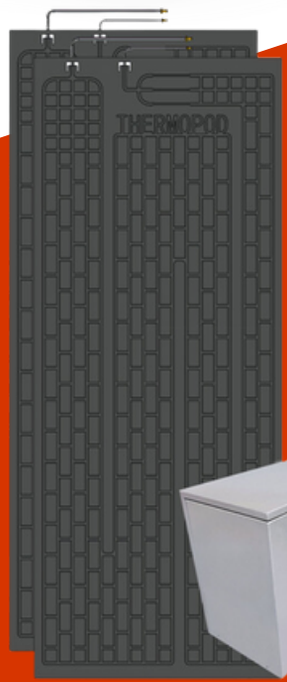
HARNITEK

Product Range



TEL:
01274 921212

EMAIL:
info@harnitekheatpumps.co.uk

ADDRESS:
Unit 3F, Acre Park, Dalton Road,
Keighley, BD21 3JH

HEAT PUMPS

- Exceptional Efficiency ERP Rated A+++
- Seasonal COP (SCOP) 4.7
- Simple Installation Package
- Performance Hub Gateway online support
- UK Training and Technical Support
- Lightweight outdoor unit
- Quiet operation 38dBa

HARNITEK

Introducing Smart control heat pumps supported by UK trainingandtechnical support experts

Mostessential componentsare pre-integratedfor fast and consistent installations every time.

Our planet now requires action to combat climate change. The new design of Harnitek heat pumps are a genuine alternative to fossil fuel boilers.

Simple to install, quiet operation, incredible efficiency and online monitoring support are all exceptional features of these units. Harnitek systems are a quick installation package for the UK market.

The Harnitek range of heat pumps are:

Simple fast installation

ERP Rated A+++ Efficiency

Lightweight and easy to handle

Performance Hub Gateway full system access and support

UK Training and Technical Support Experts

Smart Hub integrating key components and wiring centre

What the Harnitek heat pumps offer:

Next Generation Efficiency

Introducing Harnitek's range of A+++ R32 Heat pumps. All units are fully accredited at Low and medium heat outputs. Market leading SCOP of 4.7 meaning exceptional year round performance and faster recovery times.

Performance Hub Gateway

All Harnitek Smart Hub units can be linked to the internet through the integrated Modem. The online Performance Hub Gateway gives end users and installers a fully programmable platform for programming the system and optimising efficiency of performance.

Touch Screen LED

Harnitek Smart Hub units have a large simple to use touch screen LED controller. Basic quick functions and extended system analysis can be carried out directly through the screen.

Lightweight units

Lightweight outdoor units makes handling and installing the outdoor units manageable for 2 engineers. Suitable for easy wall mounting options without the need for heavy lifting equipment.

Quiet functionality

Harnitek heat pumps are exceptionally quiet, rated at only 38db at 2.1m. It is hard to define how quiet something is, but we are confident you will be astonished at the performance. Settings allow additional 'quiet mode' for the most sensitive locations.

UK Technical Support and training

Harnitek heat pumps are supported by a UK based training and support centre. Harnitek installations should be successful first and every time, with system support carried out remotely using the Performance Hub Gateway.

Hybrid Compatible

Harnitek heat pumps also control any secondary heating source. Simply connect to the Smart Hub to allow secondary sources to contribute to your overall heating demand.

Simple installation

Harnitek heat pumps have simplicity of installation & maintenance at the core of their design. Many of the technical aspects of heat pump installation are pre-assembled into the Smart Hub, saving installation time and allowing all key components to be monitored via the Performance Hub Gateway.

HARNITEK HEAT PUMPS

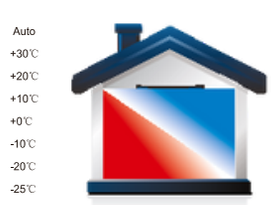
Harnitek Air to water heat pump

The Harnitek R32 air source heat pumps, are the next generation of domestic air to water heat pumps. This class leading heat pump uses R32 refrigerant for exceptional cold weather performance and efficiency.

The new Harnitek R32 heat pump is built for exceptional efficiency & reliability, capable of flow temperatures, making it the ideal choice for new and existing heating systems. It is incredibly quiet at just 38dBa when in use. This means the ThermoAIR plus can be installed close to adjacent properties, opening up renewable heating and hot water to almost all properties. The lightweight design of the outdoor units offers flexible installation options.

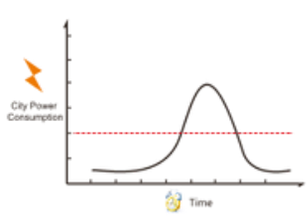
Room Temperature Control Function

Room Temperature Compensation Function



Auto Heat/Cool Switch-over Mode

Smart Grid Ready



The SmartHUB provides a platform for simple, efficient and consistent air source installations.

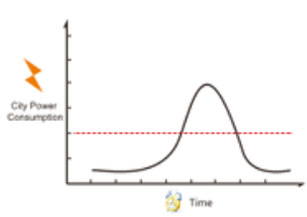
- Flexible installation options
- Hybrid system ready
- Easily control Multiple heat sources
- Smart monitoring & remote control
- PRV and pressure gauge
- 3kw back up heater
- System sensors to monitor, flow return and buffer tank temperatures
- Weather compensation
- Diverter valve
- Thermostatic mixing valve
- LCD touch screen controls
- Circulation pump
- No F-gas required
- AutoLegionella protection
- Wiring centre

These internal units make installation simple and efficient. Much of the complex installation work of a traditional heat pump has been manufactured into these indoor units. Saving time, money and disruption for the end user. The Smart HUB system makes combining renewable heating with other thermal technologies simple. For example a gas boiler can be wired directly into the Smart HUB, allowing it to operate seamlessly with your new air source, giving a unprecedented level of control and further broadening the application of air source heating technology.

HARNITEK HEAT PUMPS

Harnitek Mono Package

Available in 6kW, 9kW, 12kW, 15kW & 19kW heat output



For a more flexible solution smartHUB mono can be installed with a heatpump hot water cylinder. The smartHUB mono is also prewired with all the relevant sensors, including cylinder temperature sensor and diverter valve. The unit has an inbuilt direct electric backup heater as well as separate flow connections for space heating and hot water circuits, further simplifying installation.

-Flexible installation options
-Multiple flow temps
-Hybrid system ready
-Easily control Multiple heat sources
-In built monitoring & remote control
-In built weather compensation
-Inbuilt system sensors to monitor, flow return and buffer tank temperatures
-Inbuilt 3kw back up heater
-Inbuilt PRV and pressure guage
-Circulation pump
-LCD touch screen controls
-In bult thermostatic mixing valve
-In built diverter valve
-In built wiring centre
-In built Legionella protection
-No F-gas required

-A+++ Rated
-Ultra quiet 38dba
-Lightweight, 2 person lift
-High quality finish
-Flow Temperatures of up to 60c
-SCOP 4.3
-Available in 6kw, 9kw & 12kw heat outputs
-Weather compensation

SmartHub Mono6

SmartHub Mono9

SmartHub Mono12

HARNITEK HEAT PUMPS

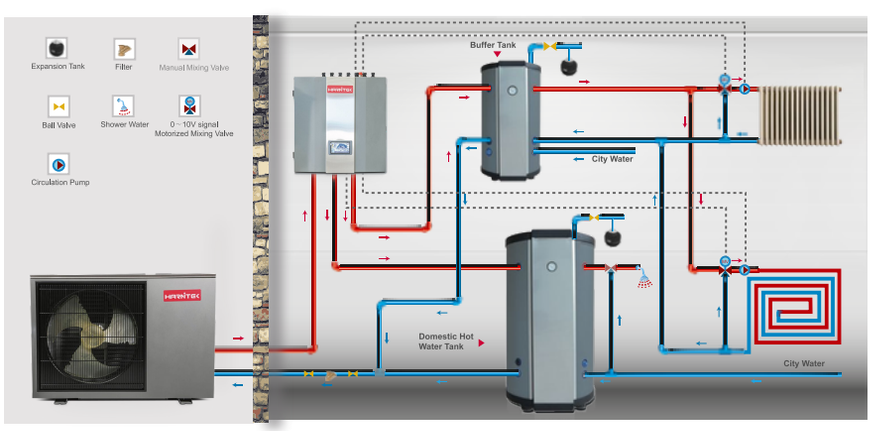
Harnitek Mono Package

Linking directly to the A+++ 6kw, 9kw, 12kw, 15kw and 19kw Harnitek heat pumps the Mono Smart Hub removes installation variables by incorporating controlling key components.

Application

outdoor

indoor



These units are installed alongside new or existing hot water cylinders.

•The Harnitek Wiring Centre significantly simplifies the electrical installation. Installers now only need to bring in and connect the relevant power supply. Clearly labelled and

•simple connection allows existing heating controls to be connected, secondary heat sources and other external connections.

•Simple in and out water connections.

•Integrated electronic 3 way valve. Instant upgrade from mechanical units, this is already integrated into the Mono Smart Hub.

•Integrated circulation pump ensure the correct pump unit is pre-assembled into the system.

•Inbuilt 3kw Immersion heater again removes component variables and installation time.

•Inbuilt expansion vessel and PRV again removes component and installation variables providing consistency and efficiency to all installations

•2 separate flow temperatures allow the heating and hot water to be automatically run at separate temperatures

•Integrated Modem allows either wifi connection or hardwire connection from every unit to connect to the Performance Hub Gateway.

Harnitek Air to water heat pump performance

	Unit MAX Output (6kW)	Unit MAX Output (9kW)	Unit MAX Output (12kW)	Unit MAX Output (15kW)	Unit MAX Output (19kW)
MODEL **Air temp @-2c w 35c**					
Compressor speed （Hz）	90HZ	90HZ	90HZ	76HZ	76HZ
Inlet water temperature	31.89	31.89	31.89	31.89	31.89
Outlet water temperature	35.07	35.07	35.07	35.07	35.07
Heating Capacity	5439.50	6796.49	8908.37	12199.48	15549.09
Input Power	1588.50	1979.59	2541.74	3210.65	4044.45
COP	3.42	3.42	3.49	3.80	3.83
MODEL **Air temp @ 7c w 35c**					
Compressor speed （Hz）	90HZ	90HZ	90HZ	76HZ	76HZ
Inlet water temperature	31.9	31.89	31.89	31.89	31.89
Outlet water temperature	35	35.24	34.89	35	35
Heating Capacity	7454	1917.13	11671	15516.23	18526.38
Input Power	1652.0	2055.86	2683	3297.1	4141.91
COP	4.50	4.48	4.3	4.71	4.47
Compressor speed （Hz） **Air temp @-2c w 55c**					
Inlet water temperature	90HZ	90HZ	90HZ	76HZ	76HZ
Outlet water temperature	50.10	50.10	50.20	50.10	50.20
Heating Capacity	55.02	55.02	55.02	55.02	55.02
Input Power	5206.50	5867.08	7570.43	9959.88	11109.15
COP	2107.00	2919.07	3765.72	4677.79	4829.16
	1.99	2.00	2.01	2.12	2.29
Compressor speed （Hz） **Air temp @ 7c w 55c**					
Outlet water temperature	90HZ	90HZ	90HZ	76HZ	76HZ
Heating Capacity	50.1	50.2	50.10	50.82	50.10
Input Power	54.9	54.87	55.00	55	55
COP	5698	7616.54	9866	12916.27	17676.86
	2193	3092.68	3751	4804.07	5955.82
	2.6	2.56	2.6	2.69	2.97

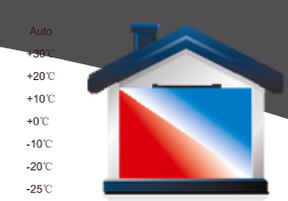
UNIT		YHPK-6V1TBA	YHPK-9V1TBA	YHPK-12V1TBA	YHPK-15V1TBA	YHPK-19V1TBA
Compressor		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Fan		1 no. 34 watt	1 no. 45 watt	1 no. 45 watt	2 no. 34 watt	2 no. 34 watt
Noise level dB		52	53	52	55	59
Water side		Plate heat exchanger: Pipe work connection: 1"	Plate heat exchanger: Pipe work connection: 1"	Plate heat exchanger: Pipe work connection: 1"	Plate heat exchanger: Pipe work connection: 11/4"	Plate heat exchanger: Pipe work connection: 11/4"
Dimensions	Indoor unit	570x550x255	570x550x255	570x550x255	570x550x255	570x550x255
	Outdoor unit	1010x370x700	1165x370x845	1165x370x845	1085x390x1450	1085x390x1255
Net weight	Indoor unit	25Kg	25Kg	25Kg	25Kg	25Kg
	Outdoor unit	67Kg	78Kg	85Kg	120Kg	130Kg

HARNITEK HEAT PUMPS

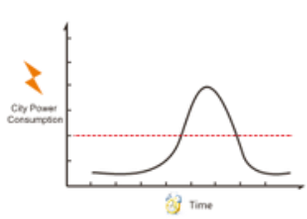
Harnitek Combi Package

Available in 6kw, 9kw, 12kw, 15kw & 19kw heat output

Auto Heat/Cool Switch-over Mode



Smart Grid Ready



The SmartHUB combi, contains an integrated 250 litre thermal store, pump, expansion vessels and back up heaters. The system is pre-wired, to further assist in a consistent and quick installation and no Fgas certification is required. ThemoAIR plus and SmartHUB combi installation can be completed in a single day. Minimising disruption and cost for the end user.

-250l of thermal store
-Hybrid system ready
-Easily control Multiple heat sources
-Multiple flow temps
-Smart monitoring & remote control
-Weather compensation
-Sensors to monitor, flow return and buffer tank temperatures
-9kw back up heater
-Expansion vessel
-PRV and pressure gauge
-Circulation pump
-LCD touch screen controls
-Thermostatic mixing valve
-Diverter valve
-Wiring centre
-Legionella protection
-No F-gas required

-A+++ Rated
-Ultra quiet 38dba
-Lightweight, 2 person lift
-High quality finish
-Flow Temperatures of up to 60c
-SCOP 4.3
-Available in 6kw, 9kw & 12kw heat outputs
-Weather compensation

SmartHub Combi6

SmartHub Combi9

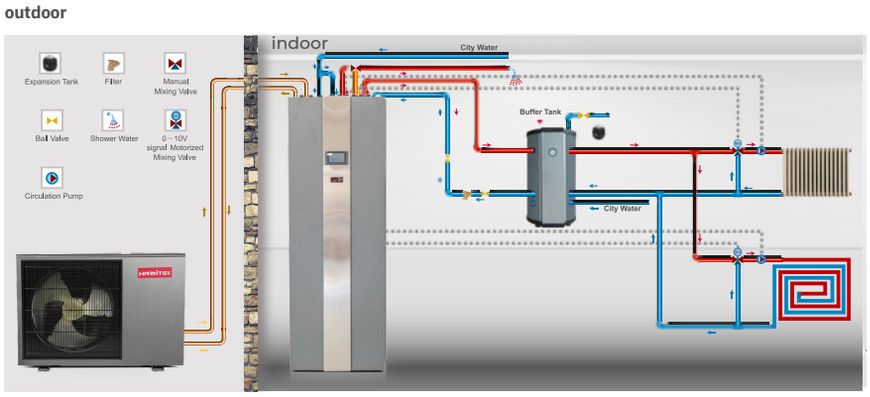
SmartHub Combi12

HARNITEK HEAT PUMPS

Harnitek Combi Package

Linking directly to the A+++ 6kw, 9kw, 12kw, 15kw and 19kw Harnitek heat pumps the Combi Smart Hub removes installation variables by incorporating and managing most of the fixed required components.

Application



The Combi Smart Hub units have an integrated 250L water cylinder

•The Harnitek Wiring Centre significantly simplifies the electrical installation. Installers now only need to bring in and connect the relevant power supply. Clearly labelled and simple connection allows existing heating controls to be connected, secondary heat sources and other external connections.

•Simple in and out water connections.

•Integrated electronic 3 way valve. Instant upgrade from mechanical units, this is already integrated into the Mono Smart Hub.

•Integrated circulation pump ensure the correct pump unit is pre-assembled into the system.

•Inbuilt 3kw Immersion heater again removes component variables and installation time.

•Inbuilt expansion vessel and PRV again removes component and installation variables providing consistency and efficiency to all installations

•2 separate flow temperatures allow the heating and hot water to be automatically run at separate temperatures

•Integrated Modem allows either wifi connection or hardwire connection from every unit to connect to the Performance Hub Gateway.

Harnitek Air to water heat pump performance

	Unit MAX Output (6kW)	Unit MAX Output (9kW)	Unit MAX Output (12kW)	Unit MAX Output (15kW)	Unit MAX Output (19kW)
MODEL **Air temp @-2c w 35c**					
Compressor speed （Hz）	90HZ	90HZ	90HZ	76HZ	76HZ
Inlet water temperature	31.89	31.89	31.89	31.89	31.89
Outlet water temperature	35.07	35.07	35.07	35.07	35.07
Heating Capacity	5439.50	6796.49	8908.37	12199.48	15549.09
Input Power	1588.50	1979.59	2541.74	3210.65	4044.45
COP	3.42	3.42	3.49	3.80	3.83
MODEL **Air temp @ 7c w 35c**					
Compressor speed （Hz）	90HZ	90HZ	90HZ	76HZ	76HZ
Inlet water temperature	31.9	31.89	31.89	31.89	31.89
Outlet water temperature	35	35.24	34.89	35	35
Heating Capacity	7454	9217.13	11671	15516.23	18526.38
Input Power	1652.0	2055.86	2683	3297.1	4141.91
COP	4.50	4.48	4.3	4.71	4.47
Compressor speed （Hz） **Air temp @-2c w 55c**					
Inlet water temperature	90HZ	90HZ	90HZ	76HZ	76HZ
Outlet water temperature	50.10	50.10	50.20	50.10	50.20
Heating Capacity	55.02	55.02	55.02	55.02	55.02
Input Power	4206.50	5867.08	7570.43	9959.88	11109.15
COP	2107.00	2919.07	3765.72	4677.79	4829.16
	1.99	2.00	2.01	2.12	2.29
Compressor speed （Hz） **Air temp @ 7c w 55c**					
Outlet water temperature	90HZ	90HZ	90HZ	76HZ	76HZ
Heating Capacity	50.1	50.2	50.10	50.82	50.10
Input Power	54.9	54.87	55.00	55	55
COP	5698	7916.58	9866	12916.27	17676.86
	2193	3092.68	3751	4804.07	5955.82
	2.6	2.56	2.6	2.69	2.97

UNIT		YHPK-6V1TBA	YHPK-9V1TBA	YHPK-12V1TBA	YHPK-15V1TBA	YHPK-19V1TBA
Compressor		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Fan		1 no. 34 watt	1 no. 45 watt	1 no. 45 watt	2 no. 34 watt	2 no. 34 watt
Noise level dB		52	53	52	55	59
Water side		Plate heat exchanger: Pipe work connection: 1"	Plate heat exchanger: Pipe work connection: 1"	Plate heat exchanger: Pipe work connection: 1"	Plate heat exchanger: Pipe work connection: 11/4"	Plate heat exchanger: Pipe work connection: 11/4"
Dimensions	Indoor unit	570x550x255	570x550x255	570x550x255	570x550x255	570x550x255
	Outdoor unit	1010x370x700	1165x370x845	1165x370x845	1085x390x1450	1085x390x1255
Net weight	Indoor unit	25Kg	25Kg	25Kg	25Kg	25Kg
	Outdoor unit	67Kg	78Kg	85Kg	120Kg	130Kg

HARNITEK HEAT PUMPS

Power XR

The Class leading Harnitek power XR is the ideal high output air source heat pump, for replacing fossil fuel boilers.

-Outputs of up to 90kW
-Flow temperatures of up to 60c
-Cascade up to 16 units
-BMS ready control unit
-Simple installation
-Highly efficient A+++ erp rated
-Built in weather compensation
-Cost effective solution

The Power XR range has been designed to make the transition from large output fossil systems to a renewable alternative both economical and straightforward.

Cascade
One operation panel can control up to 16 units

Heating Curve
Adjust outlet water temp. based on ambient temp. automatically

Modbus
Easy to communicate with BMS for smart building

Run in rotation
When two or more units are connected in the system, every unit runs alternately

WIFI module
Remote control, easy for service

Smart defrosting
Maximum 1/3 of the units are allowed to defrost at same time, for stable temperature of the whole system

Two Mixing Circuits
Two mixing circuits control for different heating zones

Emergency Operation
If master unit is off-line, by turning on the emergency switch, eachheat pump unit can work individually according to last working command

The in built control system allows for easy integration with other thermal technologies and existing BMS.

It is becoming increasingly important to have a detailed understanding of our energy usage, especially in a commercial environment.

The inbuilt “performance Hub gateway”, gives a real time view of system operation and performance, from anywhere in the world.

This Data is logged on our online monitoring platform, keeping an accurate record of performance and energy consumption throughout the year. This information is a powerful tool for optimising and maintaining your heating system.

As with all Harnitek heat pumps the power XR range has simplicity of installation & maintenance as a core design principle. We believe these systems are less time consuming to install & maintain than commercial fossil fuel systems.

Our UK based technical support team are on hand to assist with the set up and maintenance of your equipment.

Technical Data

Model					
IP rating			YHEPK-30V4MB	YHEPK-45V4MA	YHEPK-90V4MA
Power Supply			IPX4	IPX4	IPX4
Power Supply - Outdoor unitOutdoor Unit		IPXX			
Fuse Outdoor Unit			400V/50Hz/3Ph	400V/50Hz/3Ph	400V/50Hz/3Ph
Performance		V/ Hz	3P/25A/C	3P/40A/C	3p/80A/C
Min/Max Heating Capacity (1)		/Ph A			
El. Heating Power Input Min/Max (1)			15.2~28.7	13.7~43.7	27.4~89.6
C.O.P (1) Min/Max(1)		KW	3467~7488	3325~12077	6650~24254
Min/Max Heating Capacity (2)		W	3.83~4.43	3.62~4.42	3.68~4.50
El. Heating Power Input Min/Max (2)		W/W	12.2~29.4	13.6~43.2	28.2~89.5
C.O.P (1) Min/Max(2)		KW	3769~9035	4156~14308	8212~28300
SCOP - Average Climate, Low Temperature		W	3.26~3.43	2.99~3.38	3.16~3.48
Energe class		W/W	4.06	4.12	4.2
Min/Max C ooling Capacity(3)		W	A++	A++	A++
El. Cooling Power Input Min/Max(3)			15.2~26.8	17.7~32.0	36.4~66.0
E.E.R. Min/Max(3)		KW	3253~8765	3491~11771	6982~23742
Min/Max C ooling Capacity(4)(A35/W7)		W	3.06~4.68	2.72~5.09	2.8~5.19
El. Cooling Power Input Min/Max(4)		W/W	7.3~21.2	11.2~29.9	23.4~61.2
E.E.R. Min/Max(4)		KW	3121~7960	3529~11640	6880~23450
SEER - Cooling		W	2.33~2.84	2.57~3.3	2.61~3.4
Min/Max Ambient Working Temp. in Heating Mode		W/W			
Min/Max Ambient Working Temp. in Cooling Mode		W	-25-45	-25-45	-25-45
Max Flow Temp. in Heating Mode		°C	20-45	20-45	20-45
Min Flow Temp. in Heating Mode		°C	60	60	60
Min Flow Temp. in Cooling Mode		°C	10	10	10
Sound Power LevelOutdoor Unit		°C	5	5	5
Indoor Unit		°C	62	66	69
Components		dB(A)	/	/	/
Compressor Heater		dB(A)			
Fan Quantity			30	30	30*2
	Airflow	W	1	1	2
Rated power		pcs	5250*2	13500	13500*2
Blade Diameter		m3 /h	93*2	800	800*2
Plate Heat ExchargerWater Pressure Drop		W	552*2	760	760*2
Piping Connection		mm	60	80	65
RefrigerantType		kPa	1 12" Inner Gorve	2" Inner Gorve	DN65 Flange
Charge		Inch	R410A	R410A	R410A
Compressor Type		/	5.2kg	8kg	8kg*2
Compressor Oil		kg	Inverter+EVI	Inverter+EVI	Inverter+EVI
Comp. Oil Volume		/	FVC68S	FVC68D	FVC68D
Hydraulics		type	1.9	2.3	2.3L*2
Minimum Water Flow		L			
Nominal Water Flow			2.7m3 /h	5m3 /h	10m³/h
Hydraulics Connections		m3 /h -	5.3m3 /h	8m3 /h	16m³/h
Dimensions and Weight		l/s m3	1 12" Inner Gorve	2" Inner Gorve	DN65 Flange
Net Dimensions(LxDxH)		/h - l/s			
		size	1295*455*1450	1010*1160*165	2160*1200*165
Brutto Dimensions(LxDxH)	Outdoor Unit		385*476*150	0 385*476*150	0 385x476x150
	Indoor Unit	mm	1325*475*1580	1030*1180*175	2180x1220x175
Net Weight	Outdoor Unit	mm	400*490*180	0 400*490*180	0 400x490x180
	Indoor Unit	mm	180	300	600
Brutto Weight	Outdoor Unit	mm	9	9	9
	Indoor Unit	kg	200	370	680
Included with The Unit	Outdoor Unit	kg	10	10	10
Temperature Sensors	Indoor Unit	kg			
WIFI Module		kg	5K,B=3470	5K,B=3470	5K,B=3470
Communication Cable			Yes	Yes	Yes
		type	20	20	20
		Yes / No			
		m			

Note:

(1) Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB TCNVB 6°C;

(2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°CNVB 6°C;

(3) Cooling condition: water inlet/outlet temperature: 23°C/18°C, Ambient temperature: DB 35°C/VVB 24°C;

(4) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB 35°C/VVB 24°C.

HARNİTEK

THERMOPOD

Thermodynamic Heat Pumps for Hot Water

MCS CERTIFIED

Independently tested Intertek

Exclusively tested for HARNİTEK

- Energy saving 46% with solar
- Water heating energy efficiency is 166% with solar
- COP_{DHW} value is 4.287 under the test ambient temperature 7°C with solar

Based on testing of specific samples provided by the manufacturer and tested under laboratory conditions.

Intertek

Why choose ThermoPOD?

Solar Hot Water That Works In The Dark!

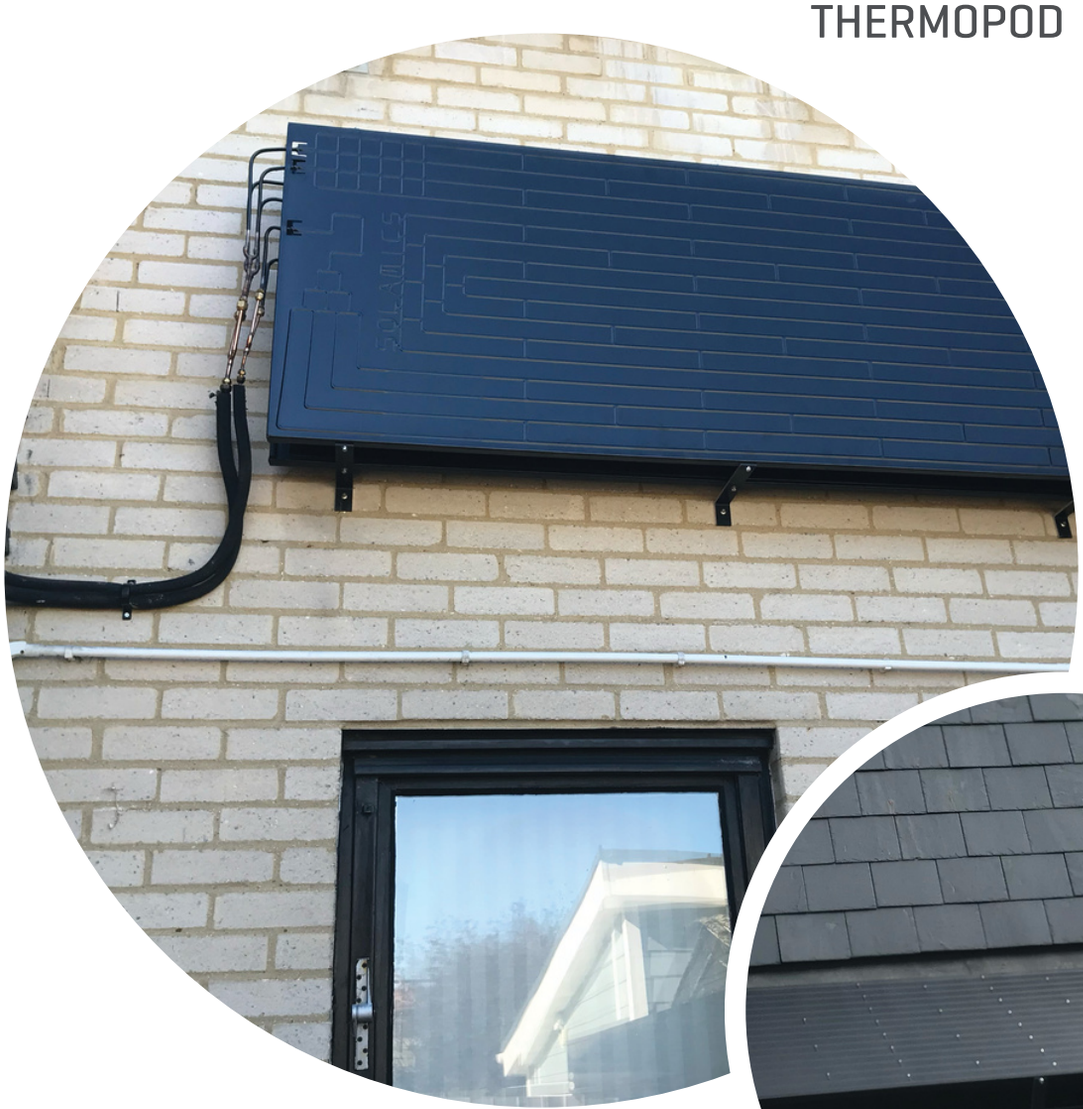
Are you tired of high energy bills and looking for a more sustainable solution for your hot water needs?

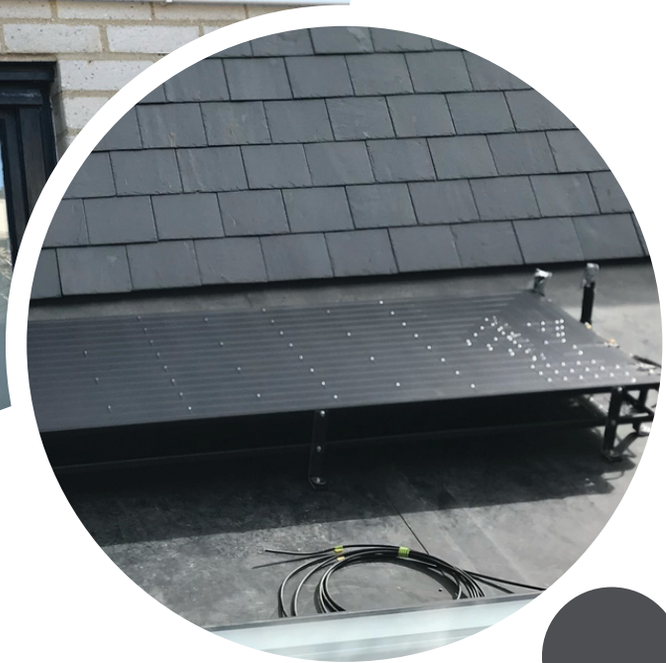
Look no further than ThermoPOD renewable hot water systems! Our innovative system uses the limitless free energy from the outside air to heat water.

Not only is this more environmentally friendly than using fossil fuels or direct electric immersion heaters, but it can also save you money on your energy bills.

ThermoPOD systems are easy to install and require minimal maintenance. They are also durable and built to last, so you can enjoy hot water for years to come.

So why wait? Make the switch to a Thermo-POD renewable hot water system today and start saving money and the environment!





ThermoPOD is a state-of-the-art, solar assisted heat pump that has been designed to deliver superior power and efficiency.

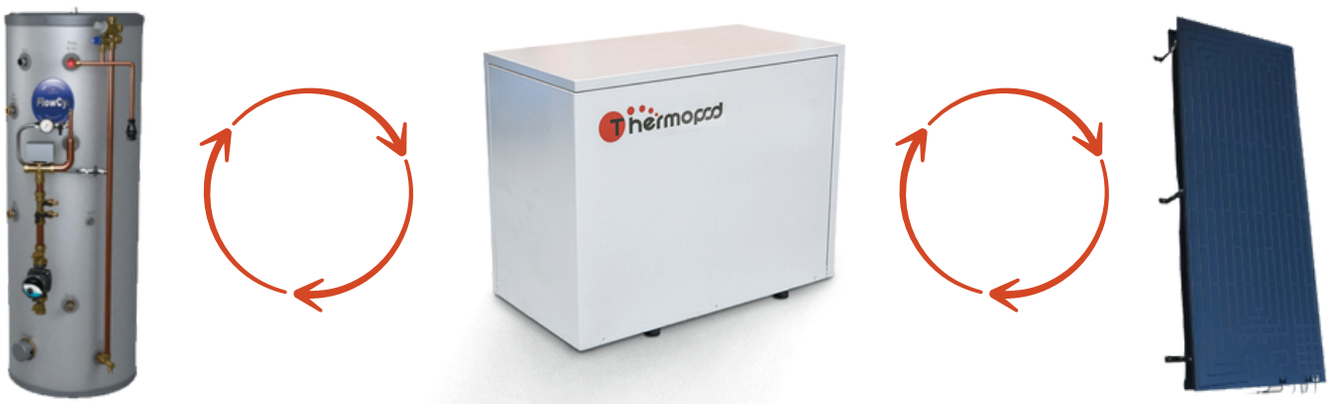
Our next- generation units, which are ERP A rated can be cascaded to meet larger hot water demands, ThermoPOD uses less than 500 watts per hour during operation and is capable of providing hot water to a family home year-round.

ThermoPOD has been installed in homes and businesses across the globe, including holiday resorts, restaurants, and salons.

Our units have been rigorously tested by Intertek, a world-renowned testing institute, and have achieved a COP of 4.3 at an average temperature of 7°C!

This impressive efficiency, combined with our robust design and makes ThermoPOD the ideal choice for almost any property's hot water requirements.

How does ThermoPOD work?



01

The ThermoPOD is a solar-assisted heat pump which collects the unlimited free energy in the outside air to produce hot water.

02

An ozone friendly refrigerant is passed though the collector panels. The refrigerant collects this free energy and transfers it into your hot water cylinder, via a robust tube in tube heat exchanger.

03

The ThermoPOD collector panels can be mounted on a wall, roof, or other flat surface, making the system adaptable to a variety of installations.

04

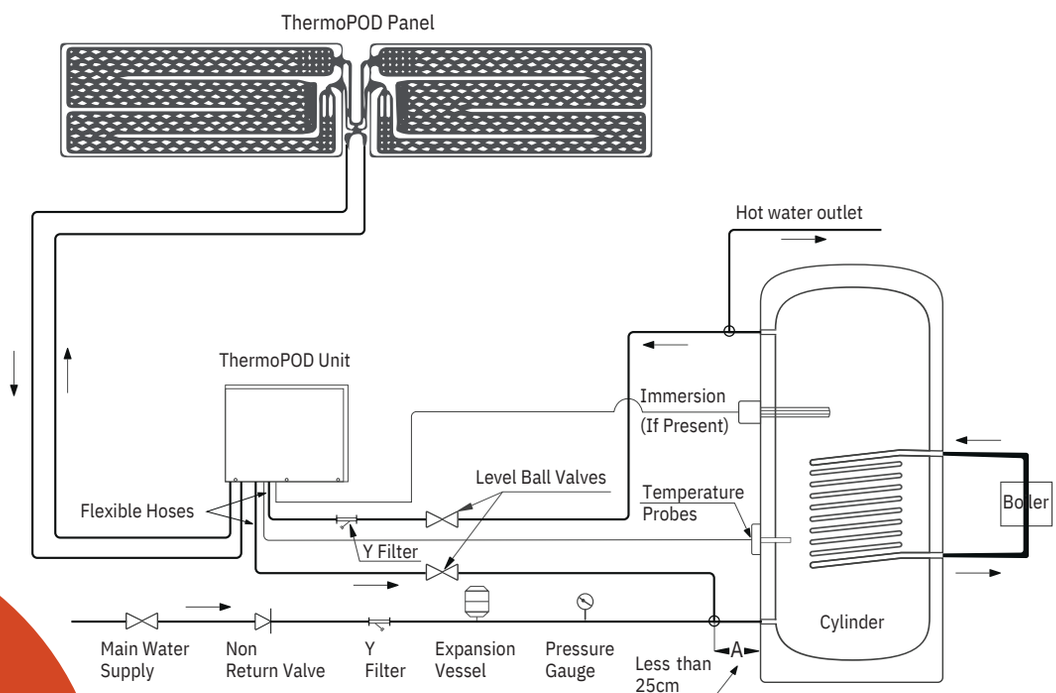
One of the unique features of the ThermoPOD is its ability to effectively operate at temperatures as low as -10°C. This makes it a suitable choice for locations with colder climates. Additionally, the system is able to continue working at night.

05

ThermoPOD can help to lower energy costs and reduce carbon emissions.

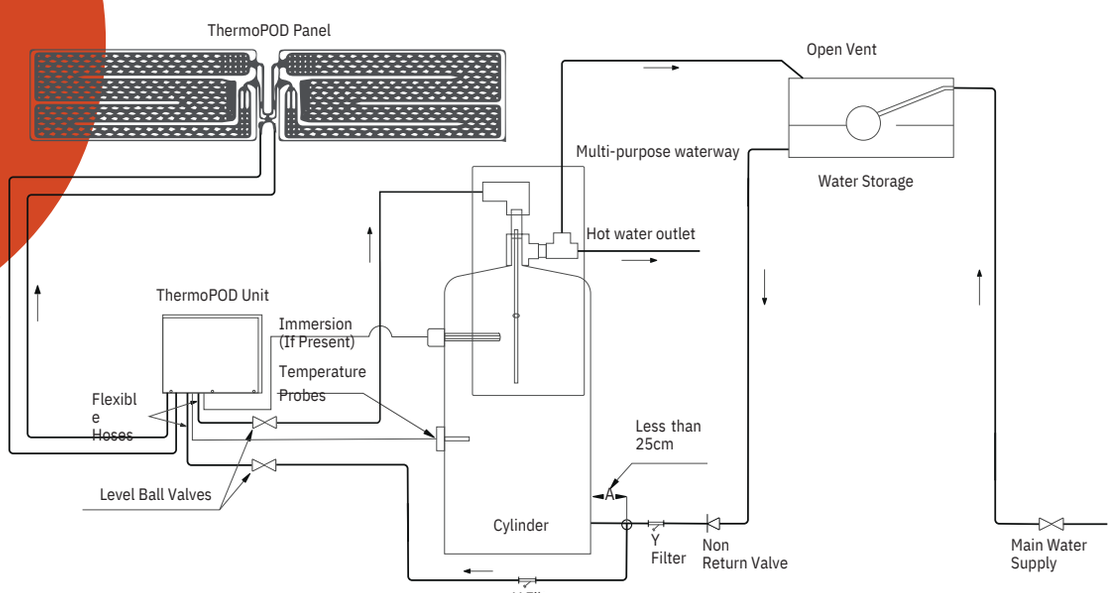
Flexible Installation Options

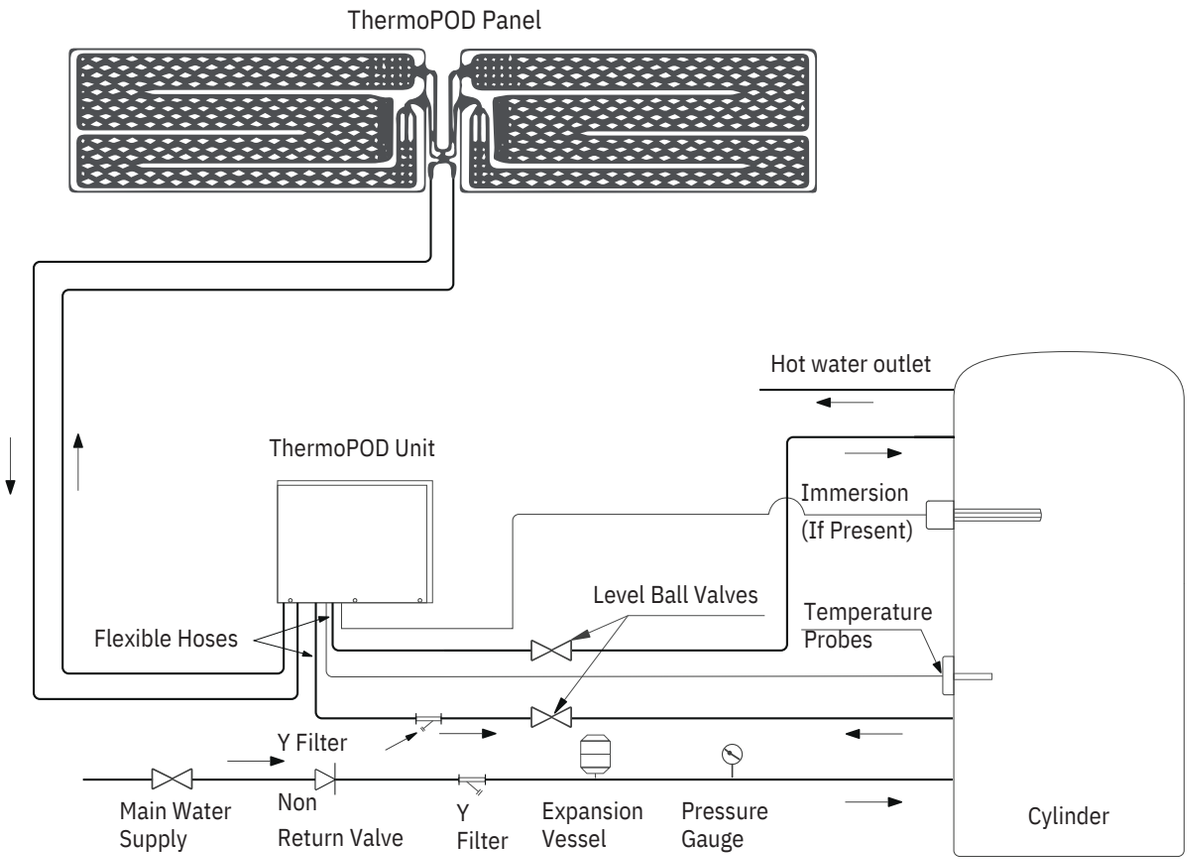
-Works with any unvented hot water cylinder - Hybrid system ready
-Multiple flow temps
-Smart monitoring & remote control
-WRAS approved Circulation pump
-LCD touch screen controls - Wiring centre
-Legionella protection
-F-gas required

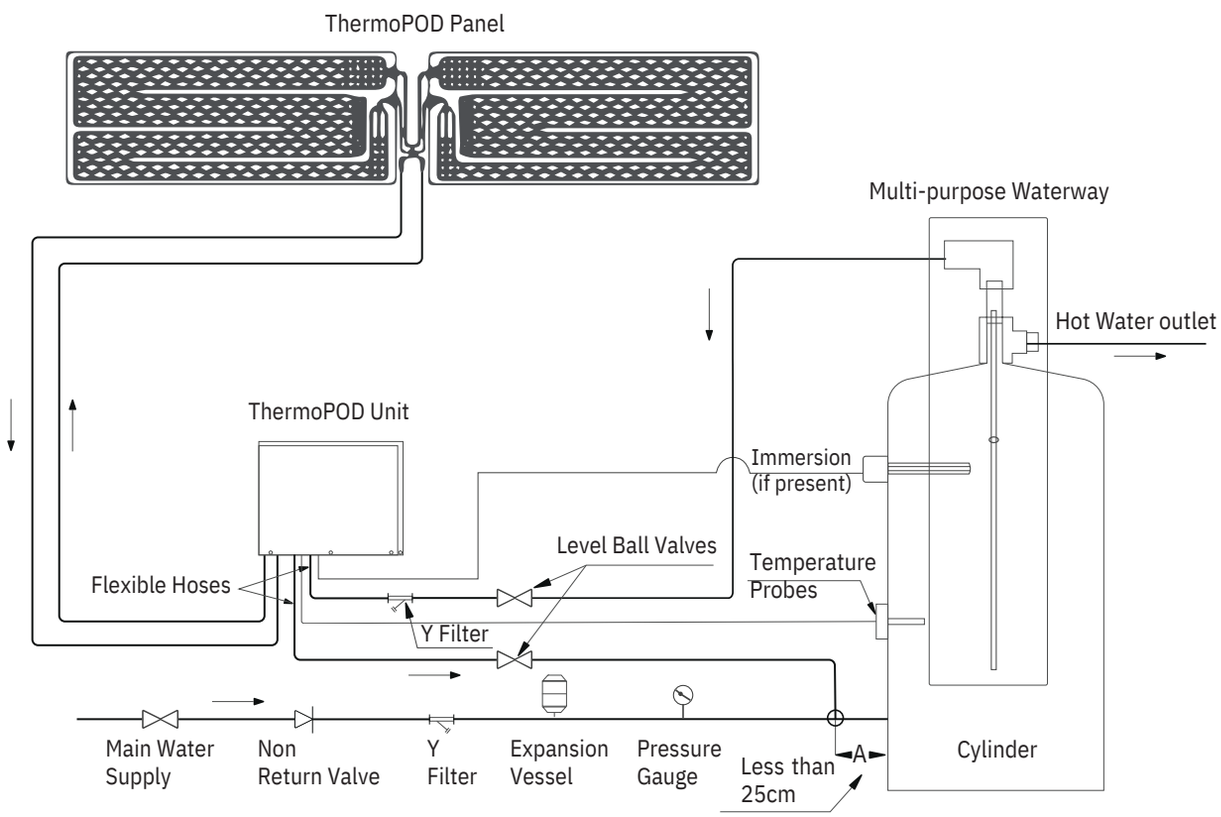


COP of 4.3@ 7c air temperature and 55c water temperature - ERP A Rated

-High quality finish
-Flow Temperatures of up to 60c




ThermoPOD Panel
Hot water outlet
ThermoPOD Unit
Immersion
(If Present)
Level Ball Valves
Temperature
Probes
Flexible Hoses
Y Filter
Main Water
Supply
Non
Return Valve
Y
Filter
Expansion
Vessel
Pressure
Gauge
Cylinder


ThermoPOD Panel
Multi-purpose Waterway
Hot Water outlet
ThermoPOD Unit
Immersion
(if present)
Level Ball Valves
Temperature
Probes
Flexible Hoses
Y Filter
Main Water
Supply
Non
Return Valve
Y
Filter
Expansion
Vessel
Pressure
Gauge
Less than
25cm
A
Cylinder

DUAL-COOL RADIATOR

AVAILABLE IN **0.7KW**, **1.4KW**, **2KW** AND **3KW** OUTPUT AT JUST 35C FOW TEMPERATURE!

Achieve excellent SCOP and year round comfort from your air source heat pump

HARNITEK

Harnitek DUAL COOL RADIATOR:

Fan coil radiators circulate hot or cold water through a coil and use a fan to distribute the resulting heated or cooled air throughout a room. The fan draws in air and passes it over the coil, where it is heated or cooled. The heated or cooled air is then distributed back into the room through vents. Fan coil radiators provide energy efficiency and precise temperature control, making them a popular choice for residential and commercial spaces.

European maufactured valves

Slim Design

Touch screen operation

Coil with Hydrophilic Aluminum Fin

Ultra low noise fan

Built in air filter

Variable speed Motor **DC**

Harnitek DUAL COOL Super-Slim SMART rad is the ultimate modern radiator.

The coil is comprised of a high-quality seamless copper tube and aluminum sinusoidal corrugated heat sink that is specially formed using our unique process. The tightly fitted fins and copper tube maximize thermal efficiency. The unit's ultra-wide-angle volute, multi-blade centrifugal barrel fan, and ultra low noise operation are designed to meet a range of heating and cooling applications.

By optimizing the motor's performance, the air volume supply remains consistent even when the fan load changes.

The brass distributor and water collector are formed through a one-piece forging and pressing process, ensuring uniform distribution of chilled water within the coil. Additionally, it reduces water flow resistance, maximizing the heat exchanger's efficiency and minimizing water system flow resistance.

You can be assured of reliability, and a long life expectancy.

The induction motor is equipped with a built-in overheat protection,

Harnitek KELVIN is ideal for low-noise environments such as homes, hotels, office buildings, shopping malls, hospitals.

Universal Super-Slim Fan Coil Unit

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
High Speed	Cooling	7	748	1496	2154	3120
		12	480	960	1412	2066
	Heating	35	552	1104	1558	2103
		38	611	1222	1737	2426
		40	680	1360	1936	2939
		43	756	1511	2102	3045
		45	834	1668	2390	3419
		48	932	1864	2631	3894
		50	994	1987	2837	4227
		53	1072	2145	3138	4467
		55	1120	2240	3539	4778
		58	1193	2387	3789	4991
		60	1284	2567	3860	5414
		63	1337	2674	4175	5705
		65	1394	2787	4289	5744
		68	1459	2917	4547	5968
		70	1553	3106	4629	6335

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
Medium Speed	Cooling	7	684	1368	2005	2927
		12	384	767	1116	1907
	Heating	35	496	992	1343	1899
		38	588	1175	1518	2246
		40	624	1248	1825	2658
		43	735	1470	1976	2759
		45	806	1612	2232	3365
		48	898	1795	2523	3629
		50	936	1871	2678	3667
		53	993	1986	3065	4202
		55	1028	2056	3322	4455
		58	1131	2261	3499	4526
		60	1169	2337	3666	5059
		63	1218	2437	3806	5331
		65	1305	2611	3951	5444
		68	1359	2718	4134	5704
		70	1456	2913	4336	6335

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
Low Speed	Cooling	7	574	1148	1834	2536
		12	376	752	1058	1590
	Heating	35	378	756	1166	1636
		38	473	947	1273	2049
		40	553	1106	1514	2290
		43	604	1208	1665	2405
		45	665	1330	1911	2886
		48	722	1443	2163	3040
		50	765	1531	2247	3131
		53	813	1627	2604	3616
		55	868	1736	2818	3843
		58	965	1931	2948	4029
		60	1011	2022	3279	4322
		63	1046	2091	3401	4391
		65	1089	2179	3492	4583
		68	1193	2385	3564	4830
		70	1229	2457	3681	4985

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
Super Low Speed	Cooling	7	N/A	N/A	N/A	N/A
		12	N/A	N/A	N/A	N/A
	Heating	35	366	732	1060	1535
		38	405	810	1231	1761
		40	494	989	1474	2047
		43	556	1113	1566	2203
		45	571	1142	1682	2635
		48	662	1323	1861	2807
		50	692	1384	2036	2822
		53	729	1459	2337	3237
		55	754	1509	2468	3485
		58	844	1687	2641	3816
		60	857	1715	2906	3912
		63	932	1865	2987	3965
		65	968	1936	3021	4089
		68	1017	2033	3090	4387
		70	1089	2178	3360	4555

TEL:
01274 921212

EMAIL:
info@harnitekheatpumps.co.uk

ADDRESS:
Unit 3F, Acre Park, Dalton Road,
Keighley, BD21 3JH

HARNITEK