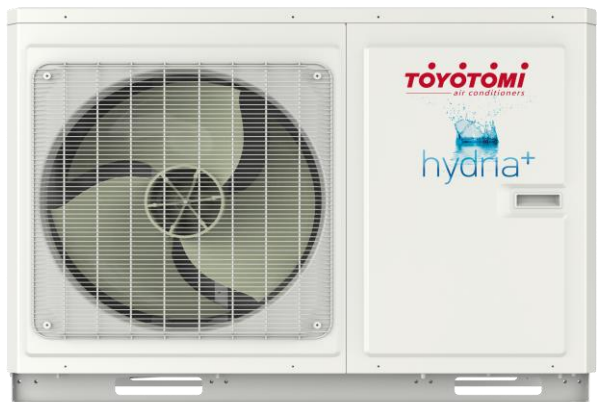


Heat Pump

Hydria⁺ IV

TOYOTOMI

 **Γ.Ε. ΔΗΜΗΤΡΙΟΥ** α.ε.ε



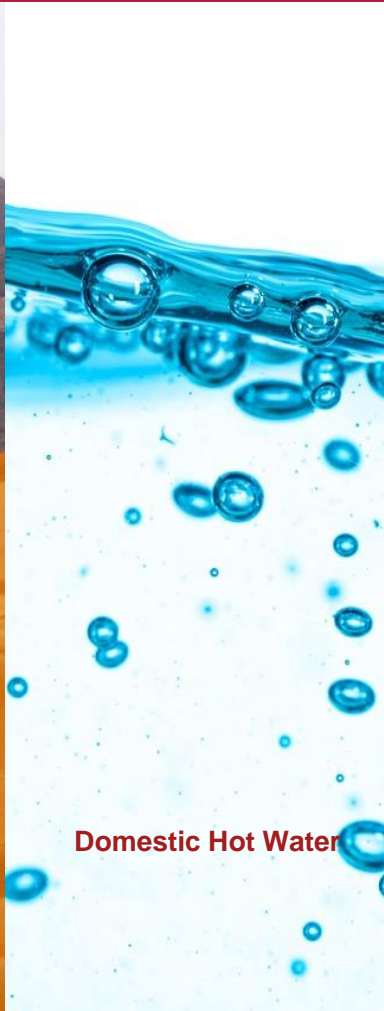
5 Basic Functions



Heating



Cooling



Domestic Hot Water



**Heating + Domestic Hot
Water**

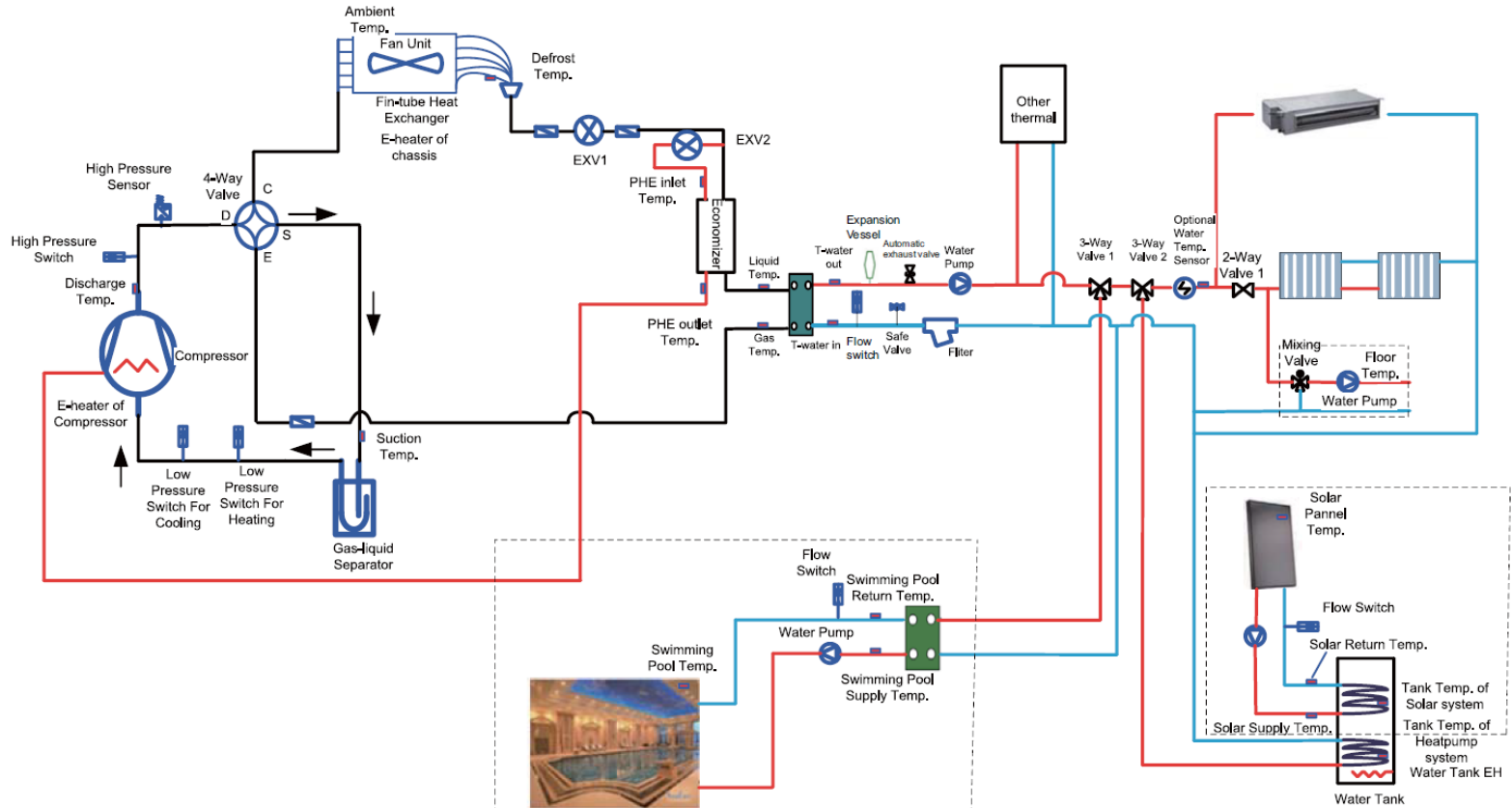


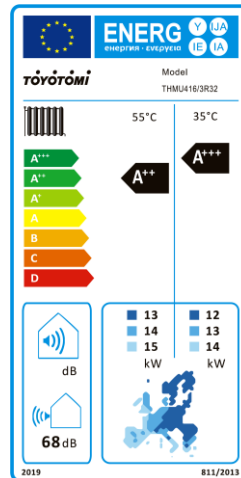
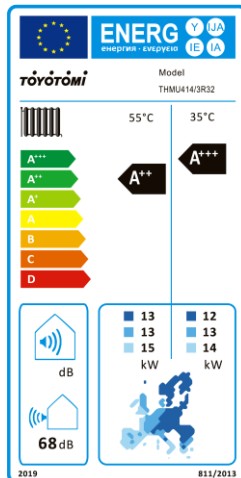
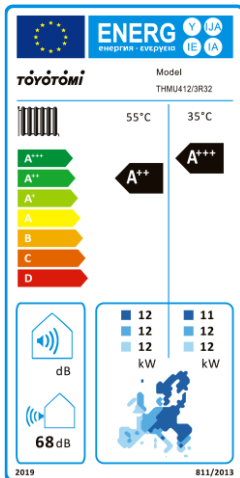
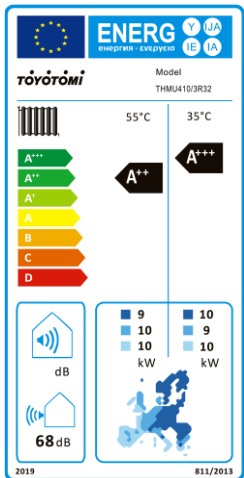
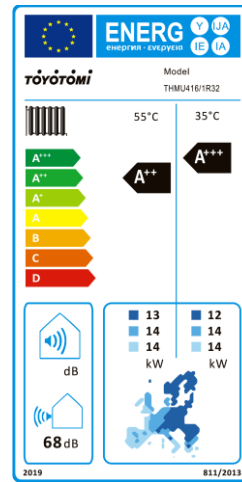
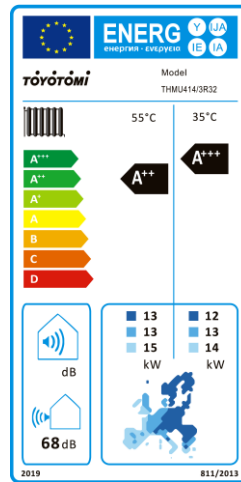
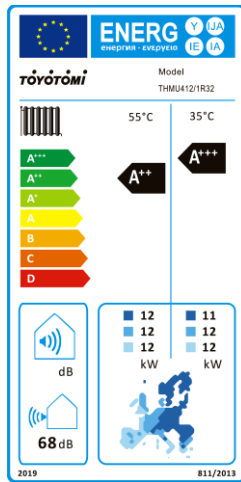
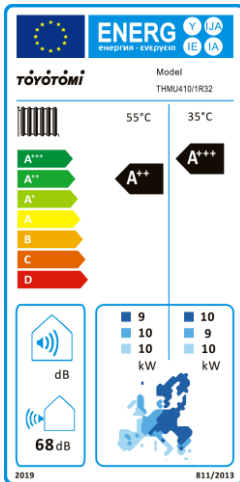
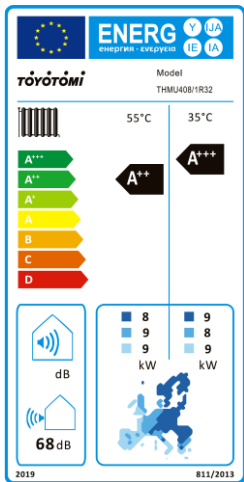
**Cooling + Domestic
Hot Water**

The Hydria+ IV Heat Pump provides the possibility of Multiple Applications of Heating/Cooling, Domestic Hot Water and Pool Heating.

TOYOTOMI

Γ.Ε. ΔΗΜΗΤΡΙΟΥ α.ε.ε





TOYOTOMI



G.E. ΔΗΜΗΤΡΙΟΥ Α.Ε.Ε

Heat Pump Features Hydria+ IV

TOYOTOMI



1-ph Monoblock TOYOTOMI hydria+			THMU408/1R32	THMU410/1R32	THMU412/1R32	THMU414/1R32	THMU416/1R32
Air 7oC db - Water 30oC/35oC Floor Heating Application	Heating Capacity	kW	8.2	10.2	12	13.7	15.7
	Absorbed Power	kW	1.54	2.02	2.43	2.99	3.45
	COP ¹		5.32	5.05	4.94	4.58	4.55
Air 7°C db - Water 40°C/45°C Fan Coils/Radiators Application	Heating Capacity	kW	8.3	10.2	13	14.2	16.2
	Absorbed Power	kW	1.9	2.5	3.45	3.84	4.49
	COP ¹		4.32	4.08	3.77	3.7	3.61
Sound Pressure Level ²		dB(A)	50	50	63	63	63
Air 35 ^o C db - Water 12 ^o C/7 ^o C Fan Coils Application	Cooling Capacity	kW	7.4	9	11.1	13.3	13.8
	Absorbed Power	kW	2	2.65	3.58	4.75	5.09
	EER ¹		3.7	3.4	3.1	2.8	2.71
Air 35°C db - Water 23°C/18° Floor Cooling Application	Cooling Capacity	kW	8.3	10.2	12	14.2	15.5
	Absorbed Power	kW	1.56	2	2.45	3	3.6
	EER ¹		5.32	5.1	4.9	4.73	4.31
Sound Pressure Level ²		dB(A)	53	53	61	61	61
Minimum Water Flow Rate		L	20				
Nominal Water Flow Rate		L/min	25	30	35	40	46
Hydraulic Connection			1/50/220-240				
Electrical Characteristics		Ph/Hz/V	25mm/1"				
Unit Dimensions (Length-Height-Depth)		mm	1206x878x445	1206x878x445	1206x878x445	1206x878x445	1206x878x445
Net Weight		kg	120	120	138	138	138
Factory Refrigerant Charge		kg	1.6	1.6	2.2	2.2	2.2
GWP			675				

Heat Pump Features Hydria+ IV

TOYOTOMI



3-ph Monoblock TOYOTOMI hydria+			THMU410/3R32	THMU412/3R32	THMU414/3R32	THMU416/3R32
Water 7oC db -Water 30oC/35oC Floor Heating Application	Heating Capacity	kW	10.2	12	14.2	15.7
	Absorbed Power	kW	2.06	2.49	3.09	3.57
	COP ¹		4.95	4.82	4.6	4.4
Air 7°C db - Water 40°C/45°C Fan Coils-Radiators Application	Heating Capacity	kW	10.2	13	14.2	16.2
	Absorbed Power	kW	2.6	3.45	3.84	4.49
	COP ¹		3.92	3.77	3.7	3.61
Sound Pressure Level ²		dB(A)	52	63	63	63
Air 35 ^o C db - Water 12°C/7°C Fan Coils Application	Cooling Capacity	kW	9.1	11.1	13.3	13.8
	Absorbed Power	kW	2.8	3.58	4.75	5.09
	EER ¹		3.25	3.1	2.8	2.71
Air 35°C db -Water 23°C/18° Floor Cooling Application	Cooling Capacity	kW	10.2	12	13.9	15.4
	Absorbed Power	kW	2.13	2.61	3.32	4.05
	EER ¹		4.79	4.6	4.19	3.8
Sound Pressure Level ²		dB(A)	51	61	61	61
Minimum Water Flow Rate		L	20			
Nominal Water Flow Rate		L/min	30	35	40	46
Hydraulic Connection			25mm/1"			
Electrical Characteristics		Ph/Hz/V	3/50/380-415			
Unit Dimensions (Length-Height-Depth)		mm	1206x878x445	1206x878x445	1206x878x445	1206x878x445
Net Weight		kg	134	144	144	144
Factory Refrigerant Charge		kg	1.6	2.2	2.2	2.2
GWP			675			

Heat Pump Features Hydria+ IV

TŌYŌTŌMI



hydria+ 1ph						
	THMU406/1R32	THMU408/1R32	THMU410/1R32	THMU412/1R32	THMU414/1R32	THMU416/1R32
Dimensions (Length-Height-Depth)	Pending	1206x878x445	1206x878x445	1206x878x445	1206x878x445	1206x878x445
Net Weight	Pending	120	120	138	138	138
Sound Pressure Level db(A) Heating / Cooling	Pending	50/53	50/53	63/61	63/61	63/61

hydria+ 3ph				
	THMU410/3R32	THMU412/3R32	THMU414/3R32	THMU416/3R32
Dimensions (Length-Height-Depth)	1206x878x445	1206x878x445	1206x878x445	1206x878x445
Net Weight	134	144	144	144
Sound Pressure Level db(A) Heating / Cooling	52/51	63/61	63/61	63/61

Heat Pump Features Hydria+ IV

- ✓ Outlet Water Temperature **65°C**
- ✓ R32 Eco-friendly Refrigerant
- ✓ Twin Rotary 2 -Stage High Efficiency Compressor
- ✓ Inverter DC Fan Motor
- ✓ Golden Fin Coating HX
- ✓ Smart Defrost Function
- ✓ Danfoss Heat exchanger with Intergraded Frost Protection
- ✓ Total Intergraded Hydraulic Equipment for Plug & Play Operation
- ✓ PWM Analogue High Efficiency Inverter Water Pump
- ✓ Standard Crankcase & Chassis Heater

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Heat Pump Features Hydria+ IV

- ✓ EVI technology for High & Stable Performance at Low Ambient Temperature
- ✓ Separate Temperature Sensor for Thermostatic Operation, achieving Precision in Operation Optimizing Comfort while saving Power
- ✓ Control of External Auxiliary Source (gas, oil boiler, E-Heaters)
- ✓ Extended Electrical Range of Safe Operation (1Ph models 185V-264V & 3Ph models 320V-460V)
- ✓ 4.3" High-Definition Touch Screen
- ✓ Hot Water Disinfection Function at 70°C (Legionella)
- ✓ Single Fan for all Sizes
- ✓ Small Dimensions & Silent Operation
- ✓ Wi-Fi Standard for IOS/Android

Heat Pump Features Hydria+ IV

- ✓ Air Removal Function for HC & DHW Circuit
- ✓ Weather depend Function for the Flow Water Temp & Room Temp according Ambient
- ✓ Fast Hot Water Production & Priority
- ✓ Screeding Function
- ✓ Holiday Mode
- ✓ Thermostat Function
- ✓ Operation Adjustable to Current (Local Network) Parameter
- ✓ Parameter View, Operational Configuration & Alarms View
- ✓ Connectivity & Distant access through RS485 for Modbus/BACnet Protocols (BMS)

Heat Pump Features Hydria+ IV

- ✓ Quiet Mode with Timed Noise Reduction
- ✓ Daily & Weekly Heating/Cooling & Domestic Hot Water Schedule

Thank you!



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