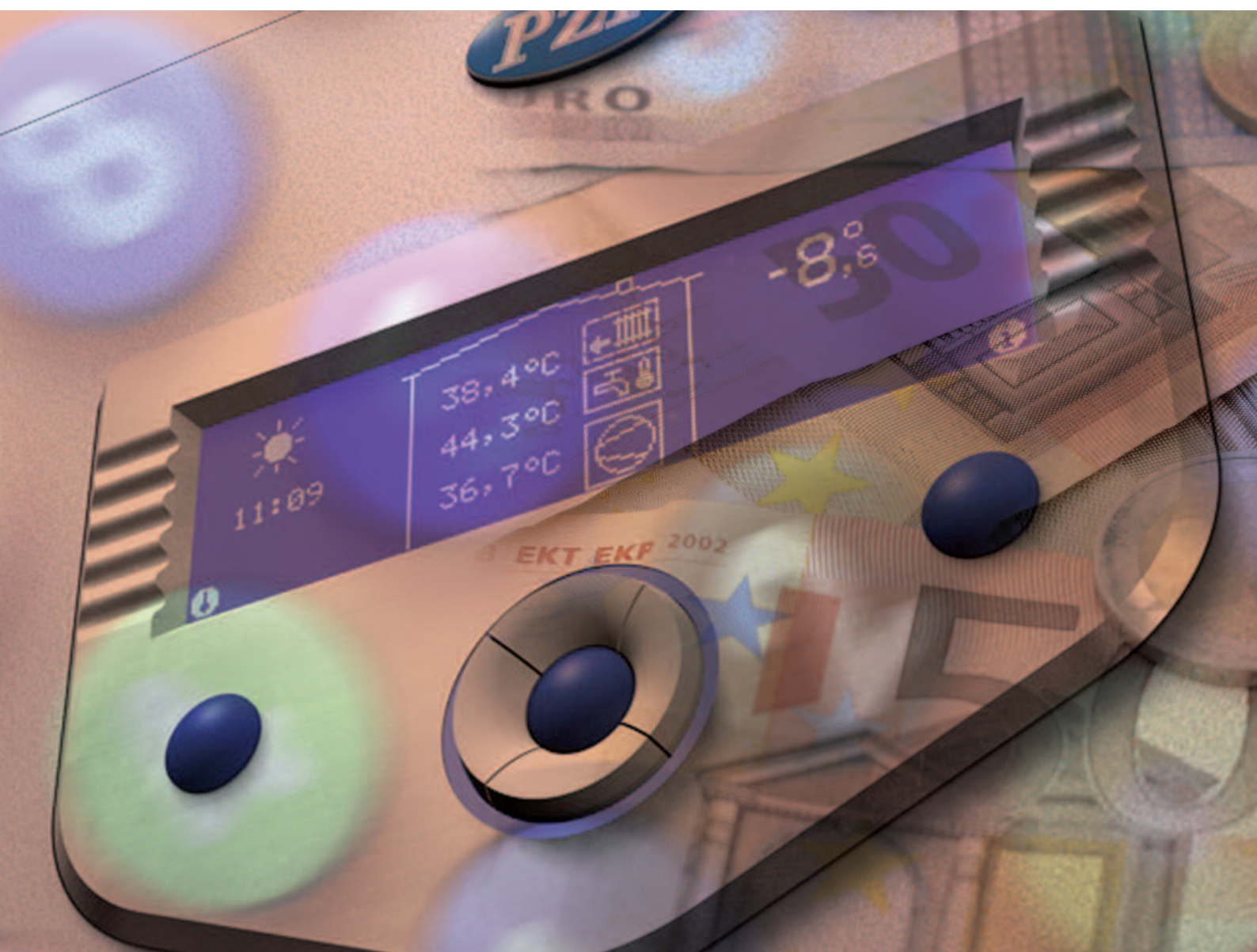


The price list of heat pumps



Price list validity as from 1.4.2014

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Comments to prices:

- prices are given in EUR without VAT;
- the given prices do not include transport costs and other accessories;
- transport costs differ depending on the quantity of ordered equipment;
- subject to special agreements, the purchase prices and conditions of this price list are valid until recalled or publication of a new valid price list;
- the rights to technical and other changes reserved;
- all the previous price lists become invalid!

About company PZP HEATING

The PZP HEATING a.s. company is a production firm operating on the Czech market as well as abroad for more than twenty years. It is engaged in development and production of heat pumps for heating and hot water preparation, ventilation and dehumidifying units and, within custom manufacturing, specialized manufacture of cooling machinery.

Particularly in the field of heat pumps manufacture the company has gained the dominant position on the domestic market and ranks among sought-after producers of high-quality devices with outstanding technical parameters which can be proven by many prestigious prizes from international exhibitions and competitions.

PZP HEATING a.s. is a subsidiary company of the significant German producer in the field of heating and sanitary equipment Kermi GmbH belonging to Swiss concern AFG Arbonia-Forster-Holding AG. Together with strong trademark Kermi and the AFG concern in the background, for customers and steady business partners the PZP company represents assurance of deliveries of high-quality and technically advanced products, guarantees of service or technical support and long-term operation on the market.

In the international scale, AFG is a leading concern aiming at technical equipment and utility facilities of buildings and providing innovative solutions and services in the field of energy efficiency, safety and housing comfort. The company listed on the SIX Swiss Exchange has its head office in Swiss Arbon and with its more than 50 sales companies as well as trade representations and partners it is active in more than 70 countries of the world. 18 production plants can be found in Switzerland, Germany, France, Czech Republic, Poland, Slovakia, United States and China. The concern employs about 7000 people in total.

Within the framework of the AFG concern, PZP HEATING represents a specialized centre for research, development and manufacture of heat pumps of all types. It offers attractive and affordable system solutions spread out into the whole world through an extensive trade network.

The AFG group company



The production plant in Dobré

Why to purchase a heat pump of PZP make?

EXPERIENCE

After 20 years of operating on the market we know exactly what technical solutions are functional and what we can recommend to those interested in heat pumps. We can advise you how to choose a system suitable for your house, ensure a company qualified for implementation and supply information on possibilities of financing that advantageous investment.

RELIABILITY

The PZP heat pumps are noted for their high reliability verified by thousands of satisfied customers all over Europe. We are holders of significant prestigious prizes and quality certificates.

INNOVATION

Every year, we invest high financial amounts in research and development of heat pumps and we are bearers of many revolutionary technical solutions. The evidence of it is the fact that some of such solutions are copied by other unfair producers even in spite of patent protection.

TOP QUALITY

Great stress is laid not only on development of new devices and selection of high grade quality components produced solely within the EU but also on precise workmanship. A matter of course is the quality system in compliance with ISO 9001 and ISO 14001 standards implemented in our company. As one of the first in the Czech Republic, the PZP heat pumps have obtained the certificate from the European Association for Heat Pumps – the Q mark - European Quality Label for Heat Pumps.

RESPONSIBILITY

Long-term satisfaction of the customer is our primary goal. For the heat pumps we provide 24-hour technical support and service within 24 hours by our own service technicians and through authorized service partners.

TRADITION

As the Czech biggest specialized manufacturer of heat pumps we hold our stable and priority position on the market already for 20 years. Besides it we export yearly hundreds of our products into European Union countries mostly western ones. Had it not been the case, we could never become the biggest Czech producer of heat pumps.



Air-water heat pumps AW SPLIT 10 to 18 kW, split system

The air-water heat pump of the split system and 10/12/14/18 kW performance series can be used in all types of buildings. As to the heating system, it is suitable both for radiators and floor or wall heating. The heat pump marked HPAW represents the most suitable solution recommended to all those interested in heat pump heating. It can be characterized by simple installation, favourable price and universal use for heating, air conditioning, hot water preparation all the year round and swimming pool water warming. In operation, the HPAW heat pumps are very silent.

The system is delivered in two parts (internal and external units), unfilled with refrigerant R404A, individual parts are transport filled with nitrogen. The robust box of the interior unit is acoustically and thermally perfectly insulated. The external unit comprises the heat pump evaporator, the expansion valve, fans; its structure is made of corrosion resistant materials with exterior-grade surface finishing.

No lines interconnecting the internal and the external unit are included in the standard delivery! Interconnecting lines of various lengths can be ordered as accessory.

Heat pump AW SPLIT:

- Compressor Copeland – Scroll with service Rotolock valves, acoustically insulated with a special cover.
- A compressor soft-starter for restraint of current surges in compressor starting.
- The cooling unit is placed on a perfectly cushioned anti-vibration frame.
- Flexible hoses for internal part vibrations damping.
- The ultra-silent fan(s) with owl wing shape blades.
- An integrated circulation pump for the secondary circuit.
- An integrated three-way valve operating heating/hot water preparation.
- An integrated electric boiler as the supplementary or bivalence heat source.
- The control system with a comfort control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence on external temperature.
- Automatic, energy saving system of evaporator icing defrosting.
- EEV- electronic expansion valve.
- Monitoring of correct electric supply, auto-diagnostics of operating states.
- Functions for control of three heating circuits, functions for three mixed circuits.
- Functions for hot water preparation with time and temperature programs.
- Functions for regulation of swimming pool water warming.
- Inputs for operation control and operation blocking by CRC signal.
- A programmable universal output for control of a supplementary heat source.
- The option of room unit connection for even more comfortable control.
- The option of connection to the Internet.
- The SER model has a function of heating/active cooling.



Heat pumps air-water AW SPLIT

Type		HP3AWIO5E	HP3AWI25E	HP3AWI45E	HP3AWI85E
Order number		12000136	12000137	12000138	12000139
Price [EUR]		12.896,-	14.168,-	15.276,-	15.992,-
Heat performance (A2/W35)	kW	9,8	11,8	14,6	17,5
Dimensions w x d x h	- internal unit	580x600x1500			
	- external unit	950x1236x1260	800x1842x1295	950x2140x1295	
Weight	- internal unit	160	175	175	180
	- external unit	120	150	180	205
Pipeline dimensions - primary circuit	mm	22x1/12x1			28x1/16x1
Pipeline dimensions - secondary circuit	mm	28x1/28x1/28x1			
Temperature range of primary source	°C	-25 to +35			
Maximum outlet temperature	°C	58			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 25 A	C 32 A	C 40 A	C 40 A
Electric boiler	kW	13,5	18	18	18

Heat pumps air-water AW SPLIT with cooling

Type		HP3AWIOSER	HP3AWI25ER	HP3AWI45ER	HP3AWI85ER	
Order number		12000142	12000143	12000144	12000145	
Price [EUR]		13.856,-	14.923,-	16.192,-	16.736,-	
Heat performance (A2/W35)	kW	9,8	11,8	14,6	17,5	
Cooling performance (A35/W18)	kW	9,2	10,7	13,2	15,9	
Dimensions w x d x h	- internal unit	mm	580x600x1500			
	- external unit	mm	950x1236x1260	800x1842x1295	950x2140x1295	
Weight	- internal unit	kg	160	175	175	180
	- external unit	kg	120	150	180	205
Pipeline dimensions - primary circuit	mm	22x1/12x1	22x1/12x1	28x1/16x1		
Pipeline dimensions - secondary circuit	mm	28x1/28x1/28x1				
Temperature range of primary source	°C	-25 to +35				
Maximum outlet temperature	°C	58				
Minimum temperature of the cold water	°C	6				
Supply voltage		3x400 V / 50 Hz				
Protection of main supply line		C 25 A	C 32 A	C 40 A	C 40 A	
Electric boiler	kW	13,5	18	18	18	

For installation of the AW SPLIT heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10003207	Interconnecting lines for AW SPLIT 06-18 SE - length 10 m	330,-	49
10003208	Interconnecting lines for AW SPLIT 06-18 SE - length 15 m	498,-	49
10003209	Interconnecting lines for AW SPLIT 06-18 SE - length 20 m	662,-	49
10003160	Plastic foundations for installing evaporator for AW SPLIT 06, 08, 10 SE	521,-	45
10003161	Plastic foundations for installing evaporator for AW SPLIT 12 SE	553,-	45
10003162	Plastic foundations for installing evaporator for AW SPLIT 14, 18 SE	578,-	45
10002743	Room terminal Room-manager	227,-	47
10002981	External temperature sensor	61,-	47

Air-water heat pumps AW SPLIT

22 to 36 kW, split system

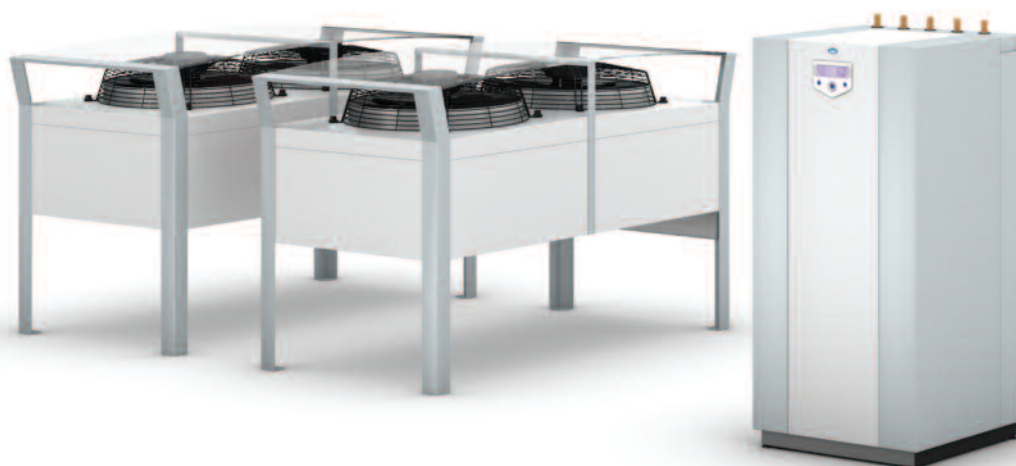
The air-water heat pump of the split system and 22/30/36 kW performance series can be used in all types of buildings. As to the heating system, it is suitable both for radiators and floor or wall heating. The heat pump marked HPAW represents the most suitable solution recommended to all those interested in heat pump heating. It can be characterized by simple installation, favourable price and universal use for heating, air conditioning, hot water preparation all the year round and swimming pool water warming.

The system is delivered in three parts (internal and external units), unfilled with refrigerant R404A, individual parts are transport filled with nitrogen. The robust box of the interior unit is acoustically and thermally perfectly insulated. The external units comprise heat pump evaporators, expansion valves, fans; their structure is made of corrosion resistant materials with exterior-grade surface finishing.

No lines interconnecting the internal and the external units are included in the standard delivery! Interconnecting lines of various lengths can be ordered as accessory.

Heat pump AW SPLIT

- Compressor Copeland – Scroll with service Rotalock valves, acoustically insulated with a special cover.
- A compressor soft-starter for restraint of current surges during compressor starting.
- EEV – electronic expansion valve.
- The cooling unit is placed on a perfectly cushioned anti-vibration frame.
- Flexible hoses for internal part vibrations damping.
- Ultra-silent fans with owl wing shape blades.
- The control system with a comfort control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence on external temperature.
- Automatic, energy saving system of evaporator icing defrosting.
- Monitoring of correct electric supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- An output for connection of a three-way valve operating heating/hot water preparation.
- Control of three heating circuits, functions for three mixed circuits.
- Functions for hot water preparation with time and temperature programs.
- Functions for regulation of swimming pool(s) water warming (ideal for aqua-parks).
- Programmable control of an electric boiler or other supplementary heat source.
- A room unit can be connected for even more comfortable control.
- The option of connection to the Internet.
- The SBR model has a function of heating/active cooling.



Heat pumps air-water AW SPLIT

Type		HP3AW22SB	HP3AW30SB	HP3AW36SB
Order number		12000146	12000147	12000148
Price [EUR]		21.268,-	23.216,-	24.978,-
Heat performance (A2/W35)	kW	21,5	29,9	36,4
Dimensions w x d x h	- internal unit mm	700x750x1500		
	- external unit 2pcs mm	800x1842x1295	950x2140x1295	
Weight	- internal unit kg	265	275	290
	- external unit 2pcs kg	150	180	205
Pipeline dimensions - primary circuit	mm	22x1/22x1/18x1	28x1/28x1/18x1	28x1/28x1/22x1
Pipeline dimensions - secondary circuit	mm	42x1,5/42x1,5		
Temperature range of primary source	°C	-25 to +35		
Maximum outlet temperature	°C	58		
Supply voltage		3x400 V / 50 Hz		
Protection of main supply line		C 25 A	C 32 A	D 32 A

Heat pumps air-water AW SPLIT with cooling

Type		HP3AW22SBR	HP3AW30SBR	HP3AW36SBR
Order number		12000149	12000150	12000151
Price [EUR]		23.456,-	26.656,-	29.749,-
Heat performance (A2/W35)	kW	21,5	29,9	36,4
Cooling performance (A35/W18)	kW	18,6	25,9	32,1
Dimensions w x d x h	- internal unit mm	700x750x1500		
	- external 2pcs mm	800x1842x1295	950x2140x1295	
Weight	- internal unit kg	265	275	290
	- external unit 2pcs kg	150	180	205
Pipeline dimensions - primary circuit	mm	22x1/22x1/18x1	28x1/28x1/18x1	28x1/28x1/22x1
Pipeline dimensions - secondary circuit	mm	42x1,5/42x1,5		
Temperature range of primary source	°C	-25 to +35		
Maximum outlet temperature	°C	58		
Minimum temperature of the cold water	°C	6		
Supply voltage		3x400 V / 50 Hz		
Protection of main supply line		C 25 A	C 32 A	D 32 A

For installation of the AW SPLIT heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10003207	Interconnecting lines for AW SPLIT 22, 30, 36 SB - length 10 m	330,-	49
10003208	Interconnecting lines for SPLIT 22, 30, 36 SB - length 15 m	498,-	49
10003209	Interconnecting lines for AW SPLIT 22, 30, 36 SB - length 20 m	662,-	49
10003161	Plastic foundations for installing evaporator for AW SPLIT 22 SB	553,-	45
10003162	Plastic foundations for installing evaporator for AW SPLIT 30, 36 SB	578,-	45
10002743	Room terminal Room-manager	227,-	47
10002981	External temperature sensor	61,-	47

Warning: Heat pumps AW SPLIT 22, 30 and 36 SB(SBR) have two separate evaporators. The plastic foundation and interconnecting lines must be ordered 2x – one for each evaporator!

Air-water heat pumps AWX ECONOMIC

6 to 14 kW, compact, for external installation

The AWX ECONOMIC air-water heat pump is the basic model in the series of compact heat pumps for external installation. Its simplicity, pleasant appearance, quality of make and, last but not least, its low purchase costs can satisfy every customer. It is intended both for heating in newly built low-energy family houses and installation to existing heating sources, e.g. a gas or an electric boiler, where the heat pump takes over the function of the main and economic heat source. Then, the existing source is only utilized as the bivalence or standby one.

The AWX ECONOMIC air-water heat pumps are compact units designed for installation outside the heated building. The whole structure of the unit is made of corrosion resistant materials with exterior-grade surface finishing. The compressor part of its own is acoustically and thermally insulated in order to ensure problem-free operation of the unit and its long life. The control system and electrical installations are located just in the heat pump. For heat pump control, operating condition monitoring and regulation of heating or hot water warming, a simple control unit of the Room-manager type is used; it can be situated wherever inside the heated building.

The AWX ECONOMIC heat pumps are offered in the model series of 06 / 08 / 10 / 14 that correspond to heating performances. The principal advantages of these units are simple, speedy installation and low investment costs. In the delivery there is included a control unit enabling to set basic user parameters of the heat pump, functions of heating and hot water warming as well as monitoring of operating conditions and temperatures. Other options of control are through a computer or the Internet.

No interconnecting lines are included in the unit standard delivery!



Heat pump AWX ECONOMIC:

- Compressor Copeland – Scroll, refrigerant R410A
- Arrangements for a compressor soft-starter that restrains current surges during compressor starting (the soft-starter is special order accessory).
- The cooling unit is placed on a perfectly cushioned anti-vibration frame for vibrations damping.
- A very silent axial fan with low speed.
- Automatic, energy saving system of evaporator icing defrosting.
- Hydrophilic surface of the evaporator for condensate perfect flow-down in icing defrosting.
- Monitoring of correct electric supply, auto-diagnostics of operating states.
- Equithermic regulation of heating medium temperature in dependence on external temperature.
- Functions for two heating circuits, control by means of a room thermostat or external ON/OFF signal.
- An output for connection of a secondary circulation pump.
- Control of circulation pumps for heating circuits.
- An input for operation control and operation blocking by CRC signal.
- An output for connection of a three-way valve changing over heating/water warming.
- Programmable functions for hot water preparation.
- Control of hot water warming using a bivalence heat source or an external heating coil.
- A programmable output for bivalence or standby heat source control/switching.
- Optional connection of Room-manager room units.
- Extended possibilities of control and parameter setting through a computer or the Internet.

Heat pumps air-water AWX ECONOMIC

Type		HP3AWX06ECO	HP3AWX08ECO	HP3AWX10ECO	HP3AWX14ECO
Order number		12000237	12000228	12000238	12000284
Price [EUR]		6.750,-	6.998,-	7.460,-	7.820,-
Heat performance (A2/W35)	kW	6,3	8,1	11	13,2
Dimensions w x d x h - external unit	mm	1230x600x1170		1430x600x1170	1430x600x1395
Weight in total	kg	165	165	185	205
Pipeline dimensions - secondary circuit	mm	35x1,5/35x1,5			
Temperature range of primary source	°C	-18 to +35			
Maximum outlet temperature	°C	58			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 16/3 A	C 16/3 A	C 16/3 A	C 20/3 A

For installation of the AWX ECONOMIC heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002743	Room terminal Room-manager	227,-	47
10004560	Powerbox	478,-	43
10004546	Interconnecting lines - 6 m	348,-	43
10004547	Interconnecting lines - 10 m	439,-	43
10004548	Interconnecting lines - 15 m	557,-	43
10004549	Interconnecting lines - 20 m	672,-	43
10004550	Interconnecting lines - 30 m	898,-	43
10005090	Powerbox Comfort	1.299,-	43
10005079	Lengthened interconnecting lines - 6 m	499,-	43
10005086	Lengthened interconnecting lines - 10 m	630,-	43
10005087	Lengthened interconnecting lines - 15 m	799,-	43
10005088	Lengthened interconnecting lines - 20 m	964,-	43
10005089	Lengthened interconnecting lines - 30 m	1.299,-	43
10003186	Module RSV302M for mixing valve control	196,-	47
10002981	External temperature sensor	61,-	47
10002744	GSM modem	265,-	47
10003169	Connecting flexible hoses DN32	325,-	46
10004115	Steel brackets for AWX 06-14 ECO	502,-	45
10004467	Steel brackets for AWX 06-14 ECO - lengthened	576,-	45
10003158	Plastic foundation for AWX 06-08 ECO	442,-	45
10003163	Plastic foundation for AWX 10-14 ECO	491,-	45
10002714	Drip pan AWX 06-08 ECO	551,-	45
10004106	Drip pan AWX 10-14 ECO	598,-	45

Air-water heat pumps AWX ARCTIC

6 to 14 kW, compact, for external installation

The AWX ARCTIC air-water heat pump is a simplified variant of the E model (see the following offer). The main difference consists in absence of any internal control unit. The heat pump control system and electric installations are located just in the heat pump. The heat pump is then controlled and its operating conditions monitored through a simple control panel of the Room-manager type. The AWX ARCTIC heat pump is primarily intended for installations to existing heat sources, e.g. a gas boiler or an electric boiler, where it takes over the function of the main heat source. The existing source is then utilized as the bivalence or standby one.

The AWX ARCTIC air-water heat pumps, as well as the previous models, are compact units intended for installation outside the heated building. The whole structure of the unit is made of stainless steel and provided with exterior-grade surface finishing. The compressor part of its own is perfectly insulated acoustically and thermally in order to ensure problem free operation of the unit and its long life. Due to the acoustic insulation and a silent fan, these heat pumps also belong to the most silent in their category. The AWX ARCTIC air-water heat pumps are offered in the model series of 06 / 08 / 10 / 14 which correspond to heating performances. The principal advantages of these units are speedy, simple installation and investment low costs.

The unit is delivered completely filled with refrigerant, fully functionally tested and ready for operation. In the delivery, there is included a control panel for installation inside the heated building; the panel enables setting of heat pump basic parameters, functions of heating and hot water preparation, and monitoring of operating conditions. Further options of control are through a computer or the Internet.

No interconnecting lines are included in the unit standard delivery!



Heat pump AWX ARCTIC

- Compressor Copeland – Scroll with service Rotalock valves, acoustically insulated by means of a special cover.
- A compressor soft-starter restraining current surges in compressor starting.
- The cooling unit is placed on a perfectly cushioned anti-vibration frame for vibrations damping.
- A very silent fan with blades of owl wing shape.
- Automatic, energy saving system of evaporator icing defrosting.
- Hydrophilic surface of the evaporator enabling perfect flow-down of condensate in icing defrosting.
- Monitoring of correct electric supply, auto-diagnostic of operating states.
- Equithermic regulation of heating medium temperature in dependence on external temperature.
- Functions for two heating circuits, control by means of a room thermostat or another ON/OFF signal.
- An output for connection of a secondary circulation pump, outputs for control of heating circuit circulation pumps.
- An input for operation control and operation blocking by means of CRC signal.
- An output for connection of a three-way valve changing over heating/water warming.
- Programmable functions for hot water preparation.
- Hot water post-warming using a bivalence heat source or an external heating coil.
- A programmable output for bivalence or standby heat source control/switching.
- Optional connection of a Room-manager room unit.
- Extended possibilities of control and parameter setting through a computer or the Internet.

Heat pumps air-water AWX ARCTIC

Type		HP3AWX06A	HP3AWX08A	HP3AWX10A	HP3AWX14A
Order number		12000269	12000270	12000271	12000272
Price [EUR]		8 824,-	8 936,-	9 149,-	10 688,-
Heat performance (A2/W35)	kW	5,5	7,5	9,2	13,1
Dimensions w x d x h - external unit	mm	1285x540x1170			1785x540x1170
Weight in total	kg	170	180	185	220
Pipeline dimensions - secondary circuit	mm	28x1/28x1			
Temperature range of primary source	°C	-25 to +35			
Maximum outlet temperature	°C	58			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 16 A	C 16 A	C 16 A	C 20 A

For installation of the AWX ARCTIC heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
-	Interconnecting lines for heat pumps AWX ECONOMIC and AWX ARCTIC	-	43
10005090	Powerbox Comfort	1.299,-	43
10004560	Powerbox	478,-	43
10003158	Plastic foundation for AWX 06 - 10 A	442,-	45
10003159	Plastic foundation for AWX 14 A	499,-	45
10002716	Steel brackets for AWX 06-14 A	484,-	45
10004466	Steel brackets for AWX 06-14 A - lengthened	554,-	45
10002714	Drip pan for condensate draining for AWX 06-10 A	551,-	45
10002715	Drip pan for condensate draining for AWX 14 A	611,-	45
10003168	Connecting flexible hoses DN25 for AWX 06-10 A	266,-	46
10003169	Connecting flexible hoses DN32 for AWX 14 A	325,-	46
10004320	Cover of connecting fittings AWX 06-14 A	149,-	46
10002743	Room terminal Room-manager	227,-	47
10003186	Module RSV302M for mixing valve control	196,-	47
10002981	External temperature sensor	61,-	47

Air-water heat pumps AWX ARCTIC Exclusiv 6 to 14 kW, compact, for external installation

The AWX ARCTIC Exclusiv air-water heat pumps are intended for installation outside the heated building. To such condition, it is adapted their structure resisting the effects of external environment for a long time. The compressor part of its own is perfectly insulated acoustically and thermally in order to ensure problem-free operation of the unit and its long life. The AWX ARCTIC Exclusiv heat pumps belong also to the most silent in their category. We offer them in performances of 6 / 8 / 10 / 14 kW in three-phase make. The principal advantage is speedy and unexacting installation which considerably reduces costs of installation and the whole investment.

The unit is delivered as fully filled with refrigerant, completely tested for functioning. In the delivery there is included a control unit inclusive of interconnecting lines in the length of 10 m; longer lines per special order. The control unit shall be installed inside the heated building. The whole structure is made of stainless steel with exterior-grade surface finishing.



Heat pump AWX ARCTIC Exclusiv

- Compressor Copeland – Scroll with service Rotalock valves, acoustically insulated with a special cover.
- A compressor soft-starter for restraint of current surges during compressor starting.
- The cooling unit is placed on a perfectly cushioned anti-vibration frame for vibrations damping.
- An ultra-silent fan with blades of owl wing shape.
- The control system with a comfort control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence on external temperature.
- Automatic, energy saving system of evaporator icing defrosting.
- Hydrophilic surface of the evaporator for condensate perfect flow-down.
- Monitoring of correct electric supply, auto-diagnostic of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- Control of two heating circuits with time programs.
- Functions for hot water preparation with time and temperature programs.
- Functions for control of a bivalence or supplementary heat source.
- Functions for control of three heating circuits; functions for three mixed circuits.
- Functions for swimming pool water warming.
- The option of connection to the Internet.
- A room unit can be connected for even more comfortable control.

Heat pumps air-water AWX ARCTIC Exclusiv

Type	HP3AWX06E	HP3AWX08E	HP3AWX10E	HP3AWX14E
Order number	12000031	12000032	12000033	12000034
Price [EUR]	9.802,-	10.133,-	10.432,-	11.584,-
Heat performance (A2/W35) kW	5,5	7,5	9,2	13,1
Dimensions w x d x h - external unit mm	1285x540x1170			1785x540x1170
- internal switchboard mm	500x210x700			
Weight in total kg	160	170	175	210
Pipeline dimensions - secondary circuit mm	28x1/28x1			
Temperature range of primary source °C	-25 to +35			
Maximum outlet temperature °C	58			
Supply voltage	3x400 V / 50 Hz			
Protection of main supply line	C 20 A	C 25 A	C 32 A	C 32 A
Recommended performance of electric boiler kW	2x4,5	2x6	2x7,5	2x7,5

For installation of the AWX ARCTIC Exclusiv heat pump we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
12000256	HBXmini - variant 1/A for AWX 06-10 E	1.849,-	44
12000257	HBXmini - variant 2/A for AWX 14 E	2.258,-	44
10003158	Plastic foundation for AWX 06-10 E	442,-	45
10003159	Plastic foundation for AWX 14 E	499,-	45
10002716	Steel brackets for AWX 06-14 E	484,-	45
10004466	Steel brackets for AWX 06-14 E - lengthened	554,-	45
10002714	Drip pan for condensate draining for AWX 06-10 E	551,-	45
10002715	Drip pan for condensate draining for AWX 14 E	611,-	45
10003168	Connecting flexible hoses DN25 for AWX 06-10 E	266,-	46
10003169	Connecting flexible hoses DN32 for AWX 14 E	325,-	46
10004320	Cover of connecting fittings AWX 06-14 E	149,-	46
10002743	Room terminal Room-manager	227,-	47
10002981	External temperature sensor	61,-	47

Air-water heat pumps AWX PERFORMANCE 8 to 17 kW, compact, for external installation

The AWX PERFORMANCE air-water heat pumps are compact units intended for installation outside the heated building. To such conditions, it is adapted their structure resisting the effects of external environment for a long time. The compressor part of its own is perfectly insulated acoustically and thermally in order to ensure problem-free operation and long life of the unit. Due to the acoustic insulation and an electronically controlled ultra-silent fan, the AWX PERFORMANCE heat pumps belong to the most silent heat pumps on the market.

We offer you the AWX PERFORMANCE heat pumps in the model series of 08 / 11 / 14 / 17 with corresponding heating performances. Besides the low noisiness, the principal advantages are both outstanding energy parameters expressed by high heating factor (COP 3,8 in A2/W35 conditions – verified by reputable Swiss company WPZ) and speedy and easy installation which markedly reduces costs of installation and the total investment.

The unit is delivered completely filled with refrigerant, fully tested and ready for operation. In the delivery there is included a control unit inclusive of interconnecting lines of 10 m length as standard; longer lines can be delivered per special order (see Heat pump accessories). The control unit shall be installed inside the heated building.

Heat pump AWX PERFORMANCE

- Compressor Copeland – Scroll, acoustically insulated by means of a special cover.
- A compressor soft-starter restraining current surges in compressor starting.
- **An electronic expansion valve**
- Ecological refrigerant R410a – hermetically leak-proof circuit; filling in models 08 and 11 less than 3 kg – **not subject to prescribed inspection checks.**
- The cooling unit is placed on a perfectly cushioned anti-vibration frame for vibrations damping.
- Ultra-silent fan EC with blades of owl wing shape, **possibility of automatic regulation of its performance.**
- Control system with a comfort control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence on external temperature.
- Automatic, energy saving system of evaporator icing defrosting.
- Hydrophilic surface of the evaporator enable perfect flow-down of condensate in icing defrosting.
- Monitoring of correct electric supply, auto-diagnostic of operating states.
- Inputs for operation control and unit operation blocking by CRC signal.
- Control of up to three heating circuits with time programs; up to three mixed circuits; swimming pool water warming.
- Functions for hot water preparation with time and temperature programs.
- Functions for control of bivalence or supplementary heat sources are programmable.
- Up to four Room-manager room units can be connected for even more comfortable control.
- Heat pump connection to the Internet, control through a computer as standard.
- Model PR with the function of heating / active cooling.



Heat pumps air-water AWX PERFORMANCE

Type		HP3AWX08P	HP3AWXIIP	HP3AWXI4P	HP3AWXI7P
Order number		12000129	12000130	12000131	12000132
Price [EUR]		11.065,-	11.843,-	12.295,-	14.376,-
Heat performance (A2/W35)	kW	8,8	11,0	14,1	17,3
Dimensions w x d x h - external unit	mm	1485x640x1170	1485x640x1395		1835x730x1445
- internal switchboard	mm	500x210x700			
Weight in total	kg	170	215	220	290
Pipeline dimensions - secondary circuit	mm	28x1/28x1		35x1,5/35x1,5	
Temperature range of primary source	°C	-20 to +35			
Maximum outlet temperature	°C	60			
Suply voltage		3x400 V/50 Hz			
Protection of main supply line		C 20 A	C 25 A	C 32 A	C 32 A
Recommended performance of electric boiler	kW	2x6	2x7,5	2x7,5	2x7,5

Heat pumps air-water AWX PERFORMANCE with cooling

Type		HP3AWX08PR	HP3AWXIIPR	HP3AWXI4PR	HP3AWXI7PR
Order number		12000239	12000240	12000241	12000242
Price [EUR]		12.079,-	12.943,-	13.536,-	15.886,-
Heat performance (A2/W35)	kW	8,8	11,0	14,1	17,3
Cooling performance /EER (A35/W7)	kW	7,7	9,7	12,6	15,5
Dimensions w x d x h - external unit	mm	1485x640x1170	1485x640x1395		1835x730x1445
- internal switchboard	mm	500x210x700			
Weight in total	kg	170	215	220	290
Pipeline dimensions - secondary circuit	mm	28x1/28x1		35x1,5/35x1,5	
Temperature range of primary source	°C	-20 to +35			
Maximum outlet temperature	°C	60			
Suply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 20 A	C 25 A	C 32 A	C 32 A
Recommended performance of electric boiler	kW	2x6	2x7,5	2x7,5	2x7,5

For installation of the AWX PERFORMANCE heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
-	Lengthened interconnecting lines for AWX P, PR		44
12000257	HBX mini - variant 2/A for AWX 08, 11 P	2.258,-	44
12000258	HBX mini - variant 3/A for AWX 14, 17 P	2.365,-	44
10003163	Plastic foundation for AWX 08-14 P	491,-	45
10003164	Plastic foundation for AWX 17 P	572,-	45
10004115	Steel brackets for AWX 08-14 P	502,-	45
10004116	Steel brackets for AWX 17 P	522,-	45
10004467	Steel brackets for AWX 08-14 P - lengthened	576,-	45
10004470	Steel brackets for AWX 17 P - lengthened	598,-	45
10004106	Drip pan for condensate draining for AWX 08-14 P	598,-	45
10002715	Drip pan for condensate draining for AWX 17 P	611,-	45
10003168	Connecting flexible hoses DN25 for AWX 08 P	266,-	46
10003169	Connecting flexible hoses DN32 for AWX 11-17 P	325,-	46
10004320	Cover of connecting fittings AWX 08 P	149,-	46
10003171	Cover of connecting fittings AWX 11-14 P	159,-	46
90000230	Cover of connecting fittings AWX 17 P	225,-	46
10002743	Room terminal Room-manager	227,-	47
10002981	External temperature sensor	61,-	47

Heat pumps air-water AWX with system unit HBX300

System unit HBX300

Under the simple but elegant cover of the compact HBX300 unit there are hidden all components important for connection of the AWX heat pump to the heating system, an apparatus for hot water preparation, complete regulation of heat pump heating system etc. This system solution makes easier the overall installation of the heat pump, saves space in the heated building, saves installation time and so total investment costs as well. Modern design of the HBX300 system unit enables also its installation in interior.

The HBX300 system unit can be only ordered and delivered together with the above heat pump type!



Overview of basic equipment and parameters:

- Buffer tank 105 l with electric heating elements of performance of 2x6kW max.
- Hot water cylinder 200 l with an electric heating element for hot water post-warming
- Control system and regulation fully correspond AWW heat pump
- Integrated circulation pumps for the heat pump
 - * secondary circuit and the heating circuit (electronically controlled circulation pumps of class „A“)
- Integrated change-over three-way valve for heating / hot water preparation
- Pressure expansion tank 12 l, relief valve 0,25 Mpa, de-aeration
- Hydraulic and electric interconnection inside the unit
- Electric supply 3x400 V/50 Hz
- Dimensions: 675x745x2010 mm

Heat pumps air-water AWW with system unit HBX300

Type	HP3AWX06E+ HBX300	HP3AWX08E+ HBX300	HP3AWX10E+ HBX300	HP3AWX08P+ HBX300
Order number	12000202	12000127	12000128	12000212
Price [EUR]	15.700,-	16.028,-	16.326,-	16.637,-

Type	HP3AWX06ECO+ HBX300	HP3AWX08ECO+ +HBX300	HP3AWX10ECO+ HBX300
Order number	12000273	12000274	12000275
Price [EUR]	13.454,-	13.954,-	14.454,-

Type	HP3AWX06 ARCTIC+ HBX300	HP3AWX08 ARCTIC+ HBX300	HP3AWX10 ARCTIC+ HBX300
Order number	12000276	12000277	12000278
Price [EUR]	14.779,-	14.891,-	15.104,-

Air-air heat pumps AA SPLIT 16 and 35 kW, split systems for hot-air heating

These heat pumps utilize natural heat from ambient air and by means of circulation, they give off produced heat in the heated internal space. They are especially suitable for heating in large-volume spaces in the branches of trade and services or industry where it is possible to expect considerable financial expenses of required optimum temperature in case it is provided using gas or electric heating.

The heat pump marked AA SPLIT can be delivered with two heating performances of 16 / 35 kW and it is composed of three parts: an internal unit – energy part, an external unit – heat pump evaporator(s), a control box. The external unit as well as the internal ones are delivered without R404A refrigerant filling; for transport they are filled with nitrogen.

No interconnecting lines are included in the standard delivery!

Those can be delivered per a special order based on technical specification.



Heat pump AA SPLIT:

- The internal part consists of a stable frame of aluminium sections and thermally and acoustically insulated panels. It contains particularly a compressor, a fan, a condenser, air filters and other parts of the heat pump.
- The external part comprises heat pump evaporators, expansion valves, ultra-silent fans with blades of owl wing shape.
- The control box – electrical switchboard contains microprocessor control system for heat pump control, power switching and regulation elements, a comfort control panel with graphic display screen.
- Compressor Copeland – Scroll with service Rotalock valves.
- EEV – electronic expansion valve.
- A soft-starter of the compressor for restraint of current surges in compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- Automatic, energy saving system of evaporator icing defrosting.
- Inputs for operation control and operation blocking by CRC signal.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Removable cartridges with replaceable air filters, filtration class EU4 as standard.
- Connection to air ducts inside the heated building is possible.
- The option of connection to the Internet.

Heat pumps air-air AA SPLIT

Type		HP3AAI6	HP3AA35
Order number		12000120	12000121
Price [EUR]		19.584,-	27.915,-
Heat performance (A2/A20)	kW	18,8	37,6
Dimensions w x d x h	- internal unit mm	1900x800x800	2100x970x1200
	- internal switchboard mm	600x250x800	
	- external unit mm	1135x1972x1295	2 pcs-950x2140x1295
Weight	- internal unit kg	190	370
	- internal switchboard kg	45	
	- external unit kg	210	2pcs-205
Pipeline dimensions - primary circuit	mm	22x1/22x1/16x1	28x1/28x1x22x1
Air system duct connection	mm	400x400	500x500
Temperature range of primary source	°C	-25 to +35	
Maximum outlet temperature	°C	48	45
Supply voltage		3x400 V / 50 Hz	
Protection of main supply line		C 20 A	C 40 A

Heat pumps air-air AA SPLIT with cooling

Type		HP3AAI6R	HP3AA35R
Order number		12000122	12000123
Price [EUR]		21.578,-	30.859,-
Heat performance (A2/A20)	kW	18,8	37,6
Cooling performance (A35/A27)	kW	20,8	41,5
Dimensions w x d x h	- internal unit mm	1900x800x800	2100x970x1200
	- internal switchboard mm	600x250x800	
	- external unit mm	1135x1972x1295	2pcs-950x2140x1295
Weight	- internal unit kg	190	370
	- internal switchboard kg	45	
	- external unit kg	210	2pcs-205
Pipeline dimensions - primary circuit	mm	22x1/22x1/16x1	28x1/28x1x22x1
Air system duct connection	mm	400x400	500x500
Temperature range of primary source	°C	-25 to +35	
Maximum outlet temperature	°C	48	45
Supply voltage		3x400 V / 50 Hz	
Protection of main supply line		C 20 A	C 40 A

Ground-water heat pumps TERRASMART 5 to 15 kW

The TERRASMART ground-water heat pump is intended for comfort heating and water warming both in new and existing family houses. It brings maximum savings in combination with floor or wall heating. Due to the high outlet temperature of heating medium however, it is also suitable for standard or large-area radiators. By its high-quality make, pleasant appearance and last but not least, its favourable purchase price, it can satisfy all those interested in heating with heat pumps of ground-water system.

When designing the AQUASMART heat pump we strived for maximum simplicity, universality and timeless design. The heart of the heat pump is efficient Japan compressor Mitsubishi Scroll that significantly reduces power consumption. The heat pump achieves thus very high annual heating factor and savings. Due to its perfect acoustic insulation the TERRASMART heat pump is almost unbelievably silent.

Its attendance is simple due to the advanced control system which, besides heat pump automatic control, is able to provide all functions necessary for a modern heating system. Control using graphic symbols on the clearly organized display is easy as child's play. You can also have your heat pump under control constantly through a Room-manager room unit, a computer, your mobile phone or the Internet network.

We offer you the TERRASMART heat pumps with performances of 05 / 07 / 09 / 11 / 13 / 15 kW.



Heat pump TERRASmart:

- The robust housing of the heat pump is perfectly insulated acoustically and thermally.
- The unit is filled up with ecologically harmless refrigerant R407C.
- High-efficient and silent compressor Mitsubishi – Scroll.
- A compressor soft-starter for restraint of current surges during compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- An integrated circulation pump for the secondary heating circuit.
- Per special order, the 7/9/11 kW models can be equipped with a circulation pump for the primary circuit – ground collector.
- Control system with a clearly organized control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence of external temperature. An external sensor for external temperature is a part of the delivery.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- Functions for control of two heating circuits.
- Ingenious functions for hot water preparation with time and temperature programs.
- Programmable functions for control of a bivalence heat source or a supplementary one.
- A Room-manager room unit can be connected for comfort control.
- Connection to the Internet is possible.

Heat pumps ground-water TERRASmart

Type		HP3BW05B	HP3BW07B	HP3BW09B	HP3BW11B
Order number		12000243	12000055	12000058	12000056
Price [EUR]		6.457,-	6.602,-	6.784,-	6.956,-
Heat performance (B0/W35)	kW	5,2	7,8	9,5	11,1
Dimensions w x d x h	mm	580x670x1075			
Weight	kg	115	115	120	125
Pipeline dimensions - primary circuit	mm	28x1/28x1			
Pipeline dimensions - secondary circuit	mm	22x1/22x1	28x1/28x1		
Temperature range of primary source	°C	-10 to +20			
Maximum outlet temperature	°C	60			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 13 A	C 13 A	C 13 A	C 16 A

Type		HP3BW13B	HP3BW15B
Order number		12000059	12000057
Price [EUR]		7.456,-	7.711,-
Heat performance (B0/W35)	kW	13,4	16,2
Dimensions w x d x h	mm	580x670x1075	
Weight	kg	150	155
Pipeline dimensions - primary circuit	mm	35x1,5/35x1,5	
Pipeline dimensions - secondary circuit	mm	28x1/28x1	
Temperature range of primary source	°C	-10 to +20	
Maximum outlet temperature	°C	60	
Supply voltage		3x400 V / 50 Hz	
Protection of main supply line		C 16 A	C 20 A

For installation of the TERRASmart heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002743	Room terminal Room-manager	227,-	47
10003186	Module RSV302M for mixing valve control	61,-	47
10002300	Change-over three-way valves HONEYWELL	79,-	48
10002878	Servo-drives for mixing valves HONEYWELL	60,-	49

Ground-water heat pumps TERRASTAR Combi and TERRASTAR Combi Plus, 5 to 11 kW, compact, integrated cylinder and accessories

The TERRASTAR Combi ground-water heat pumps are a new generation of heat pumps designed for economical heating and water warming primarily in family houses. They bring maximum savings when combined with floor and wall heating or large-area radiators. These heat pumps are efficient and very silent in operation due to their perfect acoustical insulation. Their stable performance and high heating factor predetermine these heat pumps to be installed in colder areas.

The heart of the TERRASTAR Combi heat pump is efficient Japan compressor Mitsubishi Scroll which considerably reduces power consumption. The heat pump achieves thus very high annual heating factor and savings.

The TERRASTAR Combi heat pump is maximally equipped. Integrated circulation pumps, a bivalence heat source, temperature equithermic regulation, ingenious functions for water warming, hoses for vibration damping, possibly a module for passive cooling in the TERRASTAR Combi Plus model.

Besides the above mentioned equipment, a merit of the TERRASTAR Combi heat pump is an inbuilt cylinder with the volume of 190 litres. This compact solution takes less than 0,5m² for its installation.

It is very simple to operate these pumps. Control through graphic symbols on a clearly organized display is easy as child's play. You can also have your heat pump under control constantly when a Room-manager room unit, a computer, your mobile phone or the Internet is employed.

We offer the TERRASTAR Combi heat pumps with performances of 05 / 07 / 09 / 11 kW.



Heat pump TERRASTAR Combi:

- The elegant housing of the heat pump is perfectly insulated acoustically and thermally.
- The unit is filled with ecologically harmless refrigerant R407C.
- Highly efficient and silent compressor Mitsubishi – Scroll.
- A compressor soft-starter restraining current surges in compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- Integrated elements for compressor vibration damping.
- An integrated circulation pump for the primary circuit – ground collector.
- An integrated circulation pump for the heating secondary circuit.
- An integrated three-way valve for heating / hot water preparation functions.
- An integrated electric boiler of the performance of 4/6 kW max. as a supplementary or bivalence heat source.
- Control system with a comfort control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence on external temperature. An external sensor of external temperature is a part of the delivery.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- An integrated hot water cylinder with the volume of 190 litres, its anti-corrosion protection by quality enamel, PUR thermal insulation.
- Functions for hot water preparation with time and temperature programs.
- Functions for control of three heating circuits, functions for three mixed circuits.
- A programmable universal output for control of other external heat source.
- Possibility of comfort control through a Room-manager room unit.
- Control by means of a computer, connection to the Internet is possible.
- The Combi Plus model moreover with function of passive cooling.

Heat pumps ground-water TERRASTAR Combi

Type		HP3BW05C	HP3BW07C	HP3BW09C	HP3BW11C
Order number		12000247	12000248	12000249	12000250
Price [EUR]		9.569,-	10.192,-	10.435,-	10.698,-
Heat performance (B0/W35)	kW	5,2	7,8	9,5	11,1
Hot water tank	l	190			
Dimensions w x d x h	mm	600x800x1625			
Weight	kg	240	240	245	255
Pipeline dimensions - primary circuit	mm	28x1/28x1			
Pipeline dimensions - secondary circuit	mm	22x1/22x1	28x1/28x1		
Temperature range of primary source	°C	-10 to +20			
Maximum outlet temperature	°C	60			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 13 A	C 16 A	C 20 A	C 25 A
Electric boiler	kW	4	4	4	6

Heat pumps ground-water TERRASTAR Combi Plus with passive cooling

Type		HP3BW05CP	HP3BW07CP	HP3BW09CP	HP3BW11CP
Order number		12000218	12000219	12000220	12000221
Price [EUR]		9.899,-	10.487,-	10.682,-	11.070,-
Heat performance (B0/W35)	kW	5,2	7,8	9,5	11,1
Cooling performance (B10/W13)	kW	3,7	5,4	6,8	8,1
Hot water tank	l	190			
Dimensions w x d x h	mm	600x800x1625			
Weight	kg	245	245	250	260
Pipeline dimensions - primary circuit	mm	28x1/28x1			
Pipeline dimensions - secondary circuit	mm	22x1/22x1	28x1/28x1		
Temperature range of primary source	°C	-10 to +20			
Maximum outlet temperature	°C	60			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 13 A	C 16 A	C 20 A	C 25 A
Electric boiler	kW	4	4	4	6

For installation of the TERRASTAR Combi and TERRASTAR Combi Plus we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002743	Room terminal Room-manager	227,-	47

Ground-water heat pumps TERRASTAR, 5 to 15 kW, compact, with integrated accessories

The TERRASTAR ground-water heat pumps are a new generation of heat pumps designed for economical heating and water warming in family houses and buildings of various types. They yield maximum savings in combination with floor and wall heating or large-area radiators. They are efficient and very silent in operation due to their perfect acoustical insulation. Stable performance and high heating factor predestine these pumps for installations in colder areas.

The heart of the TERRASTAR heat pump is efficient Japan compressor Mitsubishi Scroll that considerably reduces power consumption. The heat pump achieves thus very high annual heating factor and savings.

Attendance of these pumps is very simple as well as in the previous models. Control through graphic symbols on a clearly organized display is easy as child's play. The control system developed specially for the TERRASTAR heat pumps provides all the functions necessary for modern heating systems. You can also have your heat pump under control constantly when a Room-manager room unit, a computer, your mobile phone or the Internet is employed.

The TERRASTAR heat pump is excellent at its maximum equipment. Integrated circulation pumps, a standby heat source, an output and ingenious functions for water warming, equithermic regulation of temperature, hoses for vibration damping, possibly a module for passive cooling in the TERRASTAR Plus model. This all makes project solution easier and minimizes installation demands.

We offer the TERRASTAR heat pumps with performances of 05 / 07 / 09 / 11 / 13 / 15 kW.

The heat pump HPBW:

- The heat pump housing is perfectly insulated acoustically and thermally.
- The unit is filled with ecologically harmless refrigerant R407C.
- Highly efficient and silent compressor Mitsubishi – Scroll.
- A compressor soft-starter for current surges restraining in compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- Integrated flexible hoses for vibration damping.
- An integrated circulation pump for the primary circuit – ground collector.
- An integrated circulation pump for the heating secondary circuit.
- An integrated three-way valve for heating / hot water preparation functions.
- An integrated electric boiler as a supplementary or bivalence heat source. In the TERRASTAR Plus model, electric boiler performance is max. 4/6 kW.
- Control system with a comfort control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence on external temperature. An external sensor of external temperature is included in the delivery.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- Functions for control of three heating circuits, up to three mixed circuits are possible.
- Functions for hot water preparation with time and temperature programs.
- A programmable universal output for control of other heat source.
- Option of connection to the Internet.
- The **TERRASTAR Plus** model with passive cooling.



Heat pumps ground-water TERRASTAR

Type		HP3BW05E	HP3BW07E	HP3BW09E	HP3BW11E
Order number		12000245	12000042	12000043	12000044
Price [EUR]		8.875,-	9.024,-	9.482,-	9.589,-
Heat performance (B0/W35)	kW	5,2	7,8	9,5	11,1
Dimensions w x d x h	mm	580x600x1500			
Weight	kg	165	165	170	180
Pipeline dimensions - primary circuit	mm	28x1/28x1			
Pipeline dimensions - secondary circuit	mm	22x1/22x1/22x1	28x1/28x1/28x1		
Temperature range of primary source	°C	-10 to +20			
Maximum outlet temperature	°C	60			
Suply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 13 A	C 20 A	C 20 A	C 32 A
Electric boiler	kW	6	9	9	13,5

Type		HP3BW13E	HP3BW15E
Order number		12000045	12000046
Price [EUR]		10.602,-	11.189,-
Heat performance (B0/W35)	kW	13,4	16,2
Dimensions w x d x h	mm	580x600x1500	
Weight	kg	190	195
Pipeline dimensions - primary circuit	mm	35x1,5/35x1,5	
Pipeline dimensions - secondary circuit	mm	28x1/28x1/28x1	
Temperature range of primary source	°C	-10 to +20	
Maximum outlet temperature	°C	60	
Supply voltage		3x400 V / 50 Hz	
Protection of main supply line		C 32 A	C 40 A
Electric boiler	kW	13,5	18

Heat pumps ground-water TERRASTAR with passive cooling

Type		HP3BW05EP	HP3BW07EP	HP3BW09EP	HP3BW11EP
Order number		12000222	12000223	12000224	12000225
Price [EUR]		9.338,-	9.487,-	9.869,-	10.268,-
Heat performance (B0/W35)	kW	5,2	7,8	9,5	11,1
Cooling performance (B10/W13)	kW	3,7	5,4	6,8	8,1
Dimensions w x d x h	mm	580x600x1500			
Weight	kg	170	170	175	185
Pipeline dimensions - primary circuit	mm	28x1/28x1			
Pipeline dimensions - secondary circuit	mm	22x1/22x1/22x1	28x1/28x1/28x1		
Temperature range of primary source	°C	-10 to +20			
Maximum outlet temperature	°C	60			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 13 A	C 16 A	C 20 A	C 25 A
Electric boiler	kW	4	4	4	6

Type		HP3BW13EP	HP3BW15EP
Order number		12000226	12000227
Price [EUR]		11.220,-	11.768,-
Heat performance (B0/W35)	kW	13,4	16,2
Cooling performance (B10/W13)	kW	9,7	11,5
Dimensions w x d x h	mm	580x600x1500	
Weight	kg	195	200
Pipeline dimensions - primary circuit	mm	35x1,5/35x1,5	
Pipeline dimensions - secondary circuit	mm	28x1/28x1/28x1	
Temperature range of primary source	°C	-10 to +20	
Maximum outlet temperature	°C	60	
Supply voltage		3x400 V / 50 Hz	
Protection of main supply line		C 25 A	C 32 A
Electric boiler	kW	6	6

For installation of the TERRASTAR Combi and TERRASTAR Combi Plus heat pump we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002743	Room terminal Room-manager	227,-	47

Ground-water heat pump TERRASTAR 19 to 41 kW

The TERRASTAR compact ground-water heat pumps for geothermal energy utilization have performance series of 19 / 23 / 27 / 33 / 41 kW. These heat pumps are suitable for heating in all types of buildings; their use is recommended particularly in colder areas or in places where air-water heat pumps cannot be installed e.g. due to lack of place or building appearance impairment. They are silent, efficient and due to the high outlet temperature, they are also suitable for heating systems with standard radiators.

The unit is delivered without refrigerant filling; for transport it is filled with nitrogen!



Heat pump TERRASTAR

- The robust housing of the heat pump is perfectly insulated acoustically and thermally.
- Highly efficient and silent compressor Copeland – Scroll.
- A compressor soft-starter for restraint of current surges during compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- Integrated flexible hoses for vibration damping.
- Electric outputs for circulation pumps of the primary and the secondary circuit.
- Control system with a comfort control panel.
- Equithermic regulation of heating medium temperature in dependence of external temperature. An external sensor for external temperature is a part of the delivery.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- An output for connection of a three-way valve operating heating / hot water preparation.
- Programmable control of an electric boiler or other supplementary heat source.
- Functions for control of three heating circuits, up to three mixed circuits are possible.
- Functions for hot water preparation with time and temperature programs.
- Connection to the Internet is possible.

Heat pumps ground-water TERRASTAR

Type		HP3BW19G	HP3BW23G	HP3BW27G
Order number		12000050	12000051	12000052
Price [EUR]		11.722,-	12.651,-	13.398,-
Heat performance (B0/W35)	kW	19,5	23,2	27,5
Dimensions w x d x h	mm	700x750x1500		
Weight	kg	270	280	290
Pipeline dimensions - primary circuit	mm	42x1,5/42x1,5		
Pipeline dimensions - secondary circuit	mm	35x1,5/35x1,5		
Temperature range of primary source	°C	-10 to +20		
Maximum outlet temperature	°C	60		
Supply voltage		3x400 V / 50 Hz		
Protection of main supply line		C 25 A	C 25 A	C 32 A

Type		HP3BW33G	HP3BW41G
Order number		12000053	12000054
Price [EUR]		15.413,-	17.760,-
Heat performance (B0/W35) kW	kW	33,7	41,0
Dimensions w x d x h	mm	700x750x1500	
Weight	kg	320	340
Pipeline dimensions - primary circuit	mm	54x2/54x2	
Pipeline dimensions - secondary circuit	mm	42x1,5/42x1,5	
Temperature range of primary source	°C	-10 to +20	
Maximum outlet temperature	°C	60	
Supply voltage		3x400 V / 50 Hz	
Protection of main supply line		C 40 A	C 40 A

For installation of the TERRASTAR Combi and TERRASTAR Combi Plus heat pump we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002743	Room terminal Room-manager	227,-	47

Water-water heat pumps AQUASMART 8 to 22 kW

The AQUASMART water-water heat pumps are optimized for utilization of geothermal heat of underground water. They are efficient, extremely silent in operation and yield very high energy effect. Their installation is especially suitable in regions with abundant occurrence of underground water.

The AQUASMART heat pumps are intended for comfort heating and water warming both in new and existing family houses. They bring maximum savings in combination with floor or wall heating. Due to the high temperature of heating medium however, they are also suitable for standard or large-area radiators. By their high-quality make, pleasant appearance and favourable purchase price before all, they can satisfy all those interested in heating with water-water system heat pumps.

When designing the AQUASMART heat pump we strived for maximum simplicity, universality and timeless design. The heart of the heat pump is efficient Japan compressor Mitsubishi Scroll that significantly reduces power consumption. The heat pump achieves thus very high annual heating factor and savings.

Its attendance is simple due to the advanced control system which, besides heat pump automatic control, is able to provide all functions necessary for a modern heating system. Control using graphic symbols on the clearly organized display is easy as child's play. You can also have your heat pump under control constantly when a Room-manager room unit, a computer, your mobile phone or the Internet network is used.

The AQUASMART heat pumps are offered in performances of 08 / 10 / 12 / 14 / 18 / 22 kW.



Heat pump AQUASMART

- The robust housing of the heat pump is perfectly insulated acoustically and thermally.
- The unit is filled up with ecologically harmless refrigerant R407C.
- High-efficient silent compressor Mitsubishi – Scroll.
- A compressor soft-starter for restraint of current surges during compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- An integrated circulation pump for the secondary heating circuit.
- Control system with a clearly organized control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence of external temperature.
- An external sensor for external temperature is included in the delivery.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- Functions for control of two heating circuits.
- Ingenious functions for hot water preparation with time and temperature programs.
- Programmable functions for control of a bivalence or a supplementary heat source.
- Possibility of Room-manager room unit connection.
- Option of connection to the Internet.

Heat pumps water-water AQUASMART

Type		HP3WW08B	HP3WW10B	HP3WW12B	HP3WW14B
Order number		12000244	12000061	12000064	12000062
Price [EUR]		6.457,-	6.602,-	6.784,-	6.956,-
Heat performance (W10/W35)	kW	7,0	10,1	13,1	15,2
Dimensions w x d x h	mm	580x670x1075			
Weight	kg	115	115	120	125
Pipeline dimensions - primary circuit	mm	28x1/28x1			
Pipeline dimensions - secondary circuit	mm	28x1/28x1			
Temperature range of primary source	°C	+8 to +20			
Maximum outlet temperature	°C	60			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 13 A	C 13 A	C 13 A	C 16 A

Type		HP3WW18B	HP3WW22B
Order number		12000065	12000063
Price [EUR]		7.456,-	7.712,-
Heat performance (W10/W35)	kW	18,2	21,5
Dimensions w x d x h	mm	580x670x1075	
Weight	kg	150	155
Pipeline dimensions - primary circuit	mm	35x1,5/35x1,5	
Pipeline dimensions - secondary circuit	mm	28x1/28x1	
Temperature range of primary source	°C	+8 to +20	
Maximum outlet temperature	°C	60	
Supply voltage		3x400 V / 50 Hz	
Protection of main supply line		C 16 A	C 20 A

For installation of the AQUASMART heat pump we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002986	Paddle flow detector – its installation is obligatory for guarantee giving!	122,-	48
10002743	Room terminal Room-manager	227,-	47
10003186	Module RSV302M for mixing valve control	61,-	47
10002300	Change-over three-way valves HONEYWELL	79,-	48
10002878	Servo-drives for mixing valves HONEYWELL	60,-	49

Water-water heat pumps AQUASTAR

8 to 14 kW, compact with integrated accessories

The AQUASTAR water-water heat pumps are optimized for utilization of geothermal heat of underground water. They are efficient, extremely silent in operation and yield very high energy effect. Their installation is especially suitable in regions with abundant occurrence of underground water.

The AQUASTAR heat pumps are a new generation of heat pumps designed for economical heating and water warming in family houses and buildings of various types. They bring maximum savings in combination with floor and wall heating or large-area radiators. They are efficient and due to perfect acoustical insulation, they are very silent in operation. The heart of the heat pump is efficient Japan compressor Mitsubishi Scroll that considerably reduces power consumption. The heat pump achieves thus very high annual heating factor and savings.

Attendance of these heat pumps is simple. Control by means of graphic symbols on the clearly organized display is easy as child's play. The control system developed specially for the AQUASTAR heat pumps provides all functions necessary for a modern heating system.

Constantly you can also have your heat pump under control through a Room-manager room unit, a computer, your mobile phone or the Internet network.

The AQUASTAR heat pump has maximum equipment. An integrated circulation pump for heating, a standby heat source, an output and ingenious functions for water warming, temperature equithermic regulation, hoses for vibration damping. This all makes design solution easier and minimizes installation demands.

We offer the AQUASTAR heat pumps with performances of 08 / 10 / 12 / 14 kW.



Heat pump AQUASTAR:

- The robust housing of the heat pump is perfectly insulated acoustically and thermally.
- The unit is filled up with ecologically harmless refrigerant R407C.
- High-efficient silent compressor Mitsubishi – Scroll.
- A compressor soft-starter for restraint of current surges during compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- Integrated flexible hoses for vibration damping.
- An integrated circulation pump for the secondary heating circuit.
- An electric output for connection of the primary circuit circulation pump.
- An integrated three-way valve operating heating / hot water preparation.
- An integrated electric boiler as the supplementary or bivalence heat source.
- Control system with a clearly organized control panel controls operation of the whole heating system.
- Equithermic regulation of heating medium temperature in dependence of external temperature. An external sensor for external temperature is included in the delivery.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- Functions for control of three heating circuits, up to three mixed circuits are possible.
- Functions for hot water preparation with time and temperature programs.
- A programmable universal output for control of other heat source.
- Option of connection to the Internet.

Heat pumps water-water AQUASTAR

Type		HP3WW08E	HP3WW10E	HP3WW12E	HP3WW14E
Order number		12000246	12000069	12000070	12000071
Price [EUR]		8.996,-	9.204,-	9.547,-	9.773,-
Heat performance (W10/W35)	kW	7,0	10,1	13,1	15,2
Dimensions w x d x h	mm	580x600x1500			
Weight	kg	165	165	170	180
Pipeline dimensions - primary circuit	mm	28x1/28x1			
Pipeline dimensions - secondary circuit	mm	28x1/28x1/28x1			
Temperature range of primary source	°C	+8 to +20			
Maximum outlet temperature	°C	60			
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 20 A	C 25 A	C 32 A	C 40 A
Electric boiler	kW	9	13,5	13,5	18

For installation of the AQUASTAR heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002986	Paddle flow detector – its installation is obligatory for guarantee giving!	122,-	48
10002743	Room terminal Room-manager	227,-	47

Water-water heat pumps AQUASTAR 18 to 54 kW

The AQUASTAR water-water heat pumps, G models in standard performance series of 18 / 22 / 26 / 32 / 36 / 44 / 54 kW are optimized for utilization of geothermal heat of underground water. These heat pumps yield very high energy effect. It is worth thinking about a possibility to utilize the AQUASTAR heat pumps in cases when they can be integrated in process equipment a waste product of which is hot water.

These heat pumps are suitable for heating in all types of buildings. They are silent, efficient and due to the high outlet temperature, they are proper for heating systems with standard radiators, but for floor or wall heating too; there are then achieved maximum energy savings there.

The unit is delivered without refrigerant filling; its transport filling is nitrogen.



Heat pump AQUASTAR:

- The robust housing of the heat pump is perfectly insulated acoustically and thermally.
- Highly effective compressor Copeland – Scroll.
- A compressor soft-starter for current surges restraining during compressor starting.
- The cooling apparatus is placed on a perfectly cushioned anti-vibration frame.
- Integrated flexible hoses for vibration dumping.
- Control system with a comfort control panel.
- Equithermic regulation of heating medium temperature in dependence on external temperature.
- Monitoring of correct power supply, auto-diagnostics of operating states.
- Inputs for operation control and operation blocking by CRC signal.
- Electric outputs for circulation pumps of the primary and the secondary circuit.
- An output for connection of a three-way valve operating heating / hot water preparation.
- Programmable control of an electric boiler or other supplementary heat source.
- Functions for control of three heating circuits, up to three mixed circuits are possible.
- Functions for hot water preparation with time and temperature programs.
- Possibility of connection to the Internet.

Heat pumps water-water AQUASTAR

Type		HP3WWI8G	HP3WW22G	HP3WW26G	HP3WW32G
Order number		12000075	2000076	12000077	12000078
Price [EUR]		9.322,-	10.656,-	12.256,-	13.536,-
Heat performance (W10/W35)	kW	18,2	21,5	27,7	31,0
Dimensions w x d x h	mm	580x600x1500		700x7050x1500	
Weight	kg	200	205	270	290
Pipeline dimensions - primary circuit	mm	35x1,5/35x1,5		42x1,5/42x1,5	
Pipeline dimensions - secondary circuit	mm	35x1,5/35x1,5		42x1,5/42x1,5	
Temperature range of primary source	°C	+8 to +20			
Maximum outlet temperature	°C	60			
Suplly voltage		3x400 V / 50 Hz			
Protection of main supply line		C 16 A	C 16 A	C 25 A	C 25 A

Type		HP3WW36G	HP3WW44G	HP3WW54G
Order number		12000079	12000080	12000081
Price [EUR]		14.496,-	16.438,-	18.351,-
Heat performance (W10/W35)	kW	36,2	46,0	53,4
Abmessungen BxTxH	mm	700x750x1500		
Weight	kg	300	330	355
Pipeline dimensions - primary circuit	mm	42x1,5/42x1,5	54x2/54x2	
Pipeline dimensions - secondary circuit	mm	42x1,5/42x1,5	54x2/54x2	
Temperature range of primary source	°C	+8 to +20		
Maximum outlet temperature	°C	60		
Suplly voltage		3x400 V / 50 Hz		
Protection of main supply line		C 32 A	C 32 A	C 40 A

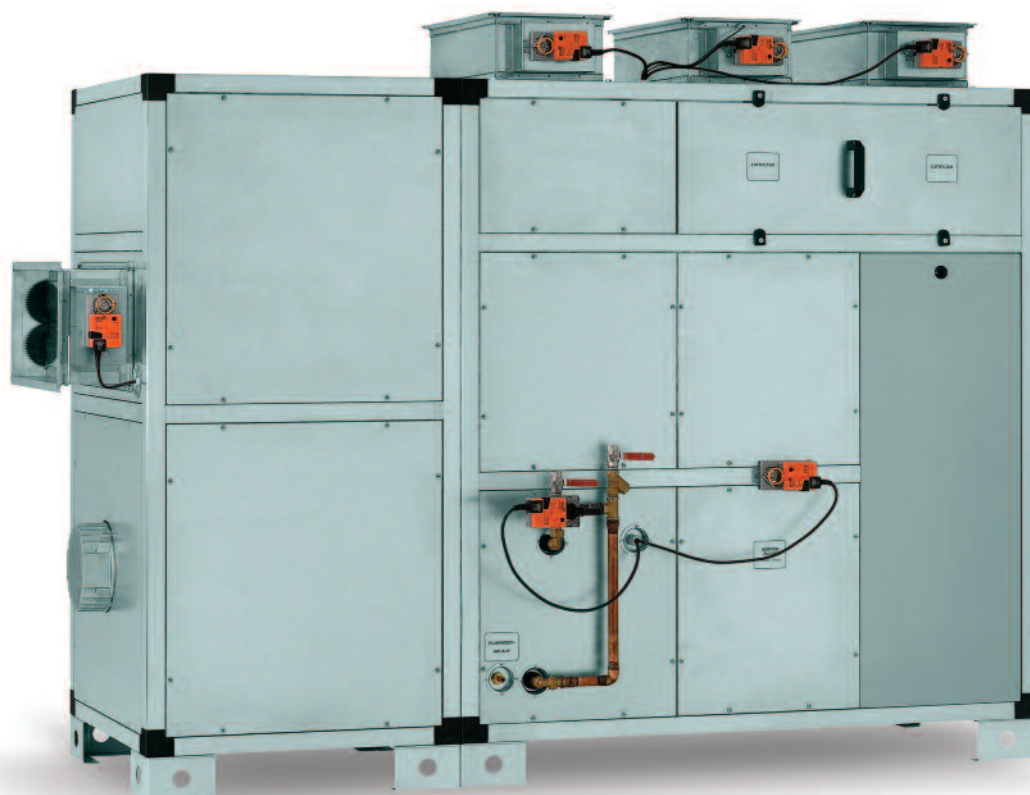
For installation of the AQUASTAR heat pump

we recommend you to order also accessories corresponding to the installation extent

Order number	Type of accessories	Price [EUR]	Page
10002986	Paddle flow detector – its installation is obligatory for guarantee giving!	122,-	48
10002743	Room terminal Room-manager	227,-	47

Dehumidifying and venting units WPLE 2250 – 5200 for internal swimming pools

- Dehumidifying and venting system with heat recovery and an air-air heat pump.
- A stable frame of aluminium sections with thermally as well as acoustically insulated panels.
- Modular solution for maximum adaptation to customer requirements..
- Micro-processor control system for control of dehumidification, venting and heat pump functions.
- 5 function modes for controlled dehumidification and venting in the swimming pool room.
- The cooling circuit works with ecologically harmless refrigerant R407C.
- Heat exchangers surfaces are protected with a special anti-corrosion layer.
- Removable cartridges with replaceable air filters, filtration class EU7.
- In all types there is installed an air hot-water heater as standard.
- Electronically controlled EC fans with possibility to set external pressure.
- Make ... / WT with a titanium heat exchanger for swimming pool water warming.
- Venting units are complete devices capable to operate immediately when power supply, air ducts and condensate draining are connected.
- A right or a left make is possible.



Swimming-pool ventilation units WPLE 2250 - 5200

Type		WPLE 2250	WPLE 3000	WPLE 3900	WPLE 5200
Order number		12000112	12000113	12000114	12000115
Price [EUR]		29.733,-	30.645,-	31.798,-	33.089,-
Ventilation performance	m³/h	2250	3000	3900	5200
Heat performance (+5/30°C)	kW	19,4	24,7	34,7	44,6
Dehumidification performance	kg/h	6,9	8,3	12,4	15,7
Dimensions w x d x h	mm	2260x800x1760	2410x850x1960	2510x1000x1960	2660x1100x2210
Connecting dimensions of air ducts w x h	mm	500x250	600x300	700x300	800x350
Weight	kg	450	480	500	590
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 20 A		C 25 A	C 32 A

Type		WPLE 2250 WT	WPLE 3000 WT	WPLE 3900 WT	WPLE 5200 WT
Order number		12000116	12000117	12000118	12000119
Price [EUR]		31.934,-	32.867,-	34.089,-	35.467,-
Ventilation performance	m³/h	2250	3000	3900	5200
Heat performance (+5/30°C)	kW	19,4	24,7	34,7	44,6
Dehumidification performance	kg/h	6,9	8,3	12,4	15,7
Swimming-pool exchanger performance	kW	2	2,4	3,5	4
Dimensions w x d x h	mm	2260x800x1760	2410x850x1960	2510x1000x1960	2660x1100x2210
Connecting dimensions of air ducts w x h	mm	500x250	600x300	700x300	800x350
Weight	kg	450	480	500	590
Supply voltage		3x400 V / 50 Hz			
Protection of main supply line		C 20 A		C 25 A	C 32 A

BUFFER TANKS, CYLINDERS AND THEIR ACCESSORIES



Combined buffer tank ANK 340

The buffer tank is intended for heating system with the PZP heat pump. It consists of two vessels; the lower one is designed as a buffer tank, the upper one as an indirectly heating cylinder. This configuration demands small space and saves time necessary for installation. The lower buffer tank is made of steel plate. The upper cylinder is made of enamelled steel sheet. This combined buffer tank is designed for heat pumps with max. performance of 11 kW. It is delivered as disassembled, both vessels on a pallet + insulation. Thermal insulation colour is white as standard. On customer request at extra costs of 5% of ANK340 price, we are able to deliver the following colours: RAL 1028, RAL 2004, RAL 3000, RAL 3020, RAL 5015, RAL 6000, RAL 6026, RAL 7038, RAL 9006, RAL 9010. A part of the buffer tank is a titanium anode which power supply of 230V/50Hz is to be provided.

Order number	Type	Volume (l)	H/W (mm)	Weight (kg)	Connecting dimension	Price [EUR]
10002699	Buffer tank	120	1956/Ø660	135	R 1"	1.655,-
	Cylinder warming hot water	220				



Buffer tanks

The buffer tanks are intended for heating water volume replenishing in heat pump heating systems. The use of the buffer tank is appropriate in cases when 15 – 20 times the heat pump performance is not available in the heating system active volume. The UKV100 buffer tank is designed as wall-hanging vertically installed. Engineering solution of the SG-B buffer tanks is stationary. The buffer tanks are made of steel sheet and they are coated with hard polyurethane foam (SG 200 B - SG 400 B) or soft polyurethane foam (SG 500 B - SG 1000 B).

Order number	Type	Volume (l)	H/W (mm)	Weight (kg)	Connecting dimension	Price [EUR]
10003686	SG 200 B	200	1105/Ø700	60	G 6/4"	589,-
10004063	SG 300 B	300	1370/Ø700	75	G 6/4"	699,-
10004064	SG 400 B	400	1830/Ø700	90	G 6/4"	861,-
10004065	SG 500 B	500	1905/Ø800	105	G 6/4"	1 192,-
10004066	SG 800 B	800	1730/Ø990	125	G 6/4"	1 496,-
10004140	SG 1000 B	1000	2050/Ø990	150	G 6/4"	1 722,-



Buffer tanks with an electric boiler

The buffer tanks are intended for heating water volume replenishing in heat pump heating systems. The use of the buffer tank is appropriate in cases when 15 – 20 times the heat pump performance is not available in the heating system active volume. The buffer tanks are made of steel sheet and coated with hard polyurethane foam (SG 200 E - SG 400 E) or soft polyurethane foam (SG 500 E - SG 1000 E). In buffer tanks there is possible to set in electric elements substituting an electric boiler as the bivalence or supplementary heat source. The electric elements can be chosen from the following performance series: 1,5 – 2 – 2,4 – 3 – 4 – 4,5 – 6 kW. Electric element flanges have threads G 6/4". In the price given for the buffer tank there are not included any electric elements. Their quantity and performance shall be specified in the order; their prices are shown hereinafter under Accessories. In the buffer tank delivery, there is included a safety valve and an emergency thermostat in add-on packing.

Order number	Type	Volume (l)	H/W (mm)	Weight (kg)	Connecting dimension	Price [EUR]
10004067	SG 200 E	200	1105/Ø700	60	G 6/4"	741,-
10004068	SG 300 E	300	1370/Ø700	75	G 6/4"	821,-
10004069	SG 400 E	400	1830/Ø700	90	G 6/4"	922,-
10004070	SG 500 E	500	1905/Ø800	105	G 6/4"	1 324,-
10004071	SG 800 E	800	1730/Ø990	125	G 6/4"	1 668,-
10003180	SG 1000 E	1000	2050/Ø990	150	G 6/4"	1 845,-



Combined buffer tank

The buffer tanks with an internal cylinder are intended both for heating water volume replenishing in heat pump heating systems and hot water pre-warming or warming. In the SG tanks their interior cylinder is made of steel sheet, its internal surface finishing is of high quality enamel. In the buffer tank storage space, an electric element can be set in. The electric elements can be chosen in the range of 2 – 6 kW of the performance series. The electric element is connected by thread G 6/4". The price given for the buffer tank with the inner cylinder does not include any electric element. Its performance shall be specified in the order. Electric heating element prices are shown hereinafter under Accessories.

Order number	Type	Total volume (l)	Cylinder volume (l)	H/W (mm)	Weight (kg)	Connecting dimension (")	Possibility of cartridge heater	Price [EUR]
10004284	SG 300/80	300	80	1520/Ø700	150	5/4"	YES - 1	1 224,-
10004285	SG 380/120	380	120	1890/Ø700	200	5/4"	YES - 1	1 349,-
10004286	SG 500/160	500	160	1750/Ø855	240	5/4"	YES - 1	2 256,-
10003193	SG 300/80/1	300	80	1520/Ø700	165	5/4"	YES - 1	1 267,-
10003194	SG 380/120/1	380	120	1890/Ø700	220	5/4"	YES - 1	1 435,-
10003195	SG 500/160/1	500	160	1750/Ø855	255	5/4"	YES - 1	2 280,-



Indirectly heating cylinders, enamelled, with one exchanger

The indirectly heating cylinders are intended both for households and plants or flat buildings. They are made of steel sheet with internal surface finishing of high quality enamel.

Order number	Type	Recommended for HP up to its performance of (kW)	Volume (l)	H/W (mm)	Weight (kg)	Exchanger area (m²)	Heating water connection (")	Price [EUR]
10004072	SGW (S) 300 Maxi	14,0	275	1450/Ø700	180	3,8	G 5/4"	1 530,-
10004073	SGW (S) 400 Maxi	17,5	368	1620/Ø700	220	5,0	G 5/4"	1 668,-
10004074	SGW (S) 500 Maxi	23,0	460	1850/Ø700	260	6,0	G 5/4"	2 029,-
10004075	RBC 750 HP	32,0	750	1870/Ø950	290	7,5	G 6/4"	on request
10004076	RBC 1000 HP	45,0	1000	2120/Ø950	320	10,0	G 6/4"	on request



Indirectly heating cylinders, enamelled

The indirectly heating SGW(S)MAXI Plus cylinders are intended for hot water preparation in the combination of a heat pump with performance of up to 17 kW and solar collectors. They are made of steel sheet with internal surface finishing of high quality enamel.

Order number	Type	Recommended for HP up to its performance of (kW)	H/W (mm)	Weight (kg)	Exchanger area for HP (m²)	Solar exchanger Solarwär area (m²)	Heating water connection (")	Price [EUR]
10004077	SGW(S)MAXI Plus 300	11,0	1450/Ø700	160	2,2	1,0	G 5/4"	1 759,-
10004078	SGW(S)MAXI Plus 400	14,0	1620/Ø700	210	3,8	1,5	G 5/4"	1 915,-
10004079	SGW(S)MAXI Plus 500	17,5	1850/Ø700	285	4,8	1,8	G 5/4"	2 518,-

Remark: In the air-water heat pumps, their considered performance is rated at parameters of A15/W50 °C.



Electric heating elements

The electric heating element is intended for direct water warming in electric heaters, buffer tanks, electric boilers and possibly other devices. The element consists of three heating coils of „U“ shape fixed in hexagon head OK 60 with thread M48x2 or G6/4“; protection IP 54.

Order number	Performance (W)	U (V)	Thread	L (mm)	Price [EUR]
10000706	2000	3x230	M 48x2	203	58,-
10000641	3000	3x230	M 48x2	240	58,-
10000642	4000	3x230	M 48x2	303	62,-
10000709	4500	3x230	M 48x2	333	62,-
10001461	6000	3x230	M 48x2	428	72,-
10004313	7500	400	M 48x2	618	90,-
10002987	2000	3x230	G 6/4"	245	98,-
10002988	3000	3x230	G 6/4"	305	98,-
10002989	4500	3x230	G 6/4"	370	108,-
10002990	6000	3x230	G 6/4"	495	124,-



Electric heating elements with an operating and a safety thermostat

The electric heating element is an independent electric heater designed for direct water warming in cylinders, buffer tanks, electric boilers or other devices. Besides heating coils of „U“ shape it is equipped with an operating and a safety thermostat. It is connected by means of external thread G6/4". Heating element performance can be selected in the range of 3750 – 7500 W, connection 400 V. Its externally controlled thermostat enables stepless setting of temperature in the range of 0 – 80 °C.

Order number	Performance (W)	U (V)	L (mm)	Price [EUR]
10002992	3750	3 PE-N 400/50	350	252,-
10002993	4500	3 PE-N 400/50	420	260,-
10002994	6000	3 PE-N 400/50	500	266,-
10002995	7500	3 PE-N 400/50	580	278,-



Stainless steel plate exchangers for water warming

This exchanger is designed for hot water preparation by means of the heat pump when the buffer tank with the inner heat exchanger cannot be used due to exchanger low performance. The plate exchanger is brazed with copper brazing solder. Thermal insulation of the exchanger is included in the delivery.

Order number	For heat pumps type	W/H/D (mm)	Pipes dimension	Price [EUR]
10002510	HP3AW 14-18, HP3BW 15-19, HP3WW 14-18	289x119x100	G 1"	319,-
10004350	HP3AW 22, HP3BW 23-27, HP3WW 22-26	287x117x127	G 5/4"	509,-
10003210	HP3AW 30-36, HP3BW 33-41, HP3WW 32-44	287x117x198	G 5/4"	664,-
10003211	HP3WW 54	393x243x105	G 2"	1 071,-

Electric boilers



Electric boilers AL

The electric boiler with steel structure is thermally insulated against heat leakage into environment. It is equipped with heating elements and a safety thermostat; heating elements performance at the option of the customer in a given range.

Specification:

- Connection by pipes DN 25 (G1")
- Connection to the mains 3+N+PE, 400/230 V, 50 Hz
- Electric boiler protection IP 43
- Environment according to EC60364-1 and IEC60364-5-51: standard
- Working temperature min. 5 °C, max. 95 °C
- Operating pressure min. 40 kPa, recommended 100 kPa, max. 250 kPa.

Order number	Type	Pipes dimension	Price [EUR]
10003641	Electric boiler 2x3 kW	G 1"	465,-
10003642	Electric boiler 2x4,5 kW	G 1"	476,-
10003643	Electric boiler 2x6 kW	G 1"	489,-
10004429	Electric boiler 2x7,5 kW	G 1"	599,-

Electric boilers Prima

The PRIMA electric boiler, in addition to the boiler of its own, is as standard equipped with a pressure expansion tank, an efficient circulation pump, a relief safety valve and de-aerating valves.

Specification:

- Connection by pipes, external G 3/4"
- Connection to the mains 3+N+PE, 400/230 V, 50 Hz
- Electric boiler protection IP 40
- Environment according to EC60364-1 and IEC60364-5-51
- Working temperature max. 80 °C
- Operating pressure min. 40 kPa, recommended 100 kPa, max. 300 kPa



Order number	Type	U [V]	Price [EUR]
10004513	EK Prima 8 kW	3 PE-N 400/50	1 398,-
10004514	EK Prima 12 kW	3 PE-N 400/50	1 824,-
10004515	EK Prima 15 kW	3 PE-N 400/50	1 857,-
10004516	EK Prima 24 kW	3 PE-N 400/50	2 032,-

ACCESSORIES FOR HEAT PUMP AIR-WATER AWX

Powerbox



The Powerbox electric switchboard provides easy electric connection of the heat pump of types AWX ECONOMIC and AWX ARCTIC and has the following functions: system termination of interconnecting cable bundle, connection of the main electric supply line, connections of signal CRC and regulation control signals, power outputs for circulation pump connections, power outputs for connection of electric heating elements (max. 2x 7,5 kW), a power output for connection of an electric element for DHW post-warming and similar. In the delivery there are included two temperature probes (heating water, DHW). On request, a module for control of mixing valve RSV302M can be installed into the Powerbox switchboard.

Order number	Type	For heat pump	W/H/D (mm)	Price [EUR]
10004560	Powerbox	AWX 06-14 ECO, 06-14 A	275x455x140	478,-

Interconnecting lines for heat pumps AWX ECONOMIC and AWX ARCTIC



The interconnecting line for the AWX ECO and AWX A heat pump can be ordered in standard lengths of 6, 10, 15, 20, 30 m. Suitable use of the line is for heat pump interconnection with connecting terminal box Powerbox.

Order number	Lenght (m)	Interconnected devices	Price [EUR]
10004546	6 m	AWX ECO, A - Powerbox	348,-
10004547	10 m	AWX ECO, A - Powerbox	439,-
10004548	15 m	AWX ECO, A - Powerbox	557,-
10004549	20 m	AWX ECO, A - Powerbox	672,-
10004550	30 m	AWX ECO, A - Powerbox	898,-

Powerbox Comfort



The Powerbox Comfort electric switchboard with big graphic display provides easy electric connection and user friendly control of heat pump types AWX ECONOMIC and AWX ARCTIC using the following functions: availability of all heat pump parameters, system solution of connection of interconnecting lines to the heat pump, connection of the main power supply line, connection of CRC signal and regulation control signals, power outputs for circulation pumps connections, power outputs for connection of electric heating elements (max. 2x7,5 kW), a power output for the heating element of DHW post-warming and the like. In the delivery included are also two temperature probes (heating water, DHW). On request, up to 2 modules for control of mixing valve RSV302M can be installed into the Powerbox Comfort switchboard.

Order number	Type	For heat pump	W/H/D (mm)	Price [EUR]
10005090	Powerbox Comfort	AWX 06-14 ECO	380/520/160	1.299,-

Interconnecting lines for heat pumps AWX ECONOMIC



The interconnecting line for the AWX ECO heat pump can be ordered in standard lengths of 6, 10, 15, 20, 30 m. Suitable use of the line is for heat pump interconnection with connecting terminal box Powerbox Comfort.

Order number	Lenght (m)	Interconnected devices	Price [EUR]
10005079	6 m	AWX ECO - Powerbox Comfort	499,-
10005086	10 m	AWX ECO - Powerbox Comfort	630,-
10005087	15 m	AWX ECO - Powerbox Comfort	799,-
10005088	20 m	AWX ECO - Powerbox Comfort	964,-
10005089	30 m	AWX ECO - Powerbox Comfort	1.299,-



Thermal insulation of pipes for heat pumps AWX

The recommended wall thickness of that insulation is 32 mm. New foam insulation (closed cell structure) with outstanding resistance. Due to its improved properties as to the resistance to UV radiation and ozone, no protective coating need be applied. The price is for 1 linear meter of the insulation material.

Order number	Product type (mm)	Price [EUR]
10003178	EPDM 32x28	33,-
10003179	EPDM 32x35	37,-



Lengthened interconnecting lines for heat pumps AWX ARCTIC Exclusiv and AWX PERFORMANCE

The interconnecting line for air-water heat pumps AWX ARCTIC Exclusiv and AWX PERFORMANCE is delivered in the length of 10 m as standard. If need be the lengths of 15, 20, 30, 40 m can be delivered at extra cost.

Order number	Length (m)	Heat pump type	Price [EUR]
10002713	15 m	AWX E	102,-
10002527	20 m	AWX E	204,-
10002528	30 m	AWX E	404,-
10002529	40 m	AWX E	607,-
10003214	15 m	AWX P	109,-
10003215	20 m	AWX P	218,-
10003216	30 m	AWX P	425,-
10003217	40 m	AWX P	638,-



HBX mini – Hydrobox with a control panel

Under the simple but elegant cover of the compact HBX mini Hydrobox there are hidden all components important for connection of the AWX heat pump of models ARCTIC Exclusiv and PERFORMANCE to the heating system. This system solution makes easier the overall installation of the AWX heat pump, saves space in the heated building, saves installation time and thus total investment costs as well.

HBX mini with control panel ID-16 is designed for installation with the heat pump of type designation HP3AWX 06-14 E and HP3AWX 08-17 P. Hydrobox HBX mini with the control panel can be only delivered together with the heat pump of the above type. Separately it is unsellable!

Overview of basic equipment and parameters:

- Electric boiler with the heating performance of 2x 7,5 kW max.
- Circulation pump of the heat pump secondary circuit (economy pump A – variant 1-3/A)
- Change-over three-way valve for heating / hot water preparation
- Pressure expansion tank, 12 l volume, relief valve 0,25 MPa, de-aeration
- Control system and electric installation, as to their functionality, fully correspond to the above heat pump types
- Hydraulic and electric interconnections inside the device

Order number	Type	For heat pump	W/H/D (mm)	Connection dimension	Price [EUR]
12000256	HBX mini - Variante 1/A	AWX 06 E, 08 E, 10 E	560x800x370	1"	1 849,-
12000257	HBX mini - Variante 2/A	AWX 14 E, 08 P, 11 P	560x800x370	1"	2 258,-
12000258	HBX mini - Variante 3/A	AWX 14 P, 17 P	560x800x370	5/4"	2 365,-

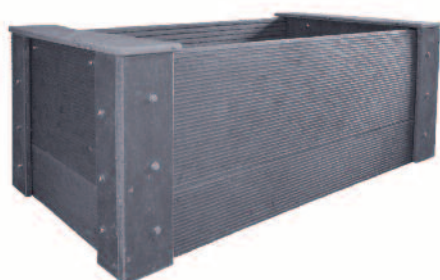
Drip pans for condensate draining



The AWP heat pump can be installed just on a hard surface. In such a case, condensate arising from air humidity and defrosted icing must be drained from the space under the evaporator. This shall be done using the drip pan fitted in the heat pump bottom part, under the evaporator. At low or extremely low external temperatures below zero the drip pan and connected pipes are heated by the heating cable connected to heat pump electric installation; cable operation is controlled automatically.

Order number	Heat pump type	W/H/D (mm)	Price [EUR]
10002714	AWX 06-08 ECO, AWP 06-10 A / E	215x100x1020	551,-
10002715	AWX 14 A / E, AWP 17 P	215x125x1520	611,-
10004106	AWX 10-14 ECO, AWP 08-14 P	215x125/1220	598,-

Plastic foundations for installation of air-water heat pumps



The finished foundations for installation of AWP air-water heat pumps and external units – evaporators of air-water heat pumps SPLIT. The foundation is made of recycled plastic resistant to UV radiation. Its upper surfaces intended for heat pump setting are covered with stainless steel sheet. The advantage of the finished foundation is its very simple installation consisting of assembly of individual prefabricated elements, setting of the assembled foundation onto the compacted and smoothed base and its backfilling with earth or drainage layer material.

Order number	Heat pump type	L/H/D (mm)	Price [EUR]
10003158	Plastic foundations for AWP 06-08 ECO, AWP 06-10 A/E	1290x700x500	442,-
10003159	Plastic foundations for AWP 14 A/E	1770x700x500	499,-
10003163	Plastic foundations for AWP 10-14 ECO, AWP 08-14 P	1490x800x500	491,-
10003164	Plastic foundations for AWP 17 P	1840x900x500	572,-
10003160	Plastic foundations for AWP 06-10 SE	1164x1000x500	521,-
10003161	Plastic foundations for AWP 12 SE, AWP 22 SB(2x!)	1764x850x500	553,-
10003162	Plastic foundations for AWP 14-18 SE, AWP 30-36 SB(2x!)	2064x1000x500	578,-

For heat pumps AWP SPLIT 22, 30 and 36 always 2 pcs of the plastic foundation shall be ordered.

Steel brackets



The AWP air-water heat pump can be installed on the steel brackets fitted to a structural wall or other building structure. The brackets are made of rolled U-shape sections and they are zinc hot dipped. They are always delivered in pairs. Lengthened brackets are suitable for fitting to a structural wall insulated by a thick layer of insulation material.

Order number	Heat pump type	L/H/D (mm)	Price [EUR]
10002716	set 2 pcs for - AWP 06-14 A / E	850x850x100	484,-
10004115	set 2 pcs for - AWP 06-14 ECO, 08-14 P	950x850x100	502,-
10004116	set 2 pcs for - AWP 17 P	1050x850x100	522,-
10004466	set 2 pcs for - AWP 06-14 A / E - lengthened	1100x950x100	554,-
10004467	set 2 pcs for - AWP 06-14 ECO, AWP 08-14 P - lengthened	1200x1000x100	576,-
10004470	set 2 pcs for - AWP 17 P - lengthened	1290x1100x100	598,-



Connecting flexible hoses for connection of AWX heat pumps

The connecting flexible hoses are intended for connection of the AWX heat pump and its flexible separation from the heating system that is installed inside the heated building. The connecting hoses are terminated by a cap nut on their lower end and a bend and a de-aerating valve on their upper end.

Order number	Type	Length (mm)	Price [EUR]
10003168	set 2 pcs for AWX 06-14 E, 08/11 P, 08/11 PR, 06-14 ARCTIC	280	266,-
10003169	set 2 pcs for AWX17, 14/17 P, 14/17 PR (5/4"), 06-14 ECO	340	325,-



Covers of connecting fittings for AWX heat pumps

The covers can be utilized in cases when connecting fittings and connecting lines of the AWX heat pump are laid behind the pump directly into the ground or an interconnecting channel.

Order number	Heat pump type	LxWxD (mm)	Price [EUR]
10004320	AWX 06-14 A / E, AWX 08 P	1179x247x234	149,-
10003171	AWX 11-14 P	1341x247x234	159,-
90000230	AWX 17 P	1454x247x234	225,-
10004559	AWX 06-10 ECO	1117x279x240	149,-
10004855	AWX 14 ECO	1342x279x240	159,-

Stainless steel plate exchangers

Plate exchangers brazed with copper brazing solder. This exchanger is designed for the preliminary circuit of the AWX air-water heat pump in extreme climatic conditions.



Order number	Heat pump type	LxWxD (mm)	Connection dimensions	Price [EUR]
10002657	AWX 06 A/E	119/526/55	G 1"	563,-
10002658	AWX 06 ECO, AWX 08 A/E	119/526/64	G 1"	607,-
10002659	AWX 10 A/E	119/526/77	G 1"	684,-
10002502	AWX 14 A/E, AWX 08 ECO/P	119/526/91	G 5/4"	796,-
10003151	AWX 10 ECO, 11 P	119/526/113	G 5/4"	918,-
10003152	AWX 14 ECO, 14 P	119/526/135	G 5/4"	1 045,-
10003153	AWX 17 P	119/526/158	G 5/4"	1 175,-

ACCESSORIES FOR PZP CONTROL SYSTEM



Room terminal Room-manager

Room-manager is designed for remote control, setting of heat pump basic functions and parameters and room thermostat function. It offers possibility of comfort and simultaneously very simple and clearly organized control of heating, temperature correction, heating mode changing, display of external temperature, display of heat pump operating temperatures etc.

Order number	Type	Price [EUR]
10002743	Room-manager	227,-



GSM modem for SMS communication

In this device there is incorporated serial interface RS-232 and a connector for antenna connection on the modem front side. SIM card shall be inserted on the device underside. It is a two-band modem and so it can be used in all countries where frequency ranges of GSM nets are 900/1800 MHz. The device is used for heat pump control by means of SMS messages. An external antenna is included in the price.

Order number	Type	Price [EUR]
10002744	GSM modem for SMS communication with antenna 3 db.	265,-



External temperature sensor

An external sensor measuring external temperature.

It is recommended to install it with each air-water heat pump by reason of equithermic regulation accuracy!

In the ground-water and water-water heat pumps the external temperature external sensor is a part of the delivery

Order number	Type	Price [EUR]
10002981	External temperature sensor	61,-



Temperature probes

The IP68 probe is water-tight, calibrated. Its range is -50 to 120 °C.

Order number	Type	Price [EUR]
10004459	Temperature probes 2 m	19,-
10002532	Temperature probes 5 m	25,-



Module for mixing valve control

The RSV302M module is an accessory for the heat pumps of AWX ECONOMIC and AWX ARCTIC series. It enables extension of heat pump functions by mixing for one heating circuit and option of connection of the external temperature external sensor (order no. 10002981) for accurate equithermic regulation. Only one module can be always connected to the heat pump control system!

Order number	Type	Price [EUR]
10003186	Modul RSV302M	196,-

ACCESSORIES

**Paddle flow detector**

The flow detector ensures compressor switching on the basis of increase of medium flow in pipes. This device is a prerequisite for the use of the water-water system heat pump; for the ground-water system it is recommended. The flow detector is delivered without the T-fitting.

- Maximum switched current 1A, 230 V.
- Maximum pressure 1,2 MPa.
- Medium maximum temperature +110 °C.
- Protection degree IP 65.

Order number	Type	Dimension	Temperature range [°C]	Price [EUR]
10002986	VHS09MK	5/4" – 2 1/2"	-30 / +110	122,-

**Compact mixing three-way valve**

The ESBE mixing three-way valve is made of brass and may be used both for heating and cooling applications.

Order number	Type	Dimension	Kvs	Price [EUR]
10002747	VRG131	% "	1,00	78,-
10002748	VRG131	% "	1,63	78,-
10002749	VRG131	% "	2,50	78,-
10002750	VRG131	% "	6,30	78,-
10002751	VRG131	1"	6,30	78,-
10002752	VRG131	1"	10,00	78,-

**Servo-drives for mixing valves**

The servo-drives are intended for motorization of rotary mixing valves with dimensions DN 15-50. They have three-point control signal, their operational angle is 90°.

Order number	Type	Power supply	Running time (s)	Control signal	Price [EUR]
10002691	ESBE ARA 651	230 V/50 Hz	60	3-Punkt SPDT	171,-

**Change-over three-way valves**

The change-over three-way valve is designed for change-over of heating water flow in functions of heating / water warming.

Order number	Type	Dimension	Kvs	Price [EUR]
10002300	HONEYWELL VC VCZMQ6000/E	1"	6,8	79,-
10002680	ESBE VRG 231	5/4"	16	79,-
10002688	ESBE VRG 231	6/4"	25	105,-
10002687	ESBE VRG 231	2"	40	178,-
10002742	ESBE 3F	40	28	230,-
10002746	ESBE 3F	50	44	298,-



Servo-drives for the change-over three-way valve

The servo-drives are intended for motorization of change-over three-way valves of dimensions DN 15-50. They have two-point control signal, their operational angle is 90°.

Order number	Type	Power supply	Running time (s)	Control signal	Price [EUR]
10002878	HONEYWELL	230 V/ 50Hz	7	2-Punkt SPST	60,-
10002435	ESBE ARA 635	230 V/ 50Hz	15	2-Punkt SPST	221,-



Interconnecting lines for AW SPLIT heat pumps – the line for I external unit

In the case of two units two interconnecting lines are necessary.

Order number	Lenght (m)	For heat pumps type	Price [EUR]
10003207	10	AW 06-18 SE, AW 22-36 SB(2x!)	330,-
10003208	15	AW 06-18 SE, AW 22-36 SB(2x!)	498,-
10003209	20	AW 06-18 SE, AW 22-36 SB(2x!)	662,-



Thermal insulation of primary pipes

For this thermal insulation is recommended wall thickness of 13 mm.

New foam insulation (closed cell structure) with outstanding resistance. Due to its improved properties in respect to the resistance to UV radiation and ozone, no protective coating need be applied on insulation. The price is for 1 linear meter of the insulation material.

Order number	Internal diameter (mm)	Price [EUR]
10002758	15	5,30
10002759	18	6,20
10002760	22	6,60
10002761	28	8,30



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