

TEMPERATURE CONTROL 14/14

WATER TO WATER POOL HEAT PUMP



✓ Technical features

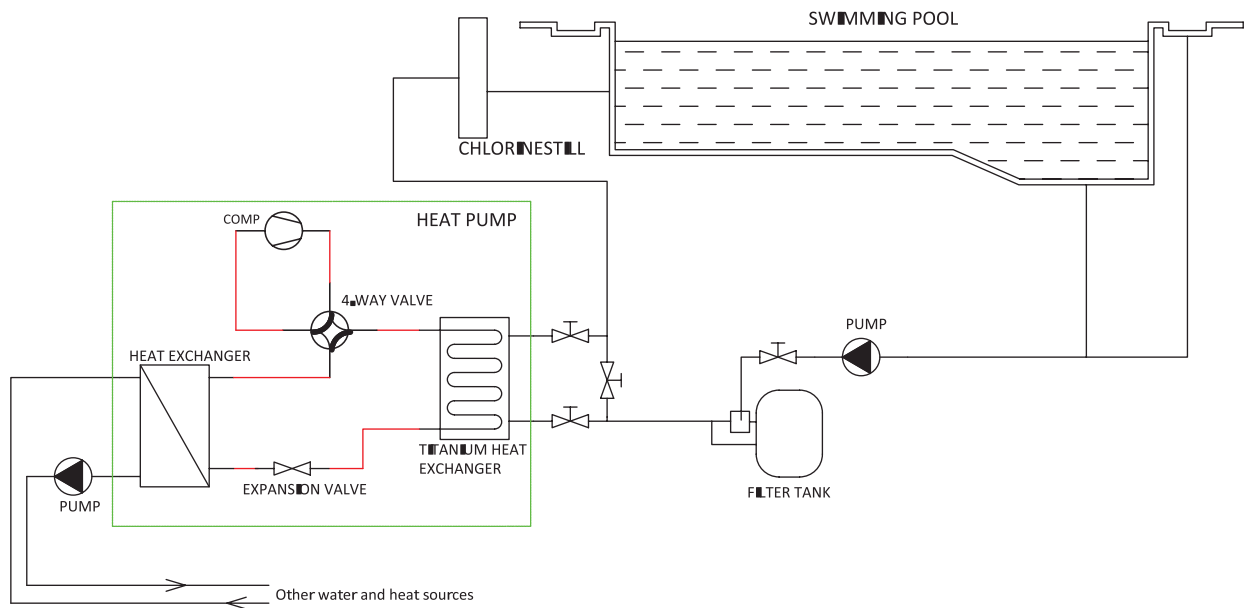
- Standard type with heating capacity of 13.7kW~171kW
- Touchscreen LCD control display - Can easily connect with a BMS
- Clock and timer on/off function
- High quality system with great efficiency
- Titanium heat exchanger
- Quiet operation
- Environmentally friendly

🔍 Models (R410A)

		WN404	WN405	WN406	WN407	WN410
Power supply	V/PH/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
PERFORMANCE CONDITION		Sourcing water inlet Temp. : 12°C , User's side water inlet Temp : 30°C				
Heating Output	kW	10.5	14.1	17.8	20.2	27.1
Power Input	kW	2.6	3.4	4.3	4.9	6.8
COP		4.06	4.13	4.13	4.11	3.99
PERFORMANCE CONDITION		Sourcing water inlet Temp. : 15°C , User's side water inlet Temp : 30°C				
Heating Output	kW	10.8	14.3	18.2	20.6	27.6
Power Input	kW	1.9	2.6	3.2	3.7	5.1
COP		5.57	5.60	5.62	5.58	5.42
PERFORMANCE CONDITION		Sourcing water inlet Temp. : 30°C , User's side water inlet Temp : 28°C				
Cooling Output	kW	16.1	22.1	25.7	29.4	42.6
Power Input	kW	1.4	1.9	2.4	2.5	3.6
EER		11.33	11.55	10.79	11.57	11.81
PERFORMANCE CONDITION		Sourcing water inlet Temp. : 40°C , User's side water inlet Temp : 28°C				
Cooling Output	kW	18.9	25.9	30.0	34.4	49.9
Power Input	kW	1.5	2.0	2.5	2.6	3.7
EER		12.81	13.06	12.20	13.08	13.35
Max. power Input	kW	4.3	5.7	7.2	8.2	11.0
Max. current	A	7.6	10.2	12.9	14.6	19.6
Sound power level 1m	dBA	41	42	42	43	44
Water Side Heat Exchanger Type		Twisted Titanium Heat Exchanger				
Water Connection	Inch	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"
Nominal Water Flow	m3/h	5.0	6.7	8.5	9.6	12.9
Leaving water temperature range-Heating	°C	18~40				
Leaving water temperature range-Cooling	°C	12~40				
Refrigerant Type		R410A				
Unit size	mm	900 x 760 x 860	900 x 760 x 860	900 x 760 x 860	900 x 760 x 860	1105 x 700 x 1590
Unit Net weight	kg	105/120	105/120	110/125	110/125	260/280



System setup



Models

WN412	WN413	WN414	WN415	WN416	WN417	WN418	WN419
380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Sourcing water inlet Temp. : 12°C , User's side water inlet Temp : 30°C							
33.9	39.9	53.9	67.8	83.9	108.3	135.9	172.1
8.7	9.8	13.1	16.4	19.9	26.9	34.4	44.0
3.90	4.07	4.11	4.14	4.21	4.02	3.95	3.92
Sourcing water inlet Temp. : 15°C , User's side water inlet Temp : 30°C							
34.6	40.6	54.9	69.1	85.5	110.3	138.5	174.9
6.5	7.3	9.8	12.3	15.0	20.2	25.8	32.5
5.30	5.53	5.58	5.63	5.72	5.46	5.37	5.38
Sourcing water inlet Temp. : 30°C , User's side water inlet Temp : 28°C							
54.3	58.6	85.4	109.1	117.7	170.5	218.1	241.3
4.5	5.2	7.1	9.0	10.7	14.4	18.4	21.9
12.15	11.35	11.97	12.09	11.04	11.88	11.88	11.02
Sourcing water inlet Temp. : 40°C , User's side water inlet Temp : 28°C							
63.5	68.6	100.0	127.6	137.7	199.4	255.2	282.3
4.6	5.3	7.4	9.3	11.0	14.9	19.0	22.7
13.73	12.83	13.54	13.67	12.48	13.43	13.43	12.46
13.7	16.2	21.9	27.5	32.3	43.9	55.0	58.0
24.5	28.8	39.2	49.1	57.7	78.4	98.2	105.0
44	45	49	55	55	56	57	59
Twisted Titanium Heat Exchanger							
BSP threaded / 1-1/2"	BSP threaded / 2"	BSP threaded / 2"	flange/ 3"	flange/ 3"	flange/ 4"	flange/ 4"	flange/ 4"
16.1	19.0	25.7	32.5	40.3	51.5	64.5	82.6
18~40							
12~40							
R410A							
1105x700x1590	1105x700x1590	1750x1120x1000	1750x1120x1000	2000x1120x1000	2300x1120x1000	2600x1120x1000	2600x1120x1000
270/290	270/290	380/400	380/400	570/600	755/800	755/800	755/800



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