



Outdoor Unit			TGTP-12HMDA1
Power supply		V/Ph/Hz	220~240/1/50
Performance data			
Rated Heating *1	Capacity	kW	12
	Power input	kW	2,9
	COP	kW/kW	4,14
Rated Cooling *2	Capacity	kW	10
	Power input	kW	3,7
	EER	kW/kW	2,7
Heating *3	Capacity	kW	12
	Power input	kW	3,53
	COP	kW/kW	3,4
Cooling *4	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 @ 55°C		A++
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
	Type		Rotary DC Inverter
	Model		EKTF310D43UMT
	Poles		6
	Speed	rps	12~120
	Oil		POE/1000mL
Outdoor fan	Number of fans		1
	Air flow	m³/h	4000

1. The rated heating conditions: water flow 0.172m³/(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.
2. The rated cooling conditions: water flow 0.172m³/(h·kW), ambient temperature 35°C DB, water inlet/outlet temperature 12/7°C.
3. Heating condition: water flow 0.172m³/(h·kW), ambient temperature 7°C, water inlet/outlet temperature 40/45°C.
4. Cooling condition: water flow 0.172m³/(h·kW), ambient temperature 35°C, water inlet/outlet temperature 23/18°C.

Hydronic Modul			TGHM-12HMDA1	
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
	Safety 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	Brand		wilo
Model			Para 25/9	
Pump head		m	9	
Refrigerant circuit	Liquid side Dia.	mm	Ø 9.52	
	Gas side Dia.	mm	Ø 15.88	
Back-up E-heater	Power supply	V/Ph/Hz	230V/1Ph/50Hz	
	Capacity	kW	3kW	
	Max. power input	kW	3kW	
	Max. current input	A	13.6A	
Piping connections				
Liquid pipe	Type		Flaring	
	Dia.(OD)	mm	Ø 9.52	
Gas pipe	Type		Flaring	
	Dia.(OD)	mm	Ø 15.88	
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	
	Additional charge	g	(Total pipe length - 5)m *30g/m	
Ambient temperature range	Cooling	°C	-5~46°C	
	Heating	°C	-28~43°C	
	Sanitary hot water	°C	-28~43°C	
Water temperature range	Cooling	°C	5~25°C	
	Heating	°C	25~60°C	
	Sanitary hot water	°C	40~60°C	