

# Technical data

EcoTouch 5110 TWR

EcoTouch 5240 TWR

WR = Heat recovery

2-power levels (0 % - 50 % - 100 %)

- with electronic expansion valve

- with / without soft starter

- with / without frequency converter

Refrigerant: R134a



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Note: This symbol mark applies only to countries within the European Union (EU).

This symbol mark is in compliance with Directive 2012/19/EU, Article 14. The product has been designed and manufactured with high-quality materials and components which are suitable for recycling.

This symbol means that electrical and electronic equipment, at the end of its useful life, shall be disposed of separately from household waste. Please dispose of this equipment at your designated collection point or local recycling centre.

In the European Union, different collection systems are available for used electrical and electronic equipment. Please help us to conserve the environment we live in!

## NOTICE

Do not release R134a into the atmosphere:  
R134a is a fluorinated greenhouse gas according to Kyoto Protocol and has a global warming potential (GWP) of 1430.

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# 1 Installation and connection

## 1.1 Connections EcoTouch 5110 TWR (rear side)

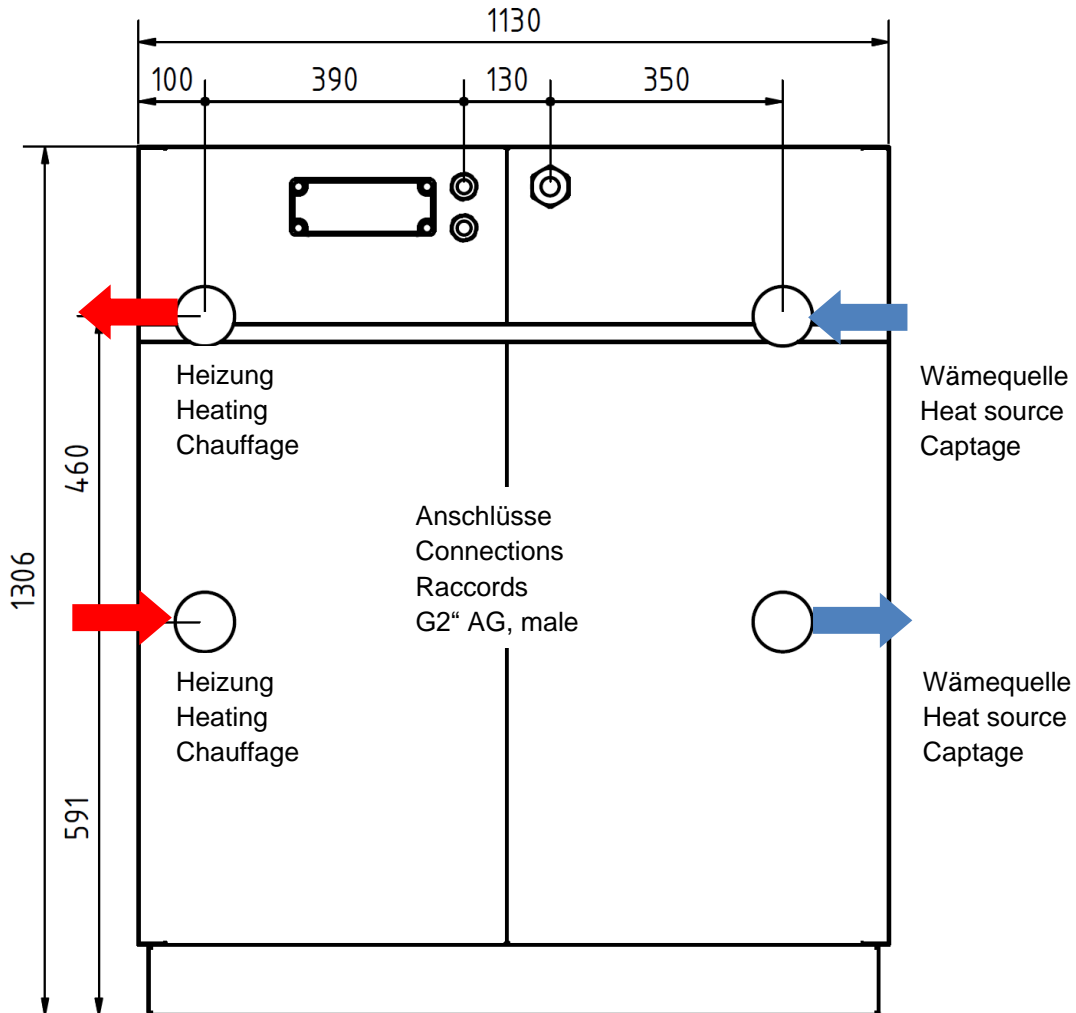


Figure 1: Connections EcoTouch 5110 TWR heating and heat source(2" flat sealing)

## 2 Installation and connection

### 2.1 Connections EcoTouch 5240 TWR (rear side)

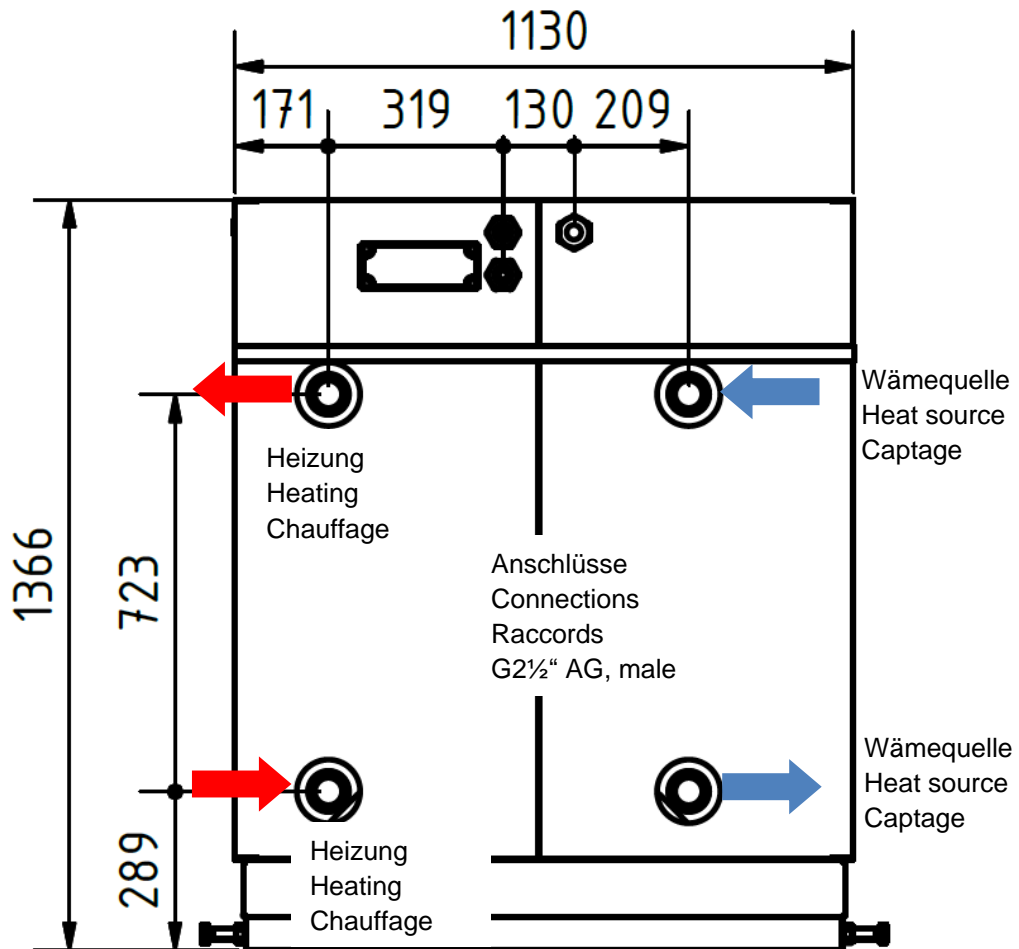


Figure 2: Connections EcoTouch 5240 TWR heating and heat source (2" flat sealing)

### 3 Technical data EcoTouch 5110TWR

EcoTouch 5110 TWR, R134a	5063.4TWR	5072.4TWR	5090.4TWR	5108.4TWR
<b>Heat source (min. 10 °C - max. 50 °C)</b>				
Power cons./output. <b>W30/W65</b> , kW (compressor)	13.2/64.2	15.4/74.6	20.2/93.4	24.6/111.8
Performance factor (COP) at <b>W30/W65</b> (EN 14511)	4.85	4.86	4.63	4.55
Heat source flow rate, m <sup>3</sup> /h ( $\Delta T=3K$ ) <sup>1)</sup>	11.2	13.0	16.1	19.1
Pressure loss in the evaporator mWC ( $\Delta T=3K$ )	0.7	0.9	1.0	1.3
Heating water flow rate, m <sup>3</sup> /h ( $\Delta t=10K$ )	5.6	6.5	8.2	9.6
Pressure loss in the condenser mWC	0.1	0.2	0.2	0.3
Operation limits <b>heat source: min. 10 °C - max. 50 °C // W10/W75 – W20/W80</b>				
Compressor	Vollhermetic-Tandem-Scroll			
Sound power level EN 12102 at W10/W55 dB(A)	63	63	67	71
<b>Electrical data 3x400 V, 50 Hz</b>				
Starting current, A	111	118	140	174
Starting current soft start, A	56	59	70	87
Max. operating current, A	2x 17.7	2x 20.7	2x 27.1	2x 34.3
Main fuse, provided by customer, delay A separated power supply	C 50 A	C 50 A	C 63 A	C 80 A
Control fuse, provided by customer, delay A	B 10 A	B 10 A	B 10 A	B 10 A
<b>Dimension, weights, connections</b>				
Compressor volume oil filling (l)	2x 3.38	2x 3.38	2x 3.38	2x 3.38
Refrigerant volume R134a (kg)	upon request	upon request	upon request	upon request
Volume heating side (l)	8	9	11	12
Volume heat source side (l)	8	9	11	12
Weight of device (kg)	312	327	357	370
Connections :heat source / use	flat sealing R 2" ext. / R 2" ext.			
Dimensions W x H x D, mm	1130 x 1306 x 886			

<sup>1)</sup>Tolerances stated in EN 12900 and EN14511 apply for the performance data listed above <sup>2)</sup> Heat source ground water with intermediate circuit. For details refer to our product range. The energy rates are basing on this system configuration. The intermediate circuit has to be filled with 15 % Ethyl-en-Glykol.

The individual specifications and filling quantities of your heat pump system, refer to the type plate.

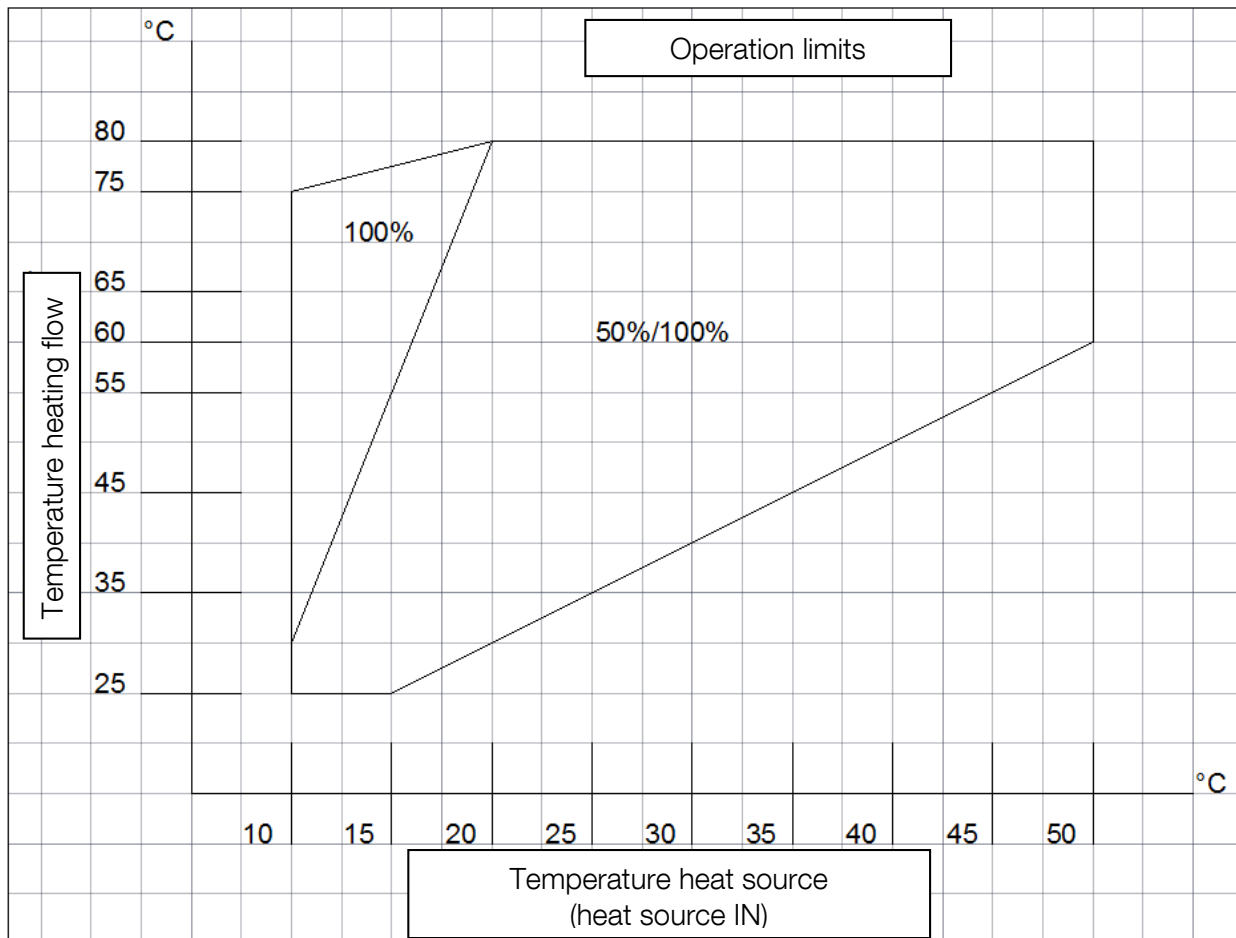
## 4 Technical data EcoTouch 5240TWR

EcoTouch 5240TWR, R134a	ET 5144.4TWR	ET 5179.4TWR	ET 5222.4TWR
<b>Heat source (min. 10°C - max. 50°C)</b>			
Power cons./output. <b>W30/W65</b> , kW (compressor)	31.9/145.3	39.1/180.5	47.9/223.1
Performance factor (COP) <b>W30/W65</b> (EN 14511)	4.55	4.62	4.67
Heat source flow rate, m <sup>3</sup> /h (ΔT=4K) <sup>2)</sup>	25.0	31.1	38.5
Pressure loss in the evaporator mWC (ΔT=3K)	3.6	3.4	3.5
Heating water flow rate, m <sup>3</sup> /h (ΔT=10K)	12.7	15.8	19.5
Pressure loss in the condenser mWC	0.6	0.5	0.6
Operation limits	<b>heat source: min. 10 °C - max. 50 °C // W10/W75 – W20/W80</b>		
Compressor	full hermetic-tandem-scroll		
Sound power level EN 12102 at W10/W55 dB(A)	72	74	76
<b>Electrical data 3x400 V, 50 Hz</b>			
Starting current, A	225	272	310
Starting current soft start, A	113	136	155
Max. operating current, A	2x 42.9	2x 52.8	2x 62.9
Main fuse, provided by customer, delay A separated power supply	2x C 50 A	2x C 63 A	2x C 80 A
Control fuse, provided by customer, delay A	B 10 A	B 10 A	B 10 A
<b>Dimension, weights, connections</b>			
Compressor volume oil filling (l)	2x 4.67	2x 6.8	2x 6.3
Refrigerant volume R134a (kg)	upon request	22,5	upon request
Volume heating side (l)	21	27	33
Volume heat source side (l)	21	27	33
Weight of device (kg)	900	1.000	1.100
Connections :heat source / use	flat sealing G 2½"ext. / G 2½"ext.		
Dimensions W x H x D, mm	1130 x 1366 x 1076		

<sup>1)</sup>Tolerances stated in EN 12900 and EN14511 apply for the performance data listed above <sup>2)</sup> Heat source ground water with intermediate circuit. For details refer to our product range. The energy rates are basing on this system configuration. The intermediate circuit has to be filled with 15 % Ethyl-en-Glykol.

The individual specifications and filling quantities of your heat pump system, refer to the type plate.

## 5 Operating limits EcoTouch 5110.4 TWR / 5240 TWR



**For each inquiry or order, please specify the operating conditions intended for your plant in the following table! The manufactured heat pump is optimised for this operating point.**

Operating data	
Heating flow temperature [°C]	
Heating return temperature [°C]	
Heating: Heat transfer fluid	
Heat source inlet temperature [°C]	
Heat source outlet temperature [°C]	
Heat source: Heat transfer fluid	



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