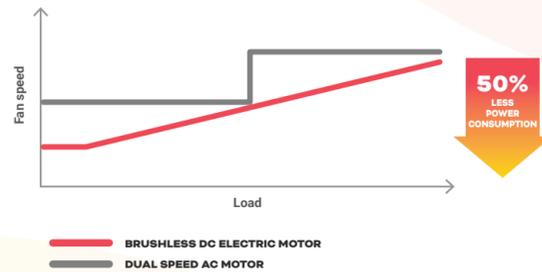
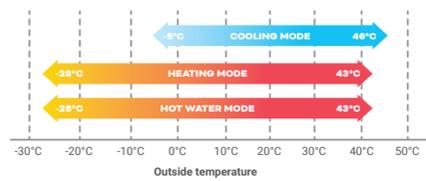
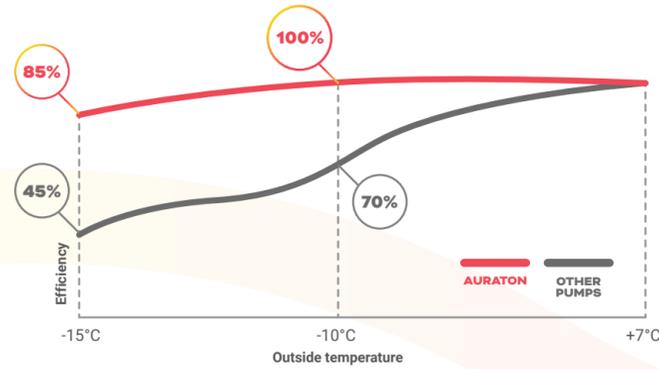


HIGH EFFICIENCY

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 installation is modernized (to exchange or complete the oil, gas or pellet boilers).



AUTHORIZED SERVICE

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



SAVING ON PURCHASE

No need to oversize the system



SAVING IN USE

75% of heat energy is taken from the air



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.



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.

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TIVANO

SPLIT SYSTEM HEAT PUMPS



5 YEARS WARRANTY



AURATON TIVANO 8kW

Split system heat pump with hydronic module

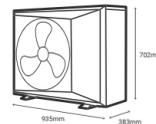
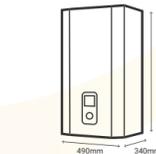
Outdoor unit		TIVANO-8KW		
Power supply		V/Ph/Hz	220~240/1/50	
Performance data				
The rated heating conditions: water flow 0.172m ³ /(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.	Capacity	kW	8	
	Power input	kW	1,95	
	COP	kW/kW	4,1	
The rated cooling conditions: water flow 0.172m ³ /(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 0.172m ³ /(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 0.172m ³ /(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++	
	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 (W×H×D)		mm	935×702×382	
Packing (W×H×D)		mm	975×770×435	
Net/gross weight		kg	55/58	
Compressor	Brand	GMCC Toshiba		
	Type	Rotary DC Inverter		
	Model	EKTf235D22UMT		
	Poles	6		
	Speed	rps	12~120	
	Oil	POE/670ml		
	Motor type	Brushless DC motor		
Outdoor fan	Model	DRN-310-75-8		
	Number of fans	1		
	Air flow	m ³ /h	3200	
	Number of rows	3		
	Tube pitch(a)× row pitch(b)	mm	21×13,3	
	Tube dia. and type	Φ7 inner grooved copper		
	Fin space	mm	1,4	
Air side heat exchanger	Fin type (code)	Hydrophilic aluminum		
	Coil (length×height×width)	mm	784×651×40,11	
	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		
	Outdoor unit downside	m 10		
Refrigerant	Type	R32		
	Quantity	kg	1,4	
	Throttle type	EXV		

HYDRONIC module		8kW		
Power supply		V/Ph/Hz	220~240/1/50	
Leaving water temperature	Space heating	°C	25~60	
	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 (W×H×D)		mm	490×910×340	
Packing (W×H×D)		mm	620×1105×425	
Net/gross weight		kg	47/55	
Water circuit	Piping connection Dia	Outlet	mm DN32	
		Inlet	mm DN32	
	Safty valve		kPa	600
		Drainage pipe Dia	mm	DN20
	Expansion tank	Volume	l	2
		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	Φ9,52	
	Gas side Dia	mm	Φ15,88	
Back-up E-heater	Power supply	V/Ph/Hz	230V/1Ph/50Hz	
	Power	kW	3kW	
	Step	1		
	Max. power input	kW	3kW	
	Max. current input	A	13,6A	

TIVANO-8kW						
LWE	35		55			
Tamb	HC	PI	COP	HC	PI	COP
-25/-	3,10	2,06	1,50			
-20/-	4,15	2,16	1,92	3,02	2,46	1,23
-15/-	6,83	2,90	2,36	4,49	2,55	1,76
-7/-8	8,04	2,45	3,29	6,20	2,91	2,13
2/1	8,15	2,53	3,23	6,34	2,84	2,23
7/6	8,26	2,29	3,61	6,14	2,53	2,42
15/12	8,36	1,76	4,75	6,06	2,24	2,70
20/15	8,01	1,45	5,54	5,85	1,93	3,04
25/18	8,19	1,34	6,10	5,95	1,77	3,37
35/24	8,38	1,29	6,52	6,03	1,66	3,63
43/28	8,38	1,17	7,19	5,92	1,46	4,05

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

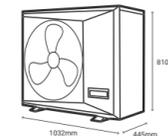
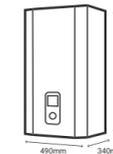
Outdoor unit		TIVANO-12KW		
Power supply		V/Ph/Hz	220~240/1/50	
Performance data				
The rated heating conditions: water flow 0.172m ³ /(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.	Capacity	kW	12	
	Power input	kW	2,9	
	COP	kW/kW	4,14	
The rated cooling conditions: water flow 0.172m ³ /(h·kW), ambient temperature 35°C DB, water inlet/outlet temperature 12/7°C.	Capacity	kW	10	
	Pobór mocy	kW	3,7	
	EER	kW/kW	2,7	
Heating condition: water flow 0.172m ³ /(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 0.172m ³ /(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	
Seasonal space heating energy eff. Class (average climate general)	water outlet 35°C		A++	
	water outlet 35°C		A++	
	water outlet 55°C		A++	
	water outlet 55°C		3,33	
Max. power input		kW	5	
Max. current input		A	22	
Sound power level		dB(A)	68	
Physical data				
Dimension (W×H×D)		mm	1032×810×445	
Packing (W×H×D)		mm	1075×875×495	
Net/gross weight		kg	67,5/70,5	
Compressor	Brand	GMCC Toshiba		
	Type	Rotary DC Inverter		
	Model	EKTf310D43UMT		
	Poles	6		
	Speed	rps	12~120	
	Oil	POE/1000ml		
	Motor type	Brushless DC motor		
Outdoor fan	Model	DRN-310-90-8		
	Number of fans	1		
	Air flow	m ³ /h	4000	
	Number of rows	2,5		
	Tube pitch(a)× row pitch(b)	mm	25×21,7	
	Tube dia. and type	Φ9.52 inner grooved copper		
	Fin space	mm	1,6	
Air side heat exchanger	Fin type (code)	Hydrophilic aluminum		
	Coil (length×height×width)	mm	1003×750×43,3 + 580×750×21,65	
	Number of circuits	5		
	Piping connections			
	Liquid pipe	Type	Flaring	
		Dia.(OD)	mm Φ9,52	
	Gas pipe	Type	Flaring	
	Dia.(OD)	mm Φ15,88		
Max. piping length	m	50		
Max. height difference	Outdoor unit upside	m 20		
	Outdoor unit downside	m 20		
Refrigerant	Type	R32		
	Quantity	kg	3,1	
	Throttle type	EXV		

HYDRONIC module		12kW		
Power supply		V/Ph/Hz	220~240/1/50	
Leaving water temperature	Space heating	°C	25~60	
	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 (W×H×D)		mm	490×910×340	
Packing (W×H×D)		mm	620×1105×425	
Net/gross weight		kg	48/56	
Water circuit	Piping connection Dia	Outlet	mm DN32	
		Inlet	mm DN32	
	Safty valve		kPa	600
		Drainage pipe Dia	mm	DN20
	Expansion tank	Volume	l	2
		Max. water pressure	kPa	800
		Pre pressure	kPa	150
	Water side heat exchanger	Type	Plate type	
		Volume	l	1,22
	Water pump	Model	Para 25/9	
Pump head		m	9	
Refrigerant circuit	Liquid side Dia	mm	Φ9,52	
	Gas side Dia	mm	Φ15,88	
Back-up E-heater	Power supply	V/Ph/Hz	230V/1Ph/50Hz	
	Power	kW	3kW	
	Step	1		
	Max. power input	kW	3kW	
	Max. current input	A	13,6A	

TIVANO-12kW						
LWE	35		55			
Tamb	HC	PI	COP	HC	PI	COP
-25/-	6,3	4,07	1,55			
-20/-	8,43	3,83	2,2	4,48	3,58	1,25
-15/-	10,2	4,23	2,41	7,99	4,96	1,61
-7/-8	12,12	4,25	2,85	8,42	4,94	1,7
2/1	12,6	3,6	3,5	10,92	4,42	2,47
7/6	12,84	3,38	3,8	11,4	4,2	2,71
15/12	13,44	2,85	4,72	11,64	4,16	2,8
20/15	13,8	2,37	5,83	11,88	3,53	3,37
25/18	14,04	2,19	6,42	12,12	3,24	3,74
35/24	12,48	1,82	6,85	10,68	2,72	3,92
43/28	12,24	1,62	7,56	10,2	2,39	4,26

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 0.172m ³ /(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 0.172m ³ /(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	
Heating condition: water flow 0.172m ³ /(h·kW), ambient temperature 7°C, water inlet/outlet temperature 40/45°C.	Capacity	kW	16	
	Power input	kW	4,71	
	COP	kW/kW	3,4	
Cooling condition: water flow 0.172m ³ /(h·kW), ambient temperature 35°C, water inlet/outlet temperature 23/18°C.	Capacity	kW	15,2	
	Power input	kW	3,17	
	EER	kW/kW	4,8	
Seasonal space heating energy eff. Class (average climate general)	water outlet 35°C		A++	
	water outlet 35°C		A++	
	water outlet 55°C		A++	
	water outlet 55°C		3,38	
Max. power input		kW	6,4	
Max. current input		A	12,1	
Sound power level		dB(A)	70	
Physical data				
Dimension (W×H×D)		mm	1014×1430×450	
Packing (W×H×D)		mm	1095×1545×485	
Net/gross weight		kg	124/138	
Compressor	Brand	GMCC Toshiba		
	Type	Rotary DC Inverter		
	Model	EKTQ420D1UMU		
	Poles	6		
	Speed	rps	12~120	
	Oil	POE/1400ml		
	Motor type	Brushless DC motor		
Outdoor fan	Model	DR-310-100-8-2		
	Number of fans	2		
	Air flow	m ³ /h	6100	
	Number of rows	2		
	Tube pitch(a)× row pitch(b)	mm	25×21,7	
	Tube dia. and type	Φ9.52 inner grooved copper		
	Fin space	mm	1,6	
Air side heat exchanger	Fin type (code)	Hydrophilic aluminum		
	Coil (length×height×width)	mm	995×1350×43,3	
	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	50		
Max. height difference	Outdoor unit upside	m 20		
	Outdoor unit downside	m 20		
Refrigerant	Type	R32		
	Quantity	kg	3,8	
	Throttle type	EXV		

HYDRONIC module		16kW		
Power supply		V/Ph/Hz	220~240/1/50	
Leaving water temperature	Space heating	°C	25~60	
	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 (W×H×D)		mm	490×910×340	
Packing (W×H×D)		mm	620×1105×425	
Net/gross weight		kg	48/56	
Water circuit	Piping connection Dia	Outlet	mm DN32	
		Inlet	mm DN32	
	Safty valve		kPa	600
		Drainage pipe Dia	mm	DN20
	Expansion tank	Volume	l	2
		Max. water pressure		