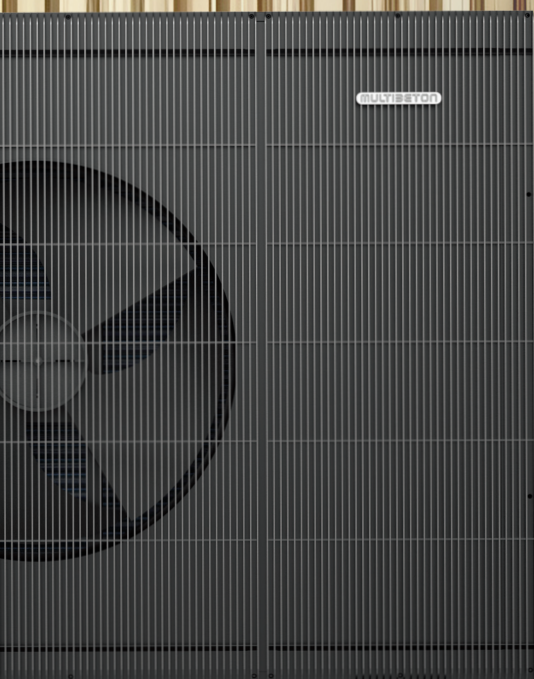


<b>Heat pumps &amp; hydraulic station</b> The outdoor and indoor units	<b>01 - 02</b>
<b>System storage</b> for heating, hot water, and domestic water	<b>03</b>
<b>Pump groups</b> Heat and cooling distribution	<b>04 - 05</b>
<b>Pump group accessories</b> Accessories for heat and cooling distribution	<b>06</b>
<b>Water treatment</b> for cooling water and heating water circuits	<b>07 - 08</b>
<b>Outdoor/indoor connections</b> Floor pipes and accessories	<b>09</b>
<b>Additional accessories</b>	<b>10</b>







**Warmondo WM-S und WM-M**

Warmondo air-to-water heat pumps from MULTIBETON achieve the same efficiency levels in buildings with radiators as other air-to-water heat pumps in new buildings with underfloor heating. This is ensured by various technical refinements and innovations:

- Innovative optimisation of fluid dynamics
- Double structure-borne sound decoupling
- Pressure-loss-optimised evaporator geometry
- Demand-based and predictive speed control (inverter)

The natural refrigerant propane (R290) used in the Warmondo heat pump is characterised by its excellent environmental profile and extremely low carbon footprint. It fully complies with the environmental requirements of the F-Gas Regulation.



**Warmondo WM-L und WM-XL**

<b>WP000061-1</b>	<b>Warmondo WM-S</b>	6 kW
<b>WP000091-1</b>	<b>Warmondo WM-M</b>	9 kW
<b>WP000133-1</b>	<b>Warmondo WM-L</b>	13 kW
<b>WP000163-1</b>	<b>Warmondo WM-XL</b>	16 kW

Scope of Delivery: Installation manual, energy label, vibration dampers, drain flange, carrying strap incl. mounting material;



**Warmondo WM-HDS**

The hydraulic station is equipped with a touch controller, additional flow control components, a 3-way valve and sensors. The hydraulic station allows for direct connection to the heating system and optimises the hydraulic balancing of the entire system. Its modular design enables high installation flexibility, reduced installation effort, and system-optimised flow control.

<b>WP000013-1</b>	<b>Warmondo WM-HDS</b>	9 kW
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### Technical Specifications

#### Heat pump

Performance rating (A2/W35)  
 Rated heating capacity (EN 14511)  
 SCOP (EN 14825)  
 Energy efficiency class (EN 14825)  
 Sound pressure level at 1 m

#### Heating

Heating capacity (A2/W35)  
 Power consumption  
 Operating current  
 Max. power consumption  
 Max. operating current  
 Max. supply water temperature  
 Outdoor temperature

Power supply  
 Nominal water flow rate  
 Compressor  
 Circulation pump  
 Water heat exchanger  
 Air heat exchanger  
 Fan/fan motor  
 Controller

Refrigerant  
 Supply/return connections  
 Protection rating  
 Protection class  
 Net weight  
 Unit dimensions (L x W x H)

#### Cooling

Cooling capacity  
 Power consumption  
 Operating current  
 EER

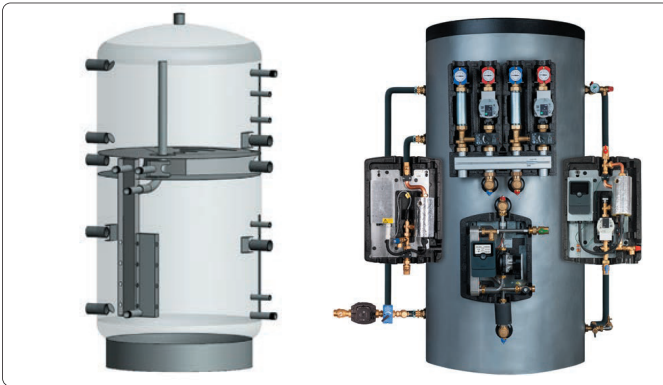
	WM-S	WM-M	WM-L	WM-XL
Performance rating (A2/W35)	6 kW	9 kW	13 kW	16 kW
Rated heating capacity (EN 14511)	4.9 kW	7.1 kW	10.0 kW	12.9 kW
SCOP (EN 14825)	5.08	5.05	5.05	5.07
Energy efficiency class (EN 14825)	A+++/A++			
Sound pressure level at 1 m	31 dB(A)	38 dB(A)	39 dB(A)	38 dB(A)
Heating capacity (A2/W35)	5.97 kW	8.48 kW	12.76 kW	15.28 kW
Power consumption	1.51 kW	2.20 kW	3.30 kW	4.04 kW
Operating current	6.67 A	9.40 A	4.83 A	5.93 A
Max. power consumption	2.80 kW	4.50 kW	5.40 kW	5.80 kW
Max. operating current	14.40 A	19.80 A	8.25 A	8.90 A
Max. supply water temperature	75 °C			
Outdoor temperature	-25 to +43 °C			
Power supply	230 V/1~/50 Hz	230 V/1~/50 Hz	400 V/3~/50 Hz	400 V/3~/50 Hz
Nominal water flow rate	1.03 m <sup>3</sup> /h	1.55 m <sup>3</sup> /h	2.20 m <sup>3</sup> /h	2.75 m <sup>3</sup> /h
Compressor	MITSUBISHI® reciprocating compressor			
Circulation pump	Wilo® Para direct current			
Water heat exchanger	Brazen plate heat exchanger (BPHE)			
Air heat exchanger	Copper tube heat exchanger with aluminum fins (CTAFC)			
Fan/fan motor	Axial/DC			
Controller	7-inch IPS 600×1024 color touchscreen display			
Refrigerant	R290			
Supply/return connections	5/4"			
Protection rating	IPX4			
Protection class	I			
Net weight	146 kg	160 kg	205 kg	212 kg
Unit dimensions (L x W x H)	1,102 × 557 × 1,021 mm		1,377 × 557 × 1,021 mm	
Cooling capacity	4.91 kW	6.96 kW	9.13 kW	11.80 kW
Power consumption	1.60 kW	2.23 kW	2.99 kW	3.78 kW
Operating current	7.03 A	9.79 A	4.55 A	5.81 A
EER	4.32	4.31	4.34	4.38

#### Hydraulic station

Max. heating capacity  
 Power supply  
 Max. operating current  
 Max. flow temperature  
 Connections for supply/return  
 Connections for domestic hot water  
 Connections for heating water  
 Sound pressure level at 1 m  
 Unit dimensions (L x W x H)  
 Net weight  
 Protection rating  
 Protection class

#### WM-HDS

9 kW  
 400 V/3~/50 Hz  
 13.7 A  
 75 °C  
 5/4"  
 1"  
 1"  
 30 dB(A)  
 418 × 310 × 750 mm  
 35 kg  
 IPX1  
 I



**tubra®-system storage**

The all-in-one storage tank for heating, hot water, PV heat, heat pumps, biomass, and solar. Various heat generators can be connected to this universal system storage tank. It is ideally suited for hybrid heating systems combining conventional heat generators and heat pumps.

- System reliability with optimal energy utilization thanks to a stratified flow-through chimney for the heating circuit return
- Power-to-heat stratified charging – the storage tank is 100% stratified
- Space-saving installation
- Low installation effort due to internal piping
- Optimally coordinated components

<b>WP010000.500</b>	<b>tubra system storage PFW 500</b>	480 l
<b>WP010000.800</b>	<b>tubra system storage PFW 800</b>	718 l
<b>WP010000.1000</b>	<b>tubra system storage PFW 1000</b>	887 l



**tubra®-WP-DUO 300/100**

Power center for heat pump systems

- No mixing thanks to the separation of hot water and heating buffers, ensuring high annual performance factors for the heat pump
- Hot water heating via a fresh water station, providing high hot water comfort and hygiene at a buffer temperature of just 50 °C
- Hot water protection zone for consistently high hot water comfort via a stratification plate
- Compact design and low weight

<b>WP010010</b>	<b>tubra WP-Duo 300/100</b>	306 l/95 l
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**Heat Pump Cold Buffer Tank WPPS**

The WPPS is a compact, robust buffer tank developed specifically for use with heat pumps. It combines cost-effectiveness, functionality and a well-thought-out design – ideal for stable hydraulics and efficient operation of the heat pump system.

- Inner tank made of sheet steel St 37
- Operating pressure: 6 bar (for WPPS 130: 3 bar)
- PU insulation: 50 mm direct-foamed polyurethane foam
- Outer casing: Powder-coated sheet steel, silver-grey
- Flange: Ø 180 mm with mounted blind flange + insulating cap (e.g. for finned tube heat exchanger or built-in heater)
- 6/4" socket for installation of an electric heater or additional connections
- Male thread connections and reinforced outer casing by flanging
- For cooling operation (cold buffer): connection area and flange must be insulated in a diffusion-tight manner on site

<b>WP010100</b>	<b>WPPS Cold Buffer Tank 130</b>	130 l
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**tubra®-PGR pump unit without mixer**

With wall mount, 35 kW ( $\Delta T$  10 K), 70 kW ( $\Delta T$  20 K)

- WPO20000**            **tubra PGR DN 25** with Wilo Para 25/6 SCU
- WPO20010**            **tubra PGR DN 32** with Wilo Para 25/8 SCU



**tubra®-PGM pump unit with mixer**

With 3-way mixer, constant-temperature control, and wall mount  
 $k_{vs}$  8: 35 kW ( $\Delta T$  10 K), 70 kW ( $\Delta T$  20 K)

- WPO20100**            **tubra PGM DN 25** with Wilo Para 25/6 SCU
- WPO20110**            **tubra PGM DN 32** with Wilo Para 25/8 SCU



**tubra®-PGR pump unit with mixer & magnetic separator**

With wall mount, 35 kW ( $\Delta T$  10 K), 70 kW ( $\Delta T$  20 K)

- WPO20200**            **tubra PGR D DN 25**  
with Wilo Para 25/6 SCU
- WPO20210**            **tubra PGR D DN 32**  
with Wilo Para 25/8 SCU



**tubra®-nemux S/M**

Electronically controlled fresh water station with many options, such as circulation programs, cascade function with up to 4 stations, and hygiene programs.

- WPO21000**            **tubra nemux S** 70 kW, copper
- WPO21001**            **tubra nemux S VE** 70 kW, stainless steel
- WPO21010**            **tubra nemux M** 100 kW, copper
- WPO21011**            **tubra nemux M VE** 100 kW, stainless steel



**tubra®-Zirku-Set**

Circulation kit with circulation pump, shut-off ball valve, flushing valve, gravity brake, and immersion sleeve, including a Pt1000 temperature sensor.

**WPO21090 tubra Zirku-Set with Wilo Para Z**



**tubra®-eTherm C 3/C 9**

3 kW or 9 kW electric boiler with target temperature control and a reheating thermostat for use as an external buffer tank charger powered by electricity. Can be used as a 3 kW or 9 kW Power-to-Heat hydraulic module for external power electronics such as Fronius Ohmpilot, my-PV AC: Thor, Elios4You, SMA Sunny Home Manager, and others.

**WPO22000 tubra eTherm C 3 3 kW**  
**WPO22030 tubra eTherm C 9 9 kW**



**tubra®-eTherm S**

Set consisting of power electronics, a sensor unit including current clamps, and a 3 kW electric heating element

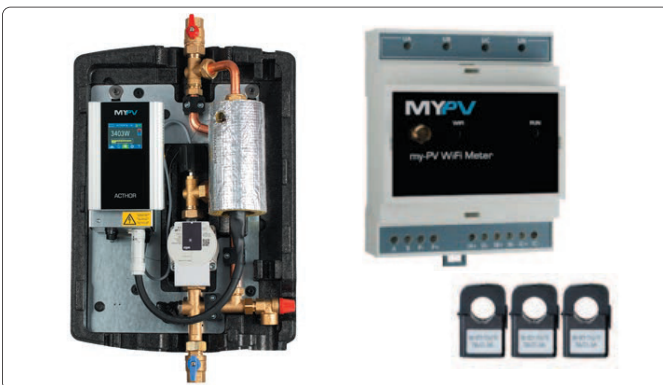
**WPO22010 tubra eTherm S**



**tubra®-eTherm P**

Hydraulic unit with integrated control and modulating power electronics, featuring a sensor unit for measuring excess photovoltaic power for thermal storage in buffer tanks. Internal heating capacity: 0 – 3 kW, expandable to 12 kW with external heating units

**WPO22020 tubra eTherm P**



**tubra®-eTherm AC·THOR 9s**

The tubra®-eTherm AC·THOR 9s is a hydraulic unit with integrated control. Using my-PV's AC·THOR 9s power electronics, it converts excess photovoltaic power into heat and stores the energy generated to optimize self-consumption.

**WPO22040 tubra eTherm AC·THOR 9s**

**my-PV WiFi Meter**

Analyses the energy flows of the system and transmits the information on excess power to the photovoltaic power manager AC·THOR 9s. Incl. 3 clamp-on current transformers up to 3 x 75 A (52 kW).

**WPO22041 my-PV Wifi Meter**



**tubra®-VM St DN 25**  
Steel manifold, closed design for up to 5 heating circuits, DN 25, center-to-center distance 125 mm, compatible with tubra®-PGM/PGR with zinc-lamella coating  
**WP040000 VM St DN 25**



**tubra®-Corner ball valve**  
Single unit, includes insulation sleeve, wing handles in red and blue  
**WP040010 Corner ball valve**



**tubra®-Corner ball valve set**  
Inlet G1 - Outlet G1  
**WP040100 Corner ball valve set**



**Storage tank connection set**  
For direct installation on the system storage tank  
**WP040150 Storage tank connection set**



**tubra®-mag-jet**  
Magnetite separators for retrofitting pump units  
**WP040200 MAG-jet DN 20**



**tubra®-mag-jet Replacement magnetic chain**  
For installation in mag-jet DN 20/25 and hydraulic diverters DN 25/32  
**WP040201 Replacement magnetic chain**



**tubra®-aero-fix**  
System vent for fresh water buffer tanks and system storage tanks; connects to the top center of the system storage tank; includes a reducer for a G1 1/4 female thread  
**WP040202 Aero-fix**



**tubra®-Security Group**  
Includes shut-off ball valve, pressure gauge, and 3-bar safety valve  
**WP040203 Security Group**



**tubra®-MAG connection**  
Cross fitting with shut-off ball valve, boiler filling and drain valve, and expansion tank connection  
**WP040204 MAG connection**



**elector Test kit**

The measurement kit for on-site analysis of heating and cooling water for pH, electrical conductivity, and total hardness.

- Reliable measurement results with simple and intuitive operation.
- Complies with the functional recommendations of VDI Guideline 2035 for heating water analysers.
- Determination of total hardness using a proven drop test.
- Robust pH sensor, calibratable with buffer solutions pH 7.00 and pH 10.00, in accordance with guideline requirements.
- Sturdy conductivity sensor, low-maintenance and easy to calibrate.
- Measurement display with automatic temperature compensation.
- Functional plastic case with contoured foam to protect all parts during storage and transport.

**WP030000 elector Test kit**  
includes MP-7 combination meter

**elector Heating water analysis in the laboratory**

Heating water analysis in accordance with VDI 2035 and DIN 50930-6, including interpretation of measured values and recommendations for action.

Measured values: Colour, odour, suspended solids, deposits, pH value, electrical conductivity, calcium, magnesium, total alkaline earth metals, total hardness, carbonate hardness, base capacity up to pH 8.2 (K<sub>B8.2</sub>), acid capacity up to pH 4.3 (K<sub>S4.3</sub>), acid capacity up to pH 8.2 (K<sub>S8.2</sub>), sodium, chloride, nitrate, sulphate, phosphate (as P), silicate (as Si), aluminium, iron, copper, zinc, total organic carbon (TOC)

**WP030001 Heating water analysis**



**elector Corrosion protection devices**

Reaction tank for electrochemical water treatment to prevent corrosion in heating and cooling systems with a system volume of up to 1.5 m<sup>3</sup>.

- Stabilizes the pH level to ensure the formation of a protective layer on the metals in the system.
- Continuously consumes dissolved oxygen, which is thus no longer available to cause corrosion.
- Removes magnetic particles via an ultra-strong neodymium magnetic filter rod, thereby helping to protect sensitive components.
- Effectively removes circulating sludge and particles for clean system water.
- Collects and removes circulating air bubbles to prevent malfunctions and corrosion.

**WP030100 elector XS5-V (full flow)**

System volume: 0.5 m<sup>3</sup>

Shipping weight: 11 kg

**WP030101 elector XS5-B (bypass)**

System volume: 0.5 m<sup>3</sup>

Shipping weight: 13 kg

**WP030110 elector S10-V (full flow)**

System volume: 1.5 m<sup>3</sup>

Shipping weight: 17 kg

**WP030111 elector S10-B (bypass)**

System volume: 1.5 m<sup>3</sup>

Shipping weight: 18.5 kg



**CLARIMAX Water filtration system**

The water filtration system with replaceable cartridges delivers top-quality fully demineralized water for refilling heating and cooling systems.

- Suitable for refilling technical water circuits in fixed installations or as a mobile service cartridge.
- The water filtration system with replaceable cartridges eliminates the time-consuming and tedious replacement of ion exchange resins.
- Consistently top-quality resin, as there is no contamination of the resins due to unintended contact.
- Includes mounting bracket for wall installation and DVGW-certified backflow preventers in accordance with DIN EN 13959.

**WP030200**

**CLARIMAX Water filtration system**

Water filtration system, including filter cartridge, filter head, mounting bracket, and backflow preventer.

Capacity: 0.34 m<sup>3</sup>

Flow rate: 60 l/h

**WP030201**

**CLARIMAX Filter cartridge**

**WP030202**

**Reducing Fitting Set 3/4" x 3/8"**

**WP030203**

**Backflow Preventer 3/8"**



**WP030204**

**Boiler-filling combination unit**

with system separator type 1/2" female x 1/2" male, type BA



**Measurement Computer**

Measuring instrument for monitoring conductivity and capacitance

**WP030210**

**Measurement Computer H2O**



**CLARIMAX 1200 DM+LED**

Premium total desalination of make-up and top-off water for heating and cooling systems with pH control and cartridge technology

- High-quality ion-exchange resin in a replaceable cartridge with a high proportion of anion resin for reliable total desalination at a controlled pH level.
- Low electrical conductivity, low total hardness at an ideal pH value for low-salt operation of heating systems in accordance with VDI 2035.
- Extremely easy operation thanks to replaceable cartridges, eliminating the need for time-consuming resin replacement.
- Integrated conductivity and capacity monitoring.
- Robust design makes it suitable both as a service water filtration system and for on-site installation.

**WP030250**

**CLARIMAX 1200 DM+LED**

Capacity: 1.24 m<sup>3</sup>

Flow rate: 5 l/min

**WP030251**

**Filter cartridge**

**WP030252**

**AC adapter**

**WP030253**

**Flush valve with hose**

**WP030254**

**Armored hose**

3/4", 250 cm



WP050000

**Ground wires 160**

160 mm – 2 x 32 mm PEX pipes and  
32/25 mm conduit pipes  
Weight: 2.84 kg/m  
Flow rate: 1.078 l/min  
Heat capacity: 30 – 60 kW

WP050001

**Ground wires 200**

200 mm – 2 x 40 mm PEX pipes and  
40/32 mm conduit pipes  
Weight: 3.50 kg/m  
Flow rate: 1.670 l/min  
Heat capacity: 40 – 100 kW

**Ground wires - HP insulated**

- Central pipe for heating: PE-Xa/SDR 11/PN 6
- Continuous operating temperature: 80°C
- Maximum operating temperature: 95°C
- EVOH vapor diffusion barrier in accordance with ISO 17455
- Pipes color-coded (red and blue) to ensure correct installation
- Black insulating pipe made of UV-resistant HDPE



**Threaded coupling**

PE-X threaded coupling 32 mm 1" male

WP050010      Threaded coupling 32

PE-X threaded coupling 40 mm 1 1/4" male

WP050011      Threaded coupling 40



**Dust cap**

Dust cap 160 mm 4 x 32 mm

WP050020      Dust cap 160

Dust cap 200 mm 2 x 40 mm + 2 x 32 mm

WP050021      Dust cap 200



**Mounting point**

1" I-A

WP050030      Mounting point 1"

1 1/4" I-A

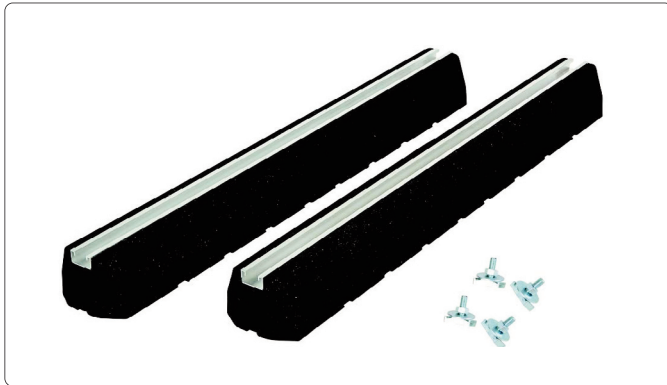
WP050031      Mounting point 1 1/4"



**Quadruple compression cap**

WP050029      Compression cap

The illustration and design are non-binding and only exemplary.



**WP060000**

**Base100**

L x W x H: 600 x 135 x 100 mm  
Load capacity: 195 kg

**WP060001**

**Base 150**

L x W x H: 600 x 200 x 150 mm  
Load capacity: 300 kg

**WP060002**

**Base 230**

L x W x H: 600 x 200 x 230 mm  
Load capacity: 300 kg

**WP060003**

**Insert screws**

Set of insert screws  
(2 pieces) M10 x 30 mm

**Base**

The bases are made of recycled SBR rubber and feature a recessed 40 x 21 mm aluminium profile; the mounting kit includes M10 x 30 mm screws for securing the mounting hardware.



**Power distribution**

Ready-to-connect distribution board for quick and easy heat pump installation; Complete with protection for: outdoor unit, indoor unit, supplementary heating element, and control circuits

- Rated current 40 A
- Maximum safety thanks to integrated residual current circuit breaker (RCCB) type B G/KV
- Heat pump protection via surge arrester type T2
- Consumption data always in view thanks to MID-certified electricity meter
- High flexibility: Connection to various smart home systems via S0 interface and Modbus RTU
- §14a EnWG control via SG-Ready interface

**WP070001**

**Power distribution WM-S**

**WP070002**

**Power distribution WM-M**

**WP070003**

**Power distribution WM-L**

**WP070004**

**Power distribution WM-XL**



**Temperature sensor**

Cable sensor with protective sleeve and PVC cable

**WP070000**

**Temperature sensor**

5 m PVC 2 x 0.25 mm<sup>2</sup> (black)



**Touch-up paint pen**

Touch-up paint pen RAL 9005 jet black matt

**WP000999**

Touch-up paint pen RAL 9005



