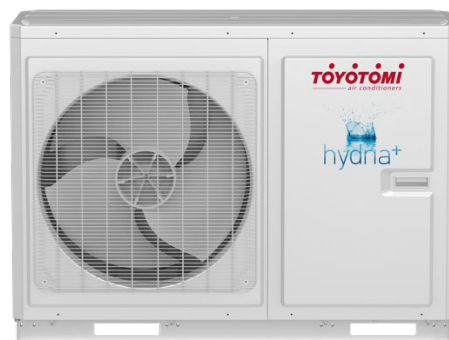




Why TOYOTOMI Heat Pump?

The hydria+ heat pump is designed to offer maximum performance in extreme conditions and at the same time save electricity.

The outlet water up to 65°C makes it ideal for installation in existing heating installations



Outlet Water Temperature up to 65°C



Economizer



Golden Fin anticorrosion protection



R32 Refrigerant



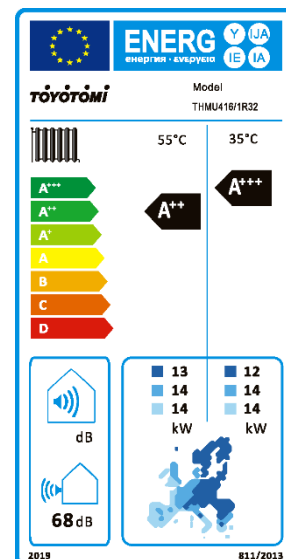
Wi-Fi Standard



Input current limitation

MODEL	THMU416/1R32
EAN BAR CODE OUTDOOR UNIT	5205022020981
COUNTRY OF ORIGIN	CHINA

Product Code	Product Description
20.22THMU416/1R32	THMU416/1R32 ATW MONO 16KW (1PH) TOYOTOMI



Monobloc TOYOTOMI hydria+ THMU416/1R32

Air 7°C db - Water 30°C/35°C Floor Heating	Heating Capacity	kW	15.70
	Input Power	kW	3.45
	COP ¹		4.55
Air 7°C db - Water 40°C/45°C Fan Coils - Radiators	Heating Capacity	kW	16.20
	Input Power	kW	4.49
	COP ¹		3.61
Air 2°C db - Water 50°C/55°C	Heating Capacity	kW	13.35
	Input Power	kW	5.42
	COP ¹		2.46
Sound Pressure Level ²		dB(A)	59
Air 35°C db - Water 12°C/7°C Fan Coils	Cooling Capacity	kW	13.80
	Input Power	kW	5.09
	EER ¹		2.71
Air 35°C db - Water 23°C/18°C Floor Cooling	Cooling Capacity	kW	15.50
	Input Power	kW	3.60
	EER ¹		4.31
dB(A)		dB(A)	56
Minimum Water Content		L	5lit/kW
Nominal Water Flow Rate		L/min	46
Hydraulic Connection			25mm/1"
Electrical Characteristics		Ph/Hz/V	1/50/220-240
Maximum Operating Current (MOC)		A	30,00
Unit Dimensions (Length-Height-Depth)		mm	1206x878x445
Net Weight		kg	138
Factory Refrigerant Charge		kg	R32 – 2.20
GWP			675

Seasonal Energy Efficiency TOYOTOMI hydria+

Water outlet 35°C according EN14825 Average Climate	Pdesing (EN 14825) ³	kW	14.00
	Seasonal heating Efficiency (ηs) ⁴	%	184
	Annual energy consumption	kWh	6072
	SCOP ³		4.68
	Energy Class ⁴		A+++
Water outlet 55°C according EN14825 Average Climate	Pdesing (EN 14825) ³	kW	14.00
	Seasonal heating Efficiency (ηs) ⁴	%	144
	Annual energy consumption	kWh	7768
	SCOP ³		3.71
	Energy Class ⁴		A++


































Operation Limits TOYOTOMI hydria+

	Ambient Temperatures	Water Temperatures
Heating	-25°C ~ +35°C	+20°C ~ +65°C
Cooling	-15°C ~ +48°C	+5°C ~ +25°C
Hdw	-25°C ~ +45°C	+25°C ~ +55°C



Features

Energy class A+++
 R32 eco -friendly refrigerant
 Twin rotary 2-stage high efficiency compressor
 Inverter single fan motor design
 Golden fin anticorrosion protection
 Smart defrost function
 Danfoss plate heat exchanger with integrated antifreeze protection
 Integrated inverter water pump
 Increased efficiency with Economizer
 Additional heating source control (oil or gas boilers)
 Wide electrical operation range (1ph models 185V-264V & 3ph models 320V-460V)
 4.3" High resolution touch screen
 DHW Anti-legionella treatment
 Wi-fi standard for ios/android
 Air purge operation
 Whether dependant operation (compensation)
 Fast DHW
 Floor Drying Operation
 Holiday operation
 Dry Contact Control
 Input Current limitation
 Modbus RTU interface
 Quiet mode
 Daily & weekly heating/cooling & domestic hot water schedule
 Control board Anticorrosion protection
 BMS connectivity
 Self - diagnosis malfunctions
 Wired controller
 Lock function
 Auto restart
 Smooth Start Operation
 PWM secondary water pump control
 Additional room sensor for precise calculation of room temperature
 Small dimensions & silent operation
 Display of all operation parameters for troubleshooting

 Energy Class A+++
 Outlet Water temperature up to 65°C
 R32 eco - friendly Refrigerant
 Twin Rotary high efficiency compressor
 Inverter single fan motor design
 Golden Fin anticorrosion protection
 Smart Defrost Function
 Antifreeze function
 Integrated Inverter water pump
 Economizer
 Additional heating source control
 Wide electrical operation range
 4.3" High resolution touch screen
 DHW Anti-legionella treatment
 Wi-Fi Standard for IOS/Android
 Air purge operation
 Weather dependent operation (compensation)
 Fast DHW operation
 Floor Drying Operation
 Holiday operation
 Dry Contact Control
 Input current limitation
 Modbus RTU
 Quiet operation
 Daily & weekly operation schedule
 Control board anticorrosion protection
 BMS Connectivity
 Self - diagnosis malfunctions
 Wired Controller
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