



# Uponor

Air to Water  
Heat Pumps

**Product Guide & Price List**

**Air to Water Heat Pumps - Renewable solutions**

**TOSHIBA**  
Leading Innovation >>>



## Introducing the Uponor air source heat range:-

Uponor's range of air source heat pumps is the result of a thorough and comprehensive technology sharing cooperation partnership with Toshiba Carrier UK.

Our combined product knowledge and system experience offers the market two solutions tailored around installer preferences and project details.

With a system solution approach, the mono-bloc product range is designed to deliver a package offering with performance, reliability and peace of mind as main deliverables. The result is a heat source and heat emitter designed to work efficiently in synergy with common, but often neglected, performance interfaces incorporated. The system solution approach includes the Carrier 'AquaSnap PLUS' air source heat pump, and is suitable for plumbing engineers.

Alternatively, the product solution approach is based on a refrigerant split system that delivers market leading products that can be relied upon when incorporated in a system. The product solution approach includes the Toshiba 'Estia' air source heat pump, and is suitable for refrigerant engineers.

This literature provides key data about the air source heat pumps offered by Uponor. Our underfloor heating systems are offered separately with or without Uponor air source heat pumps; our quotation will clearly state if we have based our offer on a Uponor air source heat pump.

Two market leading partners..... two technologies..... one design....

## Air to Water Heat Pumps A very different solution!



**System Solutions**

**Carrier Mono-bloc System - Outdoor Unit 4**

**Carrier Mono-bloc System - Indoor Unit 6**

**Product Solutions**

**Toshiba Split System 8**

**Price Guide 10**



# Carrier Mono-Bloc Systems - Outdoor Units

The new AquaSnap PLUS air-to-water heat pumps with built in inverter technology are designed for small residential and light commercial applications. They offer excellent efficiencies and exceptionally quiet operation.

They can be used as a stand alone system, with or without the hydronic unit fitted inside the same casing or can be connected to a Indoor hydro module for a complete system solution. They use R410a refrigerant and have the latest inverter technology.

- Connection to wide range of Indoor hydro modules or as stand alone units with a built in single zone hydronic unit.
- Wide operating range in both heating and cooling modes
- Inverter technology for ultimate efficiency
- Variable speed fans
- Outdoor units for 240V, 1 phase supply
- High efficiency twin rotary compressor
- Utilises R410a none ozone depleting refrigerant
- High build quality & reliability
- Various control options available



## Outdoor Units

Uponor Product Codes***		1048485,1048490, 1048493 and 1048495	1048486,1048491, 1048494 and 1048496	1048487,1048492 and 1048497
Model		6kW	8kW	12kW
Heating Capacity*	kW	5.80	7.20	11.90
COP	W/W	4.24	3.95	3.94
Cooling Capacity*	kW	4.70	5.80	10.20
EER	W/W	2.95	2.95	2.96
Leaving Water, Heating	°C	20 – 60	20 – 60	20 – 60
Leaving Water, Cooling	°C	4 – 18	4 – 18	4 – 18
Power Supply	V-ph-Hz	230-1-50	230-1-50	230-1-50
Sound Pressure Level†, heating	dB(A)	42	44	47
Sound Pressure Level†, cooling	dB(A)	44	45	48
Compressor	Type	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter
Refrigerant	Type	R410a	R410a	R410a
Pipe Connections	in	1" Male	1" Male	1" Male
Weight (Version X)**	kg	58	68	99
Weight (Version H)**	kg	61	71	105
Maximum Current	A	11	14	22.8
Start Current	A	1	1	1

\* **Capacities are based on the following conditions:**

Heating: Leaving water temperature 35°C (dt 5°C) / Ambient 7°C DB

Cooling: Leaving water temperature 7°C (dt 5°C) / Ambient 35°C DB

† Sound pressure level is measured in hemispheric field at 4m from the unit

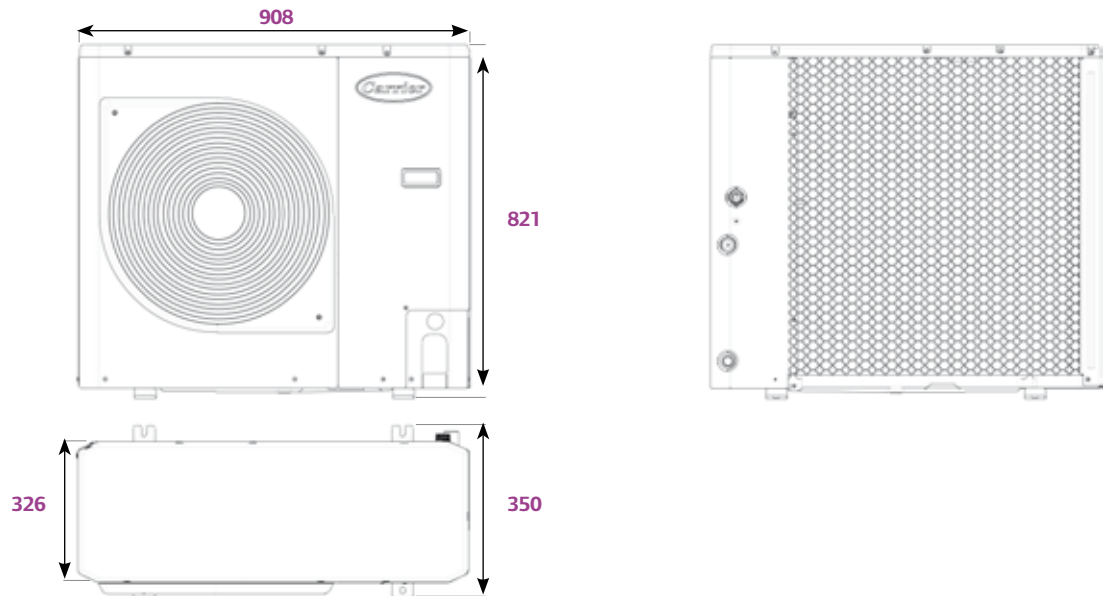
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\*\* **Operating weight, version 'X' without hydronic unit and version 'H' with hydronic unit.**

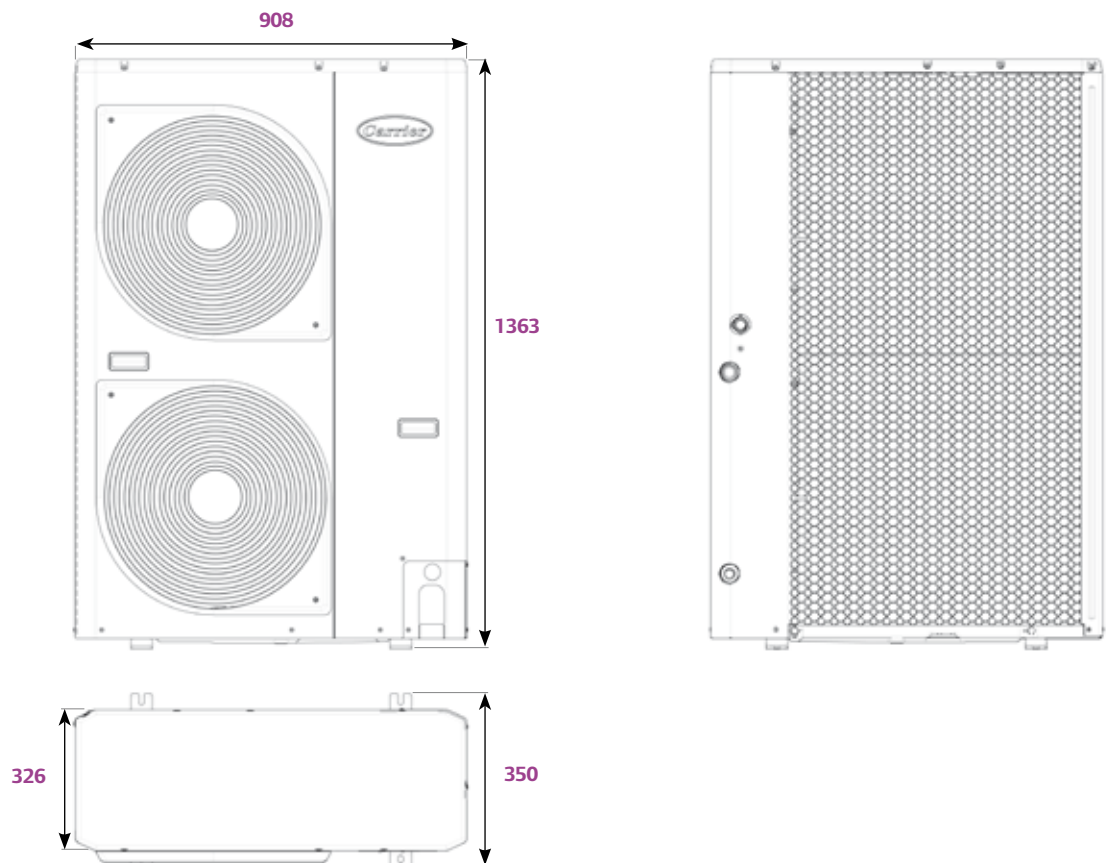
\*\*\* **Refer to price guide pages for details of system packages.**

## Outdoor Unit Dimensions

### 6 and 8kW



### 12kW



# Carrier Mono-bloc System - Indoor Unit

The Air to Water heat pump range uses a range of indoor Hydronic modules to provide comfort and control to your room or space.

When mono-bloc outdoor units are used in conjunction with the range of Hydronic modules shown, a humble heat pump is turned into a complete system with full control and monitoring of the comfort zones.

All Hydronic modules come complete with intelligent microprocessor control, primary and zone circulation.

- Connections to wide range of Carrier mono-block heat pumps
- Complete package assembled in factory
- Built in primary and zone circulation pumps
- Units for 240V, 1 Ph supply
- Variations for electrical or boiler back-up
- Electronic room controller provided
- Thermal and pressure safety devices fitted
- Micro processor control

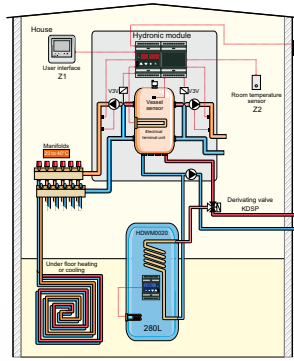


Indoor Hydro Unit	
Model Reference	
Water Temp. Zones	No.
Integral DHW Cylinder	Litres
Integral Buffer Vessel	Litres
Maximum Duty	kW
Electric Backup Heater	kW
Electric Backup Heater	V-ph-Hz
Dimensions	H x W x D
Weight Empty	kg

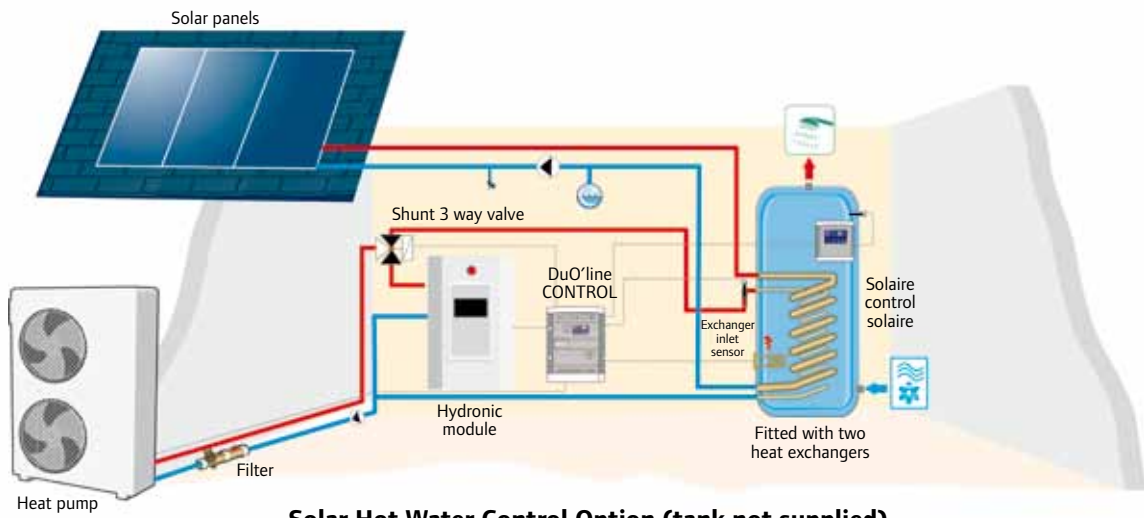
1048490, 1048491 and 1048492	1048493 and 1048494	1048495, 1048496 and 1048497
XPW	XDW	XBW
1	1	2
-	150	-
-	-	50
12	8	12
4	4	8 (2 x 4)
230-1-50	230-1-50	230-1-50
400 x 410 x 250	1423 x 570 x 626	1050 x 660 x 550
20	85	70



# Mono Bloc System Hot Water Options



**DuoLine 280 Accumulative Tank**



**Solar Hot Water Control Option (tank not supplied)**



# Toshiba Split System

The Toshiba Air to Water heat pump has been designed using new variants of Toshiba's highly efficient Super Digital Inverter outdoor units.

Each system is capable of providing heating or cooling water in two separate zones as well as being able to provide domestic hot water with the addition of a bespoke stainless steel tank.

The systems have extremely high COP figures and are ideally suited to domestic and light commercial under floor heating systems.

- 2 Zone Heating Control
- Sanitary Hot Water Production
- Built in Electric Heater Back-up or by Boiler
- Outdoor unit 240V, 1 Phase Supply
- Hydro Module Single and Three Phase Options
- High Efficiency Twin Rotary Inverter Compressor
- Utilises R410a none ozone depleting Refrigerant
- Light weight and Easy to Install
- Optional Interlock with back-up Boiler
- Bespoke 'Easy to Use' Controller



## Outdoor Units

Uponor Product Code	
Model	
Compatible Indoor Hydro Units	
Heating Capacity*	kW
COP	W/W
Cooling Capacity*	kW
EER	W/W
Power Supply	V-ph-Hz
Sound Pressure @ 1m	dB(A)
Compressor	Type
Refrigerant	Type
Pipe Length (max/min)	m
Pipe Size (gas & liquid)	in
Weight Empty	kg
Maximum Current	A
Start Current	A

1048472	1048473	1048474
8kW	11kW	14kW
1048475 and 1048476	1048477, 1048478 and 1048479	
8.00	11.20	14.00
4.08	4.66	4.45
6.00	10.00	11.0
2.82	2.84	2.69
230-1-50	230-1-50	230-1-50
49	49	51
Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter
R410a	R410a	R410a
30 / 5	30 / 3	30 / 3
5/8" and 3/8"	5/8" and 3/8"	5/8" and 3/8"
63	93	93
20.8	22.8	22.8
1	1	1

## Indoor Hydro Units

Uponor Product Code	
Model	
Compatible Outdoor Units	
Leaving Water, Heating	°C
Leaving Water, Cooling	°C
Electric Backup Heater	kW
Electric Backup Heater	V-ph-Hz
Weight Empty	kg
Maximum Current	A

1048475	1048476	1048477	1048478	1048479
802XWHM3E	802XWHT6E	1402XWHM3E	1402XWHT6E	1402XWHT9E
1048472		1048473 and 1048474		
20 - 55	20 - 55	20 - 55	20 - 55	20 - 55
10 - 30	10 - 30	10 - 30	10 - 30	10 - 30
3	6	3	6	9
230-1-50	400-3-50	230-1-50	400-3-50	400-3-50
50	50	54	54	54
13	15	13	15	23

## Domestic Hot Water Cylinders

Uponor Product Code	
Model	
Water Volume	Litres
Maximum Water Temp.	°C
Electric Backup Heater	kW
Electric Backup Heater	V-ph-Hz
Maximum Current	A

1048480	1048481	1048482
150LCSHM3	210LCSHM3	300LCSHM3
150	210	300
70	70	70
2.75	2.75	2.75
230-1-50	230-1-50	230-1-50
12	12	12

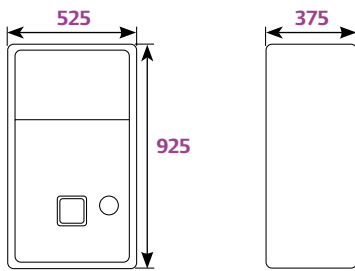
\* Capacities are based on the following conditions:

Heating: Leaving water temperature 35°C (dT 5°C) / Ambient 7°C DB

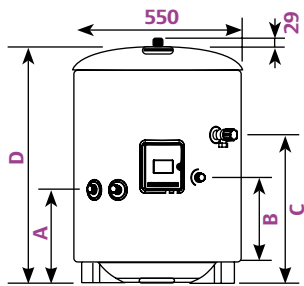
Cooling: Leaving water temperature 7°C (dt 5°C) / Ambient 35°C DB

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## Hydro Units



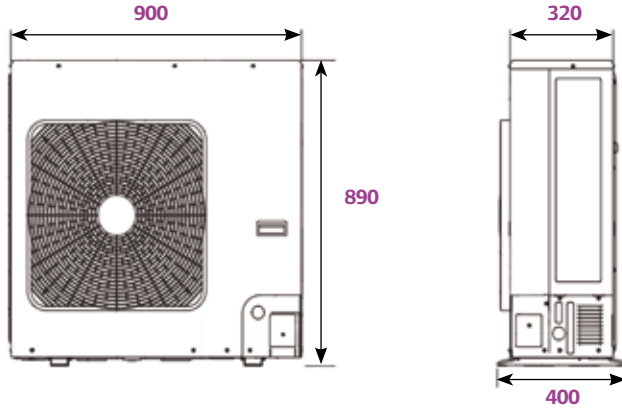
## Hot Water Cylinders



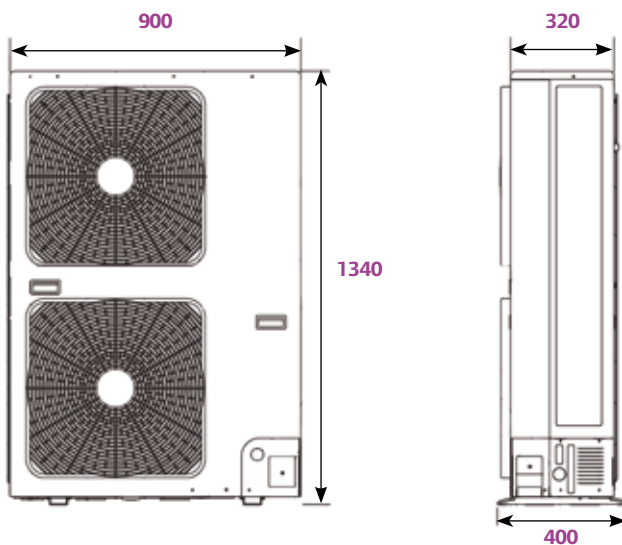
Model	150LCSHM3	210LCSHM3	300LCSHM3
Nominal Capacity (litres)	150	210	300
A (mm)	315	315	315
B (mm)	354	354	354
C (mm)	800	1184	1474
D (mm)	1090	1474	2040
Surface area (sq.m)	0.55	0.68	0.79
Hot water output at 60°C (litres)	102	163	254
Mixed hot water output at 45°C (litres)	243	329.5	476
Heat loss (kWh/24h)	1.45	1.91	2.62
Heating time 15°C to 60°C- using electric cylinder heater only (mins)	123	188	262
Capacity heated using electric cylinder heater only (litres)	102	163	254

## Outdoor Units

8kW



11 and 14kW



## Price Guide

### Carrier Mono-Bloc System Solutions

Mono-bloc heat pumps are a refrigerant free site installation option; making them suitable for both plumbing and refrigerant engineers.

Uponor Code	System Description	Outdoor Heat Pump Unit Included	Indoor Hydro Unit Included	Uponor List Price
1048490	One Water Temperature Control Zone + 4 kW Electric Backup	6 kW	XPW	£4,039.00
1048491		8 kW		£4,454.00
1048492		12 kW		£5,931.00
Available Q2 2011	One Water Temperature Control Zone + 150L DHW Cylinder + 4 kW Electric Backup	6 kW	XDW	Available Q2 2011
Available Q2 2011		8 kW		Available Q2 2011
1048495	One Water Temperature Control Zone + 50 Litre Buffer Vessel + 8kW Electric Backup	6 kW	XBW	£5,288.00
1048496		8 kW		£5,702.00
1048497		12 kW		£6,946.00

All system solutions include the outdoor unit, indoor hydro unit and weather compensated controller.

**Underfloor heating systems are quoted separately and excluded from list prices.**

### Carrier Mono-Bloc System Solution Options

Uponor Code	System Option Description	Compatible With Outdoor Heat Pump Unit	Compatible With Indoor Hydro Unit	Uponor List Price
1048859	Second Water Temperature Control Zone for XBW Hydro Unit - Pump and Valve Control Kit	6, 8 and 12 kW	XBW	£428.00
1048860	Second Water Temperature Control Zone for XBW Hydro Unit - Pump Control kit			£261.00
1048861	280 Litre DHW Cylinder with Controller		XPW and XBW	£2,405.00
1048862	Third Party DHW Cylinder Controller			£1,184.00
1048863	DHW Diverting Valve and Motor			£118.00
Available Q2 2011	Swimming Pool Heater Kit with Heat Exchanger and Controller			Available Q2 2011
1048865	K-Gel Anti-Freeze Kit for Outdoor Units		XPW, XDW and XBW	£101.00

### Carrier Mono-bloc Product Solutions

In addition to the 'mono-bloc system solution' the following items are available as stand alone products.

Uponor Code	Product Description	Outdoor Heat Pump Capacity	Indoor Hydro Unit	Uponor List Price
1048485	Outdoor Unit with Integral Hydro Unit - Version 'H'	6 kW	N/A	£2,844.00
1048486	Outdoor Unit with Integral Hydro Unit - Version 'H'	8 kW		£3,151.00
1048487	Outdoor Unit with Integral Hydro Unit - Version 'H'	12 kW		£4,496.00
1048488	Basic Controller for Version 'H' Outdoor Units (on/off/economy/mode)	6, 8 and 12 kW		£85.00
1048858	External Air Thermostat for Basic Controller			£54.00
1048489	Programmable Controller for Version 'H' Outdoor Units			£160.00

# Price Guide

## Toshiba Split System Outdoor Heat Pump Units

Refrigerant split system heat pump systems can only be purchased by companies that are registered under the F-GAS scheme. A company wishing to purchase this system should produce a copy of their company's Refcom or equivalent certificate stating that they comply with the current F-GAS regulation at point of sale. The equivalent certificates that may be accepted are those issued by Bureau Veritas & Quidos. A copy of the certificate should be retained at the point of sale for any order placed with Uponor for these systems.

Uponor Code	Product Description	Heat Pump Capacity	Compatible With Indoor Hydro Unit	Uponor List Price
1048472	Estia A2W Split System Heat Pump Outdoor Unit	8 kW	802XWHM3E	£1,845.00
			802XWHT6E	
1048473		11 kW	1402XWHM3E	£2,037.00
			1402XWHT6E	
			1402XWHT9E	
1048474		14 kW	1402XWHM3E	£2,397.00
	1402XWHT6E			
	1402XWHT9E			

## Toshiba Split System Indoor Hydro Units

Uponor Code	Product Description	Compatible With Outdoor Unit	Indoor Hydro Unit	Uponor List Price
1048475	Estia A2W Heat Pump Split System Indoor Hydro Unit	8 kW	802XWHM3E	£2,770.00
1048476			802XWHT6E	£2,878.00
1048477		11 and 14 kW	1402XWHM3E	£3,645.00
1048478			1402XWHT6E	£3,758.00
1048479			1402XWHT9E	£3,777.00

## Toshiba Split System DHW Cylinders

Uponor Code	Product Description	Compatible With Outdoor Unit	Compatible With Indoor Hydro Unit	Uponor List Price
1048480	150L DHW Cylinder	All Toshiba Units	All Toshiba Units	£830.00
1048481	210L DHW Cylinder			£970.00
1048482	300L DHW Cylinder			£1135.00

## Toshiba Split System Accessories

Uponor Code	Product Description	Compatible With Outdoor Unit	Compatible With Indoor Hydro Unit	Uponor List Price
1048483	External Output PCB (Boiler/Alarm/Run/Defrost)	All Toshiba Units	All Toshiba Units	£75.00
1048484	External Input PCB (Remote on/off)			£52.00





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The contents of this brochure are provided for guideline only, please consult our technical manuals for full up-to-date information. The information in this publication is correct at the time of going to press.

Uponor reserves the right to alter specifications and operating parameters for all its Systems at any time as part of its policy of continuous product development.

#### **Warranty Statement - Heat Pumps**

All heat pumps included in this brochure are supplied with the original manufactures guarantee. This guarantee warrants that all products supplied are free from defects in manufacture, materials or workmanship for a period of three years from date of delivery. Full details are available upon request.

Uponor disclaims any warranty or guarantee not expressly provided for herein, including any implied warranties of merchantability or fitness for a particular purpose. Uponor further disclaims any and all responsibility or liability for losses, damages and expenses, including special, direct, indirect, incidental and consequential damages, whether foreseeable or not, including without limitation any loss of time or use or any inconvenience arising from the ownership, installation or use of the products sold hereunder.

This guarantee does not affect the statutory rights of the consumer.

All prices are exclusive of VAT and applicable taxes.

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