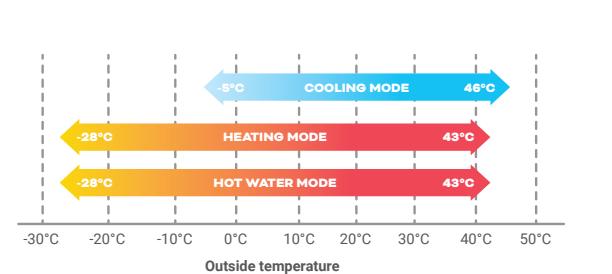
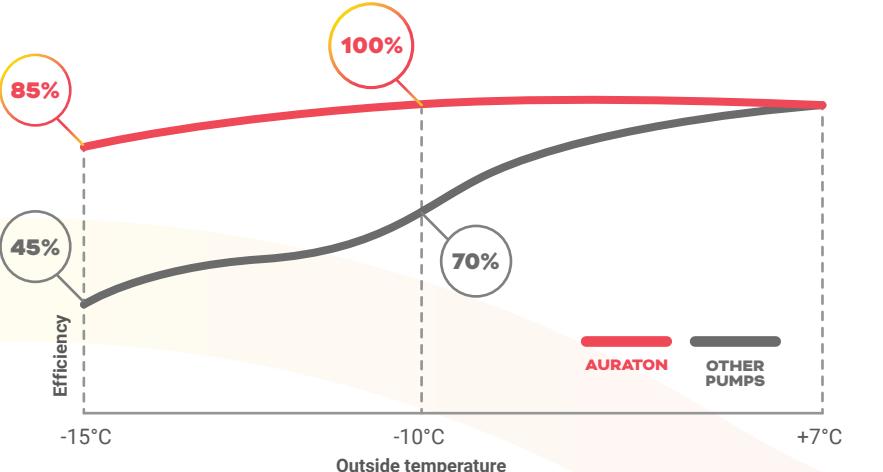


HIGH EFFICIENCY

High power and excellent parameters in low temperatures make AURATON TIVANO a perfect solution for houses and companies. This pump remains **100% efficient when the temperature is -10°C** and it can work alone at -28°C outside.



STEERING AND INSTALLATION

Hydronic module contains of **wired steering touchpad** with a temperature sensor built-in. The touchpad can be easily removed and **installed in a room**. Control modes available: temperature settings, heating mode, cooling mode, W.U.W. mode and mixed mode. It helps to **adjust the device to the user's needs**.

Additional functions: AntiFrost, weekly timer, or switching on the electric heater provide **comfort and safety**. Hydronic module **does not require** additional isolation of hot water pipes.

5 YEARS OF WARRANTY

Warranty is valid when the annual warranty inspections after 2 years from purchase are made.

AURATON TIVANO is a SPLIT system heating pump used in the new buildings and when the instalation is modernized (to exchange or complete the oil, gas or pellet boilers).



AUTHORIZED SERVICE

For instalators and users. We provide services across the country. Initial start, annual warranty controls, warranty and post-warranty repairs.



SUPER EFFICIENCY

100% of efficiency at -10°C, 85% at -15°C



GMCC TOSHIBA

Compressor of the well-known and valued brand



R32 REFRIGERANT

Safe refrigerant compliant with the EU standard



OPERATING MODE

Heating in winter, cooling in summer.



SAVING ON PURCHASE

No need to oversize the system



SAVING IN USE

75% of heat energy is taken from the air



AURATON TIVANO heat pumps work with **radiators** and can operate with surface heating systems (**floor, wall and ceiling heating**), **radiators and fan coil units**. The pump can also be connected to **solar heating** or **photovoltaic systems**. **AURATON TIVANO** can heat, cool the house and **provide domestic hot water** all year round.

AURATON

TIVANO

SPLIT SYSTEM HEAT PUMPS



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AURATON TIVANO 8kW

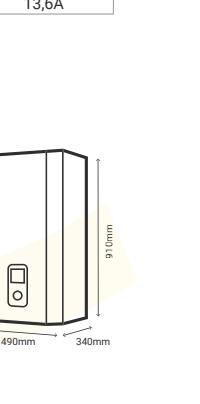
Split system heat pump with hydronic module

Outdoor unit			TIVANO-8kW
Power supply	V/Ph/Hz	220~240/1/50	
Performance data			
The rated heating conditions: water flow 0.172m³/(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.	Capacity	kW	8
Power input	kW	1,95	
COP	kW/kW	4,1	
The rated cooling conditions: water flow 0.172m³/(h·kW), ambient temperature 35°C DB, water inlet/outlet temperature 12/7°C.	Capacity	kW	6,5
Power input	kW	2,32	
EER	kW/kW	2,8	
Heating condition: water flow 0.172m³/(h·kW), ambient temperature 7°C, water inlet/outlet temperature 40/45°C.	Capacity	kW	8
Power input	kW	2,5	
COP	kW/kW	3,2	
Cooling condition: water flow 0.172m³/(h·kW), ambient temperature 35°C, water inlet/outlet temperature 23/18°C.	Capacity	kW	6,5
Power input	kW	1,7	
EER	kW/kW	3,8	
Seasonal space heating energy eff. Class (average climate general)	water outlet 35°C	A++	
water outlet 35°C	A++	4,15	
water outlet 55°C	A++		
water outlet 55°C		3,29	
Max. power input	kW	4,2	
Max. current input	A	19	
Sound power level	dB(A)	66	
Physical data			
Dimension (WxHxD)	mm	935x702x382	
Packing (WxHxD)	mm	975x770x435	
Net/gross weight	kg	55/58	
Brand		GMCC Toshiba	
Type		Rotary DC Inverter	
Model		EKTF235D22UMT	
Compressor	Poles	6	
Speed	rps	12-120	
Oil		POE/670ml	
Motor type		Brushless DC motor	
Model		DRN-310-75-8	
Outdoor fan	Number of fans	1	
Air flow	m³/h	3200	
Number of rows		3	
Tube pitch(a)×row pitch(b)	mm	21×13,3	
Air side heat exchanger	Tube dia. and type	Φ7 inner grooved copper	
Fin space	mm	1,4	
Fin type (code)		Hydrophilic aluminum	
Coil (length×height×width)	mm	784x651x40,11	
Number of circuits		7	
Piping connections			
Liquid pipe	Type	Flaring	
	Dia.(OD)	mm	Φ9,52
Gas pipe	Type	Flaring	
	Dia.(OD)	mm	Φ15,88
Max. piping length	m	20	
Max. height difference	Outdoor unit upside	m	10
Oudoor unit downside	m	10	
Refrigerant	Type	R32	
Quantity	kg	1,4	
Throttle type		EXV	

AURATON TIVANO 8kW

Split system heat pump with hydronic module

HYDRONIC module			8kW
Power supply	V/Ph/Hz	220~240/1/50	
Space heating	°C	25~60	
Leaving water temperature	Space cooling	°C	5~25
Domestic hot water	°C	40~60	
Max. power input	kW	3,6	
Max. current input	A	17	
Sound power level	dB(A)	45	
Dimension (WxHxD)	mm	490x910x340	
Packing (WxHxD)	mm	620x1105x425	
Net/gross weight	kg	47/55	
Piping connection Dia	Outlet	mm	DN32
Safty valve	Inlet	mm	DN32
Drainage pipe Dia	mm	DN20	
Water circuit	Volume	l	2
Expansion tank	Max. water pressure	kPa	600
	Pre pressure	kPa	150
Water side heat exchanger	Type	Plate type	
	Volume	l	0,658
Water pump	Model	Para 25/9	
Pump head	m	9	
Refrigerant circuit	Liquid side Dia	mm	Φ9,52
	Gas side Dia	mm	Φ15,88
Power supply	V/Ph/Hz	230V/1Ph/50Hz	
Net/gross weight	kg	67,5/70,5	
Back-up E-heater	Power	kW	3kW
Step			1
Max. power input	kW	3kW	
Max. current input	A	13,6A	



The integrated value takes into account the loss of capacity during freezing and defrosting periods. Efficiency is tested in a slow frequency situation.

Comment:
LWE: Outlet water temperature (°C)
Tamb: Ambient temperature (°C)
HC: Heating capacity (kW)
PI: Power consumption (kW)

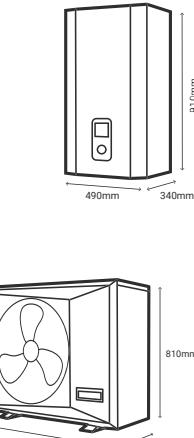
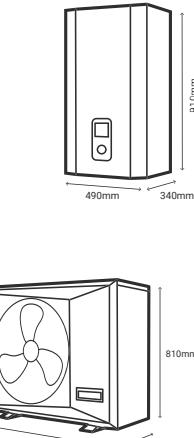


AURATON TIVANO 12kW

Split system heat pump with hydronic module

Outdoor unit			TIVANO-12kW
Power supply	V/Ph/Hz	220~240/1/50	
Performance data			
The rated heating conditions: water flow 0.172m³/(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.	Capacity	kW	12
Power input	kW	2,9	
COP	kW/kW	4,14	
The rated cooling conditions: water flow 0.172m³/(h·kW), ambient temperature 35°C DB, water inlet/outlet temperature 12/7°C.	Capacity	kW	10
Power input	kW	3,7	
EER	kW/kW	2,7	
Heating condition: water flow 0.172m³/(h·kW), ambient temperature 7°C, water inlet/outlet temperature 40/45°C.	Capacity	kW	12
Power input	kW	3,53	
COP	kW/kW	3,4	
Cooling condition: water flow 0.172m³/(h·kW), ambient temperature 35°C, water inlet/outlet temperature 23/18°C.	Capacity	kW	10
Power input	kW	2,08	
EER	kW/kW	4,8	
Water circuit	Volume	l	2
Expansion tank	Max. water pressure	kPa	800
	Pre pressure	kPa	150
Water side heat exchanger	Type	Plate type	
	Volume	l	0,658
Water pump	Model	Para 25/9	
Pump head	m	9	
Refrigerant circuit	Liquid side Dia	mm	1032x810x445
	Gas side Dia	mm	1075x875x495
Power supply	V/Ph/Hz	230V/1Ph/50Hz	
Net/gross weight	kg	67,5/70,5	
Back-up E-heater	Power	kW	3kW
Step			1
Max. power input	kW	3kW	
Max. current input	A	13,6A	

HYDRONIC module			12kW
Power supply	V/Ph/Hz	220~240/1/50	
Performance data			
The rated heating conditions: water flow 0.172m³/(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.	Capacity	kW	12
Power input	kW	2,9	
COP	kW/kW	4,14	
The rated cooling conditions: water flow 0.172m³/(h·kW), ambient temperature 35°C DB, water inlet/outlet temperature 12/7°C.	Capacity	kW	10
Power input	kW	3,7	
EER	kW/kW	2,7	
Heating condition: water flow 0.172m³/(h·kW), ambient temperature 7°C, water inlet/outlet temperature 40/45°C.	Capacity	kW	12
Power input	kW	3,53	
COP	kW/kW	3,4	
Cooling condition: water flow 0.172m³/(h·kW), ambient temperature 35°C, water inlet/outlet temperature 23/18°C.	Capacity	kW	10
Power input	kW	2,08	
EER	kW/kW	4,8	
Water circuit	Volume	l	2
Expansion tank	Max. water pressure	kPa	800
	Pre pressure	kPa	150
Water side heat exchanger	Type	Plate type	
	Volume	l	0,658
Water pump	Model	Para 25/9	
Pump head	m	9	
Refrigerant circuit	Liquid side Dia	mm	1014x1430x450
	Gas side Dia	mm	1095x1545x485
Power supply	V/Ph/Hz	230V/1Ph/50Hz	
Net/gross weight	kg	124/138	
Back-up E-heater	Power	kW	3kW
Step			1
Max. power input	kW	3kW	
Max. current input	A	13,6A	



The integrated value takes into account the loss of capacity during freezing and defrosting periods. Efficiency is tested in a slow frequency situation.

Comment:
LWE: Outlet water temperature (°C)
Tamb: Ambient temperature (°C)
HC: Heating capacity (kW)
PI: Power consumption (kW)



AURATON TIVANO 16kW

Split system heat pump with hydronic module

Outdoor unit			TIVANO-16kW
Power supply	V/Ph/Hz	380~415/3/50	
Zakres wydajności			
The rated heating conditions: water flow 0.172m³/(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.	Capacity	kW	16
Power input	kW	3,75	
COP	kW/kW	4,27	
The rated cooling conditions: water flow 0.172m³/(h·kW), ambient temperature 35°C DB, water inlet/outlet temperature 12/7°C.	Capacity	kW	15,2
Power input	kW	5,4	
EER	kW/kW	2,81	