual settings required</li><li>Reduces heat losses by 25%</li></ul></div>		<div></div> <div><b>Timer and temperature</b></div> <div><ul style="list-style-type: none"><li>Digital timer 24h</li><li>Minimum time period 30 min</li><li>Adjustable via push button</li><li>Temperature control mode</li><li>Built-in temperature sensor</li><li>Reduces heat losses by 56%</li></ul></div>		<div></div> <div><b>AUTOADAPT</b></div> <div><ul style="list-style-type: none"><li>Learns hot water consumption patterns and operates accordingly</li><li>Temperature control mode</li><li>Built-in temperature sensor</li><li>External temperature sensor</li><li>Vacation mode</li><li>Anti-legionella (desinfection) mode</li><li>No manual settings required</li><li>Reduces heat losses by 67%</li></ul></div>	
Power supply	230 V, 50/60 Hz							
Power connection	1.5 m power cable with plug							



### No need to replace old pump housing

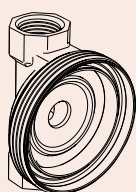
**COMFORT M** is a quick replacement for old motors, fitting the brass housing of any similar pump – old or new – even from other manufacturers such as WILO, VORTEX, LOWARA and DAB. A seal ring is included.




**Product name:** COMFORT 15-14 M

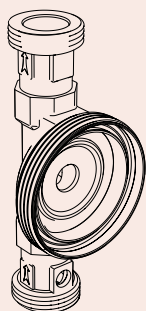
**Product no.:** 93095662




## Accessories

### Pump housing



<b>B – Brass</b>			 2 x
	Shut-off valve	Non-return valve	Fitting set
<b>Connection size</b>	R ½" × Rp ½"	R ½" × Rp ½"	Non-return valve: G 1 × R ½ Shut-off valve: G1 × R ½ Union set: G1 × 15 mm/R ½
<b>Product no.</b>	96433905	96433904	00ID8748



<b>BX – Brass with shut-off and non-return valve</b>	 2 x	 2 x	 2 x
	Union set	Union set	Union set
<b>Connection size</b>	G 1" × R ½"	G 1" × Rp ½"	G 1" × Rp ¾"
<b>Product no.</b>	99415021	92967673	93054545



### Venting flange

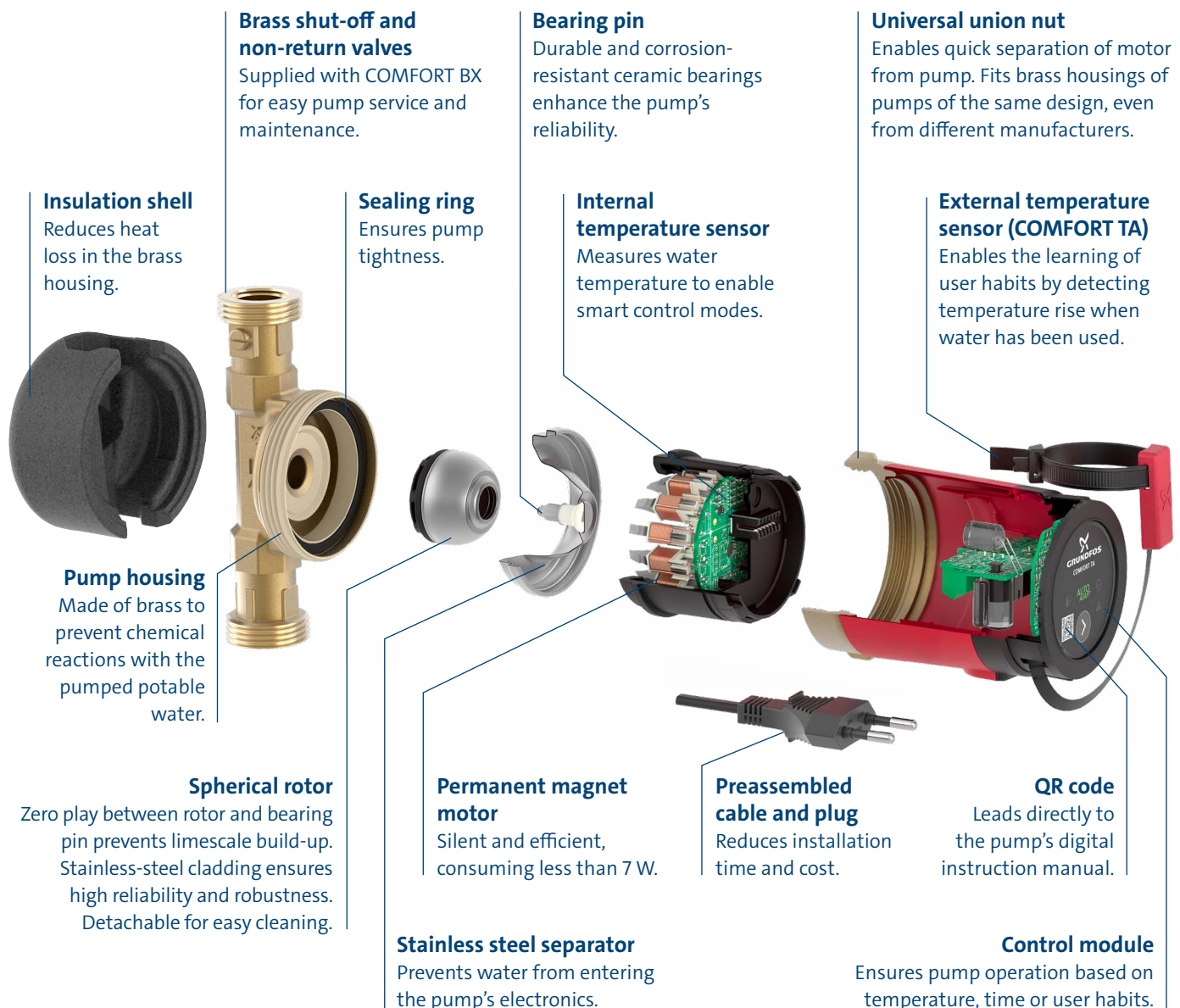
The venting flange removes air from the system without the need for an external air venting valve.

Product no. 96433906



Scan the code to watch a video on how to use it (starting at 3:23).

# Design features



## Prevents pipe erosion and pin holes

Compliant with pipe manufacturers' recommendations on flow velocity limits for 15mm / ½", 20mm / ¾" and other pipe dimensions.

## No clogging

Spherical motor design ensures maximum resistance against blockage caused by lime in water of unlimited hardness.

## Easy installation

Compact design for installation in confined spaces, even with the pump head pointing downwards. The line cord enables quick electrical connection.

## Dry-running protection

Ensures long pump lifetime and hassle-free commissioning.

## Easy maintenance

The detachable design of the head allows cleaning of the pump in no time.

## Reduced cost of installation

Non-return and shut-off valves included in BX variants. An optional venting flange is available, providing a simple way to vent or drain the system without the need to permanently install an additional vent valve or hose bib.

## Universal replacement

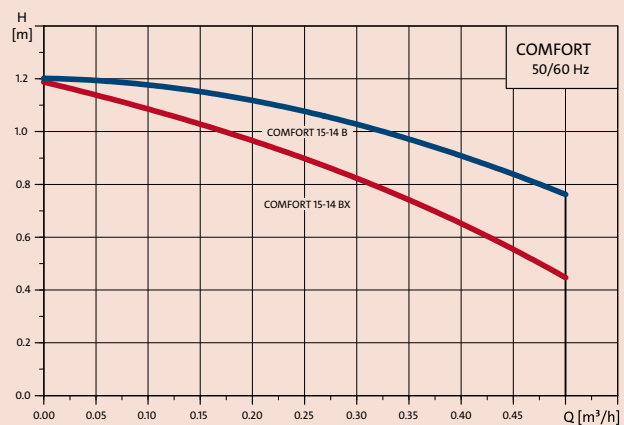
Pump head designed to fit all brass pump housings of old and new pumps of the same design from different brands.

## Technical data

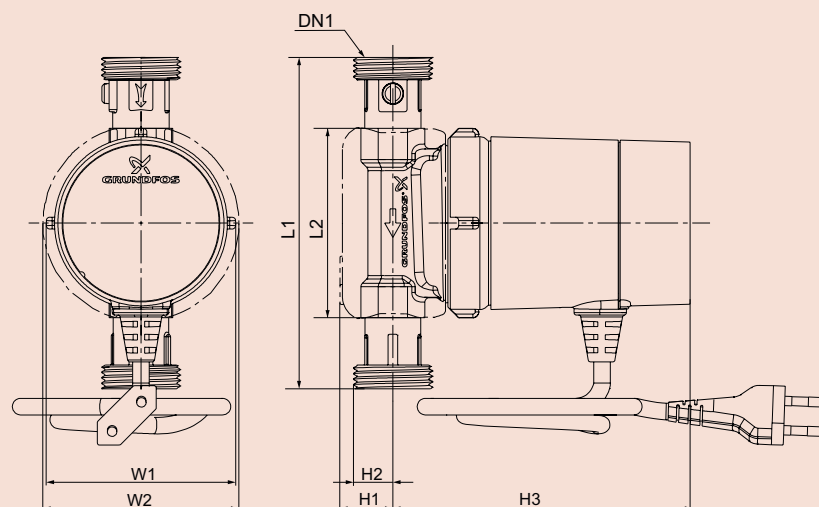
Supply voltage	1 × 230 V, 50/60 Hz
Power consumption	5-7 W
Appliance class	Double insulated
Enclosure class	IP44
Max. liquid temperature	95 °C
Max. outlet pressure	10 bar
Min. inlet pressure	0.05 bar
Pump housing	Brass
Water hardness	Unlimited
Sound level	≤ 22 dB(A)

Drinking water approvals: UBA, WRAS, ACS  
Safety approvals: CE, VDE

## Performance curves



## Dimensions



	Dimensions [mm]								Weights [kg]		
Pump type	L1	L2	H1	H2	H3	W1	W2	DN1	Net	Gross	
COMFORT 15-14 BX	140	-	25	21	119	79.5	84	G1"	1.14	1.24	
COMFORT 15-14 BX T	140	-								1.14	1.24
COMFORT 15-14 BX TDT	140	-								1.14	1.24
COMFORT 15-14 BX TA	140	-								1.18	1.28
COMFORT 15-14 B	-	80		13.5	119			Rp½"		0.94	1.04
COMFORT 15-14 B T	-	80								0.98	1.08
COMFORT 15-14 B TDT	-	80								0.94	1.04
COMFORT 15-14 B TA	-	80								0.98	1.08
COMFORT 15-14 M	-	-	25	-	-	79.5	-		-	0.56	0.66

# Energy-saving control modes

Each pump in the COMFORT range is designed to provide maximum comfort with minimised energy consumption. Selecting the right one is as simple as determining which control mode suits each household's needs.

Compared to continuous operation, different control modes can reduce circulation heat energy losses.



## COMFORT


**Continuous operation 24/7:** Best for homes where local regulations require 24/7 operation, or where external control is provided by a water heater, timer, or other smart home technology.

Recirculation heat energy losses

 950 kWh

## COMFORT T

**Temperature control:** Best for homes with no specific daily schedule, some energy concerns and focused on comfort. No manual settings required.

 712 kWh



25%

## COMFORT TDT

**Timer & temperature control:** Best for homes with a specific time schedule and strong desire to reduce energy usage. Requires manual timer settings.

 418 kWh



56%

## COMFORT TA

**AUTOADAPT control:** Best for homes where the daily schedule is not easy to define, and the family wishes to maximise energy savings.

 313 kWh



67%  
Heat energy saved



## One year payback time

### COMFORT TA pays for itself

The extra cost of a COMFORT TA pump is paid back through energy savings in about 1.25 years.

\* Average annual energy saving of €80, calculated on the basis of the annual average consumption of a one-family household and average prices of €0.11/kWh for gas heating and €0.39/kWh for electricity. The average price differential between a COMFORT (operating continuously) and COMFORT TA (operating with AUTOADAPT technology) pump is around €100.



# Universal motor

Our universal permanent magnet motors are designed to fit all standard pump housings on the market. Built on the spherical motor principle, every motor is equipped with ECM technology for maximum efficiency.

## A perfect fit for any pump housing

No matter the manufacturer.

- Quick replacement for old motors
- No need to replace old pump housing
- Seal ring included



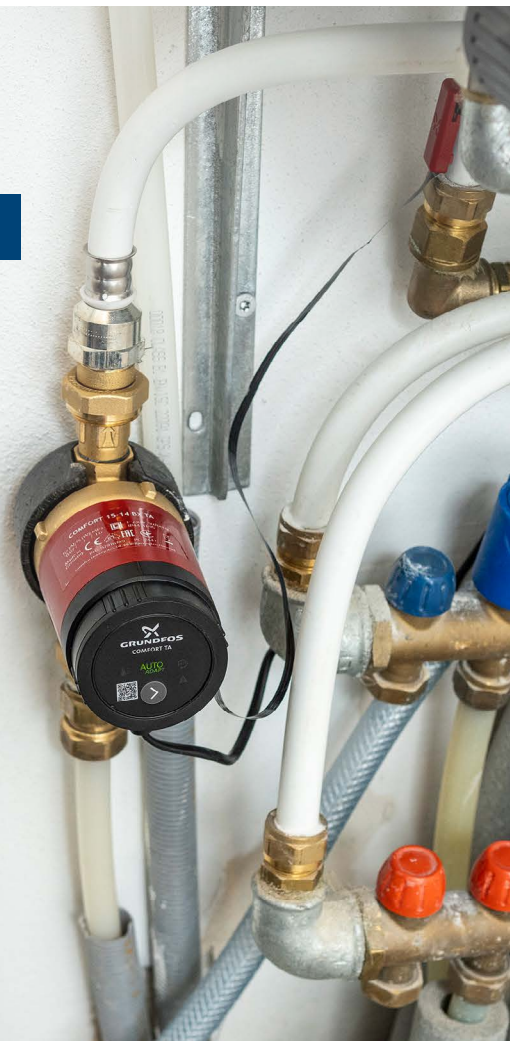
Can directly replace: Grundfos | WILO | LOWARA | VORTEX | Other brands

## Now with digital manual

### Less paper and always to hand

With COMFORT pumps, you can now read digital operating instructions directly on your smartphone. No app required.

Simply scan the QR code on the front of the control module and get instant access to the chapter overview. Always with you, always up to date.



# Replacement guide

Find the equivalent COMFORT model to replace an existing pump. If the existing pump housing remains intact, the pump can be replaced simply by switching the pump head (motor).

Grundfos	Port-to Port [mm]	Inlet connection [inch]	Notes	Grundfos	Port-to Port [mm]	Inlet connection [inch]
UP 15-13 B	86	Rp ½	2	COMFORT 15-14 B	80	Rp ½
UP 15-13 BU	86	Rp ½	1, 2	COMFORT 15-14 B TDT	80	Rp ½
UP 15-13 BX	130	G 1	2	COMFORT 15-14 BX	140	G 1
UP 15-13 BXU	130	G 1	1, 2	COMFORT 15-14 BX TDT	140	G 1
UP 15-14 B	80	Rp ½		COMFORT 15-14 B	80	Rp ½
COMFORT/UP/UPS 15-14 B PM	80	Rp ½		COMFORT 15-14 B	80	Rp ½
COMFORT 15-14 BX PM	140	G 1		COMFORT 15-14 BX	140	G 1
COMFORT 15-14 BU PM	80	Rp ½	1	COMFORT 15-14 B TDT	80	Rp ½
COMFORT 15-14 BXU PM	140	G 1	1	COMFORT 15-14 BX TDT	140	G 1
COMFORT/UP 15-14 BA PM	80	Rp ½		COMFORT 15-14 B TA	80	Rp ½
COMFORT/UP 15-14 BXA PM	140	G 1		COMFORT 15-14 BX TA	140	G 1
UP 15-14 BT	80	Rp ½		COMFORT 15-14 B T	80	Rp ½
UP 15-14 BU	80	Rp ½	1	COMFORT 15-14 B TDT	80	Rp ½
UP 15-14 BUT	80	Rp ½		COMFORT 15-14 B TDT	80	Rp ½
UP/UPS 20-14 BX	110	G 1 ¼	2	COMFORT 15-14 BX	140	G 1
UP 20-14 BXA	110	G 1 ¼	2	COMFORT 15-14 BX TA	140	G 1
UP 20-14 BXT	110	G 1 ¼	2	COMFORT 15-14 BX T	140	G 1
UP 20-14 BXU	110	G 1 ¼	1, 2	COMFORT 15-14 BX TDT	140	G 1
UP 20-14 BXUT	110	G 1 ¼	2	COMFORT 15-14 BX TDT	140	G 1

Wilo	Port-to Port [mm]	Inlet connection [inch]	Notes	Grundfos	Port-to Port [mm]	Inlet connection [inch]
Star-Z 15	84	Rp ½	2	COMFORT 15-14 B	80	Rp ½
Star-Z 15 A	138	G 1	2	COMFORT 15-14 BX	140	G 1
Star-Z 15 C	138	G 1	1, 2	COMFORT 15-14 BX TDT	140	G 1
Star Z 15 TT	138	G 1	2	COMFORT 15-14 BX TDT	140	G 1
Star-Z NOVA	84	Rp ½	2	COMFORT 15-14 B	80	Rp ½
Star-Z NOVA A	138	G 1	2	COMFORT 15-14 BX	140	G 1
Star-Z NOVA C	138	G 1	1, 2	COMFORT 15-14 BX TDT	140	G 1
Star-Z NOVA T	138	G 1	2	COMFORT 15-14 BX TDT	140	G 1

Lowara	Port-to Port [mm]	Inlet connection [inch]	Notes	Grundfos	Port-to Port [mm]	Inlet connection [inch]
PRO 15-1/65	65	Rp ½	2	COMFORT 15-14 B	80	Rp ½
PRO 15-1/65 R	65	Rp ½	2	COMFORT 15-14 B T	80	Rp ½
PRO 15-1/65 RU	65	Rp ½	2	COMFORT 15-14 B TDT	80	Rp ½
PRO 15-1/65 U	65	Rp ½	1, 2	COMFORT 15-14 B TDT	80	Rp ½
PRO 15-1/110	110	G 1 ¼	2	COMFORT 15-14 BX	140	G 1
PRO 15-1/110 R	110	G 1 ¼	2	COMFORT 15-14 BX T	140	G 1
PRO 15-1/110 RU	110	G 1 ¼	2	COMFORT 15-14 BX TDT	140	G 1
PRO 15-1/110 U	110	G 1 ¼	1, 2	COMFORT 15-14 BX TDT	140	G 1

## Notes

- 1 The COMFORT replacement will provide additional control modes.
- 2 Pump housing replacement will require adjustments in the pipework. Otherwise, the pump heads can simply be switched.

Vortex	Port-to Port [mm]	Inlet connection [inch]	Notes	Grundfos	Port-to Port [mm]	Inlet connection [inch]
BW 150 Rp ½" oT	90	Rp ½	2	COMFORT 15-14 B	80	Rp ½
BW 150 Rp ½" KT (NTT)	90	Rp ½	2	COMFORT 15-14 B T	80	Rp ½
BW 150 V oT	150	G 1 ¼	2	COMFORT 15-14 BX	140	G 1
BW 150 V KT (NTT)	150	G 1 ¼	2	COMFORT 15-14 BX T	140	G 1
BW 150 V RT	150	G 1 ¼	2	COMFORT 15-14 BX T	140	G 1
BW 151 Rp ½" EKT	80	Rp ½		COMFORT 15-14 B T	80	Rp ½
BW 151 V EKT	110	G 1 ¼	2	COMFORT 15-14 BX T	140	G 1
BW 152 Rp ½" oT	80	Rp ½		COMFORT 15-14 B	80	Rp ½
BW 152 Rp ½" KT	80	Rp ½		COMFORT 15-14 T	80	Rp ½
BW 152 V oT	110	G 1 ¼	2	COMFORT 15-14 BX	140	G 1
BW 152 V KT	110	G 1 ¼	2	COMFORT BX T	140	G 1
BW 153 Rp ½" ERT	80	Rp ½		COMFORT 15-14 B T	80	Rp ½
BW 153 V ERT	110	G 1 ¼	2	COMFORT 15-14 BX T	140	G 1
BWM 153 (+) Rp ½"	80	Rp ½		COMFORT 15-14 B TA	80	Rp ½
BWM 153 (+) V	110	G 1 ¼	2	COMFORT 15-14 BX TA	140	G 1
BW-SL 154 Rp ½"	80	Rp ½		COMFORT 15-14 B TA	80	Rp ½
BW-SL 154 V	110	G 1 ¼	2	COMFORT 15-14 BX TA	140	G 1
BWZ 150 Rp ½" oT	90	Rp ½	1, 2	COMFORT 15-14 B TDT	80	Rp ½
BWZ 150 Rp ½" KT (NTT)	90	Rp ½	2	COMFORT B TA	80	Rp ½
BWZ 150 V oT	150	G 1 ¼	1, 2	COMFORT 15-14 BX TDT	140	G 1
BWZ 150 V KT (NTT)	150	G 1 ¼	2	COMFORT 15-14 BX TA	140	G 1
BWZ 150 V RT	150	G 1 ¼	2	COMFORT 15-14 BX TA	140	G 1
BWZ 151 Rp ½" EKT	80	Rp ½		COMFORT 15-14 B TA	80	Rp ½
BWZ 151 V EKT	110	G 1 ¼	2	COMFORT BX TA	140	G 1
BWZ 152 Rp ½" oT	80	Rp ½	2	COMFORT B TDT	80	Rp ½
BWZ 152 Rp ½" KT	80	Rp ½		COMFORT B TA	80	Rp ½
BWZ 152 V oT	110	G 1 ¼	1, 2	COMFORT BX TDT	140	G 1
BWZ 152 V KT	110	G 1 ¼	2	COMFORT BX TA	140	G 1
BWZ 153 Rp ½" oT (KT)	80	Rp ½		COMFORT B TA	80	Rp ½
BWZ 153 V oT (KT)	110	G 1 ¼	2	COMFORT BX TA	140	G 1
BWO 155 R	80	Rp ½		COMFORT 15-14 B	80	Rp ½
BWO 155 V	110	G 1 ¼	2	COMFORT 15-14 BX	140	G 1
BWO 155 R ERT	80	Rp ½		COMFORT 15-14 B T	80	Rp ½
BWO 155 V ERT	110	G 1 ¼	2	COMFORT 15-14 BX T	140	G 1
BWO 155 R ZM	80	Rp ½	1	COMFORT 15-14 B TDT	80	Rp ½
BWO 155 V ZM	110	G 1 ¼	1, 2	COMFORT 15-14 BX TDT	140	G 1
BWO 155 R Z	80	Rp ½	1	COMFORT 15-14 B TDT	80	Rp ½
BWO 155 V Z	110	G 1 ¼	1, 2	COMFORT 15-14 BX TDT	140	G 1
BWO 155 R SL	80	Rp ½	1	COMFORT 15-14 B TA	80	Rp ½
BWO 155 V SL	110	G 1 ¼	1, 2	COMFORT 15-14 BX TA	140	G 1

**Data Booklet**

Get full details and specifications of the COMFORT range.

**Sizing tool**

Try our online tool to size an HWR pump for your system!

**Grundfos Product Center**

Discover more about the COMFORT pumps in our online product center.

**Ecademy course**

Watch videos and learn about benefits and how to install COMFORT pumps.