



MasterTherm

HEAT PUMPS

Heat Pumps

Master premium series

2016/2017

www.mastertherm.co.uk



quality advantageous modern
praised practical praised
reliable Czech ecological
traditional silent quality silent
economical reliable
modern Czech ecological practical
praised quality advantageous Czech
economical easy silent reliable practical
traditional practical quality silent
economical reliable easy
modern Czech ecological praised practical
praised silent advantageous Czech
economical quality silent reliable practical
quality advantageous modern
praised practical praised
reliable Czech ecological



COMPACT ON-OFF HEAT PUMPS AIR TO WATER

BoxAir



MODERN COMPACT UNIT ELECTRONICALLY
CONTROLLED WITH INTERNET CONTROL



The BoxAir heat pump is a highly efficient and cost effective source of providing heating, cooling and domestic hot water. The compact construction and use of anti-corrosive materials are designed for outdoor installation saving space inside the property. The use of scroll compressors and low-noise fans allow complaint free installation in high density built-up areas. The entire power range is newly fitted with EC fans with variable speed control. The low cost of the installation ensures a quick return on investment even in low heat loss houses. Heat pump BoxAir is the holder of Grand Prix For Arch award and Aqua Therm Certificate of Merit.

BoxAir – AIR – WATER

model	A7W35 ¹⁾		A2W35		3 phase units		1 phase units	
	power	COP	power	COP	circuit breaker ²⁾	order number	circuit breaker ²⁾	order number
BA-22Z-2015	8,2 kW	4,4	6,1 kW	3,3	16A"C"	BA22Z-1	20A"C"	BA22Z1-1
BA-26Z-2015	10,6 kW	4,2	7,9 kW	3,2	25A"B"	BA26Z-1	25A"C"	BA26Z1-1
BA-30Z-2015	12,2 kW	4,3	9,1 kW	3,2	25A"B"	BA30Z-1	32A"C"	BA30Z1-1
BA-37Z-2015	15,4 kW	4,5	11,5 kW	3,4	25A"C"	BA37Z-1	32A"C"	BA37Z1-1
BA-45Z-2015	18,2 kW	4,5	13,7 kW	3,5	25A"C"	BA45Z-1	–	–

Standard equipment - BoxAir

- ✓ Graphic terminal PGD
- ✓ Low-noise EC fan
- ✓ Equitherm control system MaR Carel
- ✓ Built-in immersion heater and circulation pump
- ✓ Electronically controlled coolant injection
- ✓ Control of three heating circuits (1x hot water +2x heating water)

Features - BoxAir

- ▶ Use for heating and cooling
- ▶ The temperature of heating water to 55 °C
- ▶ Ecological refrigerant R407C
- ▶ Temperatures range from +30°C to -20°C
- ▶ Outdoor compact
- ▶ Very easy installation, quiet operation
- ▶ Control up to 6 heating circuits

¹⁾ Performance data acc. to EN14511. A7W35 - air inlet 7°C, water outlet 35°C, defrost energy considered.

²⁾ The recommended value of el. protection 3x400 V, including an integrated auxiliary electric heater 1x230 V without auxiliary electric heater

Options - BoxAir

type	order number
Internet HP control	1OINT
Full Cooling reversing	1OCH
Terminal pAD temperature compensation	1OPAD
Terminal pADh floor cooling	1OPADH
Three phase relay	1OSF
Softstart	1OSS
Expanded control module	1OEK
RAL code colours on demand	1OCO
Red, grey, green or silver colour	

BoxAir	compressor	dimensions (mm)	weight (kg)
BoxAir-22Z-2015	LG	1040x1300x530	120
BoxAir-26Z-2015	Sanyo	1650x1300x530	150
BoxAir-30Z-2015	Sanyo	1650x1300x530	176
BoxAir-37Z-2015	Sanyo	1650x1300x530	178
BoxAir-45Z-2015	Sanyo	1650x1300x530	180

More information: www.mastertherm.co.uk



CUTTING EDGE TECHNOLOGY
IN A PROVEN COMPACT PACKAGE

COMPACT INVERTER HEAT PUMPS
AIR - WATER

BoxAir Inverter

The BoxAir Inverter won two major awards - the Grand Prix at Arch and the Gold Medal for the best exhibit at Aqua Therm. The proven and desirable compact design, electronic control of the expansion valve, inverter Brush Less DC compressor offers many advantages compared to standard compressors. The ability to modulate the compressor based on actual heat demand considerably impacts on consumption and life-span of the equipment reducing operating costs by up to 20%. In most cases there is no need for a buffer tank, which saves space in the plantroom and reduces installation costs. The unit is fitted with variable speed fans and circulation pumps. Built-in controller, electric backup immersion heater and equithermal regulation are standard with the option of internet control.



BoxAir Inverter – AIR – WATER													
	model	A7W35 power	Heat loss	A7W35 60Hz ¹⁾ power	COP	A2W35 60Hz power	COP	A-7W35 80Hz power	COP	A-15W35 90Hz power	COP	circuit breaker ²⁾	order number
3 phase units	BoxAir 22I	2-8 kW	to 6 kW	4,9 kW	4,7	3,6 kW	3,5	3,6 kW	2,8	3,2 kW	2,6	16A"B"	1BA22I-1
	BoxAir 26I	3-9 kW	to 8,5 kW	8,1 kW	4,8	5,8 kW	3,5	5,5 kW	2,8	5,1 kW	2,5	20A"B"	1BA26I-1
	BoxAir 30I	5-13 kW	to 10 kW	8,65 kW	5,2	6,25 kW	3,8	6,0 kW	2,9	5,3 kW	2,4	25A"B"	1BA30I-1
	BoxAir 45I	7-22 kW	to 16 kW	15,3 kW	4,7	10,6 kW	3,5	11,1 kW	2,75	9,8 kW	2,2	32A"B"	1BA45I-1
1 phase units	BoxAir 22I	3-8 kW	to 6 kW	4,9 kW	4,7	3,6 kW	3,5	3,6 kW	2,8	3,2 kW	2,6	20A"B"	1BA22I-1
	BoxAir 26I	3-9 kW	to 8,5 kW	8,1 kW	4,8	5,8 kW	3,5	5,5 kW	2,8	5,1 kW	2,5	20A"B"	1BA26I-1
	BoxAir 30I	5-13 kW	to 10 kW	8,65 kW	5,2	6,25 kW	3,8	6,0 kW	2,9	5,3 kW	2,4	25A"B"	1BA30I-1
	BoxAir 45I	7-22 kW	to 16 kW	15,3 kW	4,7	10,6 kW	3,5	11,1 kW	2,75	9,8 kW	2,2	32A"B"	1BA45I-1

Standard equipment - BoxAir Inverter
✓ Graphic terminal PGD
✓ Variable output Inverter Compressor
✓ Low-noise EC fan
✓ Equitherm control system MaR Carel
✓ Built-in immersion heater and circulation pump
✓ Electronically controlled coolant injection
✓ Control of three heating circuits (1x hot water +2x heating water)

Features - BoxAir Inverter
► Use for heating and cooling
► The temperature of heating water to 60 °C
► Ecological refrigerant R410a
► Temperatures range from +30°C to -20°C
► Outdoor compact
► Very easy installation, quiet operation
► No buffer tank required
► Control up to 6 heating circuits

Options - BoxAir Inverter	
type	order num.
Internet HP control	1OINT
Full Cooling reversing	1OCH
Terminal pAD temperature compensation	1OPAD
Terminal pADh floor cooling	1OPADH
Expanded control module	1OEK
RAL code colours on demand	1OCO
Red, grey, green or silver colour	

BoxAir Inverter	Energy efficiency, moderate climates, EN 14 825		compressor	dimensions (mm)	weight (kg)
	W35	W55			
BoxAir 22I	A++	A++	LG	1036x1300x526	115
BoxAir 26I	A++	A++	LG	1036x1300x526	120
BoxAir 30I	A+++	A++	LG	1650x1300x530	155
BoxAir 45I	A++	A++	LG	1650x1300x530	165

¹⁾ Performance data acc. to EN14511, in accordance with the EHPA requirements to assign quality label Q. A7W35 - air inlet 7°C, water outlet 35°C, defrost energy considered. Compressor frequency 60 Hz

²⁾ The recommended value of el. protection 3x400 V, including an integrated auxiliary electric heater 1x230 V without auxiliary electric heater

More information: www.mastertherm.co.uk

SPLIT TYPE ON-OFF AIR SOURCE HEAT PUMPS

Easy Master



MODERN COMPACT UNIT WITH ELECTRONICALLY
CONTROLLED COOLANT INJECTION



The EasyMaster heat pump is an excellent choice for heating / cooling and DHW (Domestic Hot Water) supply as it is cost-effective and environment friendly with an excellent price-performance ratio. The split construction brings its traditional advantages in the form of ultra quiet outdoor unit and the protection of the main parts of the heat pump inside the building. Although this is the most cost effective split type heat pump on the domestic market it is equipped with high quality, quiet and durable Sanyo compressor. It also includes technology for electronic control of the refrigerant injection, equithermal regulation and in the spirit of the tradition of the brand name all components are from reputable manufacturers. A wide range of optional accessories allows retrofit according to the specific requirement, including the desuperheater for high efficiency DHW supply with internet control.

Easy Master – AIR – WATER

model	A7W35 ¹⁾		A2W35		3 phase units		1 phase units	
	power	COP	power	COP	circuit breaker ²⁾	order number	circuit breaker ²⁾	order number
EM-26Z	10,6 kW	4,2	8,1 kW	3,2	20 A "B"	1EM26Z-1	25A "C"	3EM26Z1-1
EM-30Z	12,2 kW	4,3	9,4 kW	3,3	20 A "B"	1EM30Z-1	32A "C"	3EM30Z1-1
EM-37Z	15,4 kW	4,5	11,8 kW	3,5	25 A "B"	1EM37Z-1	32A "C"	3EM37Z1-1
EM-45Z	18,0 kW	4,4	13,9 kW	3,5	25 A "B"	1EM45Z-1	-	-
External unit								
EM-60Z	24,6 kW	4,1	18,8	3,2	25 A "C"	1EM60Z-1	-	-
EM-75Z	30,8 kW	4,0	23,2	3,2	25 A "C"	1EM75Z-1	-	-
External unit								

Standard equipment - EasyMaster

- ✓ Integrated graphic terminal PGD
- ✓ Electronically controlled coolant injection
- ✓ Equitherm control system MaR Carel
- ✓ Built-in immersion heater (models 1EM26Z-1 to 1EM45Z-1)
- ✓ Built-in circulation pump
- ✓ Control of 3 heating circuits (1x hot water + 2x heating water)

Features - EasyMaster

- ▶ Use for heating and cooling
- ▶ The temperature of heating water to 55 °C
- ▶ Ecological refrigerant R407c
- ▶ Temperatures range from +30°C to -20°C
- ▶ Split design
- ▶ Quiet operation
- ▶ Control up to 6 heating circuits

Options - EasyMaster

type	order num.
Internet HP control	1OINT
Full Cooling reversing	1OCH
Terminal pAD temperature compensation	1OPAD
Terminal pADh floor cooling	1OPADH
Desuperheater	1ODESUP
Softstart	1OSS
Three phase relay	1OSF
Ext.electric heater 7,5+7,5kW (60-75Z)	1OETA1M15
Ext.electric heater 12+18kW (60-75Z)	1OETA1M30
Expanded control module	1OEK
RAL code colours on demand (ext. unit)	1OCO
External unit (grey, green or silver colour)	
External unit 4legs vertical, horizontal or console mod.26Z to 45Z	
Internal unit (red, grey colour)	

EasyMaster	compressor	dimensions (mm)	weight (kg)
EasyMaster-26Z	Sanyo	1200x530x720	160
EasyMaster-30Z	Sanyo	1200x530x720	160
EasyMaster-37Z	Sanyo	1200x530x720	170
EasyMaster-45Z	Sanyo	1200x530x720	180
external unit		1234x1246x460	70
EasyMaster-60Z	Sanyo	1200x530x720	200
EasyMaster-75Z	Sanyo	1200x530x720	200
external unit		1646x1012x817	80

More information: www.mastertherm.co.uk

¹⁾ Performance data acc. to EN14511. A7W35 - air inlet 7°C, water outlet 35°C, defrost energy considered.

²⁾ The recommended value of el. protection 3x400 V, including an integrated auxiliary electric heater 1x230 V without auxiliary electric heater

Units 60Z and 75Z has no integrated auxiliary electric heater.



EXTREMELY FLEXIBLE SOLUTION FOR INDOOR INSTALL
IN SELF CONTAINED HOUSES AND BLOCKS OF FLATS

SPLIT TYPE ON-OFF AIR SOURCE
HEAT PUMPS

Easy Master Indoor Split

Our latest offer represents a brand new concept of heat pumps for indoor installation. The split design of the unit allows easy handling and great flexibility of the plantroom's spatial layout. Unlike the competing mono-blocks the EasyMaster Indoor Split unit's spatial requirements are significantly lower while offering greater adaptability in terms of the plantroom layout. The evaporator can be mounted up to 15 meters from the main unit and the two parts can be for example installed in two separate premises. The Indoor Split concept is very suitable for a cascade connection of up to several hundred kW in residential and prefabricated buildings, where the outdoor installation is usually not possible and the limited size of the existing plantrooms has to be made use of. All the advantages of the Easy Master heat pump are retained: a robust design, top quality rated product, electronic refrigerant injection and state-of-the-art control are all in place.



Easy Master Indoor Split – AIR – WATER

model	A7W35 ¹⁾		A2W35		3 phase units		1 phase units	
	power	COP	power	COP	circuit breaker ²⁾	order number	circuit breaker ²⁾	order number
EM-26Z	10,6 kW	4,2	8,1 kW	3,2	20 A "B"	1EM26Z-1	25A "C"	3EM26Z1-1
EM-30Z	12,2 kW	4,3	9,4 kW	3,3	20 A "B"	1EM30Z-1	32A "C"	3EM30Z1-1
EM-37Z	15,4 kW	4,5	11,8 kW	3,5	25 A "B"	1EM37Z-1	32A "C"	3EM37Z1-1
EM-45Z	18,0 kW	4,4	13,9 kW	3,5	25 A "B"	1EM45Z-1	-	-
Unit with evaporator - modification						10EM26-45VK	-	10EM26-45VK
EM-60Z	24,6 kW	4,1	18,8	3,2	25 A "C"	1EM60Z-1	-	-
EM-75Z	30,8 kW	4,0	23,2	3,2	25 A "C"	1EM75Z-1	-	-
Unit with evaporator - modification						10EM607590VK	-	-

Standard equipment EasyMaster Indoor Split

- ✓ Integrated graphic terminal PGD
- ✓ Electronically controlled coolant injection
- ✓ Equitherm control system MaR Carel
- ✓ Built-in immersion heater (models 1EM26Z-1 to 1EM45Z-1)
- ✓ Built-in circulation pump
- ✓ Control of 3 heating circuits (1x hot water + 2x heating water)

Features EasyMaster Indoor Split

- ▶ Use for heating and cooling
- ▶ The temperature of heating water to 55 °C
- ▶ Ecological refrigerant R407c
- ▶ Temperatures range from +30°C to -20°C
- ▶ Split design
- ▶ Quiet operation
- ▶ Control up to 6 heating circuits

EasyMaster IS	compressor	dimensions (mm)	weight (kg)
EasyMaster-26Z	Sanyo	1200x530x720	160
EasyMaster-30Z	Sanyo	1200x530x720	160
EasyMaster-37Z	Sanyo	1200x530x720	170
EasyMaster-45Z	Sanyo	1200x530x720	180
Unit with evaporator - modification		1394x1012x664	60
EasyMaster-60Z	Sanyo	1200x530x720	200
EasyMaster-75Z	Sanyo	1200x530x720	200
Unit with evaporator - modification		1394x1012x1012	80

Options - EasyMaster Indoor Split 0

type	order num.
Internet HP control	1OINT
Full Cooling reversing	1OCH
Terminal pAD temperature compensation	1OPAD
Terminal pADh floor cooling	1OPADH
Desuperheater	1ODESUP
Softstart	1OSS
Three phase relay	1OSF
Ext.electric heater 7,5+7,5kW (60-75Z)	1OETA1M15
Ext.electric heater 12+18kW (60-75Z)	1OETA1M30
Expanded control module	1OEK
Back draft louvre shutter (air discharge)	PER 400 W
External weather louvre (air intake)	PRG 400 W
Insulated flexible hose Sonoflex 406mm/10m	1OEMVKFLEXI
External unit (grey, green or silver colour)	
External unit 4legs vertical	
Internal unit (red, grey colour)	

More information: www.mastertherm.co.uk

¹⁾ Performance data acc. to EN14511. A7W35 - air inlet 7°C, water outlet 35°C, defrost energy considered.

²⁾ The recommended value of el. protection
3x400 V, including an integrated auxiliary electric heater
1x230 V without auxiliary electric heater

Units 60Z and 75Z has no integrated auxiliary electric heater.

Air Master Mini



2 compressor
unit





EXCEPTIONAL TECHNOLOGY CONCEPT
WITH DIRECT EVAPORATION OF REFRIGERANT

DIRECT EVAPORATING HEAT PUMP

Direct Master

The DirectMaster heat pump brings the innovative concept of direct evaporation of the refrigerant in the ground collector, representing the most efficient way presently known in capturing and transferring ground heat to the heated building. In comparison to other systems the advantage is that it does not require the primary circuit circulation pump or ground collector heat exchanger. The reduction of heat loss and improved thermal conductivity of the ground loop results in the refrigerant temperature at the inlet to the compressor always 4-5°C higher than that of conventional systems. This ground-water system achieves a very high COP factor. The conceptual simplicity is also a guarantee of exceptional reliability, maximum durability and low maintenance costs. The DirectMaster system received the Grand Prix For Arch main prize.



DirectMaster – BRINE – WATER

model	B0W35 ¹⁾		E4W35 ¹⁾		3 phase units		1 phase units	
	power	COP	power	COP	circuit breaker ²⁾	order number	circuit breaker ²⁾	order number
DM-9ZD1	3,2	4,4	3,5	5	1x 10A"C"	1AQ9ZD-1	10A"C"	3AQ9ZD1-1
DM-22ZD	7,8	4,5	8,6	5,1	3x 9A"C"	1AQ22ZD-1	20A"C"	3AQ22ZD1-1
DM-26ZD	10,1	4,4	11,2	4,9	3x 13A"C"	1AQ26ZD-1	25A"C"	3AQ26ZD1-1
DM-30ZD	11,4	4,4	12,7	4,9	3x 13A"C"	1AQ30ZD-1	32A"C"	3AQ30ZD1-1
DM-37ZD	14,1	4,3	15,9	4,8	3x 16A"C"	1AQ37ZD-1	-	-
DM-45ZD	17,2	4,4	19,5	5,0	3x 16A"C"	1AQ45ZD-1	-	-
DM-50ZD	18,5	4,3	20,6	4,8	3x 20A"C"	1AQ50ZD-1	-	-
DM-60ZD	23,1	4,2	26,1	4,7	3x 25A"C"	1AQ60ZD-1	-	-

Standard equipment - DirectMaster

- ✓ Integrated graphic terminal PGD
- ✓ Special compressor
- ✓ Equitherm control system MaR Carel
- ✓ Electronically controlled coolant injection
- ✓ Built-in circulation pump
- ✓ Control of 3 heating circuits (1x hot water +2x heating water)

Features - DirectMaster

- ▶ The temperature of heating water to 60 °C
- ▶ Ecological refrigerant R407c
- ▶ Quiet operation
- ▶ Control up to 6 heating circuits

DirectMaster	compressor	dimensions (mm)	weight (kg)
Direct Master 9ZD1	LG	1200x526x526	130
Direct Master 17ZD	LG	1200x526x716	140
Direct Master 22ZD	LG	1200x526x716	140
Direct Master 26ZD	Sanyo	1200x526x716	160
Direct Master 30ZD	Sanyo	1200x526x716	165
Direct Master 37ZD	Sanyo	1200x526x716	180
Direct Master 45ZD	Sanyo	1200x526x716	190
Direct Master 50ZD	Sanyo	1200x526x716	200
Direct Master 60ZD	Sanyo	1200x526x716	245

Options - DirectMaster

type	order num.
Internet HP control	1OINT
Terminal pAD temperature compensation	1OPAD
Electric heater 4,5 kW	1OEKOT45
Electric heater 6,0 kW	1OEKOT60
Expanded control module	1OEK
Desuperheater	1ODESUP
Softstart	1OSS
Distributor_4_circuits (17Z)	1ODM04
Distributor_8_circuits (30Z)	1ODM06
Distributor_10_circuits (37Z)	1ODM08
Distributor_10_circuits (37Z)	1ODM10
Distributor_12_circuits (45-60Z)	1ODM12
Internal unit (red, grey colour)	

¹⁾ Performance data acc. to EN14511. B0W35 - brine inlet 0°C, water outlet 35°C. E4W35 - brine inlet 4°C, water outlet 35°C.

²⁾ The recommended value of el. protection as a standard equipment, without auxiliary electric heater.

More information: www.mastertherm.co.uk

HEAT PUMPS BRINE-WATER AND WATER-WATER

Aqua Master



MODERN AND PROVEN SOLUTION FOLLOWED
THROUGH TO PERFECTION



1 compressor unit

2 compressor unit

Upgraded version of the very successful ground-water (water-water) system, particularly suitable for applications with the ground collector. The performance range is graded over a wide range from about 7 to 64 kW, which covers a wide spectrum of applications. The AquaMaster heat pump operates with high efficiency and extreme reliability. With the output water temperature up to 60°C it is also suitable for renovation of older residential houses. The unit can be retrofitted with a desuperheater to achieve high efficiency and higher temperature of the DHW supply system. Another advantage is the exceptionally low noise compressor, mounted on an anti-vibration frame, the unit can be safely placed anywhere without being bothered by noise. The AquaMaster unit is a proven product offering quality components, modern technology and controls, a wide basic and additional equipment and above all an excellent price-performance ratio.

AquaMaster – BRINE –								
model	B0W35 ¹⁾		W10W35		3 phase units		1 phase units	
	power	COP	power	COP	circuit breaker ²⁾	order number	circuit breaker ²⁾	order number
AQM_22Z	7,8 kW	4,4	8,8 kW	5,9	3x 9A°C	1AQ22Z-1	20A°C	3AQ22Z1-1
AQM_26Z	10,1 kW	4,5	10,4 kW	5,9	3x 9A°C	1AQ26Z-1	25A°C	3AQ26Z1-1
AQM_30Z	11,4 kW	4,4	13,3 kW	5,7	3x 13A°C	1AQ30Z-1	32A°C	3AQ30Z1-1
AQM_37Z	14,1 kW	4,4	14,9 kW	5,5	3x 13A°C	1AQ37Z-1	32A°C	3AQ37Z1-1
AQM_45Z	17,2 kW	4,3	18,4 kW	5,4	3x 16A°C	1AQ45Z-1	-	-
AQM_50Z	18,5 kW	4,4	22,5 kW	5,5	3x 16A°C	1AQ50Z-1	-	-
AQM_60Z	23,1 kW	4,3	24,1 kW	5,4	3x 20A°C	1AQ60Z-1	-	-
AQM_75Z	28,2 kW	4,2	31,2 kW	5,4	3x 25A°C	1AQ75Z-1	-	-
AQM_90Z	33,2 kW	4,1	37,7 kW	5,2	3x 25A°C	1AQ90Z-1	-	-
Two compressors unit								
AQM_120.2Z	46,8 kW	4,2	64,6	5,6	3x 50A°C	1AQ120.2Z-1	-	-
AQM_150.2Z	57,7 kW	4,2	79,3	5,6	3x 50A°C	1AQ150.2Z-1	-	-
AQM_180.2Z	64,4 kW	4,1	90,9	5,5	3x 64A°C	1AQ180.2Z-1	-	-

Standard equipment - AquaMaster

- ✓ Integrated graphic terminal PGD
- ✓ Equitherm control system MaR Care
- ✓ Electronically controlled coolant injection
- ✓ Built-in circulation pump
- ✓ Control of 3 heating circuits (1x hot water +2x heating water)

AquaMaster	compressor	dimensions (mm)	weight (kg)
AquaMaster_22Z	LG	1200x526x716	140
AquaMaster_26Z	Sanyo	1200x526x716	160
AquaMaster_30Z	Sanyo	1200x526x716	165
AquaMaster_37Z	Sanyo	1200x526x716	180
AquaMaster_45Z	Sanyo	1200x526x716	190
AquaMaster_50Z	Sanyo	1200x526x716	200
AquaMaster_60Z	Sanyo	1200x526x716	245
AquaMaster_75Z	Sanyo	1200x526x716	255
AquaMaster_90Z	Sanyo	1200x526x716	275
AquaMaster_120.2Z	Sanyo	1200x1012x716	420
AquaMaster_150.2Z	Sanyo	1200x1012x716	420
AquaMaster_180.2Z	Sanyo	1200x1012x716	420

Options - AquaMaster

type	order num.
Internet HP control	10INT
Full Cooling reversin	1AQZR
Passive Cooling module (from 17Z to 37Z)	10PC
Terminal pAD temperature compensation	10PAD
Terminal pADh floor cooling	10PADH
Desuperheater	10DESUP
Electric heater 4,5 kW	10EKO45
Electric heater 6,0 kW	10EKO60
Electric heater 7,5 kW	10EKO75
Softstart	10SS
Three phase relay	10SF
Refrigerant R134a	10134a
Type of water / water on demand	10AQWW
Expanded control module	10EK
Internal unit (red, grey colour)	

Features - AquaMaster

- Use for heating and cooling
- The temperature of heating water to 60 °C
- Ecological refrigerant R407c
- Quiet operation
- Control up to 6 heating circuits

More information: www.mastertherm.co.uk



ADVANCED TECHNOLOGY WITH EXCELLENT
OPERATING PARAMETERS

HEAT PUMPS BRINE-WATER
AND WATER-WATER

Aqua Master Inverter

The ground-water (water-water) heat pump of the inverter type with extremely high heating or cooling efficiency. The compressor with frequency converter adjusts its output to the current heat demand of the building and because of this the heating system does not require a storage tank. A combination of the inverter technology, electronic expansion valve and equithermal control system, newly supplemented with the possibility of on-line compensation of the heating curve temperature delivers exceptionally high COP (Coefficient of Performance) factors in all operational modes, significant savings in operating costs, reduced burden on the compressor, thus extending its service life while increasing its reliability. The top features of the AquaMaster Inverter heat pump have won the Grand Prix For Arch award. The product is the holder of a European quality label for heat pumps according to the methodology of the European Association of heat pumps - EHPA quality label.



AquaMaster Inverter – BRINE – WATER, WATER – WATER

model	B0W35	B0W35, 60Hz ¹⁾	COP	W10W35, 60Hz		3 phase units		1 phase units	
	power	power		power	COP	circuit breaker ²⁾	order number	circuit breaker ²⁾	order number
AQM Inverter-22l	3 – 8 kW	4,4 kW	4,5	5,8 kW	5,9	1x 20 A "B"	1AQ22l-1	20A "B"	3AQ22l1-1
AQM Inverter-30l	5 – 12 kW	7,9 kW	4,6	10,3 kW	6,1	1x 25 A "B"	1AQ30l-1	25A "B"	3AQ30l1-1
AQM Inverter-45l	7 – 22 kW	14,0 kW	4,6	19,2 kW	6,3	3x 20 A "B"	1AQ45l-1	32A "B"	3AQ45l1-1
AQM Inverter-60l	7 – 35 kW	20,2 kW	4,7	26,6 kW	6,2	3x 32 A "B"	1AQ60l-1	–	–
AQM Inverter-90l	7 – 48 kW	32,2 kW ³⁾	4,7	40,4 kW ³⁾	5,8	3x 40 A "B"	1AQ90l-1	–	–

Standard equipment - AquaMaster Inverter

- ✓ Integrated graphic terminal PGD
- ✓ Variable output Inverter Compressor
- ✓ Equitherm control system MaR Carel
- ✓ Electronically controlled coolant injection
- ✓ Built-in circulation pump
- ✓ Control of 3 heating circuits (1x hot water +2x heating water)

Features - AquaMaster Inverter

- ▶ Continuous control of heating power
- ▶ Flow control by primary circuit
- ▶ Special compressor LG BLDC inverter
- ▶ Use for heating and cooling
- ▶ The temperature of heating water to 60 °C
- ▶ Ecological refrigerant R410A
- ▶ No buffer tank required
- ▶ Quiet operation
- ▶ Control up to 6 heating circuits

Options - AquaMaster Inverter

type	order num.
Internet HP control	1OINT
Full Cooling reversing	1AQZR
Passive Cooling module (from 17Z to 37Z)	10PC
Terminal pAD temperature compensation	1OPAD
Terminal pADh floor cooling	1OPADH
Desuperheater	1ODESUP
Electric heater 4,5 kW	1OEKOT45
Electric heater 6,0 kW	1OEKOT60
Electric heater 7,5 kW	1OEKOT75
Type of water / water on demand	1OAQWW
Expanded control module	1OEK
Internal unit (red, grey colour)	

AquaMaster Inverter	Energy efficiency, moderate climates, EN 14 825		compressor	dimensions (mm)	weight (kg)
	W35	W55			
AquaMaster-22l	A+++	A++	LG	1200x526x716	160
AquaMaster-30l	A+++	A+++	LG	1200x526x716	160
AquaMaster-45l	A+++	A++	LG	1200x526x716	170
AquaMaster-60l	A+++	A++	LG	1200x526x716	180
AquaMaster-90l	A+++	A++	LG	1200x716x716	200

¹⁾ Performance data acc. to EN14511, in accordance with the EHPA requirements to assign quality label Q. B0W35 - brine inlet 0°C, water outlet 35°C. Compressor frequency 60 Hz.

²⁾ The recommended value of el. protection as a standard equipment, without auxiliary electric heater.

³⁾ Unit 90l, compressor frequency 90 Hz.

More information: www.mastertherm.co.uk

HEAT PUMPS BRINE - WATER
AND WATER - WATER

Aqua Master Inverter Combi



ALL IN ONE HIGH-TECH HEATING SYSTEM
ON LESS THAN 0.5 M²



The ground-water heat pump with integrated stainless steel DHW storage tank, solar heat exchanger and inverter compressor. Modulated heating power is optimally controlled for heating or cooling the building, and also for DHW supply for the entire household. The latest technology combined with modern BLDC compressor, variable speed of the primary and secondary circulation pump and a unique control system represent the highest attainable level of technology and guarantee highly efficient, quiet and reliable operation. Passive cooling module (optional) allows the direct use of the cooling effect of the ground (free cooling), without any energy consumption. Due to the construction of the "all in one" type unit the complexity of the wiring and mechanical installation is significantly reduced only to the basic connection of the unit.

AquaMaster Inverter Combi – BRINE – WATER, WATER – WATER

model	B0W35	B0W35, 60Hz ¹⁾	COP	W10W35, 60Hz		3 phase units		1 phase units	
	power	power		power	COP	circuit breaker ²⁾	order number	circuit breaker ²⁾	order number
AQM Inverter-22I	3–8 kW	4,4 kW	4,5	5,8 kW	5,9	20 A"B"	1AQ22IC-1	20A"B"	3AQ22I1-1
AQM Inverter-30I	5–12 kW	7,9 kW	4,6	10,3 kW	6,1	25 A"B"	1AQ30IC-1	25A"B"	3AQ30I1-1
AQM Inverter-45I	7–22 kW	14 kW	4,6	19,2 kW	6,3	25 A"B"	1AQ45IC-1	32A"B"	3AQ45I1-1

Standard equipment - AquaMaster Inverter Combi

- ✓ Integrated DHW storage tank 180 l, solar heat exchanger
- ✓ Integrated graphic terminal PGD
- ✓ Variable output Inverter Compressor
- ✓ Equitherm control system MaR Carel
- ✓ Electronically controlled coolant injection
- ✓ Built-in circulation pump
- ✓ Electric heater
- ✓ Control of 3 heating circuits (1x hot water +2x heating water)

Options - AquaMaster Inverter Combi

type	order num.
Internet HP control	1OINT
Passive Cooling module	10PC
Terminal pAD temperature compensation	1OPAD
Terminal pADh floor cooling	1OPADH
Expanded control module	1OEK
Internal unit (red or grey colour)	

Features -AquaMaster Inverter Combi

- ▶ Continuous control of heating power
- ▶ No buffer tank required
- ▶ Use for heating and cooling
- ▶ The temperature of heating water to 60 °C
- ▶ Ecological refrigerant R410A
- ▶ Quiet operation
- ▶ Control up to 6 heating circuits

AquaMaster Inverter Combi	Energy efficiency, moderate climates, EN 14 825		compressor	dimensions (mm)	weight (kg)
	W35	W55			
AquaMaster-22IC	A+++	A++	LG	1800x690x640	270
AquaMaster-30IC	A+++	A+++	LG	1800x690x640	275
AquaMaster-45IC	A+++	A++	LG	1800x690x640	295

¹⁾ Performance data acc. to EN14511, B0W35 - brine inlet 0°C, water outlet 35°C. Compressor frequency 60 Hz.

²⁾ The recommended value of el. protection 3x400 V, including an integrated auxiliary electric heater 1x230 V without auxiliary electric heater

More information: www.mastertherm.co.uk



Tradition (since 1994)



- traditional and largest Czech producer
- more than 7,000 heat pumps sold in more than 20 European countries
- in-house research, development and production



Innovation for future



- progressive electronic coolant injection technologies (EEV)
- inverter compressors, "desuperheater" for heating of hot water
- active and passive cooling
- control & monitoring via the internet
- application for iOS and Android



Download app from the App Store or Google Play (Android Market).

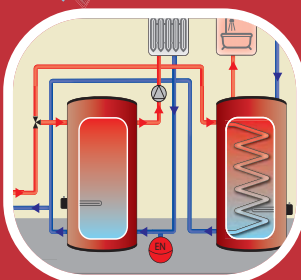
Enter the following information in the Connection tab. Name: demo | Password: mt-demo

Durability of design



- high reliability and long lifespan thanks to the robust and practical design
- components from renowned suppliers: Copeland, LG, Sanyo, Carel, SWEP, Lloyd, Ziehl-Abegg, EBM Papst, Halm etc.
- decreased operational stress: superior design of exchangers, high quality regulation and protection system

System solutions



- designed and equipped as a heating system, not merely as a heat source
- regulation allows for control of spatial heat in individual zones
- everything needed is included in the price of the equipment,
- simple and reliable installation

Seriousness



- truthful and complete information
- responsible approach to customers
- long-term company strategy based on quality of services





MasterTherm

HEAT PUMPS

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